

**MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.**

OBSERVATIONS  
MADE AT THE  
MAGNETICAL AND METEOROLOGICAL  
OBSERVATORY  
AT  
TORONTO IN CANADA.

PRINTED BY ORDER OF HER MAJESTY'S GOVERNMENT,

UNDER THE SUPERINTENDENCE OF

COLONEL EDWARD SABINE,  
OF THE ROYAL ARTILLERY.

**Vol. II.—1843, 1844, 1845.**

WITH ABSTRACTS OF THE OBSERVATIONS to 1848, AND IN SOME CASES  
to 1852, INCLUSIVE.

LONDON:

PUBLISHED FOR HER MAJESTY'S STATIONERY OFFICE, BY

LONGMAN, BROWN, GREEN, AND LONGMANS.

1853.



LONDON :  
Printed by W. CLOWES and Sons, Stamford Street,  
For Her Majesty's Stationery Office.

## INDEX.

---

	PAGE
INTRODUCTION . . . . .	i
<b>ADJUSTMENTS, ABSTRACTS, AND COMMENTS.</b>	
<b>I.—MAGNETICAL INSTRUMENTS.</b>	
<b>DECLINATION</b>	<ul style="list-style-type: none"> <li>Absolute Values, 1845 to 1851 inclusive . . . . . iii</li> <li>Secular Change, 1845 to 1851 inclusive . . . . . vi</li> <li>Probable error of the Monthly Declinations . . . . . vi</li> <li>Annual Variation (mean of the 24 hours) . . . . . vi</li> <li>Annual Variation at the different Observation Hours . . . . . vii</li> <li>Diurnal Variation . . . . . ix</li> <li>Corrections to Monthly Mean Values for the different Observation Hours . . . . . xvi</li> <li>Remarks on the Annual and Diurnal Variations . . . . . xvi</li> <li>Variation of the Diurnal Range . . . . . xxi</li> <li>Analysis of the larger Disturbances . . . . . xxii</li> <li>Table showing the time of occurrence, direction and amount of the 5322 largest Disturbances between January 1, 1841, and June 30, 1848 . . . . . xxxvi</li> </ul>
<b>HORIZONTAL FORCE</b>	<ul style="list-style-type: none"> <li>Adjustments and Coefficients of the Bifilar Magnetometer . . . . . li</li> <li>Diurnal Variation . . . . . liii</li> <li>Corrections to Monthly Mean Values for the different Observation Hours . . . . . lx</li> </ul>
<b>VERTICAL FORCE.</b>	<ul style="list-style-type: none"> <li>Adjustments and Coefficients of the Vertical Force Magnetometer . . . . . lxi</li> <li>Diurnal Variation . . . . . lxiii</li> </ul>
<b>INCLINATION AND TOTAL FORCE</b>	<ul style="list-style-type: none"> <li>Diurnal Variations . . . . . lxx</li> <li>Variations of the Diurnal Range of the Horizontal Force, Vertical Force, Inclination, and Total Force . . . . . lxxxiv</li> </ul>
<b>INCLINATION</b>	<ul style="list-style-type: none"> <li>Mean Monthly Values, January 1841 to December 1852 inclusive . . . . . lxxxv</li> <li>Annual Variation . . . . . lxxxvii</li> <li>Secular Change . . . . . lxxxviii</li> </ul>
<b>HORIZONTAL FORCE</b>	<ul style="list-style-type: none"> <li>Absolute Values, January 1845 to December 1852 . . . . . lxxxix</li> <li>Secular Change 1845 to 1851 . . . . . xci</li> <li>Annual Variation . . . . . xci</li> </ul>
<b>TOTAL FORCE</b>	<ul style="list-style-type: none"> <li>Absolute Value and Annual Variation . . . . . xcii</li> </ul>
<b>DISTURBANCES</b>	<ul style="list-style-type: none"> <li>Of the Magnetometers when the Mean Readings were not materially changed . . . . . xcii</li> </ul>

## II.—METEOROLOGICAL INSTRUMENTS.

	PAGE
Corrections for the Scale of the Standard Thermometer . . . . .	xcvii
Mean Temperature at every Hour in every Month from July 1842 to June 1848 inclusive . . . . .	c
Mean Height of the Barometer at every Hour in every Month, from July 1842 to June 1848, inclusive . . . . .	civ
Monthly Means of the Wet Thermometer at every Hour in every Month, from July 1842 to June 1848, inclusive . . . . .	cviii
Mean Elastic Force of Vapour at every Hour in every Month, from July 1842 to June 1848, inclusive . . . . .	cxii
Mean Degree of Humidity at every Hour in every Month, from July 1842 to June 1848, inclusive . . . . .	cxvi
Mean Temperature of the Air, from July 1842 to June 1848, inclusive. General view . . . . .	cxx
Mean Height of the Barometer for the same period. General view . . . . .	cxx
Mean Elasticity of Vapour for the same period. General view . . . . .	cxxi
Mean Gaseous Pressure for the same period. General view . . . . .	cxxii
Mean Degree of Humidity for the same period. General view . . . . .	cxxiii
Mean Annual Variations of the Meteorological Phenomena . . . . .	cxxii
Mean Diurnal Variations of the same . . . . .	cxxiii
Corrections to be applied to Thermometric Observations made at Toronto at any hour of the day, to give the corresponding mean temperature of the day . . . . .	cxxiv
Postscript. . . . .	cxxviii

## MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

1843	
Declination . . . . .	2
Horizontal Force . . . . .	14
Vertical Force . . . . .	38
Term Observations . . . . .	58
Barometer . . . . .	78
Standard Thermometer . . . . .	96
Wet Thermometer . . . . .	108
Humidity of Air and Tension of Vapour . . . . .	120
Direction and Force of the Wind . . . . .	146
Occasional Observations of the Aurora during considerable Magnetic Disturbances in 1842 and 1843 . . . . .	172
Meteorological Journal . . . . .	176
1844	
Declination . . . . .	186
Horizontal Force . . . . .	198
Vertical Force . . . . .	222
Term Observations . . . . .	244
Barometer . . . . .	266
Standard Thermometer . . . . .	282
Wet Thermometer . . . . .	294
Humidity of Air and Tension of Vapour . . . . .	306
Direction and Force of the Wind . . . . .	332
Occasional Observations of the Aurora during Magnetic Disturbances . . . . .	358
Meteorological Journal . . . . .	359

INDEX.

7

MAGNETICAL AND METEOROLOGICAL OBSERVATIONS.

	1845	PAGE
Declination . . . . .		368
Horizontal Force . . . . .		380
Vertical Force . . . . .		404
Term Observations . . . . .		428
Barometer . . . . .		454
Standard Thermometer . . . . .		466
Wet Thermometer . . . . .		478
Humidity of Air and Tension of Vapour. . . . .		490
Direction and Force of the Wind . . . . .		516
Observations of the Aurora . . . . .		542
Meteorological Journal . . . . .		543

---

Times of Disturbance of the Magnetometers when the mean readings were not materially changed, 1842 to 1845 . . . . .	550
Observations of the Magnetic Inclination, 1843 to 1852 inclusive . . . . .	560
Observations of the Absolute Horizontal Force, 1845 to 1852 inclusive . . . . .	569
Observations of the Absolute Declination, 1845 to 1851 inclusive . . . . .	635

---

DIRECTIONS FOR PLACING THE PLATES.

Plate 1. Annual Variation of the Declination at each of the Observation Hours . . . . .	ix
„ 2. Illustrations of the Annual and Diurnal Variations of the Declination . . . . .	xx

---



**ADJUSTMENTS, ABSTRACTS, AND COMMENTS.**

---

**MAGNETICAL INSTRUMENTS.**



ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

MAGNETIC DECLINATION.

*Absolute Values.*—In January 1845 a series of Observations was commenced at Toronto, for the purpose of determining the monthly values of the Declination by means of a Declinometer, placed in a detached building appropriated to that object only. The Declinometer was of the construction described in Captain Riddell's "Magnetical Instructions," page 15, having a collimator magnet of 3·85 inches in length. The Theodolite employed to measure the angle between the zero of the collimator scale and a fixed distant object (the west side of the lighthouse in the harbour of Toronto, distant 3½ miles nearly from the Observatory) was the original transit theodolite of the Observatory; it was placed in the same building with the Declinometer, but on a separate pedestal. The building was of wood, copper fastened, and was situated in the Observatory enclosure about 20 feet S.W. of the Observatory itself. Usually six determinations were made in each month, and at about the same part of the month. The centre wire of the telescope was made to coincide with the zero of the collimator scale at an instant previously arranged, so that an assistant might at the same instant note the scale reading of the Declinometer in the Observatory; by this means each independent determination became referable to the mean reading of the last-named instrument, *i. e.*, of the differential Declinometer, in the same month.

The astronomical bearing of the west side of the lighthouse from the Theodolite was ascertained by the mean of 16 determinations made at intervals in 1845, 1846, and 1847, to be S. 8° 36' 7" E.

The Declinometer Observations from January 1845 to December 1851 inclusive are given in detail in the latter part of this volume. An abstract of them is contained in the following Table:—

TABLE I.—*Monthly Determinations of the Declination from 1845 to 1851, inclusive.*

DATES.	Mean Observed Declination.	Mean Reading of the Observatory Declinometer.	Mean Monthly Reading of the Observatory Declinometer.	Differences $\alpha - \beta$ .		Observed Declination reduced to the Mean Monthly Reading of the Observatory Declinometer.
				Sc. Divisions.	Arc.	
1845.						
January . . .	1 28·5	113 9	117·4	— 3·5	— 2·5	1 26·0 West.
February . . .	1 26·7	114·4	117 6	— 3·2	— 2·3	1 24·4
March . . .	1 36·3	106·5	117·3	— 10 8	— 7·8	1 28·5
April . . .	1 34·6	109·7	116·4	— 6·7	— 4·8	1 29·8
May . . .	1 34·8	109·8	116·0	— 6·2	— 4·5	1 30 3
June . . .	1 32·6	111·0	115·7	— 4·7	— 3·4	1 29·2
July . . .	1 34·1	108·4	115·3	— 6·9	— 5·0	1 29·1
August . . .	1 34·2	106·6	114·4	— 7·8	— 5·6	1 28·6
September . . .	1 35·8	106·6	113·4	— 6·8	— 4·9	1 30·9
October . . .	1 32·6	112 8	113·3	— 0·5	— 0·4	1 32·2
November . . .	1 31·9	110·4	113 2	— 2 8	— 2 0	1 29·9
December . . .	1 31·7	114·0	114·5	— 0·5	— 0·4	1 31·3
Means . . .	1 32·8	110·3	115·4	— 5·1	— 3·7	1 29·1



TABLE I.—*Monthly Determinations of the Declination from 1845 to 1851, inclusive—continued.*

DATES.	Mean Observed Declination.	Mean Reading of the Observatory Declinometer.	Mean Monthly Reading of the Observatory Declinometer.	Differences $\alpha - \beta$ .		Observed Declination reduced to the Mean Monthly Reading of the Observatory Declinometer.	
				Sc. Divisions.	Arc.		
1846.							
January . . .	1 32.3	113.7	114.8	- 1.1	- 0.8	1 31.5 West.	January.
February . . .	1 30.6	112.0	113.7	- 1.7	- 1.2	1 29.4	February.
March . . .	1 29.2	113.5	113.3	+ 0.2	+ 0.1	1 29.1	March.
April . . .	1 31.7	110.4	112.7	- 2.3	- 1.7	1 30.0	April.
May . . .	1 33.4	107.4	112.2	- 4.8	- 3.5	1 29.9	May.
June . . .	1 31.5	109.5	113.3	- 3.8	- 2.7	1 28.8	June.
July . . .	1 34.4	109.6	113.5	- 3.9	- 2.8	1 31.6	July.
August . . .	1 36.0	105.3	112.9	- 7.6	- 5.5	1 30.5	August.
September . . .	1 35.6	107.4	112.2	- 4.8	- 3.5	1 32.1	September.
October . . .	1 33.8	110.2	113.1	- 2.9	- 2.1	1 31.7	October.
November . . .	1 35.0	109.0	112.8	- 3.8	- 2.7	1 32.3	November.
December . . .	1 34.0	111.4	114.0	- 2.6	- 1.9	1 32.1	December.
Means . . .	1 33.1	110.0	113.2	- 3.2	- 2.3	1 30.8	
1847.							
January . . .	1 33.0	113.0	114.1	- 1.1	- 0.8	1 32.2 West.	January.
February . . .	1 36.9	106.0	111.8	- 5.2	- 3.8	1 33.1	February.
March . . .	1 36.1	104.8	110.5	- 5.7	- 4.1	1 32.0	March.
April . . .	1 37.8	103.6	110.0	- 6.4	- 4.6	1 33.2	April.
May . . .	1 35.8	105.4	110.4	- 5.0	- 3.6	1 32.2	May.
June . . .	1 36.9	104.1	110.4	- 6.3	- 4.6	1 32.3	June.
July . . .	1 36.9	104.6	110.9	- 6.3	- 4.6	1 32.3	July.
August . . .	1 37.8	104.1	111.1	- 7.0	- 5.1	1 32.7	August.
September . . .	1 38.2	104.2	109.8	- 5.6	- 4.0	1 34.2	September.
October . . .	1 35.9	109.6	111.1	- 1.5	- 1.1	1 34.8	October.
November . . .	1 37.9	106.6	111.0	- 4.4	- 3.2	1 34.7	November.
December . . .	1 35.5	110.3	110.8	- 0.5	- 0.4	1 35.1	December.
Means . . .	1 36.5	106.4	111.0	- 4.6	- 3.3	1 33.2	
1848.							
January . . .	1 35.7	109.7	111.3	- 1.6	- 1.2	1 34.5 West.	January.
February . . .	1 34.2	118.3	117.2	+ 1.1	+ 0.8	1 35.0	February.
March . . .	1 38.6	111.1	116.7	- 5.6	- 4.0	1 34.6	March.
April . . .	1 40.0	110.7	116.8	- 6.1	- 4.4	1 35.6	April.
May . . .	1 38.6	110.0	115.6	- 5.6	- 4.0	1 34.6	May.
June . . .	1 37.0	113.4	115.9	- 2.5	- 1.8	1 35.2	June.
July . . .	1 40.7	108.0	116.4	- 8.4	- 6.1	1 34.6	July.
August . . .	1 41.9	108.3	115.9	- 7.6	- 5.5	1 36.4	August.
September . . .	1 39.7	109.7	115.2	- 5.6	- 4.0	1 35.7	September.
October . . .	1 42.1	107.4	114.1	- 6.7	- 4.8	1 37.3	October.
November . . .	—	—	—	—	—	1 36.2	November.
December . . .	1 36.5	111.6	113.6	- 2.0	- 1.4	1 35.1	December.
Means . . .	1 38.6	110.6	—	—	- 3.2	1 35.4	

MAGNETIC DECLINATION.

TABLE I.—*Monthly Determinations of the Declination from 1845 to 1851, inclusive—continued.*

DATES.	Mean Observed Declination.	Mean Reading of the Observatory Declinometer.	Mean Monthly Reading of the Observatory Declinometer.	Differences $\alpha - \beta$ .		Observed Declination reduced to the Mean Monthly Reading of the Observatory Declinometer.	
				Sc. Divisions.	Arc.		
1849.							
January . . .	1 41' 3	109' 9	113' 9	- 4' 0	- 2' 9	1 38' 4 West.	January.
February . . .	1 41' 4	1096' 8	1105' 4	- 8' 6	- 6' 2	1 35' 2	February.
March . . .	1 39' 1	146' 9	150' 1	- 3' 2	- 2' 3	1 36' 8	March.
April . . .	1 40' 1	143' 4	149' 9	- 6' 5	- 4' 7	1 35' 4	April.
May . . .	1 38' 6	146' 6	148' 9	- 2' 3	- 1' 6	1 37' 0	May.
June . . .	1 42' 0	142' 0	150' 3	- 8' 3	- 5' 9	1 36' 1	June.
July . . .	1 39' 8	144' 3	149' 3	- 5' 0	- 3' 7	1 36' 1	July.
August . . .	1 39' 8	145' 0	150' 6	- 5' 6	- 4' 1	1 35' 7	August.
September . . .	1 39' 9	147' 8	151' 6	- 3' 8	- 2' 7	1 37' 2	September.
October . . .	1 41' 4	143' 7	149' 4	- 5' 7	- 4' 2	1 37' 2	October.
November . . .	1 40' 8	146' 1	149' 2	- 3' 1	- 2' 3	1 38' 5	November.
December . . .	1 36' 6	153' 3	149' 8	+ 3' 5	+ 2' 5	1 39' 1	December.
Means . . .	1 40' 0	—	—	—	- 3' 1	1 36' 9	
1850.							
January . . .	1 36' 0	151' 2	150' 5	+ 0' 7	+ 0' 5	1 36' 5 West.	January.
February . . .	1 38' 9	148' 7	150' 6	- 1' 9	- 1' 4	1 37' 5	February.
March . . .	1 38' 8	150' 1	150' 5	- 0' 4	- 0' 3	1 38' 5	March.
April . . .	1 39' 2	351' 0	353' 4	- 2' 4	- 1' 7	1 37' 5	April.
May . . .	1 42' 3	351' 5	358' 8	- 7' 3	- 5' 2	1 37' 1	May.
June . . .	1 38' 7	359' 1	360' 0	- 0' 9	- 0' 6	1 38' 1	June.
July . . .	1 39' 4	359' 9	364' 4	- 4' 5	- 3' 2	1 36' 2	July.
August . . .	1 45' 2	356' 0	363' 4	- 7' 4	- 5' 3	1 39' 9	August.
September . . .	1 45' 0	355' 4	361' 7	- 6' 3	- 4' 6	1 40' 4	September.
October . . .	1 41' 4	364' 6	364' 4	- 0' 2	- 0' 2	1 41' 2	October.
November . . .	1 44' 0	362' 0	366' 5	- 4' 5	- 3' 3	1 40' 7	November.
December . . .	1 41' 8	362' 3	365' 6	- 3' 3	- 2' 3	1 39' 5	December.
Means . . .	1 40' 9	—	—	—	- 2' 3	1 38' 6	
1851.							
January . . .	1 44' 2	358' 2	364' 7	- 6' 5	- 4' 7	1 39' 5 West.	January.
February . . .	1 43' 9	361' 8	365' 2	- 3' 4	- 2' 5	1 41' 4	February.
March . . .	1 41' 7	362' 7	365' 5	- 2' 8	- 2' 1	1 39' 6	March.
April . . .	1 44' 2	359' 6	364' 7	- 5' 1	- 3' 7	1 40' 5	April.
May . . .	1 44' 8	357' 5	362' 9	- 5' 4	- 3' 9	1 40' 9	May.
June . . .	1 41' 8	362' 1	363' 2	- 1' 1	- 0' 8	1 41' 0	June.
July . . .	1 43' 4	357' 6	362' 3	- 4' 7	- 3' 4	1 40' 0	July.
August . . .	1 47' 2	355' 5	363' 1	- 7' 6	- 5' 5	1 41' 7	August.
September . . .	1 46' 5	354' 2	360' 1	- 5' 9	- 4' 2	1 42' 3	September.
October . . .	1 44' 8	356' 3	360' 7	- 4' 4	- 3' 2	1 41' 6	October.
November . . .	1 44' 5	355' 1	361' 3	- 6' 2	- 4' 4	1 40' 1	November.
December . . .	1 47' 7	351' 6	360' 5	- 8' 9	- 6' 4	1 41' 3	December.
Means . . .	1 44' 6	—	—	—	- 3' 7	1 40' 9	

*Secular Change.*—The monthly determinations in Table I. furnish 84 equations of the form  $\psi = \psi' + ay$ , in which  $\psi$  is the most probable value of the Declination at the mean epoch July 1, 1848;  $\psi'$  the observed Declination in any other month;  $a$  the interval in months between the date of  $\psi'$  and July 1, 1848, negative if that date is earlier than July 1, 1848, positive if later; and  $y$  is the monthly secular change. From these equations are obtained  $\psi = 1^\circ 34' \cdot 91$ , the Declination at the mean epoch, July 1, 1848; and  $y = 0' \cdot 1627$ , or  $12y = 1' \cdot 952$ , the mean annual increase of West Declination in the years 1845 to 1851 inclusive.

*Probable Error of the Monthly Determinations in Table I.*—From the 84 equations furnished by Table I. we derive  $\psi'_1 = 1^\circ 34' \cdot 9 + 0' \cdot 1627a_1$ ,  $\psi'_2 = 1^\circ 34' \cdot 9 + 0' \cdot 1627a_2$ , . . . .  $\psi'_{84} = 1^\circ 34' \cdot 9 + 0' \cdot 1627a_{84}$  as the most probable values of the Declination in the several months from January 1845 to December 1851. From the differences between these, and the values actually observed in those months, we obtain by the known method  $\pm 0' \cdot 75$  as the probable error of a single monthly determination; and  $\pm 0' \cdot 08$  as the probable error of the mean determination  $1^\circ 34' \cdot 9$  on July 1, 1848, assuming the true bearing of the west side of the lighthouse from the Theodolite to have been S.  $8^\circ 36' 07''$  E., according to Captain Lefroy's determination. The "probable errors" include the irregularities produced by the magnetic disturbances. The differences from which the probable errors have been computed include the effects of the mean annual variation; these have not been eliminated because, as will presently be seen, they are so small that they may practically be disregarded.

*Annual Variation.*—The hourly observations of the differential declinometer during those years in which its indications can be shown to have been intercomparable, furnish the most unexceptionable means for this investigation. In the first vol. of the Toronto Observations, p. viii., the zero of the scale of the differential declinometer, or the division of the scale corresponding to the magnetic axis of its magnet, is stated to have been 143·4, as determined by Captain Younghusband on 4th June 1841. A redetermination by Captain Lefroy, in February 1849, before the declinometer was dismantled to make room for the self-recording instruments, gave also 143·4. The declination corresponding to the scale division 143·4 is given, for each month of the years 1845, 1846, and 1847, by the intercomparison of the mean monthly readings of the declinometer shown in Table I., with the most probable values of the declination corresponding to the same periods, derivable from the independent monthly determinations in the same Table by the general equation,  $\psi' = 1^\circ 34' \cdot 9 + 0' \cdot 1627a'$ . The declination corresponding to the division 143·4, in the different months thus obtained, is shown in the following Table:—

TABLE II.

MONTHS.	1845 1°+	1846 1°+	1847 1°+	Means 1°+	Differences $\alpha - \beta$
January . .	9'41	9'46	10'93	9'94 = $\alpha$	+ 0'71
February . .	9'72	8'86	9'45	9'34 = $\alpha$	+ 0'11
March . . .	9'66	8'74	8'67	9'02 = $\alpha$	- 0'21
April . . .	9'18	8'47	8'47	8'71 = $\alpha$	- 0'52
May . . . .	9'05	8'27	8'92	8'75 = $\alpha$	- 0'48
June . . . .	9'00	9'22	9'09	9'10 = $\alpha$	- 0'13
July . . . .	8'88	9'53	9'61	9'34 = $\alpha$	+ 0'11
August . . .	8'39	9'26	9'91	9'19 = $\alpha$	- 0'04
September .	7'83	8'92	9'15	8'63 = $\alpha$	- 0'60
October . . .	7'92	9'73	10'24	9'30 = $\alpha$	+ 0'07
November . .	8'02	9'68	10'33	9'34 = $\alpha$	+ 0'11
December . .	9'11	10'70	10'35	10'05 = $\alpha$	+ 0'82
Means . . .	8'85	9'24	9'59	9'23 = $\beta$	—

We may derive two conclusions from this Table: 1st, that the scale division corresponding to the magnetic axis of the declinometer magnet underwent little if any change during the years 1845, 1846, and 1847, and consequently that the indications of that instrument may be regarded as intercomparable in those years; and, 2nd, that the *mean* annual variation, or that which is obtained by comparing the mean monthly readings with each other, can only be of very small amount. Of the two elements of comparison from which the values in Table II. are derived, one, viz., the most probable monthly values of the declination, is unaffected by the irregularities of the magnetic disturbances; whilst the other, viz., the mean monthly readings of the declinometer, necessarily includes them. The small differences in the declination values in the three first columns of Table II. are probably, for the most part, occasioned by those irregularities; and the differences in the final column may not be altogether uninfluenced by them.

We may also take from Table II.  $1^{\circ} 09' \cdot 2$  as the declination value corresponding to the 143·4 division of the declination scale during the years 1845, 1846, and 1847.

*Annual Variation at the different Observation Hours.*—Having shown that the observations of the differential declinometer were intercomparable during the years 1845 to 1847, and that the zero of the scale corresponded to  $1^{\circ} 09' \cdot 2$  of west declination, we may combine the observations in the different months and at the different hours in those years so as to form a *mean year* corresponding to the middle year (January to December 1846). This is done in Table III., the values inserted in this Table being in every case a mean of the declinations observed at the specified hour and in the specified month in the three years commencing 1st January 1845 and ending 31st December 1847:—

TABLE III.

Showing the Mean (West) Declination at every Observation Hour in every Month of the Year 1846, derived from Three Years of Hourly Observations.

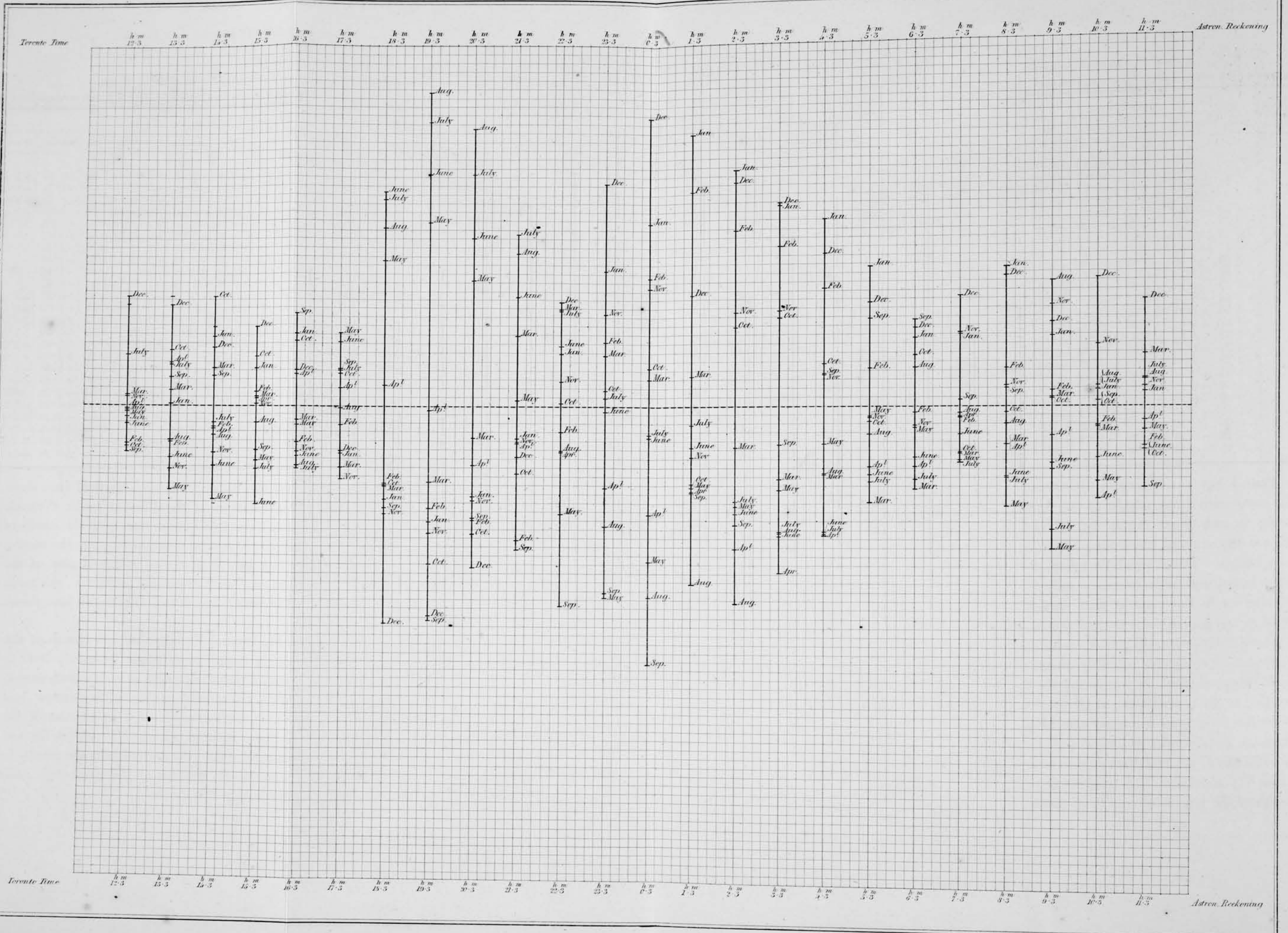
Toronto Time, Astronomical Reckoning.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Mean Declination at each Observa- tion Hour, cor- responding to the Mean Epoch, July 1st, 1846.
		1°+	1°+	1°+	1°+	1°+	1°+	1°+	1°+	1°+	1°+	1°+	1°+	1°+
H.	M.													
12	3	29.41	29.90	29.50	29.80	30.01	30.32	29.70	30.47	31.13	31.24	30.81	29.86	30.18
13	3	29.43	30.03	29.60	29.44	31.06	30.86	29.96	30.98	30.44	30.29	31.81	30.13	30.34
14	3	28.74	29.92	29.42	30.26	31.24	31.02	30.68	30.99	30.47	29.74	31.68	30.65	30.40
15	3	28.84	29.27	29.48	29.66	30.54	31.19	30.96	30.59	30.05	30.17	30.87	30.17	30.15
16	3	28.08	29.47	29.37	29.02	29.76	30.28	30.57	30.70	29.16	29.62	31.03	30.28	29.78
17	3	28.72	28.55	29.20	28.46	28.02	28.28	28.75	29.33	29.07	29.28	30.64	30.49	29.07
18	3	28.53	28.53	28.71	27.72	26.47	25.85	26.10	26.60	29.94	29.94	30.32	31.73	28.37
19	3	28.17	28.20	28.06	27.40	25.44	25.05	24.62	24.43	30.61	30.13	29.94	31.04	27.76
20	3	27.25	27.69	26.93	27.39	25.47	25.14	24.56	24.21	28.81	29.15	28.94	29.85	27.12
21	3	27.43	28.74	26.58	27.94	27.64	26.65	26.06	26.44	29.99	29.28	29.09	29.43	27.94
22	3	28.56	29.62	28.40	30.16	31.05	29.30	29.07	30.80	32.75	30.59	30.51	29.79	30.05
23	3	30.45	31.45	31.75	33.42	34.84	32.88	32.88	34.49	35.41	33.29	32.60	31.27	32.89
0	3	32.29	33.07	34.38	36.08	36.77	35.54	35.66	37.67	38.59	35.39	34.64	32.88	35.25
1	3	32.86	33.69	35.94	37.40	37.53	37.24	37.13	39.10	38.24	38.30	38.16	36.49	36.84
2	3	32.48	33.37	35.97	37.27	36.98	37.22	37.23	38.55	37.83	35.75	35.75	34.44	36.07
3	3	31.86	32.48	35.27	36.49	35.72	36.41	36.51	36.68	35.86	34.59	34.68	33.62	35.01
4	3	30.70	31.65	33.92	34.76	33.89	35.04	35.23	34.72	33.74	33.80	34.07	32.89	33.70
5	3	29.92	31.25	32.91	32.67	32.26	33.09	33.31	32.94	31.82	33.14	33.25	32.12	32.39
6	3	29.58	30.57	31.60	31.52	31.25	31.74	32.13	31.04	30.70	31.24	32.20	31.26	31.24
7	3	29.10	30.21	30.75	30.52	31.16	31.03	31.51	31.12	31.14	31.90	30.71	30.47	30.80
8	3	27.91	29.20	30.22	30.38	31.23	31.06	31.24	30.80	30.57	31.00	30.85	29.80	30.35
9	3	28.02	28.80	29.03	29.62	31.06	30.26	31.16	28.54	30.81	30.18	29.30	29.67	29.70
10	3	28.67	29.24	29.41	30.36	30.35	30.23	29.60	29.76	30.11	30.27	29.81	29.21	29.75
11	3	28.66	29.43	28.57	29.47	29.74	30.13	29.49	29.75	31.03	30.78	30.15	29.44	29.72
Means .		29.40	30.18	30.62	31.13	31.23	31.08	31.00	31.28	32.01	31.63	31.74	31.12	31.04
Corrections to be applied for Secular Change to reduce to the Mean Epoch, July 1st, 1846.														
		+0.90	+0.73	+0.57	+0.41	+0.24	+0.08	-0.08	-0.24	-0.41	-0.57	-0.73	-0.90	

The values in the vertical column on the extreme right of this Table show the mean declination at the different hours corresponding to the mean epoch of the Table, July 1, 1846; they are the values which would have been obtained in each case had the observations been limited to a single hour only. The values which are placed respectively on the same horizontal line with the mean declination at each of the hours show the mean declination at the same hour *in each month*. When corrections for the secular change have been applied to these, and the differences are taken between the *mean monthly values so corrected* and the *mean values in the twelve months* at the same hours (in the vertical column on the extreme right), we have in these differences the *Annual Variation at each of the observation hours*, as it would have been observed if the observations in each case had been limited to that particular hour, and if the declination at Toronto had had a constant value instead of being affected by secular change. They are shown in Table IV.



# Annual Variation of the Declination at each of the 24 Observation hours derived from three Years of observation.

Scale. One inch to one minute of Arc. The dotted horizontal line represents the mean Declination at each hour as obtained from Observations throughout the three years at that hour only.



MAGNETIC DECLINATION.

ix

TABLE IV.

*Annual Variation of the Declination at each of the Observation Hours.*

+ denotes the North end of the needle being to the East, and - to the West of its mean or normal position in the year at the specified hour.

Toronto Mean Time, Astronomical Reckoning.		1845 to 1847 inclusive.											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
12	3	-0.13	-0.45	+0.11	-0.03	-0.07	-0.22	+0.56	-0.05	-0.54	-0.49	+0.10	+1.22
13	3	+0.01	-0.42	+0.17	+0.49	-0.96	-0.60	+0.46	-0.40	+0.31	+0.62	-0.74	+1.11
14	3	+0.76	-0.25	+0.41	-0.27	-1.08	-0.70	-0.20	-0.35	+0.34	+1.23	-0.55	+0.65
15	3	+0.41	+0.15	+0.10	+0.08	-0.63	-1.12	-0.73	-0.20	-0.51	+0.55	+0.01	+0.88
16	3	+0.80	-0.42	-0.16	+0.35	-0.22	-0.58	-0.71	-0.68	+1.03	+0.73	-0.52	+0.40
17	3	-0.55	-0.21	-0.70	+0.20	+0.81	+0.71	+0.40	-0.02	+0.41	+0.36	-0.84	-0.52
18	3	-1.06	-0.89	-0.91	+0.24	+1.66	+2.44	+2.35	+2.01	-1.16	-1.00	-1.22	-2.46
19	3	-1.31	-1.17	-0.87	-0.05	+2.08	+2.63	+3.22	+3.57	-2.44	-1.80	-1.45	-2.38
20	3	-1.03	-1.30	-0.38	-0.68	+1.41	+1.90	+2.64	+3.15	-1.28	-1.46	-1.09	-1.83
21	3	-0.39	-1.53	+0.79	-0.41	+0.06	+1.21	+1.96	+1.74	-1.64	-0.77	-0.42	-0.59
22	3	+0.59	-0.30	+1.08	-0.52	-1.24	+0.67	+1.06	-0.51	-2.29	+0.03	+0.27	+1.16
23	3	+1.54	+0.71	+0.57	-0.94	-2.19	-0.07	+0.09	-1.36	-2.11	+0.17	+1.02	+2.52
0	3	+2.06	+1.45	+0.30	-1.24	-1.76	-0.37	-0.33	-2.18	-2.93	+0.43	+1.34	+3.27
1	3	+3.08	+2.42	+0.33	-0.97	-0.93	-0.48	-0.21	-2.02	-0.99	-0.89	-0.59	+1.25
2	3	+2.69	+1.97	-0.47	-1.61	-1.14	-1.23	-1.08	-2.24	-1.35	+0.89	+1.05	+2.53
3	3	+2.25	+1.80	-0.83	-1.89	-0.95	-1.48	-1.42	-1.43	-0.44	+0.99	+1.06	+2.29
4	3	+2.10	+1.32	-0.79	-1.47	-0.43	-1.42	-1.45	-0.78	+0.37	+0.47	+0.36	+1.71
5	3	+1.57	+0.41	-1.09	-0.69	-0.11	-0.78	-0.84	-0.31	+0.98	-0.18	-0.13	+1.17
6	3	+0.76	-0.06	-0.93	-0.69	-0.25	-0.58	-0.81	+0.44	+0.95	+0.57	-0.23	+0.88
7	3	+0.80	-0.14	-0.52	-0.13	-0.60	-0.31	-0.63	-0.08	+0.07	-0.53	+0.82	+1.23
8	3	+1.55	+0.43	-0.43	-0.43	-1.11	-0.78	-0.80	-0.20	+0.20	-0.07	+0.24	+1.46
9	3	+0.78	+0.17	+0.10	-0.33	-1.60	-0.64	-1.38	+1.40	-0.70	+0.09	+1.13	+0.93
10	3	+0.18	-0.22	-0.23	-1.02	-0.84	-0.56	+0.23	+0.23	+0.05	+0.05	+0.67	+1.44
11	3	+0.16	-0.44	+0.58	-0.16	-0.26	-0.49	+0.31	+0.21	-0.90	-0.49	+0.30	+1.18

Plate I. has been drawn in illustration of this Table. The dark vertical lines show the comparative magnitude of the Annual Variation at the different hours, the scale being an inch to one minute of declination: the small cross lines with the names of the months annexed mark the position which the several months occupy in the respective ranges. The Annual Variation at each hour is projected independently of the other hours, and with reference only to its own mean or normal point, viz., the mean declination in the year at that particular hour: the dotted horizontal line passes through and marks these normal points.

*Diurnal Variation.*—Table V. exhibits the Diurnal Variation in each month of the year derived from the monthly means of the hourly observations from July 1842 to June 1848 inclusive; in computing the mean Diurnal Variation in each month corresponding to the observations of all these years, the months of August, September, and December 1847, and February and May 1848, have been omitted on account of the excessive disturbances which prevailed in those months. Table VI. exhibits in one view the mean Diurnal Variation in each month of the year derived from the results in Table V.; and Table VII. exhibits the mean hourly position of the magnet in each month of the year relatively to its mean position in that month.



## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE V.

*Diurnal Variation of the Declination in the several Months, from July 1842 to June 1848, inclusive.*

The lowest Monthly Mean occurring at any observation hour is taken as the Zero for the

Local Astronomical Time.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	
JANUARY.	1843	2.05	0.66	0.00	0.36	1.41	2.16	3.10	3.22	3.60	4.55	4.78
	1844	0.85	0.00	0.08	0.80	1.33	2.38	2.91	3.69	3.76	4.09	4.94
	1845	0.00	0.47	0.78	1.34	2.39	3.54	4.10	4.20	4.78	5.69	3.77
	1846	1.21	0.00	0.51	1.10	2.38	3.31	3.44	4.14	5.48	4.76	4.94
	1847	0.99	0.00	0.32	1.04	2.20	2.48	2.80	3.44	5.07	4.58	4.28
	1848	2.15	0.92	0.00	0.60	0.97	1.83	3.06	4.17	5.94	5.56	5.68
Reduced Means	0.93	0.06	0.00	0.59	1.50	2.34	2.95	3.53	4.49	4.59	4.45	
FEBRUARY.	1843	0.89	0.00	0.08	0.76	1.38	2.61	2.85	3.95	4.25	3.74	4.44
	1844	0.14	0.00	0.72	1.54	2.76	2.61	3.93	3.59	4.37	4.55	5.63
	1845	0.74	0.00	0.56	1.76	2.86	3.04	3.98	4.52	5.46	5.61	4.57
	1846	0.90	0.00	0.01	0.78	1.61	1.73	1.82	2.44	4.05	4.43	3.78
	1847	0.21	0.00	0.40	1.12	1.66	2.57	3.59	3.51	4.00	4.65	5.02
	1848 <sup>a</sup>	4.39	2.42	0.72	0.00	1.88	2.07	2.61	3.26	4.47	11.19	7.35
Reduced Means	0.23	0.00	0.00	0.84	1.70	2.16	2.88	3.25	4.08	4.25	4.34	
MARCH.	1843	2.04	0.27	0.00	0.89	1.66	2.81	3.66	4.43	5.64	5.83	6.50
	1844	0.72	0.00	0.01	0.95	1.67	3.15	3.30	4.96	6.93	6.58	6.99
	1845	1.42	0.17	0.00	0.87	1.71	3.30	4.50	5.71	5.62	6.89	6.42
	1846	1.66	0.17	0.00	0.23	2.53	3.18	4.09	5.63	5.93	6.53	6.02
	1847	1.91	0.00	0.23	1.23	2.16	2.95	4.76	4.60	5.96	7.67	7.50
	1848	1.41	0.00	0.29	0.41	1.48	2.43	3.71	3.46	4.01	7.05	6.42
Reduced Means	1.44	0.01	0.00	0.67	1.78	2.88	3.91	4.71	5.59	6.67	6.55	
APRIL.	1843	1.12	0.00	0.07	1.12	2.36	3.21	4.94	5.74	7.27	6.79	7.36
	1844	0.82	0.04	0.00	1.02	2.24	3.52	4.21	4.75	5.84	6.54	7.27
	1845	1.85	0.00	0.04	0.82	2.50	5.15	6.38	6.63	7.09	7.07	7.87
	1846	1.38	0.00	0.19	0.41	2.41	3.01	4.97	6.81	6.12	7.57	8.03
	1847	0.72	0.00	0.16	1.50	3.01	6.06	6.33	7.20	7.87	8.73	5.27
	1848	1.61	0.07	0.00	0.75	3.07	3.80	4.27	5.96	7.63	7.18	7.08
Reduced Means	1.23	0.00	0.06	0.92	2.58	4.11	5.16	6.16	6.95	7.29	7.13	
MAY.	1843	0.75	0.01	0.00	0.92	2.43	4.27	5.51	5.21	5.56	6.09	6.57
	1844	1.44	0.21	0.00	0.80	2.37	4.10	4.89	6.00	5.04	6.29	7.81
	1845	0.17	0.00	0.79	2.40	4.41	6.18	6.70	6.76	6.65	6.29	6.41
	1846	1.02	0.00	0.51	1.61	3.34	4.66	5.89	6.44	6.38	7.61	9.12
	1847	1.11	0.00	0.34	1.41	3.17	5.01	6.27	5.94	5.89	5.56	6.04
	1848 <sup>a</sup>	2.64	0.00	0.09	1.94	3.73	6.39	7.28	7.29	8.26	8.95	8.59
Reduced Means	0.86	0.00	0.29	1.39	3.10	4.80	5.81	6.03	5.86	6.33	7.15	
JUNE.	1843	0.72	0.00	0.22	0.82	2.58	3.73	4.30	4.86	4.69	5.70	5.72
	1844	1.09	0.00	0.53	1.55	3.06	4.65	5.43	5.83	6.23	6.34	6.38
	1845	1.29	0.00	0.06	0.95	2.68	4.73	5.88	6.02	5.98	6.58	6.09
	1846	2.72	0.35	0.00	0.63	1.41	3.68	5.71	6.81	6.52	8.61	8.31
	1847	1.43	0.00	0.36	1.28	2.87	4.42	5.29	6.19	6.44	6.13	7.04
	1848	2.02	0.66	0.00	1.43	3.60	5.89	7.10	7.95	7.76	7.62	7.41
Reduced Means	1.37	0.00	0.02	0.94	2.53	4.35	5.45	6.11	6.10	6.66	6.66	

<sup>a</sup> Omitted in the Means, on account of the unusual magnitude of the disturbance.

DIURNAL VARIATION OF THE DECLINATION.

xi

TABLE V.

*Diurnal Variation of the Declination in the several Months, from July 1842 to June 1848, inclusive.*

Month, and corresponds to the extreme Westerly position of the North end of the Magnet.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	Monthly Means.
4.07	3.61	2.98	2.91	2.88	3.45	3.39	2.31	4.03	5.40	6.26	5.96	4.06	3.22
3.64	3.54	3.36	3.11	3.61	3.72	3.14	3.52	3.86	4.69	4.82	3.75	2.53	3.01
4.26	3.39	4.14	4.21	3.92	5.26	4.18	4.72	5.28	5.45	4.34	3.59	1.78	3.57
4.65	4.06	3.54	4.47	4.15	4.87	4.45	4.27	4.58	6.07	6.25	5.11	3.11	3.79
4.18	3.42	3.08	4.16	4.50	4.70	4.27	4.51	4.68	5.81	6.17	4.69	2.85	3.51
5.61	6.00	5.44	4.98	6.23	6.81	6.23	5.99	6.22	8.30	9.63	7.68	5.86	4.83
4.12	3.72	3.48	3.69	3.93	4.52	4.00	3.94	4.50	5.54	5.96	4.85	3.09	3.37
5.13	4.18	2.83	3.94	3.05	4.23	4.79	5.02	5.49	6.29	5.78	4.35	2.03	3.42
3.50	4.43	3.74	3.59	4.26	4.40	5.24	4.94	5.54	5.91	5.39	3.75	1.60	3.59
4.21	4.79	3.67	3.51	4.45	3.95	4.67	5.49	5.40	5.48	5.58	4.64	2.71	3.82
3.70	3.50	2.93	4.18	3.93	4.24	4.74	4.55	5.09	6.11	4.51	4.01	2.56	3.15
4.91	3.14	4.42	3.66	4.90	4.49	6.01	5.45	6.01	6.44	4.77	3.57	1.48	3.58
8.15	8.20	6.66	4.33	5.92	4.58	5.94	6.52	5.85	8.50	10.87	9.44	7.26	5.52
3.94	3.66	3.17	3.43	3.77	3.91	4.74	4.74	5.16	5.70	4.86	3.71	1.73	3.16
5.90	5.41	5.44	5.36	5.70	5.72	6.07	6.89	7.86	9.12	8.57	6.71	4.40	4.87
6.26	4.04	6.65	6.10	4.50	6.25	6.32	6.08	7.41	7.76	7.49	5.60	3.25	4.71
6.21	5.92	5.95	5.92	6.02	6.65	6.31	7.19	8.28	9.14	8.93	7.17	4.07	5.18
6.61	6.61	6.32	6.55	6.22	6.57	6.30	6.68	7.82	8.91	9.15	7.18	3.88	5.20
9.61	7.15	7.07	7.41	7.49	6.82	7.95	8.12	7.89	9.32	10.41	8.60	4.96	5.91
8.33	8.13	7.67	8.65	8.68	8.68	7.05	8.29	9.66	11.36	10.94	7.93	5.05	5.88
7.06	6.12	6.42	6.58	6.35	6.69	6.58	7.12	8.06	9.18	9.16	7.11	4.18	5.20
6.43	7.38	6.73	7.21	6.55	8.00	8.59	9.94	10.83	10.50	8.06	5.70	3.60	5.81
7.66	6.32	6.21	7.33	7.53	7.57	6.86	7.50	7.48	8.67	8.10	5.66	2.73	5.24
7.55	7.37	7.39	7.47	7.69	7.89	8.46	9.67	10.29	10.75	10.34	8.10	5.08	6.39
7.88	7.57	7.28	7.50	7.62	8.06	8.51	9.19	9.82	9.36	8.62	6.77	3.70	5.95
8.39	7.87	9.22	6.48	7.96	9.23	9.85	10.20	9.92	9.95	9.45	6.84	3.18	6.48
7.75	7.91	8.15	9.15	10.26	9.57	8.30	9.72	10.54	10.50	9.19	7.60	4.08	6.42
7.59	7.38	7.48	7.50	7.92	8.37	8.41	9.35	9.79	9.94	8.94	6.76	3.71	6.03
6.75	6.24	5.96	6.09	6.20	6.50	8.03	9.47	10.49	10.89	9.38	6.21	3.24	5.53
6.62	7.09	7.45	6.42	6.60	6.88	8.71	10.27	11.02	10.85	9.71	6.71	4.08	5.89
6.97	6.57	7.30	6.49	7.63	8.49	9.59	11.47	12.46	12.53	10.22	6.30	2.64	6.48
9.49	9.26	8.32	6.97	6.84	7.04	9.10	10.58	12.39	12.28	10.01	7.02	3.14	6.63
6.94	6.76	3.84	5.43	6.53	7.79	9.86	11.17	11.43	11.40	9.46	6.15	2.30	5.83
8.78	8.89	8.37	8.71	9.07	9.74	12.77	13.31	15.06	14.24	12.99	9.06	5.87	8.00
7.31	7.14	6.53	6.24	6.72	7.30	9.02	10.55	11.52	11.55	9.72	6.44	3.04	6.03
5.62	5.88	5.77	5.40	6.29	6.95	8.05	10.28	11.39	10.43	8.59	5.85	3.14	5.29
7.35	6.61	6.85	7.28	6.99	8.27	9.73	11.33	12.23	12.08	10.41	7.42	3.67	6.30
6.31	6.13	6.45	6.67	6.28	7.44	9.53	11.50	12.58	12.45	10.81	7.67	3.91	6.17
8.13	7.49	6.85	6.33	6.04	5.99	8.70	11.51	12.11	11.79	10.57	8.46	5.07	6.41
7.31	7.56	6.23	6.04	6.23	7.84	9.04	11.56	12.29	12.46	10.79	8.08	4.47	6.31
7.54	7.95	7.85	7.52	7.34	8.29	10.16	12.90	14.46	14.36	13.07	9.54	5.00	7.39
6.87	6.77	6.50	6.37	6.36	7.29	9.03	11.34	12.34	12.09	10.54	7.67	4.04	6.14

TABLE V.—*Diurnal Variation of the Declination in the several*

Local Astronomical Time.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	
JULY.	1842	1'65	0'63	0'00	1'10	2'22	4'00	5'19	5'99	8'37	6'89	7'82
	1843	1'66	0'00	0'51	1'23	2'36	4'44	5'71	5'89	5'69	7'05	7'29
	1844	1'74	0'30	0'00	1'04	2'66	4'04	5'22	5'75	5'68	5'58	6'72
	1845	2'38	0'30	0'00	1'02	2'51	4'29	6'06	7'07	6'53	7'03	8'03
	1846	1'95	0'68	0'04	0'00	0'84	2'67	3'88	5'26	6'43	6'65	7'25
	1847	1'05	0'00	0'66	1'84	3'37	5'53	6'10	5'54	5'76	5'25	8'36
	Reduced Means	1'54	0'12	0'00	0'84	2'13	3'96	5'16	5'72	6'21	6'21	7'38
AUGUST.	1842	0'40	0'00	1'27	3'07	5'19	6'18	7'03	6'63	7'96	7'47	7'43
	1843	0'84	0'00	0'60	2'59	4'54	6'09	6'84	6'84	7'05	6'94	6'76
	1844	1'13	0'00	0'84	2'71	4'24	5'97	7'55	7'50	8'34	7'73	8'18
	1845	0'91	0'00	0'98	2'87	5'01	6'76	8'10	8'39	7'61	9'59	9'17
	1846	1'93	0'30	0'00	1'55	3'11	4'87	7'42	7'15	8'75	11'88	10'11
	1847 <sup>a</sup>	1'75	0'00	0'96	3'14	5'35	7'15	8'98	8'70	8'87	10'53	9'70
	Reduced Means	0'98	0'00	0'68	2'50	4'36	5'91	7'33	7'24	7'88	8'66	8'27
SEPTEMBER.	1842	0'53	0'00	0'57	2'69	3'84	5'27	5'45	6'61	7'54	6'89	6'51
	1843	0'00	0'15	1'30	2'58	4'40	5'31	5'73	5'72	6'63	8'06	7'09
	1844	0'00	0'76	1'41	3'82	6'22	6'93	7'12	7'52	8'79	9'98	8'97
	1845	0'00	0'57	1'79	3'29	5'50	6'89	7'30	7'31	7'65	8'50	9'04
	1846	0'00	0'12	0'68	2'48	3'83	5'69	7'65	7'49	7'19	6'25	7'52
	1847 <sup>a</sup>	0'19	0'60	0'00	2'60	5'41	7'93	8'96	7'78	9'43	8'81	9'10
	Reduced Means	0'00	0'21	1'04	2'86	4'65	5'91	6'54	6'82	7'45	7'83	7'72
OCTOBER.	1842	0'43	0'00	0'17	0'76	2'12	2'88	3'81	5'02	5'22	5'67	6'36
	1843	0'51	0'00	0'17	0'95	1'80	2'77	3'32	3'89	4'53	5'15	4'57
	1844	0'17	0'00	0'71	2'17	3'26	4'13	4'11	4'71	5'02	5'96	5'47
	1845	0'00	0'05	0'59	1'54	1'92	2'56	3'24	3'55	4'14	4'86	4'56
	1846	0'85	0'00	0'05	1'57	2'81	2'94	5'27	5'24	6'27	8'07	7'85
	1847	0'87	0'19	0'00	1'03	1'79	3'00	5'70	3'44	4'53	4'49	4'73
	Reduced Means	0'43	0'00	0'24	1'30	2'24	3'01	4'20	4'27	4'91	5'66	5'55
NOVEMBER.	1842	0'33	0'00	0'50	2'06	2'80	3'26	4'92	5'19	5'75	5'74	5'83
	1843	0'60	0'00	0'66	1'47	2'35	2'82	3'87	4'47	4'62	5'23	4'27
	1844	0'30	0'00	0'53	1'66	2'58	3'54	4'24	4'98	5'51	6'13	5'67
	1845	0'40	0'00	0'56	1'70	2'71	3'42	4'13	5'04	5'00	5'68	5'53
	1846	1'92	0'24	0'00	0'86	1'47	3'06	3'11	5'89	5'11	5'93	5'37
	1847	1'56	0'33	0'00	1'21	1'44	1'62	4'00	4'77	5'19	8'35	7'53
	Reduced Means	0'76	0'00	0'29	1'40	2'13	2'86	3'96	4'97	5'11	6'09	5'61
DECEMBER.	1842	0'76	0'00	0'27	0'78	1'94	2'53	3'50	3'85	4'29	4'48	4'72
	1843	1'14	0'03	0'00	1'11	1'85	3'33	3'80	3'66	4'24	4'43	4'06
	1844	1'19	0'14	0'00	0'87	1'99	2'83	3'61	4'62	4'56	5'05	5'84
	1845	0'98	0'00	0'19	0'95	2'05	2'65	3'34	4'25	4'27	4'46	4'43
	1846	1'25	0'32	0'00	0'51	1'25	2'45	2'69	3'94	5'13	5'09	5'94
	1847 <sup>a</sup>	5'01	3'29	2'35	3'55	3'92	4'44	6'07	6'27	7'09	7'35	7'92
	Reduced Means	0'97	0'01	0'00	0'75	1'73	2'67	3'30	3'97	4'41	4'61	4'91

<sup>a</sup> Omitted in the Means, on account of the unusual magnitude of the disturbance.

DIURNAL VARIATION OF THE DECLINATION.

Months, from July 1842 to June 1848, inclusive—continued.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	Monthly Means.
7.64	8.64	6.27	5.81	6.36	6.14	9.34	9.54	11.09	12.28	10.71	7.90	5.05	6.28
7.30	7.81	7.33	7.20	7.28	8.01	8.23	10.66	11.66	11.28	9.86	6.95	4.13	6.23
7.03	7.56	7.55	6.53	6.34	7.61	8.72	10.20	11.96	12.14	10.47	7.14	3.95	6.07
8.04	7.93	8.22	7.86	7.20	7.78	9.42	11.41	13.05	13.51	12.51	9.40	5.37	6.96
7.76	7.65	7.24	5.86	5.10	5.83	8.45	9.99	11.72	11.77	10.17	8.11	4.41	5.82
8.15	7.79	7.08	6.67	7.22	7.08	8.28	12.72	13.81	13.49	10.57	7.67	3.96	6.58
7.45	7.70	7.08	6.46	6.38	6.88	8.54	10.55	12.02	12.21	10.51	7.66	4.28	6.12
8.62	7.78	6.68	6.91	7.22	8.33	9.52	11.53	13.18	12.40	9.90	5.55	1.80	6.75
6.84	6.42	6.78	7.16	7.15	7.75	8.92	11.20	12.85	12.50	10.41	6.58	3.73	6.56
7.90	8.70	8.31	7.50	7.03	8.13	9.22	12.29	13.28	13.14	10.70	6.78	3.00	7.09
9.68	8.18	8.13	7.56	9.09	7.93	9.68	12.47	14.20	14.84	11.95	7.69	3.55	7.68
9.20	8.33	6.11	7.14	6.92	6.14	7.08	10.13	12.49	12.81	11.26	7.46	4.51	6.94
9.48	9.72	10.42	9.94	9.86	11.45	12.87	15.23	17.67	17.34	15.11	10.08	6.07	9.18
8.39	7.82	7.14	7.19	7.42	7.60	8.82	11.46	13.14	13.08	10.78	6.75	3.26	6.94
6.80	7.04	7.19	6.45	8.43	8.18	7.73	9.92	11.22	10.19	8.38	5.54	2.15	6.06
6.38	7.29	7.66	7.00	7.07	7.27	7.11	9.20	10.89	10.40	8.31	5.13	2.52	5.97
7.67	9.14	7.58	8.23	8.51	8.10	8.04	10.87	11.69	10.63	8.85	4.98	1.88	6.99
7.75	7.78	7.05	7.06	8.03	9.37	9.60	10.11	10.73	9.62	7.82	4.71	1.94	6.64
7.04	6.33	7.28	8.78	8.03	9.37	9.23	8.01	9.81	8.82	8.01	4.73	1.64	6.08
8.00	9.49	10.31	8.74	9.77	9.75	9.93	8.05	3.63	11.08	10.15	8.29	6.15	7.26
7.02	7.41	7.24	7.39	7.90	8.35	8.23	9.51	10.76	9.82	8.16	4.91	1.92	6.24
6.11	4.22	4.03	3.48	4.15	4.90	4.68	5.45	7.04	8.36	7.64	5.28	2.45	4.18
4.40	3.74	4.27	4.28	4.35	4.63	4.42	4.10	5.84	6.34	6.62	4.80	2.25	3.65
5.54	5.35	5.19	4.82	4.36	5.40	5.61	5.40	5.66	6.84	6.60	4.57	2.10	4.30
4.30	4.68	5.02	5.34	5.65	6.09	5.72	4.84	5.09	5.99	4.92	3.54	1.51	3.72
7.56	6.70	6.19	5.21	5.20	6.08	6.27	5.91	5.50	6.20	6.49	5.33	2.89	4.81
3.73	2.84	5.86	8.17	6.55	6.88	8.08	7.36	6.97	8.28	8.64	7.30	3.64	4.75
5.23	4.55	5.05	5.18	5.00	5.62	5.76	5.47	5.98	6.96	6.78	5.10	2.43	4.20
5.73	5.31	4.17	3.86	4.56	5.02	5.91	5.03	5.34	6.02	5.85	3.93	1.95	4.13
4.63	3.46	3.27	3.29	3.39	4.07	4.30	4.69	5.08	5.60	5.38	3.77	1.56	3.45
4.71	3.89	3.54	3.34	4.39	3.41	4.35	3.75	5.53	5.87	5.71	4.36	1.59	3.73
4.81	4.52	4.20	3.77	4.50	3.62	5.56	4.82	6.25	6.84	6.00	4.15	1.48	3.95
5.15	5.20	3.76	3.47	4.81	5.25	4.38	5.44	5.66	6.02	6.72	5.50	3.65	4.08
7.44	5.68	4.46	5.57	5.93	5.87	5.97	6.65	6.13	8.13	7.81	6.66	4.90	4.88
5.32	4.59	3.81	3.79	4.51	4.45	4.99	4.97	5.57	6.32	6.16	4.64	2.43	3.95
3.79	3.38	2.94	2.24	3.10	3.53	5.48	3.82	4.00	4.83	5.37	4.67	2.61	3.20
3.66	3.38	2.94	2.48	2.86	3.15	3.50	4.11	4.08	4.03	4.25	4.07	2.68	3.04
4.98	4.23	3.62	2.86	3.14	3.80	3.62	4.03	4.42	4.45	5.17	4.50	2.57	3.42
4.79	4.56	3.73	3.10	3.86	3.60	3.31	3.08	3.47	3.72	4.27	3.32	2.47	3.12
4.73	4.19	3.63	3.94	4.09	4.41	3.65	4.26	4.72	5.22	6.26	5.45	3.29	3.60
8.06	7.56	8.15	6.91	7.43	7.05	0.00	3.35	4.58	7.38	7.04	7.74	6.32	5.78
4.30	3.86	3.28	2.83	3.32	3.61	3.82	3.77	4.05	4.36	4.97	4.31	2.63	3.19

TABLE VI.

*Exhibits in one view the Mean Diurnal Variation in each Month of the Year, derived from the results in Table V.*

Toronto Mean Astron. Time. }	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>
January . . .	0·93	0·06	0·00	0·59	1·50	2·34	2·95	3·53	4·49	4·59	4·45	4·12
February . . .	0·23	0·00	0·00	0·84	1·70	2·16	2·88	3·25	4·08	4·25	4·34	3·94
March . . .	1·44	0·01	0·00	0·67	1·78	2·88	3·91	4·71	5·59	6·67	6·55	7·06
April . . .	1·23	0·00	0·06	0·92	2·58	4·11	5·16	6·16	6·95	7·29	7·13	7·59
May . . .	0·86	0·00	0·29	1·39	3·10	4·80	5·81	6·03	5·86	6·33	7·15	7·31
June . . .	1·37	0·00	0·02	0·94	2·53	4·35	5·45	6·11	6·10	6·66	6·66	6·87
July . . .	1·54	0·12	0·00	0·84	2·13	3·96	5·16	5·72	6·21	6·21	7·38	7·45
August . . .	0·98	0·00	0·68	2·50	4·36	5·91	7·33	7·24	7·88	8·66	8·27	8·39
September . . .	0·00	0·21	1·04	2·86	4·65	5·91	6·54	6·82	7·45	7·83	7·72	7·02
October . . .	0·43	0·00	0·24	1·30	2·24	3·01	4·20	4·27	4·91	5·66	5·55	5·23
November . . .	0·76	0·00	0·29	1·40	2·13	2·86	3·96	4·97	5·11	6·09	5·61	5·32
December . . .	0·97	0·01	0·00	0·75	1·73	2·67	3·30	3·97	4·41	4·61	4·91	4·30

Toronto Mean Astron. Time. }	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
January . . .	3·72	3·48	3·69	3·93	4·52	4·00	3·94	4·50	5·54	5·96	4·85	3·09
February . . .	3·66	3·17	3·43	3·77	3·91	4·74	4·74	5·16	5·70	4·86	3·71	1·73
March . . .	6·12	6·42	6·58	6·35	6·69	6·58	7·12	8·06	9·18	9·16	7·11	4·18
April . . .	7·38	7·48	7·50	7·92	8·37	8·41	9·35	9·70	9·94	8·94	6·76	3·71
May . . .	7·14	6·53	6·24	6·72	7·30	9·02	10·55	11·52	11·55	9·72	6·44	3·04
June . . .	6·77	6·50	6·37	6·36	7·29	9·03	11·34	12·34	12·09	10·54	7·67	4·04
July . . .	7·70	7·08	6·46	6·38	6·88	8·54	10·55	12·02	12·21	10·51	7·66	4·28
August . . .	7·82	7·14	7·19	7·42	7·60	8·82	11·46	13·14	13·08	10·78	6·75	3·26
September . . .	7·41	7·24	7·39	7·90	8·35	8·23	9·51	10·76	9·82	8·16	4·91	1·92
October . . .	4·55	5·05	5·18	5·00	5·62	5·76	5·47	5·98	6·96	6·78	5·10	2·43
November . . .	4·59	3·81	3·79	4·51	4·45	4·99	4·97	5·57	6·32	6·16	4·64	2·43
December . . .	3·86	3·28	2·83	3·32	3·61	3·82	3·77	4·05	4·36	4·97	4·31	2·63

HOURLY POSITION OF THE MAGNET.

xv

TABLE VII.

*Exhibits the Mean Hourly Position of the Magnet in each Month of the Year, relatively to its general Mean Position in the Month; the sign + implies that the North end of the Magnet is to the East, and - to the west of the Mean Position in the Month.*

Toronto Mean } Astron. Time. }	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>
January . .	-2.44	-3.31	-3.37	-2.78	-1.87	-1.03	-0.42	+0.16	+1.12	+1.22	+1.08	+0.75
February . .	-2.93	-3.51	-3.16	-2.32	-1.46	-1.00	-0.28	+0.09	+0.92	+1.09	+1.18	+0.78
March . .	-3.76	-5.19	-5.20	-4.53	-3.42	-2.32	-1.29	-0.49	+0.39	+1.47	+1.35	+1.86
April . .	-4.80	-6.03	-5.97	-5.11	-3.45	-1.92	-0.87	+0.13	+0.92	+1.26	+1.10	+1.56
May . .	-5.17	-6.03	-5.74	-4.64	-2.93	-1.23	-0.22	0.00	-0.17	+0.30	+1.12	+1.28
June . .	-4.77	-6.14	-6.12	-5.20	-3.61	-1.79	-0.69	-0.03	-0.04	+0.52	+0.52	+0.73
July . .	-4.58	-6.00	-6.12	-5.28	-3.99	-2.16	-0.96	-0.40	+0.09	+0.09	+1.26	+1.33
August . .	-5.96	-6.94	-6.26	-4.44	-2.58	-1.03	+0.39	+0.30	+0.94	+1.72	+1.33	+1.45
September . .	-6.24	-6.03	-5.20	-3.38	-1.59	-0.33	+0.30	+0.58	+1.21	+1.59	+1.48	+0.78
October . .	-3.77	-4.20	-3.96	-2.90	-1.96	-1.19	0.00	+0.07	+0.71	+1.46	+1.35	+1.03
November . .	-3.19	-3.95	-3.66	-2.55	-1.82	-1.09	+0.01	+1.02	+1.16	+2.14	+1.66	+1.37
December . .	-2.22	-3.18	-3.19	-2.44	-1.46	-0.52	+0.11	+0.78	+1.22	+1.42	+1.72	+1.11

Toronto Mean } Astron. Time. }	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
January . .	+0.35	+0.11	+0.32	+0.56	+1.15	+0.63	+0.57	+1.13	+2.17	+2.59	+1.48	-0.28
February . .	+0.50	+0.01	+0.27	+0.61	+0.75	+1.58	+1.58	+2.00	+2.54	+1.70	+0.55	-1.43
March . .	+0.92	+1.22	+1.38	+1.15	+1.49	+1.38	+1.92	+2.86	+3.98	+3.96	+1.91	-1.02
April . .	+1.35	+1.45	+1.47	+1.89	+2.34	+2.38	+3.32	+3.76	+3.91	+2.91	+0.73	-2.32
May . .	+1.11	+0.50	+0.21	+0.69	+1.31	+2.99	+4.52	+5.49	+5.52	+3.69	+0.41	-2.99
June . .	+0.63	+0.36	+0.23	+0.22	+1.15	+2.89	+5.20	+6.20	+5.95	+4.40	+1.53	-2.10
July . .	+1.58	+0.96	+0.34	+0.26	+0.76	+2.42	+4.43	+5.90	+6.09	+4.39	+1.54	-1.84
August . .	+0.88	+0.20	+0.25	+0.48	+0.66	+1.88	+4.52	+6.20	+6.14	+3.84	-0.19	-3.68
September . .	+1.17	+1.00	+1.15	+1.66	+2.11	+1.99	+3.27	+4.52	+3.58	+1.92	-1.33	-4.32
October . .	+0.35	+0.85	+0.98	+0.80	+1.42	+1.56	+1.27	+1.78	+2.76	+2.58	+0.90	-1.77
November . .	+0.64	-0.14	-0.16	+0.56	+0.50	+1.04	+1.02	+1.62	+2.37	+2.21	+0.69	-1.51
December . .	+0.67	+0.09	-0.36	+0.13	+0.42	+0.63	+0.58	+0.86	+1.17	+1.78	+1.12	-0.56

*Corrections to Monthly Mean Values for the different Observation Hours.*—Table VII. furnishes corrections to be applied in each month to the Mean of the Observations taken at Toronto at any one of the observation hours in that month. By this table the Mean Declination, as it would have been obtained (according to the results of six years of hourly observation) by twenty-four observations at equal intervals in each day, may be assigned for the Mean of Observations taken at one only of the observation hours. The Declinations being West, the corrections must be applied with the same signs as those in the Table.

*Remarks on the Annual and Diurnal Variations.*—It is well known that in the middle latitudes, geographical and magnetical, of both hemispheres, the north end of the magnet, in its mean diurnal course, has its extreme east and west positions about the hours of 7 or 8 A.M. and of 1 or 2 P.M.; having in the northern hemisphere its eastern extreme at the earlier hour, and its western extreme at the later hour, and in the southern hemisphere conversely, its western extreme at the earlier or forenoon hour, and its eastern at the later or afternoon hour. The Abstracts in the first volumes of the Toronto and Hobarton Observations respectively, have shown that the mean diurnal variation at those stations is in conformity with this law; the precise epoch of both extremes is somewhat earlier at Toronto than at Hobarton; but passing by for the moment this small difference, we may state in general terms that the principal features of the mean diurnal variation at Toronto and Hobarton consist in the north end of the magnet being at about 7 or 8 A.M. at its greatest eastern extreme at Toronto and western at Hobarton, and at about 1 or 2 P.M. its greatest western extreme at Toronto and eastern at Hobarton; the north end of the magnet being thus at opposite extremes of its diurnal course at the same hours of local time in opposite hemispheres. Let us now direct our attention to the *Annual Variations* at these hours respectively, taking first the forenoon period, or 7 to 8 A.M.

We find at Toronto at this hour an annual variation, of which the principal feature is, that at the northern solstice the north end of the magnet is at the eastern extreme of a periodical movement, which, apart from, and independently of, all other movements whatsoever, has its opposite or western extreme at the period of the southern solstice, and returns into itself at the next return of the northern solstice. It is, therefore, strictly an *Annual Variation*, or a variation whose period is a year. Its amount at the hour of 7 to 8 A.M. is at Toronto about five minutes of Declination.

If now we turn our attention to Hobarton at the same hour of local time, we find an Annual variation existing there also, which in character and amount is almost precisely the same as that which has been described at Toronto. In the mean *Diurnal Variation* at these stations, as already mentioned, 7 or 8 A.M. is the local hour for the extreme *easterly* elongation at Toronto, and *westerly* at Hobarton; but such inversion does not take place in the *Annual Variation*. On the contrary, at Hobarton as well as at

Toronto, the period of the northern solstice is that of the eastern extreme in the annual variation which the north end of the magnet undergoes, whilst the southern solstice is in like manner at both stations the period of the western extreme of the annual variation.

If from Toronto and Hobarton we pass to the consideration of the phenomena at St. Helena, a station differing widely, both geographically and magnetically, from either of the others, and, as situated within the tropics, partaking but very slightly in those climatic peculiarities of *season* by which extra-tropical stations are affected, we find at the same hour of 7 to 8 A.M. an annual variation almost precisely similar in character and amount to the phenomena described at Toronto and Hobarton. The northern solstice is here also the epoch of greatest eastern elongation, and the southern solstice that of greatest western elongation in the annual variation which the direction of the north end of the magnet undergoes. The amount of the periodical movement is also about five minutes of declination.

The Cape of Good Hope presents likewise at the same hour phenomena of annual variation which are almost precisely similar to those described at the three preceding stations. A plate has been engraved in the Philosophical Transactions for 1851, Art. XXVIII., in which this accordant annual variation at the four stations can be examined in greater detail than it is here described.

So far, then, as these four stations, so widely separated from each other, and so diversely situated, justify a generalisation, we may arrive at the conclusion that at the local hour of 7 to 8 A.M. the magnetic declination is *everywhere* subject to a variation of which the period is a year, and which is everywhere similar in character and amount, consisting of a movement of the north end of the magnet from east to west between the northern and the southern solstice, and a return from west to east between the southern and northern solstice, the amplitude of the variation being about 5 minutes of arc.

Such is the first and leading view of the phenomena of the annual variation at the hour of 7 to 8 A.M.; they are, as we have seen, sensibly the same in character and numerical amount at all the stations which form the basis of the generalisation.

When we follow the annual variation (still at the same hour) into further details—into those, for example, which mark the *periods of the year* which are the turning periods of the variation—we find a no less remarkable accordance. The turning periods are not, as many might be disposed to anticipate, those months in which the temperature at the surface of our planet, or of the subsoil, or of the atmosphere (as far as we possess the means of judging of the temperature of the atmosphere) attains its maximum and minimum. Stations so diversely situated would indeed present in these respects thermic conditions of great variety; whereas uniformity in the epoch of the turning periods is a not less conspicuous feature in the annual variation than is



similarity in character and numerical value. At all the stations the *solstices* are the turning periods of the annual variation at the hour of which we are treating. At each of the four stations we find the two months which precede and the two months which follow the northern solstice congregated together near one extremity of the annual range, whilst the two months which precede and the two which follow the southern solstice, are in like manner congregated near the other extremity of the range, the intermediate months ranging intermediately; whilst from the observations at St. Helena and the Cape of Good Hope, where, by reason of the diminished occurrence and amount of the so-called irregular disturbances, we are able from observations of a definite duration to obtain a more precise insight into the march of the phenomena, we find that we can trace the epoch of the passage through the mean position (or the position which is a mean between the extremes of the annual variation) almost to the very day of the equinox.

If then we permit ourselves to imagine the annual variation at 7 or 8 A.M. to be represented, as it is represented in Plate I., by a dark vertical line of about five inches in length, corresponding to the same number of minutes of declination, and if we further imagine this line, having the several months marked upon it in their respective places, to be incapable of inversion, but capable of being moved upwards and downwards in a vertical direction, so that at one station it may be altogether *above* a horizontal line indicating the mean declination, or mean position of the north end of the magnet in all the months and at all the hours, whilst at a second station at the same hour it may be altogether *below* a mean declination line, and at a third and fourth station it may be intersected in its length by the mean declination line, we at once figure to ourselves the combined phenomena of the annual and diurnal variations at Toronto, Hobarton, St. Helena, and the Cape at the hour of 7 to 8 A.M., local time, at each of the stations. At Toronto, in the northern hemisphere, the vertical line of annual variation is in its whole length *above*, or to the *east*\* of the horizontal line which marks the mean declination; so that in every month of the year the declination at the hour of 7 to 8 A.M. is to the east of the mean declination at all the hours and in all the months. At Hobarton, in the southern hemisphere, the vertical line of the annual variation is, on the other hand, in its whole length *below*, or to the *west* of the horizontal line which marks the mean declination; so that in every month of the year the declination at the hour of 7 to 8 A.M. is to the west of the mean declination. At St. Helena and the Cape, which in one sense at least may be classed together as magnetically equatorial stations, the position of the vertical line of annual variation, in reference to that of the line of mean declination, is nearly midway between the extreme positions which it occupies at Toronto and Hobarton. It is

---

\* In the plates in these volumes illustrating the periodical variations of the declination, the upper part of the plate always represents the East, and the lower the West.

crossed and nearly bisected by the line of mean declination, so that at St. Helena and the Cape, during the months when the sun is north of the equator, the direction of the north end of the magnet is to the *east*, and during the months when he is to the south of the equator, to the *west* of the line of mean declination.

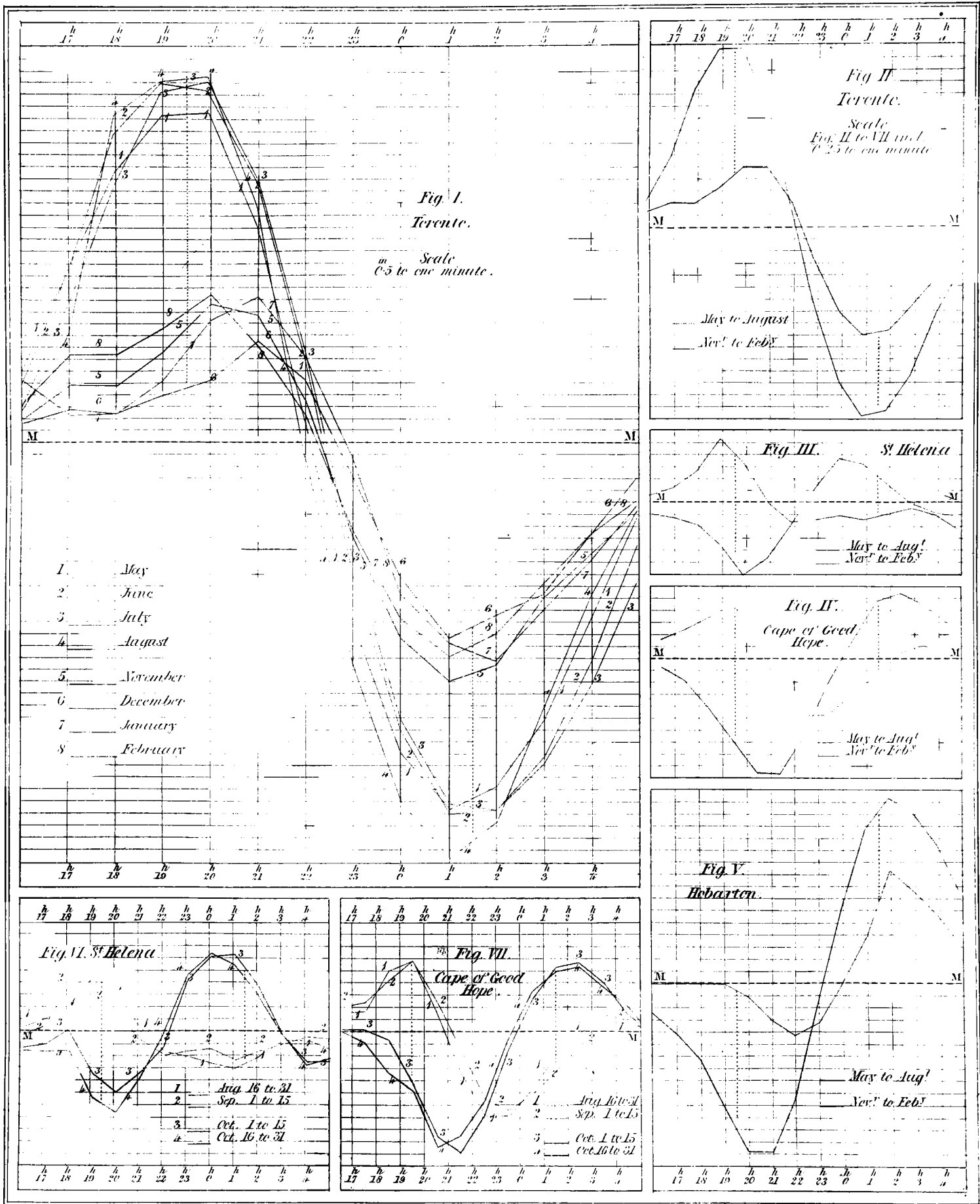
It is the existence of an annual variation everywhere of some minutes in amount, which chiefly prevents the realization in nature of the *à priori* supposition, that the horary variation, or the horary departure of the direction of the magnet from its mean direction in the 24 hours, would vanish in the equatorial regions, or in passing from the northern to the southern magnetic hemisphere. It is indeed possible (not at all hours, but still keeping to the hour of 7 to 8 A.M., as compared with the mean declination at all the hours and in all the months), so to group the phenomena as to afford *on the mean of the whole year* an apparent realization of the above supposition; but it would be merely apparent and illusive, having no true conformity with the reasonings on which such a supposition was propounded by the eminent persons by whom it was not unnaturally entertained previous to the evidence which a complete system of observation, such as we now possess, was alone adequate to afford. Such an illusory disappearance at St. Helena of the horary variation would be obtained by combining the opposite variations at 7 or 8 A.M. of the two six-monthly periods into a mean, in which the opposite signs by which they are characterized in the different months would nearly counterbalance each other in their sum. But the only periods of the year in which the diurnal or horary variation at that hour does actually disappear are at the equinoxes, when the sun is passing from the one hemisphere to the other, and when the magnetic direction, in the course of its annual variation from east to west, or *vice versâ*, coincides with the direction which is the mean declination of all the months and of all the hours.

If we now direct our attention to the hour of 1 to 2 P.M., the hour at which the north end of the magnet is at the *western* extreme of its *diurnal* range at Toronto, and at the *eastern* extreme at Hobarton, we find that at this hour also there is in the *annual* variation no inversion in the opposite hemispheres. The months adjacent to the one solstice are near one and the same extreme of the annual range at Toronto and Hobarton; and the months adjacent to the other solstice are near the opposite extreme alike at both these stations. The order of the months in the annual range is indeed different at 1 to 2 P.M. from what it was at 7 to 8 A.M., the deflection being at 1 to 2 P.M. to the west at the northern solstice, and to the east at the southern solstice. But the point under present consideration is the comparison of the two stations at one and the same hour; and in this respect we find the phenomena shown by the annual and diurnal variations at 1 to 2 P.M. analogous to that which has been described at 7 to 8 A.M. in presenting an opposite deflection at Toronto and Hobarton in the diurnal variation, and a similar deflection in the annual variation. The annual variation is obviously connected with, and dependent on, the earth's position in its orbit relatively

to the sun around which it revolves, as the diurnal variation is connected with and dependent on the rotation of the earth on its axis, by which each meridian successively passes through every angle of inclination to the sun in the round of 24 hours.

The seven figures in Plate II. have been drawn to illustrate the principal points of this discussion. In fig. 1 the combined annual and diurnal variations at Toronto are represented during the hours of the day, being the hours when the phenomena of both are most marked. The red lines show the actual march of the declination in the months of May, June, July and August, relatively to the mean declination in all the months and all the hours represented by the horizontal line MM, and are projected from the data in Table VII.; the blue lines show in like manner the march of the declination in the months of November, December, January and February, at the respective hours relatively to the same line, and taken from the same table. It is here seen that the months of May, June, July and August,—being the two months immediately preceding and the two months immediately following the northern solstice,—are almost identical with each other, and can scarcely be distinguished apart; whilst on the other hand, November, December, January, and February—the two months immediately preceding and the two months immediately following the southern solstice—differ greatly from the former, but closely resemble each other. The slightly darkened portions of the verticals at each hour show the annual variation at the several hours. The positions which the months intermediate between the two solstitial groups hold in the annual range are omitted in this plate, to avoid the multiplicity of lines, but they may be referred to in the corresponding projections in Plate I. As a consequence of the *diurnal* variation, the annual variations in the hours of the forenoon are found at Toronto, when exhibited in their true declination values, *above*, or to the *east* of the line MM, and in the hours of the afternoon, *below*, or to the *west* of the same line. The scale in this figure is half an inch to one minute of declination. In fig. 2 the phenomena at Toronto are again represented, but in smaller dimension, for the purpose of being seen in comparison with the corresponding phenomena at St. Helena, the Cape, and Hobarton, severally exhibited in figs. 3, 4, and 5. In figs. 2, 3, 4, and 5 the two solstitial groups in each figure are represented by a single line, their components being, in fact, scarcely separable on so small a scale. The group of the northern solstice is in each figure characterised by the red colour, and the southern solstitial group by blue. It is seen that at the hour of 7 to 8 A.M. (19<sup>h</sup> to 20<sup>h</sup>) the red lines are uppermost at all the stations, and the annual variation at that hour shown by the dotted verticals is everywhere nearly of the same amount. At 1 to 2 P.M. the blue line is in like manner uppermost at all the stations, and the dotted verticals vary but little in magnitude. At 7 to 8 A.M. (19<sup>h</sup> to 20<sup>h</sup>) the dotted vertical showing the annual variation is, at Toronto, in its whole length above, or to the east of the line of mean declination MM; at St. Helena and the Cape it is crossed and nearly bisected by that line, and at Hobarton it is in its whole length below, or to the west of MM. At

*Illustrations of the Annual and Diurnal Variations of the Declination.*





Toronto 7 to 8 A.M. is the hour at which the north end of the magnet, in its diurnal range, is in all the months of the year at the extreme east of its diurnal range, whilst at Hobarton, at the same hour (or nearly so, rather later at Hobarton), it is at the extreme west of its diurnal range; but at both stations the northern solstitial group is at the eastern, and the southern solstitial group at the western extreme of the annual range. At 1 to 2 P.M. the analogy of the phenomena of the annual and diurnal variation is maintained, but all is in the converse order.

Figures 6 and 7 are introduced for the purpose of showing the precise epoch when the diurnal variation undergoes that portion of its semi-annual change which is due to the annual variation. They represent respectively the phenomena at St. Helena and at the Cape of Good Hope. The two projections which are coloured red in each figure exhibit the diurnal variations in the two fortnights which precede the September equinox, and the two projections coloured blue the two fortnights which follow the equinox. The projections preceding the equinox correspond with each other in the character of their diurnal variation, as do the fortnights following the equinox; but the two fortnights which precede are altogether distinct in character from the two which follow the equinox; a distinction which is due to the change in the annual variation which is there seen to take place precisely at the equinox itself. The last fortnight in August and the first fortnight in September are scarcely distinguishable from the northern solstitial group (May to August, inclusive) in figs. 3 and 4; and the two fortnights in October are in like manner scarcely distinguishable from the southern solstitial group (November to February, inclusive) in the same figures. The epoch of change is coincident with the sun's passage of the Equator.

*Variation of the Diurnal Range.*—Table VIII. shows the inequality, or variation in the amount, of the mean diurnal range of the declination in different years, and in different seasons of those years. The general tables, in which the observations of the declination are recorded, exhibit the mean diurnal variation for every month; the extreme east and west positions of the magnet occurring at any two hours in the monthly means indicate the average magnitude, or the range, of the diurnal variation in that month. Table VIII. shows the means of the average magnitudes or ranges in the four months constituting the respective seasons, and in the twelve months constituting the year, from 1841 to 1851, inclusive. It will be remembered that up to the end of June, 1842, the observations were made only at the even hours of Göttingen time, which were also even hours of Toronto time; and that from July 1842 to June 1848, inclusive, they were made hourly. From July 1848 to December 1851 the number of observation hours was much reduced, and was occasionally varied; but they were always arranged with a view to include, as far as could conveniently be done, the hours of maximum and minimum declination depending upon the diurnal variation.

## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE VIII.

*Mean Magnitude of the Diurnal Range of the Declination from 1841 to 1851 inclusive.*

YEARS.	Winter.	Spring and Autumn.	Summer.	Mean of the whole Year.	YEARS.
	November, December, January, February.	March, April, September, October.	May, June, July, August.		
1841	6·67	9·46	12·38	9·50	1841
1842	5·67	8·87	11·48	8·67	1842
1843	5·64	9·36	11·70	8·90	1843
1844	5·70	8·74	12·17	8·87	1844
1845	5·73	9·15	13·36	9·41	1845
1846	6·33	9·21	12·27	9·27	1846
1847	7·28	10·08	13·84	10·40	1847
1848	9·48	11·04	15·82	12·11	1848
1849	8·25	12·25	14·80	11·77	1849
1850	8·01	10·90	13·74	10·88	1850
1851	7·01	10·82	12·61	10·15	1851

*Analysis of the larger Disturbances of the Declination.*—For the purpose of investigating the laws which regulate the occurrence of the class of magnetic disturbances of the declination which are called in the Royal Society's Instructions the "Irregular Variations," all the observations taken in the seven and a-half years from January 1841 to July 1848 inclusive (two-hourly to June 30th, 1842, and hourly from July 1st, 1842, to June 30th, 1848), which differed to an amount of five scale divisions, or 3'·6 of declination, from the mean or normal position of the magnet in the same month and at the same hour, were separated from the remainder of the observations, and have been submitted to an examination of which the results are contained in the following pages. The number of observations thus separated amounted in the seven and a-half years to 5,322; the number of observations from which they were taken was, in the same period, 50,097; the disturbed observations consequently averaged 1 in 9·4 of the whole number. The ratio in different years varied considerably, as will be seen by the following Table:—

TABLE IX.

YEARS.	Number of Observations.	Number of Disturbed Observations.	Ratio of the Disturbed Observations to the whole number.	YEARS.	Number of Observations.	Number of Disturbed Observations.	Ratio of the Disturbed Observations to the whole number.
1841	3,606	570	1 : 6·3	1845	7,455	567	1 : 13·1
1842	5,635	606	1 : 9·3	1846	7,464	1,031	1 : 7·2
1843	7,463	472	1 : 15·8	1847	7,272	941	1 : 7·7
1844	7,482	596	1 : 12·6	1848	3,720	538	1 : 6·9

The column of ratios shows that 1843, 1844, and 1845, were years in which the proportion of observations affected by a certain amount of disturbance was much

smaller than the preceding years 1841 and 1842, or than the following years 1846, 1847, and 1848.

Table X. shows the aggregate values of the disturbed observations in the different years in scale divisions, one scale division =  $0'.721$  of declination. The values in this Table respectively divided by the numbers in Table IX. show the *average value* of a disturbed observation in each of the years. It is seen by this Table that the average values were, generally speaking, highest in the years when the number of observations affected by a certain definite amount of disturbance was greatest; 1844 is the most marked exception.

TABLE X.  
*Aggregate Values and Average Values of the Disturbed Observations in the different Years.*

YEARS.	Aggregate Value of the Disturbed Observations.	Average Value of a Disturbed Observations.	YEARS.	Aggregate Value of the Disturbed Observations.	Average Value of a Disturbed Observations.
	Sc. Div.	Sc. Div.		Sc. Div.	Sc. Div.
1841	5013.5	8.8	1845	4584.6	8.1
1842	4951.5	8.2	1846	9231.4	8.9
1843	3671.8	7.8	1847	10296.3	10.9
1844	5345.9	9.0	1848	5261.4	9.8

Table XI. exhibits the disturbed observations in different years, divided into their easterly and westerly components, both of numbers and aggregate values; as well as the average value of an easterly and of a westerly disturbance in each year.

TABLE XI.

YEARS.	EASTERLY.		WESTERLY.		AVERAGE VALUES.		YEARS.
	Numbers.	Values.	Numbers.	Values.	Easterly.	Westerly.	
		Sc. Div.		Sc. Div.	Sc. Div.	Sc. Div.	
1841	282	2586.4	288	2427.1	9.2	8.4	1841
1842	327	2700.8	279	2250.7	8.3	8.1	1842
1843	268	2100.6	204	1571.2	7.8	7.7	1843
1844	327	2999.1	269	2346.8	9.2	8.7	1844
1845	298	2442.8	269	2141.8	8.2	8.0	1845
1846	547	5068.7	484	4162.7	9.3	8.6	1846
1847	532	5020.4	409	5275.9	9.4	12.9	1847
1848	288	3030.3	250	2231.1	10.5	8.9	1848
Sums .	2,871	25949.1	2,452	22407.3	71.9	71.3	Sums.

The average values of an easterly and a westerly disturbed observation appear, on the mean of the eight years, to be nearly equal. The average value of an easterly disturbance was somewhat higher than that of a westerly disturbance in all the years except 1847, when the average value of a westerly exceeded, by a considerable amount, that of an easterly disturbed observation.



The numbers and aggregate values of the easterly disturbances preponderate in the mean of all the years, as well as in each separate year, except 1841, when there was a slight excess in the number of westerly disturbances, and 1847, when there was a slight excess in the aggregate values of the westerly disturbances. The ratio of easterly to westerly numbers and values in the  $7\frac{1}{2}$  years is, of numbers 1.17 to 1, and of values 1.16 to 1.

The numbers and aggregate values in Tables IX. and X. are not strictly inter-comparable in the several years, because in 1841, and in the first six months of 1842, the observations were two-hourly, whilst in all the other years they were hourly, and in 1848 because the observations, although hourly, include only the first six months of that year. To render the whole inter-comparable at once by the eye, the numbers and aggregate values in 1841 and 1848 require to be doubled, and those of 1842 to be augmented in the proportion of 4 to 3: this is done in Table XII.

TABLE XII.

YEARS.	Numbers.	Values.	YEARS.	Numbers.	Values.
		Sc. Div.			Sc. Div.
1841	1,140	10027.0	1845	567	4584.6
1842	808	6602.0	1846	1,031	9231.4
1843	472	3671.8	1847	941	10296.3
1844	596	5345.9	1848	1,076	10522.8

1843 is the year of minimum and 1848 of maximum disturbance, both in numbers and values; and between those years there is an approximate progression. If we take the means of the numbers and of the values in the years 1843 to 1848, inclusive, as the respective units, we obtain the ratios of the numbers and aggregate values in the several years as follows:—

TABLE XIII.

	Numbers.	Values.		Numbers.	Values.
Units . . .	780.5	Sc. Div. 7275.5	Units . . .	780.5	Sc. Div. 7275.5
Ratios {	1841 1.46	1.38	Ratios {	1845 0.73	0.63
	1842 1.04	0.91		1846 1.32	1.27
	1843 0.61	0.50		1847 1.21	1.42
	1844 0.76	0.73		1848 1.38	1.45

Tables XIV. and XV. show the numbers and aggregate values of the disturbed observations, distributed into the several *months* of their occurrence.

DISTURBANCES OF THE DECLINATION.

xxv

TABLE XIV.  
*Number of the Disturbed Observations in different Months.*

MONTHS.	1841	1842	1843	1844	1845	1846	1847	1848	Sums.
January . .	24	27	13	19	56	35	24	79	277
February . .	43	58	25	26	40	25	54	99	370
March . .	35	31	29	63	32	53	75	112	430
April . .	35	33	55	70	58	64	120	94	529
May . .	51	21	50	42	36	96	65	106	467
June . .	50	37	34	25	28	116	52	48	390
July . .	86	119	82	46	45	129	67	—	574
August . .	72	60	48	80	72	166	81	—	579
September . .	58	82	64	78	79	156	137	—	654
October . .	46	64	39	56	47	117	84	—	453
November . .	35	56	17	54	32	53	90	—	337
December . .	35	18	17	37	42	21	92	—	262
Sums . .	570	606	473	596	567	1,031	941	538	5,322

TABLE XV.  
*Aggregate Values of the Disturbed Observations in different Months.*

MONTHS.	1841	1842	1843	1844	1845	1846	1847	1848	Sums.
January . .	Sc. Div. 194·2	Sc. Div. 219·5	Sc. Div. 117·3	Sc. Div. 146·2	Sc. Div. 472·1	Sc. Div. 313·2	Sc. Div. 188·1	Sc. Div. 687·6	Sc. Div. 2338·2
February . .	384·8	443·7	252·1	238·3	293·4	226·4	453·8	1191·4	3483·9
March . .	308·6	211·8	216·7	656·6	241·1	494·2	790·3	1000·6	3919·9
April . .	286·2	317·5	460·6	681·6	406·5	593·0	1298·4	1131·9	5175·7
May . .	387·6	142·7	364·3	355·3	244·2	772·0	717·9	939·9	3923·9
June . .	372·6	307·5	251·8	168·3	199·7	940·5	396·3	310·0	2946·7
July . .	683·2	1099·7	670·2	353·8	349·6	1102·3	610·6	—	4869·4
August . .	699·2	504·0	334·9	616·2	626·9	1544·1	660·7	—	4986·0
September . .	626·7	623·9	458·7	784·7	675·0	1480·9	1758·4	—	6408·3
October . .	417·8	458·1	297·3	547·2	436·7	1070·7	1220·0	—	4447·8
November . .	325·7	500·4	122·5	489·4	277·6	507·2	832·8	—	3055·6
December . .	326·9	122·7	125·4	308·3	361·8	186·9	1369·0	—	2801·0
Sums . .	5013·5	4951·5	3671·8	5345·9	4584·6	9231·4	10296·3	5261·4	48356·4

As the numbers and values in 1841, and in the first six months of 1842, in Tables XIV. and XV., are derived from two-hourly observations, the *mean* monthly numbers and values in the months from January to June, inclusive, are obtained by dividing the monthly sums by 7, and those from July to December, inclusive, by dividing the monthly sums by 6·5. The respective quotients are shown in Table XVI.

TABLE XVI.  
*Mean Monthly Numbers and Values of the Disturbed Observations.*

MONTHS.	Numbers.	Values.	MONTHS.	Numbers.	Values.
January . .	39·6	Sc. Div. 334·0	July . .	88·3	Sc. Div. 749·1
February . .	52·9	497·7	August . .	89·1	767·1
March . .	61·4	560·0	September . .	100·6	985·9
April . .	75·6	739·4	October . .	69·7	684·3
May . .	66·7	560·6	November . .	51·8	470·1
June . .	55·7	421·0	December . .	40·3	430·9

If the mean of the twelve monthly numbers (66) and of the twelve monthly values (600·0 sc. div<sup>ns</sup>.) are taken as units, the ratios in the several months are obtained as follows:—

TABLE XVII.

MONTHS.			Numbers.	Values.	MONTHS.			Numbers.	Values.
January . . .			0·60	0·56	July . . .		1·34	1·25	
February . . .			0·80	0·83	August . . .		1·35	1·28	
March . . .			0·93	0·93	September . . .		1·53	1·64	
April . . .			1·15	1·23	October . . .		1·05	1·14	
May . . .			1·00	0·93	November . . .		0·78	0·78	
June . . .			0·84	0·70	December . . .		0·61	0·72	

April and September are the months of maxima, December or January, and June those of minima, both in numbers and values. The September maximum is higher than the April maximum; and the December or January minimum is lower than the June minimum. The maxima occur about the time of the equinoxes; the minima about the solstices.

Table XVIII. exhibits the mean monthly numbers and aggregate values in the different months, separated into their easterly and westerly components.

TABLE XVIII.

MONTHS.	EASTERLY.		WESTERLY.		MONTHS.	EASTERLY.		WESTERLY.	
	Numbers.	Values.	Numbers.	Values.		Numbers.	Values.	Numbers.	Values.
January . . .	19·6	Sc. Div. 175·8	20·0	Sc. Div. 158·2	July . . .	50·0	Sc. Div. 435·1	38·3	Sc. Div. 314·0
February . . .	26·7	261·5	26·2	236·2	August . . .	48·6	441·7	40·5	325·4
March . . .	32·8	313·4	28·6	246·6	September . . .	58·2	522·8	42·4	463·1
April . . .	40·9	394·2	34·7	345·2	October . . .	36·0	359·7	33·7	324·6
May . . .	36·0	301·9	30·7	258·7	November . . .	25·8	226·5	26·0	243·6
June . . .	33·9	268·3	21·8	152·7	December . . .	18·3	159·4	22·0	271·5

If the means of the twelve monthly numbers (35·6 and 30·4) and of the twelve monthly values (321·7 and 278·3 sc. div<sup>ns</sup>.) are taken as units, the ratios in the several months are obtained as follows:—

TABLE XIX.

MONTHS.	EASTERLY.		WESTERLY.		MONTHS.	EASTERLY.		WESTERLY.	
	Numbers.	Values.	Numbers.	Values.		Numbers.	Values.	Numbers.	Values.
January . . .	0·55	0·55	0·66	0·57	July . . .	1·40	1·35	1·26	1·13
February . . .	0·75	0·81	0·86	0·85	August . . .	1·37	1·37	1·33	1·17
March . . .	0·92	0·97	0·94	0·89	September . . .	1·63	1·63	1·39	1·66
April . . .	1·15	1·23	1·14	1·24	October . . .	1·01	1·12	1·11	1·17
May . . .	1·01	0·94	1·01	0·93	November . . .	0·73	0·70	0·85	0·88
June . . .	0·95	0·83	0·72	0·55	December . . .	0·51	0·50	0·72	0·98

It is seen by Table XIX. that both the easterly and the westerly disturbances follow the same general law as that derived from their conjoint consideration in the remarks on Table XVII. ; the equinoxes are the epochs of maximum and the solstices of minimum, both of numbers and values.

Table XX. shows the ratios of the easterly to the westerly numbers and values of the disturbed observations, the westerly numbers and values in each month being taken as the units.

TABLE XX.  
*Ratios of Easterly to Westerly Disturbances in the several Months.*

MONTHS.	Numbers.	Values.	MONTHS.	Numbers.	Values.
January . . .	0·98	1·11	July . . .	1·31	1·39
February . . .	1·02	1·11	August . . .	1·20	1·36
March . . .	1·15	1·27	September . . .	1·37	1·13
April . . .	1·18	1·14	October . . .	1·07	1·11
May . . .	1·17	1·17	November . . .	0·99	0·93
June . . .	1·56	1·76	December . . .	0·83	0·59

The preponderance of easterly over westerly disturbances is greatest in June and least in December ; generally speaking, there is a progressive increase in the numbers and values of easterly disturbances, compared with westerly, from December to June, and a progressive decrease from June to December. The mean ratios in the months of November, December, and January are in numbers 0·94, and in values 0·84 ; in the months of May, June, and July, in numbers 1·32, and in values 1·39.

The average value of a disturbed observation in each of the months is as follows :—

TABLE XXI.

MONTHS.	Average Values.	MONTHS.	Average Values.
	Sc. Div.		Sc. Div.
January . . .	8·4	July . . .	8·5
February . . .	9·4	August . . .	8·6
March . . .	9·1	September . . .	9·8
April . . .	9·8	October . . .	9·8
May . . .	8·4	November . . .	9·1
June . . .	7·6	December . . .	10·7

The average value of a disturbed observation is less in June than in the other months, and generally less in May, June, and July, than at other periods of the year.

The average values of the easterly and westerly constituents, viewed separately, show each a similar influence of the period of the year to that which is presented by them when viewed conjointly. The range of the average values of the easterly is considerably greater, and appears more irregular, than that of the westerly disturbed observations.

The numbers and values of the easterly and westerly constituents of the disturbed observations distributed into the *hours* of their respective occurrence are as follows:—

TABLE XXII.  
*Number of Easterly and of Westerly Disturbed Observations at the several Hours.*

Toronto Astron. Time.	EASTERLY.								WESTERLY.							
	1842	1843	1844	1845	1846	1847	1848	Means.	1842	1843	1844	1845	1846	1847	1848	Means.
18	11	12	14	10	20	14	12	16	10	12	18	15	24	11	13	17
19	9	14	8	11	19	18	10	15	9	5	17	14	23	21	15	17
20	8	4	5	10	20	22	13	14	9	6	16	17	26	28	16	20
21	10	8	8	8	16	22	15	14	7	13	14	16	28	25	15	20
22	5	7	7	10	17	27	9	14	7	13	16	18	23	28	13	20
23	5	9	11	11	18	18	11	14	7	11	14	14	25	22	15	17
0	6	9	5	5	15	14	9	10	11	15	10	17	14	23	9	15
1	5	9	6	6	13	10	10	10	5	12	12	11	10	16	11	13
2	3	1	5	4	8	12	10	7	8	8	11	8	5	15	14	11
3	3	3	4	1	6	15	8	7	5	10	13	12	17	14	14	14
4	3	4	5	3	16	12	7	8	2	12	8	12	18	18	10	15
5	6	3	7	5	15	13	5	9	6	5	10	5	20	21	9	13
6	7	10	10	7	18	23	4	13	5	6	7	6	20	16	6	11
7	8	12	19	13	32	18	12	19	7	8	3	7	18	11	6	10
8	18	23	23	19	33	27	10	25	7	5	5	6	16	14	4	9
9	16	28	31	27	37	33	20	32	1	1	4	4	20	10	7	8
10	16	22	35	28	37	29	12	30	5	3	4	1	19	7	4	7
11	14	13	29	15	36	37	20	27	3	5	9	1	22	7	6	9
12	14	17	25	24	35	29	19	27	10	3	10	10	16	14	3	11
13	11	17	19	18	32	34	17	25	9	11	8	9	23	18	9	14
14	10	14	14	15	29	27	12	20	14	10	10	15	21	22	15	18
15	6	8	11	19	26	26	16	19	11	7	18	17	26	17	9	17
16	11	10	12	12	27	26	15	19	13	10	16	17	26	20	15	19
17	10	11	14	17	22	26	12	19	13	14	16	17	24	11	12	18
Means	9	11	14	12	23	22	12	17	8	9	11	11	20	17	10	14

Tables XXII. and XXIII. comprise the disturbed observations occurring in the hourly series from July 1, 1842, to June 30, 1848; consequently in each of the years 1842 and 1848 the observations of six months only are included.

DISTURBANCES OF THE DECLINATION.

TABLE XXIII.

*Aggregate Values of the Easterly and Westerly Disturbed Observations at the several Hours, in Scale Divisions.*

Toronto Astron. Time.	EASTERLY.								WESTERLY.							
	1842	1843	1844	1845	1846	1847	1848	Means.	1842	1843	1844	1845	1846	1847	1848	Means.
18	68.4	86.5	98.3	67.1	158.9	112.9	84.1	112.7	74.1	116.6	189.3	119.9	255.5	336.3	116.7	201.4
19	64.9	85.4	55.6	65.4	135.1	121.6	73.3	100.2	90.9	48.9	186.1	110.6	285.8	755.5	151.3	271.5
20	52.9	24.8	23.5	69.3	121.4	163.2	100.8	94.3	86.3	52.1	146.5	168.7	321.3	464.4	173.0	235.4
21	59.8	56.5	47.1	44.1	102.4	148.9	124.0	97.1	65.4	106.8	112.2	144.8	319.4	384.5	183.2	219.4
22	33.5	47.0	45.1	57.6	105.2	199.8	67.3	92.6	60.1	87.9	128.0	159.1	196.0	281.6	128.9	173.6
23	32.2	55.2	81.0	69.6	111.2	173.4	81.2	100.6	66.0	66.8	107.2	121.3	185.9	184.7	104.6	139.4
0	35.9	52.8	34.3	33.6	95.4	101.6	67.5	70.2	73.8	96.9	74.9	134.6	99.0	180.7	80.7	123.4
1	39.3	49.1	39.9	34.0	81.8	107.4	61.4	68.8	32.7	86.9	82.5	73.3	68.0	106.0	88.5	89.7
2	30.3	6.7	30.6	24.8	54.4	82.0	90.1	53.2	51.9	59.6	102.5	54.5	52.2	116.7	105.8	90.5
3	24.6	15.5	25.3	5.4	44.1	124.4	63.9	50.5	31.7	69.9	94.6	74.1	115.7	104.8	111.3	100.4
4	38.2	24.5	34.9	19.1	111.2	98.3	74.7	66.8	11.1	103.1	63.7	88.6	132.2	139.7	71.7	101.7
5	42.0	24.6	65.6	34.1	115.9	115.9	55.3	75.6	39.7	55.2	78.5	33.7	158.3	153.6	72.5	98.6
6	56.0	98.4	79.0	51.9	211.7	319.1	29.8	141.0	26.1	60.8	52.4	41.6	146.1	145.3	42.9	85.9
7	72.9	86.6	155.3	114.8	388.2	171.2	101.0	181.7	44.4	72.2	20.5	50.7	125.8	90.6	54.4	76.4
8	185.0	214.7	289.0	152.9	341.3	306.6	129.8	269.9	45.6	41.2	35.6	43.2	106.1	109.0	27.9	68.1
9	117.1	240.8	326.9	303.6	493.9	355.8	388.4	371.1	8.5	5.6	24.7	36.0	136.1	94.4	48.3	58.9
10	154.5	206.1	402.4	254.3	410.2	333.5	118.8	313.3	35.4	19.9	26.1	33.2	140.1	141.3	34.4	71.7
11	159.9	134.5	232.3	140.4	327.3	388.1	215.9	266.4	24.9	38.2	92.3	6.9	126.6	69.0	44.0	67.0
12	155.0	118.5	223.4	185.9	342.8	259.0	214.3	249.8	68.7	22.2	122.3	68.1	137.7	203.8	29.5	108.7
13	82.9	130.1	193.5	171.5	336.6	327.7	191.1	238.9	88.7	77.9	71.5	74.5	228.1	239.3	127.8	151.3
14	84.0	108.4	142.0	136.1	269.3	295.3	165.2	200.1	127.3	64.8	81.9	119.1	172.4	213.6	129.9	151.5
15	59.6	67.7	128.0	154.7	236.5	226.8	222.7	182.7	90.4	45.4	142.4	123.3	209.9	168.7	75.7	142.6
16	80.1	84.5	132.1	123.3	295.5	254.7	190.1	193.4	116.4	52.4	147.9	129.3	223.7	212.7	126.7	168.2
17	103.4	81.7	104.0	129.3	178.4	233.2	119.6	158.3	116.3	119.9	163.2	132.7	220.8	379.7	101.4	205.7
Means	76.3	87.5	125.0	101.8	211.2	209.2	126.3	156.2	61.5	65.5	97.8	89.2	173.5	219.8	93.0	133.4

TABLE XXIV.

*Ratios of the Easterly and Westerly Numbers and Values at the different Hours to the Mean Hourly Numbers and Values taken as the respective Units.*

Toronto Astronomical Time.	EASTERLY.		WESTERLY.		Toronto Astronomical Time.
	Numbers.	Values.	Numbers.	Values.	
h.					h.
18	0·93	0·72	1·24	1·51	18
19	0·88	0·64	1·24	2·03	19
20	0·81	0·60	1·46	1·76	20
21	0·81	0·62	1·46	1·64	21
22	0·81	0·59	1·46	1·30	22
23	0·81	0·64	1·24	1·04	23
0	0·58	0·44	1·09	0·93	0
1	0·58	0·44	0·95	0·67	1
2	0·41	0·34	0·80	0·68	2
3	0·41	0·32	1·02	0·75	3
4	0·47	0·43	1·09	0·76	4
5	0·52	0·48	0·95	0·74	5
6	0·76	0·90	0·80	0·64	6
7	1·10	1·16	0·73	0·57	7
8	1·45	1·73	0·66	0·51	8
9	1·86	2·38	0·58	0·44	9
10	1·74	2·00	0·51	0·54	10
11	1·57	1·71	0·66	0·50	11
12	1·57	1·60	0·80	0·81	12
13	1·45	1·53	1·02	1·13	13
14	1·16	1·28	1·31	1·14	14
15	1·10	1·17	1·24	1·07	15
16	1·10	1·24	1·39	1·26	16
17	1·10	1·01	1·31	1·54	17

When we examine the ratios presented in this table we at once perceive that the occurrence of easterly and westerly disturbances, and their distribution in the several hours, are regulated by different laws. The easterly are below the average both in number and value during the hours of the day, or from 6 A.M. to 6 P.M., and above the average during the hours of the night, or from 6 P.M. to 6 A.M.; whilst the westerly are below the average both in number and value from about noon to midnight, and above the average from midnight to noon. The easterly have a minimum both in number and value about 3 P.M., and a maximum about 9 P.M.; the westerly a minimum about 9 P.M. (at which hour the easterly have their maximum), and a minimum about 7 or 8 A.M. The hours from noon to 6 P.M. are those in which both easterly and westerly disturbances are below their respective averages, both in numbers and values: these are therefore the hours of least disturbance. From 6 A.M. to noon the deficiency, occasioned by the easterly being below their average in number and value, is in great part compensated by the higher ratios of the westerly disturbances at those hours. From 6 P.M. to midnight the westerly disturbances are below their average, but this deficiency of the westerly is much more than counterbalanced by the excess

of the easterly disturbances at these hours, which are consequently the hours of greatest disturbance.

The occasional differences between the ratios of the numbers and values at the same hours may doubtless be attributed in part to accidental irregularities, but they must also in great part be ascribed to systematic variations in the mean value of a disturbed observation at different hours. The following table shows the average values of the easterly and of the westerly disturbed observations at each hour obtained by dividing the aggregate values by the numbers.

TABLE XXV.

*Showing the Average Value of an Easterly and of a Westerly Disturbed Observation at the several Hours, and the Ratios at each Hour to the Mean Value in the 24 Hours.*

Toronto Astronomical Time.	AVERAGE VALUES.		RATIOS TO THE MEAN.		Toronto Astronomical Time.
	Easterly Disturbances.	Westerly Disturbances.	Easterly Disturbances.	Westerly Disturbances.	
h.	Sc. Div.	Sc. Div.			h.
18	7.04	11.85	0.82	1.30	18
19	6.68	15.97	0.78	1.76	19
20	6.74	11.77	0.78	1.29	20
21	6.94	10.97	0.81	1.21	21
22	6.61	8.68	0.77	0.95	22
23	7.19	8.20	0.83	0.90	23
0	7.02	8.23	0.81	0.90	0
1	6.88	6.90	0.79	0.76	1
2	7.60	8.23	0.88	0.90	2
3	7.21	7.17	0.84	0.79	3
4	8.35	6.78	0.97	0.75	4
5	8.40	7.58	0.97	0.83	5
6	10.85	7.81	1.25	0.86	6
7	9.56	7.64	1.11	0.84	7
8	10.80	7.57	1.25	0.83	8
9	11.59	7.36	1.35	0.81	9
10	10.44	10.24	1.21	1.13	10
11	9.87	7.44	1.15	0.82	11
12	9.25	9.88	1.06	1.09	12
13	9.56	10.81	1.11	1.19	13
14	10.00	8.42	1.16	0.92	14
15	9.62	8.39	1.12	0.92	15
16	10.18	8.85	1.18	0.97	16
17	8.33	11.43	0.97	1.26	17
Mean Values in the 24 hours	8.61	9.09	8.61 = 1.00	9.09 = 1.00	Mean Values in the 24 hours

The average value of an easterly disturbed observation is systematically less during the hours of the day than during those of the night. It is less at every hour from 6 A.M. to 4 P.M., inclusive, than at any hour from 5 P.M. to 5 A.M.; it varies little in the day, but in the night hours has a tendency towards a maximum at 9 P.M. The average value of a westerly disturbed observation is less than its mean value in the 24 hours from 10 A.M. to 9 P.M., inclusive, and from 2 A.M. to 4 A.M., inclusive, it varies little at the hours from 11 A.M. to 11 P.M. (with the exception already noticed at



10 P.M.); it is about the same amount at those hours as the mean value of an easterly disturbed observation from 6 A.M. to 4 P.M. The value becomes very high from 6 to 9 A.M., inclusive, especially at 7 A.M.

In the case of the easterly disturbed observations there is a coincidence between the ratios of the aggregate values and the average values, both of which are low during the day and high during the night, the maximum of each occurring markedly at the same hour, 9 P.M. But in the case of the westerly disturbed observations, there does not appear to be any systematic connexion between the ratio of the aggregate values at the different hours and the average values at the same hours. The ratio of the numbers of the westerly disturbances is higher from 6 A.M. to 9 A.M., inclusive, when the mean values are also highest; but the ratio of the numbers is lowest at 10 P.M., when the mean value is high, and the ratio of the numbers is under unity at midnight and 1 A.M., when the mean values are systematically high.

The ratios of the numbers and values of the easterly to the westerly disturbed observations at the different hours are shown in the following table, in which the westerly numbers and values at the several hours are taken as the respective units.

TABLE XXVI.

Toronto Astronomical Time.			Toronto Astronomical Time.		
h.	Numbers.	Values.	h.	Numbers.	Values.
18	0·94	0·56	6	1·18	1·64
19	0·88	0·37	7	1·90	2·38
20	0·70	0·40	8	2·78	3·96
21	0·70	0·44	9	4·00	6·30
22	0·70	0·53	10	4·28	4·37
23	0·82	0·72	11	3·00	3·98
0	0·67	0·57	12	2·45	2·30
1	0·77	0·77	13	1·79	1·58
2	0·64	0·58	14	1·11	1·32
3	0·50	0·50	15	1·12	1·28
4	0·53	0·66	16	1·00	1·15
5	0·69	0·77	17	1·06	0·77

We perceive by this table how greatly and systematically the ratios vary according to the hour; they have their maximum from 9 to 10 P.M., and their minimum in numbers in the early hours of the afternoon, and in values at the early hours of the forenoon, the difference between the numbers and values in this respect being caused by the very high mean value of a westerly disturbance at the early hours of the forenoon. Easterly disturbances preponderate greatly both in numbers and values from 7 P.M. to midnight. At 9 P.M. the ratio of the easterly to westerly values is about *ten times* as great as on the average of the hours of the day. By this preponderance the character of the mean diurnal variation of the declination, whose laws of maximum, minimum, and progression are ordinarily very different from those of the dis-

turbances which we are now examining, must be more or less influenced at all stations where disturbances have a sensible value; and in extreme cases, viz., where the mean diurnal variation occasioned by the disturbances becomes great in numerical value in proportion to the diurnal variation produced by the different class of phenomena on which it is superimposed, it must, to a greater or less degree, give the character to the combined result. For the purpose of exhibiting the character of this law the following table has been formed, showing the excess of easterly or westerly disturbance at the different hours caused by the 3940 disturbances of largest amount occurring in the five years commencing July 1st, 1843, and ending June 30th, 1848; the excess in each case being divided by 1552 (the number of days of observation in the five years), the quotients show the mean diurnal variation caused by the larger disturbances, or the systematic effect produced by them on the direction of the magnet at the different hours.

TABLE XXVII.

*Mean Diurnal Variation occasioned by the 3940 Disturbances of largest Amount occurring between July 1, 1843, and June 30, 1848.*

Toronto Astronomical Time.	Excess of Easterly or Westerly Values at the different hours.	Mean Diurnal Variation occasioned by the Disturbed Observations.	Toronto Astronomical Time.	Excess of Easterly or Westerly Values at the different hours.	Mean Diurnal Variation occasioned by the Disturbed Observations.
h.	Sc. Div.	Sc. Div. Declination Values.	h.	Sc. Div.	Sc. Div. Declination Values.
18	523·3 W.	0·34 = 0·24 W.	6	312·3 E.	0·21 = 0·15 E.
19	1041·2 W.	0·67 = 0·48 W.	7	593·3 E.	0·38 = 0·27 E.
20	820·2 W.	0·53 = 0·38 W.	8	972·0 E.	0·62 = 0·44 E.
21	717·1 W.	0·46 = 0·33 W.	9	1685·3 E.	1·09 = 0·78 E.
22	451·6 W.	0·29 = 0·21 W.	10	1217·3 E.	0·78 = 0·56 E.
23	202·6 W.	0·13 = 0·09 W.	11	994·6 E.	0·64 = 0·46 E.
0	265·7 W.	0·17 = 0·12 W.	12	714·7 E.	0·46 = 0·33 E.
1	114·6 W.	0·07 = 0·05 W.	13	524·3 E.	0·34 = 0·24 E.
2	174·7 W.	0·11 = 0·08 W.	14	295·0 E.	0·19 = 0·14 E.
3	257·5 W.	0·17 = 0·12 W.	15	272·2 E.	0·17 = 0·12 E.
4	185·7 W.	0·12 = 0·09 W.	16	170·0 E.	0·10 = 0·07 E.
5	112·8 W.	0·07 = 0·05 W.	17	264·8 W.	0·17 = 0·12 W.

The mean diurnal variation of the declination at Toronto, caused by the disturbances from the mean or normal position of the magnet exceeding 3'·6 in amount, has a principal westerly maximum a little after 7 A.M., and a principal easterly maximum a little after 9 P.M., the range of the diurnal affection amounting to (0'·48 W. + 0'·78 E.) = 1'·26. From the easterly maximum soon after 9 P.M., the easterly variation progressively and steadily diminishes, passing through the point of no "disturbance variation" between 4 and 5 A.M., and reaching the westerly maximum a little after 7 A.M. The direction of the movement is then changed towards the east, and the western variation diminishes (with a slight and possibly accidental irregularity about 11 A.M. or noon) to 1 P.M., when the direction is again changed towards the west, whereby a second or subordinate westerly maximum is occasioned about 3 P.M. From

f

this hour to the easterly maximum, a little after 9 P.M., the movement of the magnet towards the east due to the disturbances is continuous and increases from hour to hour, being considerably greater from 7 to 9 P.M., inclusive, than at any other part of the 24 hours. When it is considered that the influence of the larger disturbances on the direction of the declination magnet thus presented and described is a *mean daily effect* derived from *five years* of observation, and when its strikingly regular and systematic character is viewed, it appears to have strong claims to be received as the indication of a true natural law in respect to direction and turning hours. The numerical values would doubtless be considerably greater if the minor disturbances of the same class occurring in the same period of time could have been separated from the general body of the observations and had been taken into the account.

TABLE XXVIII.

*Classification of the 3940 largest Disturbances in 5 Years (July 1, 1843, to June 30, 1848,) according to their Magnitudes.*

	NUMBERS.			VALUES.			RATIOS (Westerly to Easterly).		Average Value of the Disturb- ances.
	Easterly.	Westerly.	Total.	Easterly.	Westerly.	Total.	Numbers.	Values.	
				Sc. Div.	Sc. Div.	Sc. Div.			
Between 300 and 200 sc. div., or 3° 36'·3 and 2° 14'·2 . . .	..	2	2	..	568·1	568·1	0·17 to 1	0·17 to 1	124·1
Between 200 and 100 sc. div., or 2° 14'·2 and 1° 12'·1 . . .	1	4	5	175·5	461·5	637·0			
Between 100 and 50 sc. div., or 1° 12'·1 and 36'·0 . . .	5	6	11	333·3	409·9	743·2	0·83 to 1	0·81 to 1	48·7
Between 50 and 20 sc. div., or 36'·0 and 14'·4 . . .	94	67	161	2544·5	1896·9	4441·4	1·40 to 1	1·34 to 1	19·9
Between 20 and 10 sc. div., or 14'·4 and 7'·2 . . .	452	337	789	5918·5	4434·5	10353·0	1·34 to 1	1·31 to 1	9·5
Between 10 and 7 sc. div., or 7'·2 and 5'·0 . . .	619	504	1123	5078·5	4154·9	9233·4	1·23 to 1	1·22 to 1	5·9
Between 7 and 5 sc. div., or 5'·0 and 3'·6 . . .	971	878	1849	5623·6	5128·9	10752·5	1·11 to 1	1·10 to 1	4·2
Total . . .	2142	1798	3940	19673·9	17054·7	36728·6	—	—	—

In the disturbances of largest magnitude—*i. e.*, in those which exceed 36' in amount—westerly deflections preponderate; in the disturbances of smaller amount easterly deflections preponderate. At Hobarton also, in the same period, the excess of westerly over easterly deflections (though existing throughout, and being in that respect different from Toronto,) was greatest in the disturbances of largest amount; in those of lesser amount, westerly deflections at Hobarton, and easterly at Toronto, preponderate in nearly equal ratios.

A comparison of Table XXVIII. with Table XXVI., pp. xxvii. to xxxvi. of the 2nd volume of the Hobarton Observations, containing a similar classification of the disturbances which occurred in the same five years at Hobarton, furnishes the means of examining the relative proportion in which disturbances of equal magnitude take place at the

two stations. If, for example, we compare the numbers and aggregate values of the disturbances which are of magnitudes between 20 and 10 scale divisions ( $14' \cdot 2$  and  $7' \cdot 1$  at Hobarton, and  $14' \cdot 4$  and  $7' \cdot 2$  at Toronto), we find the numbers to have been at Toronto 789, and the aggregate values  $10353 \cdot 0$  scale divisions, whilst at Hobarton the numbers were 238, and the aggregate values  $3115 \cdot 9$  scale divisions; the ratios both of numbers and of values being  $3 \cdot 3$  to 1. A second comparison is furnished by the disturbances comprised between 10 and 7 scale divisions ( $7' \cdot 2$  and  $5' \cdot 0$  at Toronto,  $7' \cdot 1$  and  $5' \cdot 0$  at Hobarton), when we find the numbers at Toronto to be 1123, and the values  $9233 \cdot 4$  sc. div<sup>ns.</sup>, whilst at Hobarton the numbers are 401, and the values  $3255 \cdot 0$  sc. div<sup>ns.</sup>, the ratios of numbers and values being  $2 \cdot 8$  to 1. A third comparison is furnished by the disturbances comprised between 7 and 5 scale divisions ( $5' \cdot 0$  and  $3' \cdot 6$  at both stations), when we find the numbers at Toronto to have been 1849, and the values  $10752 \cdot 5$  sc. div<sup>ns.</sup>, and at Hobarton the numbers 838, and values  $4825 \cdot 0$  sc. div<sup>ns.</sup>, the ratios of numbers and values being  $2 \cdot 2$  to 1. Further, if we compare the numbers and aggregate values of all the disturbances above 5 scale divisions (or  $3' \cdot 6$ ) which occurred in the five years at each of the stations, we find the numbers at Toronto 3940, and the aggregate values  $36728 \cdot 6$  scale divisions, whilst at Hobarton the numbers are 1517, and the aggregate values  $12262 \cdot 3$  scale divisions; the ratios being, of numbers,  $2 \cdot 6$  at Toronto to 1 at Hobarton, and of values,  $3 \cdot 0$  at Toronto to 1 at Hobarton. The greatest disturbance of the Declination recorded at Hobarton in the course of the hourly observations between July 1, 1843, and June 30, 1848, amounted to  $35' \cdot 8$ ; it occurred on the 27th of September, 1847, at 0<sup>h</sup> of Göttingen time (9<sup>h</sup> of Hobarton time): the greatest disturbance recorded in the same period by the hourly series at Toronto amounted to  $215' \cdot 8$ ; it occurred on the 24th of September, 1847, at 1<sup>h</sup> of Göttingen time (7<sup>h</sup> of Toronto time). Both were westerly deflections; and it may be stated generally that the disturbances of greatest amount were usually westerly deflections of the north end of the magnet, both at Toronto and Hobarton. The average value of each of the 3940 disturbances at Toronto, and of the 1517 disturbances at Hobarton, exceeding  $3' \cdot 6$  in amount, was  $6' \cdot 7$  at Toronto, and  $5' \cdot 7$  at Hobarton. It may be convenient to notice here that the approximate value of the horizontal force at Toronto is  $3 \cdot 5$ , and at Hobarton  $4 \cdot 5$ , both expressed in absolute measure.

Table XXIX. contains a detailed statement of the 5322 disturbed observations between January 1841, and July 1848; showing\* the days and hours of their occurrence in Göttingen time, the amount of disturbance, and the direction towards which the north end of the magnet was deflected: the sign + implies that the deflection was towards the east, and - towards the west. Toronto time is 5<sup>h</sup> 57<sup>m</sup> later than Göttingen time.



DISTURBANCES OF THE DECLINATION.

xxxvii

TABLE XXIX.—continued.

Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.
<b>1841</b>		<b>1841</b>		<b>1841</b>		<b>1841</b>		<b>1841</b>		<b>1841</b>		<b>1842</b>	
<b>JULY.</b>		<b>AUG.</b>		<b>SEPT.</b>		<b>OCT.</b>		<b>NOV.</b>		<b>DEC.</b>		<b>FEB.</b>	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
28 20	+ 6.8	12 6	+ 5.0	2 12	+ 5.4	3 20	+ 6.4	6 0	-17.6	20 0	- 5.3	2 0	- 8.3
28 22	+ 6.8	12 8	+ 6.2	2 14	+10.5	5 22	+16.3	6 2	- 9.2	22 8	- 5.1	2 2	+ 7.2
29 0	+ 7.4	12 16	- 8.1	3 0	+ 5.6	6 10	- 6.0	6 4	+ 5.1	22 20	-18.6	2 10	+ 5.0
29 4	+ 5.0	13 14	- 5.7	3 12	+ 5.5	7 12	+10.6	6 14	+ 5.4	23 12	- 5.6	2 22	+ 5.3
29 12	+ 6.8	13 16	- 8.2	3 16	+ 5.6	8 6		6 16	+ 9.3	23 14	+ 6.8	3 14	+ 5.0
29 14	+ 8.0	14 12	+ 5.0	4 2	+ 6.9	8 10	- 6.7	8 0	- 9.2	24 12	+ 7.9	3 16	+ 5.8
29 20	+ 5.0	14 16	+10.2	4 4	+ 6.7	8 12	+ 6.1	9 4	+ 5.1	28 6	+ 6.5	6 20	+ 6.9
29 22	+ 6.8	16 16	+19.2	7 4	+ 5.5	8 20	- 5.0	9 10	- 5.5	30 2	-15.5	6 22	+ 6.0
30 0	+ 7.0	17 22	- 8.2	10 6	+ 5.3	9 10	+ 8.9	11 0	+ 5.4	30 4	- 6.1	7 0	- 7.5
30 2	+ 6.2	18 14	- 5.7	12 18	+11.5	13 20	- 8.0	13 16	+ 6.1	30 6	-15.2	7 4	-12.7
30 6	+10.0	20 16	- 6.0	12 20	+ 5.7	14 16	+11.7	17 4	+ 6.6	30 8	- 9.3	7 10	+10.3
30 8	+ 8.0	21 8	- 7.0	12 22	+ 7.9	14 20	+ 5.7	18 8	- 6.4	30 10	- 5.0	8 12	+ 5.1
30 12	+ 8.0	21 10	-10.2	13 8	+ 5.8	16 12	+10.6	18 14	-16.4	31 22	- 7.1	10 4	+ 5.7
30 14	+ 5.1	21 14	- 6.5	13 18	+11.1	17 20	- 5.1	18 16	- 7.9			11 10	- 8.7
30 20	+ 5.8	21 16	- 7.8	13 20	+ 7.2	18 2	+ 6.0	18 18	+11.1			11 16	+ 5.0
30 22	+ 7.5	22 22	+ 7.8	13 22	- 6.5	18 18	+ 6.1	18 20	+19.2			11 18	+ 8.2
31 0	+ 7.5	23 10	- 8.4	16 16	+19.5	19 14	+ 5.7	18 22	+ 5.3	<b>1842</b>		11 22	- 5.2
31 2	+ 8.4	23 14	+18.9	17 22	- 6.4	20 16	+ 9.0	19 0	-12.0	<b>JAN.</b>		12 0	+ 5.3
31 10	+ 7.6	23 16	- 5.0	18 14	+12.6	20 18	+10.3	19 14	+16.2	1 0	-18.6	12 2	+ 8.8
31 12	+ 7.8	23 20	-14.6	19 20	- 5.4	20 20	+11.4	19 18	- 9.4	1 2	- 7.9	12 4	+ 5.5
32 18	+16.5	24 0	- 5.3	20 20	- 5.4	20 22	-11.6	20 0	-10.5	1 4	-10.3	12 6	+ 6.2
		24 4	- 5.6	22 4	- 6.7	21 2	-14.6	20 2	-10.5	1 6	- 8.1	12 8	+ 5.1
<b>AUG.</b>		24 14	- 6.8	22 10	+ 5.9	21 4	- 8.2	20 4	- 9.9	1 10	- 7.0	14 4	+ 5.6
2 0	+ 6.5	24 16	- 8.3	24 6	+ 7.0	24 18	+11.8	22 4	- 8.8	1 12	+ 7.0	14 6	+ 6.7
2 14	+11.9	25 6	- 6.1	24 10	-12.4	24 20	+27.2	22 6	- 5.5	5 12	+ 8.8	16 6	- 5.0
2 16	+25.1	25 14	-10.2	24 12	-15.6	24 22	+16.7	23 22	- 5.3	6 18	+ 5.4	16 8	- 6.9
2 18	+ 9.4	25 16	- 6.2	24 14	-14.6	25 0	-10.3	24 2	-10.4	10 18	+ 5.2	16 10	- 6.6
3 0	+ 5.8	26 0	- 9.9	24 16	+ 7.9	25 2	-17.8	24 14	+ 8.1	11 12	- 6.3	16 16	- 6.4
3 4	+ 7.0	26 6	- 6.9	24 20	+17.3	25 6	- 6.0			15 12	- 7.2	17 0	- 6.4
4 6	+ 6.4	26 10	- 6.9	24 22	+29.5	25 8	- 7.6			15 16	+10.2	17 2	- 7.7
4 16	- 7.3	26 12	-16.1	25 2	-27.2	25 10	- 6.4	<b>DEC.</b>		18 6	- 6.9	17 6	- 8.7
5 0	- 5.3	26 14	+ 7.1	25 4	-26.4	25 14	+ 8.3	1 20	+ 5.1	18 8	- 6.1	17 12	- 5.1
5 12	- 5.8	26 16	+19.7	25 6	+ 9.5	25 16	+ 6.5	2 14	- 5.2	18 12	+22.8	17 14	- 7.0
5 18	+ 9.0	26 18	+ 7.5	25 8	-19.8	26 0	-12.5	2 18	+ 5.9	18 14	+14.0	17 16	- 5.1
5 20	+10.2	26 20	+16.4	25 12	-12.9	26 2	- 8.8	2 22	-11.1	18 16	+ 6.4	18 2	- 8.2
5 22	+11.4	26 22	-22.3	25 14	+16.9	26 10	+ 7.6	3 2	- 8.4	24 10	- 5.1	18 4	- 7.1
6 2	-21.7	27 2	-14.9	25 16	-36.8	26 14	+ 6.4	3 4	-14.0	24 12	- 5.1	18 6	- 6.0
6 6	-10.8	27 16	- 7.4	26 22	- 8.7	26 20	- 6.5	3 12	+ 7.1	24 18	+ 7.7	18 10	-10.6
6 10	+16.3	27 18	- 6.1	27 2	-14.9	26 22	- 5.2	3 16	- 8.6	27 10	- 6.7	18 14	- 5.2
6 12	- 8.3	28 0	- 7.8	27 6	- 9.0	27 0	- 6.3	4 0	- 6.6	27 12	- 5.4	18 22	-15.3
6 14	+34.2	28 12	+ 7.9	27 22	- 7.4	27 2	- 6.4	6 14	+13.3	28 6	+ 5.2	19 0	- 5.4
6 16	- 6.0	28 16	+19.1	28 0	-17.4	27 4	- 5.6	7 20	+ 5.1	28 14	+ 7.2	19 2	-19.7
6 22	+ 5.7			28 20	+10.3	27 18	+ 7.1	7 22	+ 8.3	29 16	+ 5.3	19 4	-12.3
7 14	- 5.5	<b>SEPT.</b>		29 4	- 9.2	29 8	- 9.7	8 0	+ 8.0	31 18	+ 7.6	20 20	-10.0
7 16	- 7.8	1 0	+15.2	29 16	+11.4			8 4	-15.7	31 22	- 6.0	21 0	- 7.2
9 4	- 7.9	1 2	+14.9	30 12	+ 6.3	<b>NOV.</b>		8 6	- 9.2			22 16	- 5.2
9 14	- 5.9	1 10	+ 8.4	30 14	+12.6	2 14	+ 6.8	8 8	- 6.0			23 22	+ 6.1
9 16	- 8.8	1 12	+ 7.4	30 16	- 5.1	3 18	+13.7	10 2	-17.2	<b>FEB.</b>		24 0	+ 8.7
9 22	+ 5.4	1 16	+ 6.7	30 18	- 5.2	3 20	+ 6.8	10 8	- 7.9	1 0	+ 6.6	24 6	- 9.8
10 16	- 8.3	2 0	+ 9.2			3 22	+13.4	14 8	- 6.7	1 2	+ 5.3	24 12	-13.7
11 20	+ 9.7	2 2	+ 6.4	<b>OCT.</b>		4 4	- 8.3	14 12	+29.5	1 10	+ 5.9	24 14	-19.7
11 22	-11.1	2 8	+ 6.8	1 18	- 7.5	4 22	-14.3	16 2	+ 5.8	1 14	+12.0	24 16	+ 5.9
12 0	+ 6.5	2 10	+ 5.8	3 18	-13.1	5 14	+ 5.0	17 16	+ 8.2	1 16	+ 6.0	25 16	- 5.7

## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXIX.—*continued.*

Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.
<b>1842</b>		<b>1842</b>		<b>1842</b>		<b>1842</b>		<b>1842</b>		<b>1842</b>		<b>1842</b>	
<b>MAR.</b>		<b>APRIL.</b>		<b>JUNE.</b>		<b>JULY.</b>		<b>JULY.</b>		<b>AUG.</b>		<b>SEPT.</b>	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
2 2	- 8.7	15 10	+ 5.2	9 14	+ 5.4	4 4	-12.8	19 16	+ 6.6	5 19	-14.1	2 13	+21.4
2 4	- 6.7	15 14	+ 6.9	10 0	+ 7.7	4 5	- 9.5	19 18	+10.4	5 20	+ 8.3	2 15	+ 5.2
4 22	- 5.4	15 16	-18.6	10 2	+10.2	4 6	- 5.8	19 19	+ 5.5	6 1	+ 6.0	2 16	- 5.4
7 14	+ 7.7	15 20	+21.8	10 4	+10.9	4 16	-11.2	20 18	- 5.7	6 4	+ 5.2	2 18	-12.8
11 10	+11.3	15 22	+13.1	12 18	+ 6.8	4 17	- 8.7	22 0	+ 5.2	6 5	- 5.4	2 19	- 6.8
15 12	-11.1	16 0	+ 6.8	12 20	+ 7.1	4 18	- 6.2	22 6	- 5.0	6 13	+ 8.9	3 13	+ 5.3
16 2	+ 6.0	16 2	+ 5.8	12 22	- 6.0	4 19	- 6.9	22 17	+ 5.4	7 21	- 5.6	4 18	+ 7.8
16 4	+ 8.6	19 2	- 5.2	14 0	-12.7	4 20	-15.4	22 20	+12.5	8 12	+ 5.4	4 23	+ 6.2
16 8	- 5.2	20 20	-22.4	14 10	+10.5	4 22	-10.1	23 0	+ 7.7	8 18	- 5.9	5 0	+ 5.2
16 10	- 7.8	21 0	- 8.7	14 20	+ 8.1	4 23	-15.1	23 10	+ 8.2	8 21	- 9.2	5 1	+ 5.1
16 14	+ 9.8	21 4	- 8.4	15 20	- 8.7	5 12	- 5.2	23 14	+ 7.9	10 18	+ 5.3	5 2	+ 6.5
16 18	+11.3	28 4	- 5.1	20 0	- 5.7	5 14	- 6.4	25 4	+ 5.0	11 5	+ 7.5	5 6	- 7.7
18 22	- 5.7	29 10	- 6.0	22 18	+24.4	5 20	-16.0	25 22	+ 5.3	11 6	+ 6.9	5 7	- 6.3
18 22	- 7.2			22 22	- 8.8	5 21	-12.4	26 0	+ 6.2	11 22	-11.5	5 21	-14.0
19 2	- 5.8	<b>MAY.</b>		23 18	- 9.9	6 1	- 5.0	26 1	+ 7.6	11 23	+ 5.2	5 22	- 7.4
23 0	- 5.2	5 0	+ 5.1	23 20	-10.5	6 7	- 5.1	26 2	+ 6.9	12 0	+ 7.7	9 2	+15.9
23 2	+ 5.8	6 6	- 9.0	24 2	- 7.0	6 8	- 6.8	26 3	+ 5.0	13 14	+14.5	9 22	+ 6.8
23 10	- 5.1	6 22	+ 7.2	24 4	- 6.1	6 12	- 5.4	26 8	- 5.0	15 20	- 5.9	10 2	+ 5.3
23 20	- 5.8	7 0	- 7.2	25 14	+ 7.7	6 13	+ 6.5	26 22	+ 6.0	16 14	+ 9.4	10 11	+ 5.5
23 22	- 5.2	7 2	- 5.4	25 16	+10.1	6 14	- 7.4	26 23	+ 6.8	17 0	+ 6.6	10 16	+ 5.9
24 12	+10.0	10 16	+ 7.9	30 16	+ 5.5	6 19	- 7.1	27 2	+ 5.0	17 17	+ 6.7	10 17	+ 5.3
24 14	+ 5.1	10 18	- 7.3	30 18	- 9.9	6 20	+ 8.0	27 3	+ 5.3	17 18	+ 5.9	11 18	+ 7.4
27 18	+ 5.2	16 2	- 7.6	<b>JULY.</b>		8 13	- 7.8	29 1	+10.1	18 3	- 6.7	12 16	+ 6.5
27 20	+ 5.3	16 16	+ 9.1	1 5	- 7.2	8 14	+12.5	29 2	+ 7.8	18 5	- 7.1	12 18	- 6.0
28 0	- 5.9	16 22	- 9.6	1 6	- 8.0	8 16	+21.4	29 3	+ 6.4	18 6	- 5.4	12 23	- 8.9
29 0	- 5.0	17 0	- 7.1	1 7	- 7.5	8 17	+24.8	29 4	+12.7	18 7	- 5.0	13 11	+ 8.2
29 16	+ 7.6	17 8	+ 5.8	1 8	- 6.5	8 18	+ 9.5	29 10	- 5.5	18 21	+ 6.0	13 12	+ 5.1
29 18	+ 6.0	17 14	+ 5.5	1 11	- 5.2	8 19	+16.0	29 11	- 5.7	19 1	+11.8	13 15	+ 6.2
30 6	- 5.0	19 0	- 5.6	1 13	- 5.8	8 20	+10.5	29 14	+12.8	19 2	- 7.4	14 20	- 8.4
30 8	- 5.4	24 0	+ 5.6	1 16	- 5.2	9 1	-15.7	30 3	+ 5.7	19 4	- 9.5	15 23	+ 7.1
30 16	+ 5.9	24 2	+ 6.5	1 17	- 8.2	9 2	- 9.7	30 6	+ 5.5	19 5	-24.4	16 2	-13.4
		24 18	+ 5.7	1 18	+24.2	9 11	+10.6	30 14	+ 8.3	19 6	-12.7	16 3	- 5.3
<b>APRIL.</b>		25 14	+ 5.2	1 18	+24.2	9 13	+ 7.3	31 18	+18.8	19 10	+23.4	16 14	- 5.4
1 2	+ 7.2	27 20	- 6.1	1 19	+ 5.0	9 14	+21.8	31 19	- 6.7	19 23	- 6.4	16 17	+ 5.3
1 20	- 5.7	27 22	- 5.3	1 20	-10.8	9 15	+ 8.4	31 20	+ 6.1	20 14	+10.2	16 19	+10.3
2 12	- 5.6	28 16	+ 8.9	1 21	+16.3	10 20	- 5.3	31 21	- 9.4	20 15	+ 5.4	16 20	+11.1
4 22	- 5.0			1 22	-10.2	10 23	-16.2	31 22	- 5.6	22 18	- 5.9	16 21	+ 7.9
10 20	+ 5.2	<b>JUNE.</b>		1 23	+34.8	11 0	- 9.7			23 8	- 5.4	16 23	+ 9.5
10 22	+19.5	1 20	+ 6.5	2 0	- 5.0	11 1	-12.5	<b>AUG.</b>		24 1	- 5.3	18 18	- 7.1
11 16	+ 9.5	2 2	+ 5.9	2 1	+ 7.0	11 14	+ 5.8	1 3	+ 6.5	24 6	- 5.4	18 22	+ 5.1
11 18	+10.1	2 14	+ 7.4	2 2	+10.4	11 15	+ 9.0	1 5	+ 7.1	24 14	+ 6.0	19 9	- 5.9
11 20	+ 6.2	3 12	+ 5.7	2 3	+ 6.2	11 16	+ 7.4	1 13	- 6.0	25 0	- 5.4	19 15	+ 5.3
12 2	-10.8	4 6	+12.5	2 6	- 5.1	11 21	- 5.1	1 14	- 8.8	25 11	+ 5.4	19 23	- 5.4
12 4	+ 6.1	4 8	-14.9	2 7	+ 9.8	12 6	+ 5.5	1 15	- 8.5	25 13	- 7.0	20 3	+ 7.2
12 20	-10.7	6 14	+ 7.6	2 8	+16.5	13 14	- 5.2	3 15	+ 5.2	26 12	+10.5	20 13	+ 8.6
12 22	+14.0	6 20	- 5.0	2 9	+10.7	14 18	- 7.9	4 5	+ 5.2	26 15	+ 6.3	20 19	+ 6.8
13 2	-17.2	6 22	+ 5.3	2 11	+ 5.9	14 19	+ 7.4	4 14	+ 9.4			21 0	- 9.0
13 6	+ 7.7	7 0	+ 5.5	2 12	+13.7	14 22	+ 5.0	4 15	+ 5.0	<b>SEPT.</b>		21 11	- 5.6
14 16	+14.1	7 18	+ 7.1	3 19	-23.7	15 17	+13.3	4 17	+33.2	1 20	- 5.2	21 13	- 5.1
15 0	+ 5.2	7 22	- 5.8	4 0	- 6.1	18 16	+ 7.3	4 23	- 8.3	1 21	+18.1	21 14	+14.7
15 2	+ 9.5	8 16	+ 5.5	4 1	-12.6	18 18	- 5.2	5 1	+ 5.5	1 22	+17.6	21 19	- 6.3
15 4	- 8.0	9 4	+ 6.6	4 2	-11.5	18 22	- 8.2	5 16	+11.7	2 0	+ 5.5	21 22	+ 5.0
15 8	+ 6.2	9 6	+ 6.5	4 3	-19.1	19 15	+ 5.2	5 18	+12.5	2 5	- 5.9	22 8	+ 5.9

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.
<b>1842</b>		<b>1842</b>		<b>1842</b>		<b>1842</b>		<b>1843</b>		<b>1843</b>		<b>1843</b>	
<b>SEPT.</b>		<b>OCT.</b>		<b>NOV.</b>		<b>DEC.</b>		<b>MAR.</b>		<b>APRIL.</b>		<b>MAY.</b>	
D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.
22 9	- 5.2	6 0	+ 6.0	10 11	- 5.2	19 22	- 6.1	6 12	- 9.0	6 3	- 7.0	12 14	+ 6.0
22 14	+10.1	6 1	+ 6.5	10 12	+ 5.2	21 22	+ 5.4	6 13	- 7.6	6 13	- 5.4	12 16	+ 7.8
22 19	+ 6.3	6 20	+ 5.0	10 15	+ 8.0	29 21	- 7.5	6 14	+14.4	6 14	+27.2	12 17	+ 7.5
22 22	-10.5	12 4	+ 5.4	10 18	+ 8.6	29 22	+ 5.3	6 20	+ 5.5	6 15	+11.9	15 3	+ 7.8
22 23	- 9.1	12 5	+ 6.0	10 19	+ 7.0	30 2	- 6.5	6 23	- 5.1	7 9	+ 5.0	15 4	+ 9.1
26 6	+ 5.2	12 6	+ 5.2	10 20	+ 7.8	30 16	+ 5.2	7 6	- 5.0	7 13	+ 7.0	15 5	+ 5.8
28 0	- 5.1	13 9	- 7.9	10 22	- 8.1	32 21	- 8.0	7 8	- 7.4	7 16	+13.6	15 9	- 5.8
28 1	- 5.5	13 10	- 5.6	11 20	- 7.2	32 23	+ 7.2	7 10	+ 6.2	7 18	+ 5.5	15 10	- 6.6
28 14	+ 8.3	13 17	+ 9.5	13 21	- 5.0			10 14	- 6.1	7 20	+ 6.7	15 15	+ 8.0
28 17	+ 9.9	13 18	+ 6.7	16 0	+ 6.0			11 10	- 5.5	9 20	+ 6.2	15 16	+13.7
28 18	+16.4	14 3	+ 5.1	16 8	- 6.8			13 14	+ 7.2	9 21	- 5.8	15 18	+ 6.7
28 19	+ 6.4	15 14	+ 7.6	19 16	- 5.1			13 15	+13.9	9 22	+ 6.2	15 20	+ 5.2
28 22	- 7.4	15 15	+ 9.5	20 19	- 9.3			13 16	+ 5.4	11 22	+ 6.4	15 23	- 7.5
29 1	- 5.6	15 16	+12.8	21 13	+ 7.4	2 0	-20.6	13 19	+ 7.3	12 7	- 9.7	16 19	- 6.9
29 3	- 6.4	15 17	+ 6.2	21 15	+10.9	2 3	- 6.5	17 8	- 5.5	12 8	- 6.5	19 23	- 9.1
29 7	+ 5.7	17 3	+ 5.2	21 16	+19.2	2 4	- 6.8	17 12	- 7.6	12 15	+ 7.4	23 3	- 5.8
29 15	+ 6.2	17 8	- 5.8	21 17	+14.7	2 8	- 5.5	17 13	- 8.6	12 16	+ 6.2	23 4	- 5.8
29 20	-10.1	17 15	+10.9	21 18	+14.1	2 13	+ 6.2	17 14	- 9.9	12 17	+ 7.9	23 5	- 5.8
30 1	- 7.5	17 20	- 6.5	21 19	+ 6.2	3 0	- 8.1	18 12	+ 6.0	13 5	- 5.6	24 5	- 5.1
30 2	+ 5.1	17 22	- 8.6	21 20	-17.7	11 9	- 5.4	18 14	+ 8.2	14 20	- 5.8	24 6	- 5.0
30 7	+ 5.4	17 23	- 6.5	21 22	-15.2	23 13	- 7.3	20 13	+ 8.2	15 12	+11.9	24 7	- 6.1
30 22	- 7.5	18 15	+10.4	21 23	- 7.0	23 16	+11.6	22 14	+ 8.7	15 14	+ 5.3	25 5	- 5.7
30 23	- 6.9	18 16	+10.4	22 0	- 6.9	23 17	+ 7.8	29 4	- 5.9	17 14	- 6.2	25 6	- 6.2
		18 17	+ 6.9	22 2	-19.5	24 15	+14.0	29 6	+ 5.9	17 18	+ 5.1	25 7	- 5.5
		24 0	- 6.9	22 3	-17.1	28 7	- 5.1	29 8	- 9.8	19 7	+ 5.1	26 0	+ 5.6
<b>OCT.</b>		24 16	+ 5.2	22 4	-11.3	28 12	+12.4	29 9	- 8.7	20 7	+ 5.6	26 1	+ 5.9
1 5	+ 6.4	26 7	+10.7	22 17	+ 9.1			29 10	- 7.1	22 3	- 6.0	26 16	- 6.1
1 6	+ 7.6	26 12	- 5.1	22 23	+ 5.7			29 11	- 5.4	22 7	+ 5.4	27 14	+ 6.4
1 7	+ 7.7	27 3	- 5.7	23 1	+ 5.3	4 16	+ 5.3	29 12	- 5.6	22 8	+ 6.7	29 6	- 5.2
1 8	+ 7.9	27 4	- 7.9	28 9	+ 6.8	6 9	- 5.5			22 9	+ 5.2	29 18	+ 9.0
1 9	+ 7.1	27 13	+ 7.5	28 10	+ 6.6	6 10	-15.4			23 23	-10.1	29 20	- 6.8
1 17	+ 9.6	27 20	- 6.4	28 11	+ 6.4	8 16	+17.5	1 4	+ 6.5	24 6	+ 6.1	31 23	+ 5.6
2 23	- 8.8	29 2	- 6.3	28 12	- 5.0	9 19	+ 6.8	1 5	+ 5.9	27 5	- 6.4		
3 0	- 6.2	29 14	+ 8.1	28 18	+ 7.4	13 18	- 5.9	3 9	- 5.3				
3 2	- 5.0	29 16	+ 6.3	28 19	+ 6.0	13 19	-10.6	5 3	- 9.6				
3 3	- 5.1	30 21	- 8.2	28 20	+ 5.6	13 20	+11.1	5 4	- 5.9	<b>MAY.</b>		1 23	+ 5.5
3 6	- 5.4			28 21	- 6.0	14 9	- 5.6	5 5	+ 8.1	1 4	- 6.2	2 0	+ 7.4
3 13	- 6.2			28 22	+ 5.7	14 13	+ 8.8	5 6	- 7.8	1 5	- 5.8	2 1	+ 6.9
3 14	- 6.1	<b>NOV.</b>		29 0	+ 7.2	14 19	-11.1	5 9	- 8.4	1 6	- 5.4	2 21	+13.0
3 23	-10.4	2 0	+ 5.1	29 3	+ 7.3	15 14	+18.4	5 10	-13.2	2 5	+ 6.4	2 22	+ 9.7
4 4	- 7.0	2 11	- 6.8	30 12	+11.1	17 7	- 6.7	5 11	-22.2	2 6	+ 6.7	2 23	+ 6.3
4 5	- 6.5	2 21	+ 5.3			20 13	+ 7.0	5 12	-19.6	2 3	+ 5.7	3 13	+ 9.7
4 6	- 7.4	3 8	- 7.8			23 22	+ 5.1	5 13	- 8.5	6 9	- 5.4	3 16	- 7.1
4 7	- 8.8	3 14	+ 9.1	<b>DEC.</b>		23 23	+10.7	5 14	+ 6.5	6 10	- 9.0	6 14	+ 5.0
4 8	- 7.7	4 20	- 7.1	5 20	+ 9.1	24 0	+12.6	5 14	+ 6.5	6 13	-15.2	7 15	+16.6
4 9	- 5.2	5 4	+ 5.2	5 21	+ 6.0	24 1	+ 6.8	5 16	+ 6.8	6 14	-12.0	7 16	+ 6.2
4 13	- 6.5	9 12	+ 5.0	7 4	- 5.2	24 3	- 8.9	5 17	- 9.7	6 16	+14.6	7 20	+ 5.6
4 14	- 6.3	9 14	+ 8.5	7 16	+ 5.0	24 4	- 8.2	5 18	+ 6.4	6 17	+20.7	9 22	+ 5.1
4 16	- 8.5	9 16	+14.1	7 20	- 5.3	24 13	+ 9.8	5 19	+10.6	7 22	- 5.3	10 1	+ 5.4
4 17	- 8.0	9 23	+14.4	9 9	- 7.5	24 17	+26.8	5 20	+11.9	8 13	+ 5.5	10 14	+ 5.9
4 18	- 6.0	10 0	-13.8	9 11	-11.2	24 18	+11.3	5 21	+12.1	9 0	- 5.4	10 15	+ 5.4
4 19	- 7.8	10 1	-21.2	9 12	- 5.4	25 14	+ 8.7	5 23	+10.4	10 3	- 6.3	11 23	-14.1
5 22	+ 5.9	10 4	- 6.4	10 16	+ 9.5	27 21	- 7.5	6 0	+ 9.6	10 15	+ 7.4	12 16	+ 5.6
5 23	+ 6.5	10 6	- 5.9	13 23	- 7.3			6 1	+ 7.5	10 19	- 6.2	13 0	- 5.6



ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXIX.—continued.

Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.
<b>1843</b>		<b>1843</b>		<b>1843</b>		<b>1843</b>		<b>1843</b>		<b>1843</b>		<b>1844</b>	
<b>JUNE.</b>		<b>JULY.</b>		<b>AUG.</b>		<b>SEPT.</b>		<b>SEPT.</b>		<b>NOV.</b>		<b>FEB.</b>	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
13 14	+ 5.6	14 3	+ 5.2	4 0	+ 7.7	5 10	+ 5.6	30 3	- 5.9	13 5	- 6.4	1 9	- 5.4
14 5	+ 5.6	14 4	+ 5.3	4 6	- 6.8	5 15	+ 6.2	30 5	+ 5.9	13 6	- 6.3	2 6	- 7.6
15 0	- 5.6	14 17	+ 6.9	4 12	+ 7.8	5 19	+12.8	30 15	+ 5.5	13 14	+ 9.9	2 7	- 6.7
22 16	+ 6.8	15 5	+ 5.0	4 13	- 8.6	5 21	+ 7.9			13 15	+ 5.7	2 12	+ 9.0
26 0	+ 6.9	15 6	+ 5.3	4 20	- 7.0	5 22	+11.1	<b>OCT.</b>		14 11	- 5.8	2 17	-25.6
26 1	+ 6.9	16 22	- 5.2	4 21	- 5.8	5 23	+ 8.9	2 19	+ 6.8	15 14	+ 5.4	2 18	- 9.5
26 2	+ 7.2	21 20	+ 5.1	5 7	+ 5.0	6 15	+ 6.4	2 20	+12.6	16 19	+ 5.0	5 9	- 8.4
26 3	+ 6.8	21 21	+ 7.5	5 17	+ 7.9	6 20	- 6.0	2 21	+12.7	17 15	+ 6.2	5 10	- 5.5
26 4	+ 5.6	21 23	+ 7.0	8 1	+ 6.1	8 1	- 6.4	2 23	-10.1	20 21	- 5.3	5 17	+ 5.5
30 3	+ 6.0	22 1	+ 6.8	8 4	- 5.2	8 2	- 5.9	4 15	+12.3	29 17	+ 5.3	5 18	+ 6.8
30 16	+ 5.1	22 2	+ 5.3	8 14	+20.6	8 17	- 5.9	4 18	+ 5.0			5 21	- 6.5
30 17	+ 5.9	22 14	+ 5.0	8 19	+ 5.1	8 19	+ 5.9	5 6	- 6.8	<b>DEC.</b>		5 22	- 6.8
30 18	+ 7.5	24 6	+ 6.9	9 22	- 6.6	8 23	+ 5.9	5 15	+ 6.4	1 22	+ 5.0	6 20	- 6.1
30 19	+17.2	24 7	+ 6.4	10 5	- 5.5	9 0	+ 5.0	6 6	- 5.3	2 0	+ 8.5	7 23	+ 5.4
30 23	+ 7.0	24 10	-11.5	10 22	- 5.5	9 1	+ 5.4	8 21	- 5.7	2 3	-12.0	8 1	+ 6.4
		24 21	+ 9.7	11 0	+ 5.2	9 6	- 5.7	10 1	+ 5.0	2 4	- 6.2	8 2	+ 7.6
<b>JULY.</b>		24 22	+13.7	11 23	- 7.2	10 18	+ 8.6	12 15	+ 7.0	7 15	+ 7.7	8 5	-11.5
1 0	+ 5.6	25 0	-17.2	12 14	+ 6.4	10 19	+ 6.3	12 19	+ 5.2	8 20	+ 5.8	8 6	- 6.5
1 1	+ 5.4	25 1	-19.6	15 15	+ 5.9	10 21	+ 5.9	12 23	- 6.2	10 18	+ 5.8	8 14	+ 5.4
1 15	+12.8	25 2	-12.3	16 19	- 5.1	10 22	- 5.6	13 22	- 6.0	10 22	- 5.8	10 12	+15.5
2 18	+ 5.4	25 3	-20.8	21 21	+ 6.5	11 18	+ 5.7	14 11	- 5.9	11 14	+ 7.1	14 22	+ 5.9
3 4	+ 5.0	25 4	-14.6	21 22	+10.9	11 19	- 5.7	15 22	+ 5.0	11 18	- 6.6	14 23	+ 5.2
4 17	- 7.5	25 5	- 6.7	22 2	- 5.1	12 17	+14.1	16 0	-15.7	12 11	+14.3	28 11	-13.0
4 18	+ 6.1	25 6	- 9.1	22 8	- 8.6	12 23	- 6.1	16 10	- 6.3	12 12	+ 8.4	28 16	+34.9
5 6	+ 5.3	25 7	-14.9	22 9	- 6.7	16 16	- 6.7	17 2	-15.3	13 11	+ 5.0	28 18	+ 6.5
5 7	+ 6.1	25 8	- 9.3	22 10	- 7.5	16 17	- 5.5	17 4	- 5.7	27 7	- 8.8	29 16	- 5.1
7 12	-10.6	25 9	-12.7	22 15	+ 5.1	17 22	+10.2	17 7	+ 5.0	27 23	+ 6.1		
7 13	-11.0	25 10	- 9.5	23 6	+ 5.0	18 10	- 5.7	17 13	+ 5.3	28 2	- 6.5	<b>MAR.</b>	
7 15	+10.6	25 11	-15.9	23 13	+ 5.7	18 14	- 7.0	17 20	- 7.7	28 3	- 5.8	1 21	- 5.3
7 18	+ 8.6	25 12	- 8.4	23 15	+ 5.1	18 22	- 6.1	18 15	+ 5.2			2 0	+ 5.6
7 19	+ 7.6	25 16	+16.1	23 16	+ 5.5	19 20	- 6.0	18 16	+12.9			2 9	- 5.0
7 20	+13.2	26 0	+ 7.4	23 22	- 6.8	19 21	- 8.6	19 17	- 9.6	<b>1844</b>		2 11	- 5.4
8 1	+ 5.3	26 1	+ 6.4	25 6	- 5.1	20 15	+ 7.1	26 0	-10.5	<b>JAN.</b>		3 19	- 5.2
8 2	+ 6.5	26 2	+ 5.8	25 7	- 7.8	20 18	- 9.7	26 3	+ 5.8	2 2	- 6.2	3 20	- 5.8
8 3	+ 6.2	26 12	+ 5.5	25 8	- 7.0	20 23	- 9.6	26 7	- 5.2	4 12	- 5.0	3 21	- 6.6
8 9	+ 5.3	26 19	+ 5.5	25 16	+ 9.7	21 16	+ 8.6	26 10	- 6.3	4 16	+20.0	4 15	+10.0
8 10	+ 6.6	26 20	+ 5.6	25 19	- 6.6	21 18	+ 9.6	26 13	+ 5.4	4 16	+ 6.7	4 16	+15.4
9 20	- 5.0	27 15	+ 6.6	25 20	- 8.4	21 23	+ 6.8	26 14	+ 7.2	4 17	+ 6.7	4 18	- 5.7
9 23	- 7.0	27 19	- 7.3	26 12	+ 8.7	22 0	+ 5.0	26 19	- 6.5	5 10	- 7.3	4 22	+ 5.8
10 2	- 7.0	28 6	- 5.9	30 23	- 8.2	22 3	- 7.1	26 20	- 5.7	5 23	- 6.5	5 13	+10.3
10 3	- 5.1	28 7	- 6.4	31 0	- 6.4	22 12	+ 9.2	27 1	- 9.0	8 13	+ 6.2	5 14	+10.5
10 4	- 5.7	28 11	+ 5.3	31 19	+ 7.5	22 21	- 6.7	29 22	- 5.3	8 16	+ 6.0	5 15	+ 5.4
10 5	- 8.1	28 16	+ 7.3	31 20	+ 5.9	23 1	- 8.9	30 17	+ 5.8	11 3	+ 5.4	5 17	+ 7.7
10 7	- 3.7	29 12	+12.9			27 16	+ 7.9	31 14	+11.9	11 4	+ 5.4	5 23	-12.2
10 13	+ 8.0	30 19	+ 5.2	<b>SEPT.</b>		28 0	- 9.1	<b>NOV.</b>		11 4	+ 5.4	6 0	-14.4
10 20	- 6.4	31 9	- 6.0	1 6	-11.3	28 6	+ 5.7	2 17	+ 9.2	22 3	- 9.2	6 2	- 8.0
11 12	+15.6			1 15	+ 5.5	28 7	+ 5.5	2 20	+ 8.0	22 4	- 6.4	6 2	- 8.0
13 7	+ 5.0	<b>AUG.</b>		1 23	-13.4	29 4	+ 5.8	3 0	- 5.6	24 16	+ 5.7	6 3	- 9.9
13 16	+11.9	2 19	+ 7.0	2 1	+ 5.6	29 5	+ 6.2	7 5	- 5.7	24 18	+11.0	6 4	-12.0
13 17	+ 8.7	3 15	+ 7.9	2 10	+ 6.1	29 6	+ 5.9	7 7	- 5.0	24 19	+ 8.8	6 17	+ 5.2
13 18	+ 5.6	3 19	- 6.0	4 18	+ 6.6	29 14	+ 7.7	8 15	+21.0	24 21	+ 7.0	6 18	+ 8.9
13 23	- 6.2	3 21	+ 5.4	4 19	+ 8.3	29 19	- 5.9	13 4	- 6.7	25 3	- 7.6	6 19	+12.5
14 1	- 5.0	3 23	+ 7.8	5 4	- 5.0	30 0	- 6.8			25 4	- 7.9	7 3	- 5.4
										31 23	+ 7.9	7 4	- 6.7

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.
<b>1844</b>		<b>1844</b>		<b>1844</b>		<b>1844</b>		<b>1844</b>		<b>1844</b>		<b>1844</b>	
MAR.		APRIL.		APRIL.		JUNE.		JULY.		AUG.		SEPT.	
D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.
7 11	+11.3	3 6	-5.6	30 14	+6.3	10 21	-5.3	23 6	+7.2	9 16	+5.1	4 5	+6.4
7 12	+5.4	3 15	+7.4	30 15	+6.3	11 17	+5.0	24 21	+5.7	9 23	+6.2	4 6	+8.4
7 15	+18.4	3 16	+13.9	30 21	-8.8	12 17	+6.2	24 22	+13.2	10 5	+5.8	4 7	+6.9
7 16	+18.9	3 21	-7.4	30 22	-7.6	12 18	+7.4	25 1	-11.7	10 6	+6.2	4 16	+7.1
7 18	-6.6	3 22	-6.5			13 0	+5.2	25 17	+6.2	10 7	+6.2	8 23	+5.2
8 10	+11.2	4 4	+5.2	MAY.		13 1	+6.3	25 20	+9.2	10 8	+5.5	9 13	+13.8
8 14	+14.1	4 5	+7.4	2 18	+7.7	13 2	+5.5	26 21	-10.1	10 9	+6.0	9 14	-5.2
16 2	-8.9	4 6	+6.1	2 20	+6.1	16 20	+5.0	26 22	-6.8	12 20	+5.0	12 7	+6.6
18 3	+5.2	4 12	+6.3	6 16	+5.1	16 21	+8.2	27 13	+7.6	13 5	+9.6	13 22	+6.1
18 11	-5.7	5 18	-7.8	7 16	+16.4	16 22	+5.2	27 14	+13.1	16 8	-6.3	13 23	+7.0
19 17	+10.9	6 5	+5.6	7 18	+7.6	17 5	-5.7	29 23	-6.2	20 7	-5.2	14 7	-5.0
20 18	+8.0	6 17	+5.0	7 19	+18.9	17 14	+12.4	30 5	-7.9	20 15	-7.0	14 15	+38.1
21 20	-5.7	8 14	+6.3	7 22	-5.7	17 21	+6.3	30 6	-8.7	21 7	+8.5	14 16	+8.2
26 14	-5.0	11 17	+5.2	8 2	-5.4	18 0	+5.9	30 7	-6.9	22 3	-5.6	15 19	+6.3
27 7	-5.4	12 1	+5.0	8 13	+9.3	18 4	+10.4	30 8	-5.1	22 4	-9.7	16 13	+7.8
27 9	-5.7	16 18	+11.6	8 15	+5.5	20 17	+7.8	30 19	+8.8	22 5	-9.5	19 0	-6.9
27 13	+5.8	16 19	+13.8	8 16	+7.7	21 9	-5.3	31 13	-5.1	22 7	-5.9	19 1	-5.2
28 16	-5.1	16 20	+32.3	10 16	+8.9	25 15	-5.3			22 13	+6.2	19 5	+6.5
28 20	+5.5	16 21	+42.9	11 3	-5.5	25 22	+5.2	AUG.		22 14	+18.0	19 6	+6.4
28 21	+6.4	16 22	+32.9	11 4	-5.2	29 10	+5.2	1 1	+6.1	22 15	+7.8	19 16	+14.6
28 23	+5.2	16 23	-18.7	13 7	+6.3	29 14	+6.1	1 3	+5.3	22 20	+8.0	19 18	+8.3
29 10	-7.8	17 0	-16.2	13 18	+6.9	30 21	-8.6	1 5	+10.4	22 21	+11.2	19 19	+9.8
29 11	-9.6	17 1	-34.9	14 13	+5.2			1 8	-9.8	22 22	+16.3	19 28	+5.0
29 12	+13.8	17 2	-21.4	14 15	+7.2	JULY.		1 9	-10.8	22 23	-5.4	20 0	+10.9
29 14	+43.0	17 4	-6.9	14 16	+31.6	2 4	+8.3	1 10	-13.5	23 6	-7.1	20 3	+7.2
29 15	+11.6	17 5	-7.0	14 17	+5.7	2 5	+8.0	1 11	-6.6	23 14	+7.3	20 9	-5.1
29 16	+15.3	17 6	-7.6	15 11	+5.7	7 23	-7.7	1 12	-5.3	23 15	+12.8	20 19	-17.4
29 18	-35.9	17 7	-8.7	22 5	+9.3	8 5	-5.8	1 14	-7.2	23 16	+5.7	21 1	-6.2
29 19	+28.0	17 8	-10.3	22 10	-9.4	8 9	+5.2	1 16	+9.6	23 17	-9.9	21 14	+8.4
29 20	+18.4	17 9	-7.6	22 13	+11.8	8 16	+11.9	1 19	+6.1	23 19	+7.0	22 20	-14.1
29 21	-14.4	17 11	-10.0	22 15	+10.3	8 17	+15.9	1 21	-7.4	23 21	+7.1	22 21	-5.2
29 22	+13.0	17 12	-10.3	22 17	+11.5	8 18	+13.8	1 22	-14.3	24 13	+5.3	23 0	-9.9
29 23	+18.2	17 14	-10.9	22 18	+12.0	8 19	+8.0	2 12	+7.0	24 14	+11.0	23 1	-5.0
30 0	-13.9	17 23	+6.8	22 19	+6.5	9 8	+7.0	2 15	-6.8	25 18	+14.1	23 3	-5.4
30 9	+8.9	18 0	+7.0	23 8	+5.1	9 9	+5.2	2 17	-6.2	28 8	+7.3	24 2	-5.9
30 11	+6.9	18 1	+8.0	24 13	-10.4	9 21	-5.1	2 22	-5.4	29 17	+5.8	24 3	-8.4
30 15	+11.4	24 18	-6.3	24 14	-7.3	10 2	-5.6	3 0	-5.1	29 20	-8.0	24 4	-6.8
31 18	+6.9	25 2	-6.8	24 16	-10.6	11 0	-6.5	3 10	-7.0	29 21	-15.3	24 15	+13.7
		25 3	-11.8	24 17	-8.3	12 18	+9.6	3 16	+6.7	30 3	-5.1	25 2	-6.5
APRIL.		25 4	-7.7	24 18	-9.9	12 19	+5.4	3 17	+12.2	30 5	-6.6	25 12	-7.1
1 1	-5.8	25 12	-5.3	24 20	-8.1	12 23	+8.5	4 19	+8.4	30 17	+5.7	25 14	+20.2
1 15	+18.5	25 17	+7.6	26 19	-5.3	13 0	+7.5	4 21	-6.8	30 18	+7.8	25 15	+10.8
1 17	-5.2	26 0	-9.0	27 4	-5.5	13 4	-9.7	5 1	-5.5	30 23	-8.3	25 16	+21.8
1 18	+7.1	26 1	-5.0	27 5	-5.8	16 7	-5.2	5 23	-5.1	31 1	-6.3	25 17	+8.7
1 19	+5.2	26 13	+15.7	27 16	-5.3	17 14	+5.5	8 7	+5.4	31 2	-7.8	25 19	+5.6
1 22	-7.9	26 16	+6.4	27 17	-7.0	17 23	+6.6	8 8	+5.7	31 15	+5.0	25 20	-6.2
2 3	+5.1	26 19	-10.2	27 19	-5.3	18 0	+5.3	8 23	-6.3			26 4	-8.6
2 4	+5.2	27 11	+9.9	29 21	+7.0	18 2	+5.0	9 1	-6.1	SEPT.		26 5	-5.0
2 16	+9.5	27 14	+9.9			22 20	+5.4	9 5	-8.4			26 8	-10.8
2 17	+5.8	27 17	+7.2	JUNE.		22 21	+7.3	9 7	-6.3	2 1	-5.1	26 12	+6.7
3 0	+5.4	29 0	+5.0	1 15	+7.2	22 22	+8.1	9 8	-11.6	2 16	+7.6	26 14	+9.5
3 3	+5.1	30 1	-5.2	10 0	-6.9	23 0	+5.5	9 9	-7.7	2 22	-6.0	26 20	+19.0
3 5	-5.1	30 12	+6.2	10 15	+10.7	23 5	+5.7	9 11	-7.6	3 22	-9.2	26 21	-10.4

TABLE XXIX.—continued.

Mean Gött. Time.	Disturb- ance.	Mean Gött. Time.	Disturb- ance.	Mean Gött. Time.	Disturb- ance.	Mean Gött. Time.	Disturb- ance.	Mean Gött. Time.	Disturb- ance.	Mean Gött. Time.	Disturb- ance.	Mean Gött. Time.	Disturb- ance.
<b>1844</b>		<b>1844</b>		<b>1844</b>		<b>1844</b>		<b>1845</b>		<b>1845</b>		<b>1845</b>	
SEPT.		OCT.		NOV.		DEC.		JAN.		FEB.		APRIL.	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
26 22	- 5.0	22 15	+ 6.5	16 12	+ 7.3	20 19	+ 6.4	23 4	- 6.6	25 22	- 8.1	5 16	+ 6.5
26 23	-12.0	22 20	-10.2	16 14	+ 8.0	20 23	- 8.8	23 5	- 8.2	26 1	-11.6	6 23	- 5.3
27 12	+ 7.8	23 4	- 7.0	17 19	- 5.4	21 0	-13.7	23 15	+30.1	26 2	-16.0	7 2	+ 5.9
27 15	+12.9	23 19	- 9.6	17 23	-10.0	21 4	- 8.2	23 16	+ 7.1	26 12	+ 5.1	7 3	+ 5.2
27 16	+ 9.3	24 3	- 5.1	18 0	-10.4	26 0	- 6.1	23 21	- 6.2	26 14	+ 8.0	7 14	+ 9.6
27 17	+ 7.3	24 20	- 8.5	18 10	+ 5.6	26 1	- 5.7	24 6	- 8.3	26 15	+ 6.0	8 4	+ 5.2
29 18	+ 7.5	24 22	+11.8	18 15	+ 5.5	30 1	+ 6.4	24 8	- 5.8	26 16	+ 5.6	9 3	+ 6.1
29 20	+ 6.7	24 23	+ 7.7	18 16	+ 9.5	30 13	+ 7.7	24 11	+ 9.9	26 21	- 6.5	9 4	+ 5.5
30 1	- 5.8	25 0	+ 7.8	18 17	+ 7.7	30 16	+ 8.0	24 20	+ 7.0	26 22	-10.9	9 5	- 5.0
30 2	- 8.7	25 9	- 9.0	18 18	- 9.8	30 22	- 5.0	24 22	+ 5.3	27 14	+ 7.2	10 3	+ 5.1
30 6	- 5.1	25 13	+ 7.8	18 19	-12.4	30 23	- 5.7	25 2	- 6.7	28 10	- 7.3	10 4	+ 7.2
30 13	+ 7.8	25 16	+ 7.7	19 0	-15.9	31 1	+10.0	26 18	-12.1	28 14	+ 5.3	10 5	+ 5.4
30 14	+36.0	25 17	+28.2	21 15	+ 5.7	31 2	+10.3	28 5	- 6.4			11 3	+ 5.1
30 15	+18.0	25 19	- 5.7	21 22	-14.8	31 3	+ 8.1	28 6	- 9.6			11 4	+ 5.2
30 16	+ 8.6	25 20	+10.4	22 0	+12.8	31 16	+ 7.3	28 7	- 5.4	MARCH.		14 0	+ 7.0
30 17	+10.5	26 0	+ 5.4	22 1	+ 7.4			28 9	- 8.5	7 9	- 6.1	14 2	- 9.6
30 18	+13.2	26 5	- 6.0	22 9	- 5.4			28 14	+10.3	7 10	- 5.5	14 3	- 7.1
30 19	+ 8.0	26 10	- 5.8	22 14	+ 6.8			28 19	+ 5.6	13 20	- 7.5	14 4	- 8.6
30 21	+18.9	26 11	+16.1	22 15	+11.9	<b>1845</b>		28 20	+ 9.0	13 22	+14.1	14 8	+ 5.4
30 22	-25.6	26 13	+ 6.6	22 16	+ 6.1	JAN.		28 22	+11.2	13 23	+ 5.6	14 18	- 6.4
30 23	-34.8	26 15	+ 5.5	22 17	-18.3	1 3	+ 6.0	29 9	- 6.4	14 16	+ 5.8	14 18	- 6.4
		26 17	- 5.1	22 18	-20.2	1 4	+ 6.0	29 12	+ 5.2	14 22	- 6.0	15 2	- 7.5
OCT.		28 12	+ 7.8	22 22	- 9.2	1 5	+ 6.1	29 15	+ 5.1	19 13	+ 7.1	16 1	- 6.6
1 0	-19.9	29 15	+10.8	23 0	- 7.2	1 16	+ 7.2			19 14	+ 9.9	18 4	- 5.6
1 1	-47.3	30 0	- 8.3	23 1	- 5.1	1 21	- 6.4	FEB.		19 15	+12.7	18 5	-10.0
1 2	-23.1	31 5	+ 6.3	25 17	+ 5.5	2 3	+ 5.5	5 6	- 6.1	19 16	+ 5.7	18 6	- 5.4
1 3	-12.1			27 18	+ 7.2	9 2	- 7.4	5 21	+ 7.4	19 18	- 5.5	18 10	- 7.6
1 6	- 7.9	NOV.		27 23	- 6.0	9 3	-14.1	5 23	+ 9.5	20 1	+ 5.3	18 14	+ 5.3
1 8	- 6.4	1 3	+ 5.7	28 18	+ 9.9	9 4	- 9.1	6 0	+ 7.1	20 6	-13.8	18 16	+ 5.5
1 10	+ 5.7	1 4	+ 5.5	DEC.		9 5	- 9.7	6 1	+ 5.5	20 15	+10.9	18 17	+ 5.7
2 7	- 9.7	1 15	+ 9.1	4 2	- 8.0	9 9	- 8.1	7 18	- 5.1	20 16	+ 8.2	19 10	- 7.6
2 8	- 6.9	2 11	+ 8.8	4 10	- 7.4	9 10	-12.1	8 15	+ 6.7	23 20	+ 5.8	19 12	- 6.4
5 14	+ 7.0	2 12	- 5.6	4 11	- 6.0	9 11	- 7.9	9 23	- 5.5	24 0	+ 8.9	20 20	- 6.8
7 15	+ 9.4	2 14	+14.4	4 11	- 6.0	9 12	- 7.5	12 14	+ 7.0	24 9	- 5.3	23 8	- 6.5
7 17	- 6.7	3 18	+ 6.5	4 15	+ 7.3	9 13	- 7.0	20 12	- 7.8	24 13	+ 5.9	23 9	- 5.7
14 4	+ 5.1	4 13	+ 5.2	4 16	+ 6.0	9 14	- 7.6	20 13	- 6.7	24 16	+ 6.0	23 10	- 5.4
14 21	- 7.7	11 0	- 8.1	6 0	+ 9.0	9 15	+ 6.7	20 19	- 9.0	25 13	+ 6.6	24 1	+ 5.4
17 11	- 5.5	11 6	- 7.3	14 7	-12.3	9 16	-33.2	20 21	+ 5.2	25 15	+ 9.3	24 2	+ 5.5
17 17	+ 5.5	11 7	- 5.2	14 8	-14.5	10 18	- 6.1	21 0	- 5.9	26 14	+ 6.3	24 4	+ 6.1
18 2	+ 5.1	11 8	- 7.2	14 9	- 8.8	13 22	- 5.6	21 13	+ 9.7	26 15	+ 9.5	24 7	- 6.5
20 18	+ 9.6	11 11	- 9.1	14 16	+20.3	16 19	+ 8.8	21 19	+ 5.9	26 18	+ 5.9	24 8	- 5.3
20 19	+20.0	12 5	-11.3	16 13	+ 8.9	17 16	+ 7.3	21 21	+ 5.6	27 5	- 7.7	24 20	+17.8
20 20	+ 6.0	12 18	-10.6	17 17	+ 5.0	17 19	- 6.7	22 0	+ 5.4	27 6	- 5.9	24 21	+ 5.2
20 22	-12.1	13 20	- 9.2	18 22	+14.6	17 20	- 6.4	23 18	+ 6.0	27 7	- 6.3	25 0	- 8.7
20 23	- 9.5	15 21	- 5.7	18 23	+ 7.1	19 18	+ 9.0	23 20	- 5.1	27 8	- 9.1	25 1	-11.1
21 0	-10.9	15 23	+ 7.0	20 2	- 9.1	19 19	+ 7.0	24 11	- 5.9	27 11	- 6.7	25 2	- 9.6
21 1	-20.2	16 2	- 8.6	20 3	- 7.0	19 21	+ 5.1	24 13	+ 9.3	28 10	- 6.5	25 3	- 5.9
21 2	- 6.5	16 3	-14.1	20 9	- 5.6	20 1	- 6.8	24 19	+ 8.9			28 3	- 8.5
21 4	- 8.6	16 4	-11.1	20 13	+ 6.3	20 2	-11.5	24 20	- 8.1	APRIL.		28 4	- 7.7
21 10	+ 7.2	16 5	-11.6	20 14	+ 9.8	20 3	-11.5	24 21	- 5.4	2 21	+ 5.2	30 13	- 7.5
21 11	+ 6.9	16 6	-11.5	20 16	+ 5.6	20 21	- 5.0	25 3	- 9.6	3 1	+ 5.4	30 14	- 6.2
21 15	+ 6.2	16 8	-13.6	20 17	+ 5.1	23 0	+ 7.2	25 12	+ 6.3	3 18	+ 6.0	30 15	+ 8.6
21 21	- 5.8	16 9	-10.4	20 18	+ 7.2	23 3	- 8.5	25 18	+10.1	4 0	- 5.2	30 16	+21.5
										5 10	+ 5.0	30 18	+ 8.6

DISTURBANCES OF THE DECLINATION.

xliii

TABLE XXIX.—continued.

Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.
<b>1845</b>		<b>1845</b>		<b>1845</b>		<b>1845</b>		<b>1845</b>		<b>1845</b>		<b>1845</b>	
<b>MAY.</b>		<b>JUNE.</b>		<b>JULY.</b>		<b>AUG.</b>		<b>SEPT.</b>		<b>SEPT.</b>		<b>NOV.</b>	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
1 6	+ 5.6	23 4	+ 5.2	24 22	+15.7	18 1	- 8.1	8 1	- 5.7	29 15	+ 7.0	1 6	- 8.3
1 7	+ 5.8	23 5	- 8.5	27 18	+ 5.6	18 2	- 5.4	8 14	+ 7.8	29 23	- 5.7	1 10	- 7.2
1 8	+ 6.1	23 6	+ 8.9	28 4	- 5.7	18 23	- 6.3	8 21	+ 5.1	30 23	- 5.4	1 11	- 6.7
1 9	+ 5.4	24 8	+ 6.8	30 7	- 6.0	22 17	+ 8.8	8 23	+ 7.7			4 17	+ 5.5
8 7	+ 5.0	26 22	- 5.2	30 19	- 6.1	22 18	+ 6.1	9 5	+ 5.1			4 22	-10.4
8 21	- 6.6	28 0	- 7.5	30 21	- 5.8	22 19	+10.8	9 14	+ 5.8	OCT.		5 3	- 8.2
11 19	+ 6.0	28 13	- 5.5	30 22	- 5.1	25 0	- 5.5	11 16	+ 5.3	1 0	- 8.0	5 4	-13.7
11 20	+ 5.6	28 15	+11.4			26 3	+ 5.7	11 17	+ 7.5	1 7	- 5.0	5 5	-13.2
13 16	+ 5.1	30 14	+ 8.4	<b>AUG.</b>		26 20	- 6.8	11 18	+ 5.0	2 23	-11.0	5 6	-10.5
14 13	+ 7.4	30 15	+10.5	1 0	+ 5.1	28 21	+12.0	11 20	+ 5.2	3 14	+13.3	5 7	- 8.7
14 19	+ 7.8	30 16	+11.4	1 1	+ 5.9	28 22	+15.7	11 23	- 5.5	7 19	- 7.7	5 8	- 8.5
14 20	+ 6.0	30 18	+ 5.8	1 2	+ 8.4	28 23	+10.3	12 1	+ 8.9	9 5	+ 8.0	6 23	+ 8.6
14 21	+ 6.4	30 21	- 5.0	1 5	-10.3	29 1	- 5.3	12 2	+ 7.4	9 11	- 6.5	7 17	+ 8.9
15 2	- 6.0			1 14	+ 5.7	29 10	-11.7	12 14	+ 5.6	9 12	+13.2	7 18	+10.0
16 5	+ 8.3	<b>JULY.</b>		1 15	+18.9	29 13	+ 9.4	15 18	- 5.0	9 13	- 7.0	10 16	+ 7.6
17 12	- 5.7	1 7	+ 5.4	1 16	+ 7.7	29 14	- 5.2	17 15	+ 8.0	9 14	- 6.6	16 23	+18.6
17 15	- 5.7	1 23	- 5.9	1 17	+14.8	29 15	+ 6.6	17 19	+11.6	9 20	+ 6.5	17 1	+ 6.1
19 0	- 5.2	2 19	+ 7.0	1 18	+10.7	29 18	+ 6.9	17 21	+16.3	9 22	+13.6	17 4	+ 5.7
19 2	- 5.6	4 4	+ 6.1	1 19	+ 5.7	29 19	-10.1	17 22	+ 9.6	10 0	- 8.2	17 9	- 6.7
21 17	- 6.9	4 5	+ 5.6	1 20	+ 5.3	29 21	+15.4	18 14	+ 8.2	10 1	- 7.0	17 19	- 7.5
22 6	- 7.3	4 9	- 5.0	2 14	+11.0	29 22	- 6.8	18 18	+ 6.8	10 2	- 8.9	18 15	+13.4
22 7	- 7.9	5 16	+ 6.1	2 16	+ 7.7	30 0	+ 5.5	18 20	+ 6.3	11 1	- 6.8	18 20	- 7.4
22 8	- 6.1	6 22	-10.5	2 17	+10.4	30 3	- 5.3	18 21	+ 8.4	15 5	- 9.0	18 21	- 6.5
22 9	- 5.1	7 6	- 5.7	3 20	-16.7	30 4	- 6.2	18 23	+ 6.8	15 6	- 7.1	18 22	- 5.7
29 23	+ 5.3	7 7	- 8.6	3 22	- 7.4	30 12	+ 8.2	19 0	+ 6.6	16 19	+ 7.0	18 23	- 8.8
30 5	- 5.9	7 8	- 8.0	3 23	-16.2	31 18	-10.6	19 21	+ 9.7	16 20	+12.9	24 16	+ 9.1
30 14	- 5.5	7 9	- 5.3	4 0	-18.1	31 21	- 6.6	20 15	- 5.2	16 21	+12.6	27 19	+10.3
30 17	+ 9.7	7 13	+12.7	4 1	- 5.5	31 23	-10.5	20 16	+12.3	17 1	+ 5.3	27 21	+ 6.5
30 20	-18.4	10 4	+ 5.4	4 2	- 5.2	<b>SEPT.</b>		21 21	- 7.6	17 4	- 6.0	27 22	- 5.5
30 22	+10.0	10 5	+ 6.5	4 4	- 5.2	1 2	+ 6.8	23 6	+ 5.9	17 12	- 5.4	27 23	- 5.4
30 23	+ 6.7	10 6	+ 8.1	4 7	+ 5.0	1 3	+ 5.4	23 18	+ 5.0	20 3	-17.9	28 0	-10.0
31 1	+ 6.7	10 7	+ 7.4	4 11	+ 5.0	1 11	+ 5.2	24 15	- 6.5	20 4	-11.0	28 15	+ 8.4
31 2	+ 9.6	10 8	+ 6.5	4 16	+15.7	1 15	+ 6.4	24 17	+11.6	20 18	+ 5.4	<b>DEC.</b>	
31 11	+ 5.8	11 18	+ 8.6	4 17	+ 6.6	1 16	+ 7.3	24 18	+13.0	20 19	+16.0	1 23	+ 5.5
31 12	+ 6.9	12 6	+ 5.1	5 18	- 5.1	1 17	+11.3	24 19	+12.3	20 20	+11.5	2 20	- 6.3
31 16	+ 5.1	12 7	+ 5.4	5 19	- 6.2	1 18	+10.6	24 20	- 6.9	20 21	+ 5.9	2 21	+ 5.1
		17 2	+ 5.1	6 19	+ 6.9	2 10	+ 8.2	24 21	-14.7	20 22	+10.3	2 23	-16.7
<b>JUNE.</b>		18 21	+ 5.4	6 20	+10.7	2 13	+ 6.5	24 23	+ 9.0	21 1	- 8.2	3 2	+ 5.9
3 23	+ 5.5	19 6	- 6.3	6 22	-13.8	2 15	+ 5.0	25 2	-33.3	21 2	- 6.2	3 4	-22.0
4 0	+ 6.4	19 7	- 5.4	7 13	+12.6	2 18	- 5.0	25 3	-15.7	21 10	- 5.9	3 5	-16.6
4 1	+ 7.4	19 16	+ 7.1	7 15	+22.9	2 23	- 5.5	25 4	- 5.5	21 13	+ 9.4	3 6	- 9.5
4 4	- 8.6	22 23	+ 5.8	7 21	- 6.2	3 0	- 5.4	25 6	-12.6	21 14	+11.3	3 7	- 8.2
4 5	- 7.6	23 16	+ 5.1	8 5	+ 5.5	3 3	- 5.4	25 12	+ 7.0	21 15	+29.3	3 12	- 8.8
4 22	- 9.3	23 18	+ 7.6	8 22	- 5.6	3 4	-10.3	25 16	+31.3	21 16	+16.8	3 13	-10.9
6 9	- 5.4	24 10	+ 5.9	10 20	- 5.3	3 5	- 8.0	25 19	-13.9	24 2	- 6.4	3 14	-12.1
6 10	- 6.6	24 14	+ 6.9	14 22	+ 5.2	3 18	- 7.2	25 23	- 8.1	24 3	- 5.8	3 15	-18.6
10 22	+ 6.3	24 15	+13.6	14 23	+ 6.0	4 13	+ 6.7	26 21	- 7.8	24 17	+ 7.8	4 21	- 8.5
12 8	- 5.2	24 16	+ 7.5	15 0	+ 7.9	6 1	+ 5.5	27 1	-12.9	24 18	+10.6	4 22	- 5.5
17 5	- 6.8	24 17	+12.3	15 2	+ 9.4	6 2	+ 5.3	27 11	+ 8.2	24 19	+12.1	4 23	+ 5.3
17 6	- 6.8	24 18	+ 8.4	15 3	- 8.3	7 20	- 6.1	27 15	+17.3	31 15	+ 6.1	5 1	- 6.1
19 19	- 7.3	24 19	+19.8	15 4	- 9.5	7 21	-12.6	27 17	+ 8.1	31 21	- 5.9	5 3	- 7.1
20 6	- 5.1	24 20	+20.3	17 18	+ 7.6	7 21	-12.6	28 23	- 5.5	31 22	+ 6.3	5 4	- 8.8
20 7	- 5.3	24 21	+12.2	17 20	+ 6.2	7 23	+ 5.1	29 0	- 8.0	31 23	+ 8.0		

TABLE XXIX.—*continued.*

Mean Gëtt. Time.	Disturbance.	Mean Gëtt. Time.	Disturbance.	Mean Gëtt. Time.	Disturbance.	Mean Gëtt. Time.	Disturbance.	Mean Gëtt. Time.	Disturbance.	Mean Gëtt. Time.	Disturbance.	Mean Gëtt. Time.	Disturbance.
<b>1845</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>	
<b>DEC.</b>		<b>JAN.</b>		<b>MARCH.</b>		<b>APRIL.</b>		<b>MAY.</b>		<b>MAY.</b>		<b>JUNE.</b>	
D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.
5 6	-6.3	27 5	-5.1	14 3	-7.3	6 5	+5.5	2 15	+6.1	18 19	+11.6	1 20	+11.2
6 15	+7.1	28 4	-6.0	14 5	-6.0	6 11	-13.6	3 18	+8.2	19 2	-6.7	1 21	+10.8
13 0	-6.2	28 5	-7.7	14 7	-5.8	6 12	+9.4	3 20	+5.1	19 17	+9.0	1 22	+10.1
13 5	-5.9	28 14	+7.0	14 11	+8.5	6 21	-9.0	3 22	+8.7	19 18	+23.4	2 0	+5.5
13 10	-5.2	28 15	+6.0	14 12	+6.4	6 22	-5.4	3 23	+8.3	19 19	-8.4	2 1	+6.5
15 0	-11.6	28 16	+6.6	14 14	+6.5	7 16	-8.3	4 0	+6.3	19 22	-6.8	2 2	+5.5
15 9	-6.5	28 17	+7.8	14 15	+23.8	7 19	-6.8	4 1	+6.5	20 0	-12.7	2 12	+13.7
15 15	+6.1	29 22	-6.1	16 9	-6.4	7 21	-6.0	4 2	+5.0	20 3	-9.6	2 16	-9.9
15 20	-5.4	30 21	-6.1	16 11	-8.4	7 22	-9.0	4 3	+6.9	20 4	-10.6	2 20	+6.9
16 2	-13.0			16 13	+9.8	8 15	+8.6	4 4	+7.3	20 5	-9.2	3 6	+5.7
16 22	-7.9			16 14	-6.3	8 18	-7.5	4 5	-9.2	20 8	+5.0	3 7	+5.1
17 13	+11.5	FEB.		16 16	+5.3	10 20	+6.9	4 11	-8.5	20 10	+5.1	3 8	+7.0
17 20	-5.9	2 1	-5.2	16 17	+14.5	11 11	+6.3	4 13	-5.7	20 11	+6.7	3 11	+5.6
18 0	-6.4	2 22	-6.0	16 18	+6.9	13 0	-9.0	4 14	+6.9	21 4	-6.6	3 15	-5.5
20 13	-6.1	3 21	-8.4	16 20	+6.6	13 3	-8.4	4 15	-5.2	21 5	-5.2	3 20	-5.3
23 5	+5.6	8 18	+8.6	17 1	-16.6	13 13	-5.9	4 16	-17.7	21 20	-7.7	3 22	-5.3
29 17	+11.4	8 19	+9.6	17 2	-13.3	13 15	+14.6	5 11	-5.6	21 21	-8.7	4 6	-7.1
29 18	+6.6	8 20	+8.5	17 10	-10.4	14 1	-12.1	5 12	-5.2	21 22	-6.5	4 16	-5.7
29 23	-5.4	8 21	+8.2	17 13	+6.3	14 2	-10.6	5 13	-9.8	22 23	+13.5	4 18	-7.0
30 1	-8.9	8 22	+8.0	17 14	+15.7	14 9	-5.3	5 18	-5.0	23 0	+6.9	4 20	+6.3
30 2	-10.4	8 23	+5.1	17 15	+11.6	14 10	-5.6	6 13	+5.6	23 1	+7.0	5 15	-5.3
30 3	-5.9	9 3	-36.3	17 16	+5.7	14 11	-5.6	6 17	-5.2	23 2	+6.7	5 17	+5.2
30 4	-9.0	9 4	-7.9	17 18	+8.2	14 19	+5.3	6 22	+5.0	23 16	+14.5	5 18	+5.4
		13 23	+5.1	17 19	+8.2	15 0	+5.0	9 10	-5.4	24 18	+11.0	5 19	-9.3
		15 19	-16.2	17 23	-5.4	15 2	+6.1	11 16	+22.8	24 19	-8.6	6 9	-5.2
<b>1846</b>		15 20	+12.9	18 0	-13.2	15 10	-5.6	11 19	+5.4	24 23	-5.5	6 14	-5.2
<b>JAN.</b>		16 0	-5.8	18 13	+12.7	15 11	-5.6	11 21	-5.5	25 0	-8.9	6 15	+5.7
2 23	-5.7	16 14	+5.1	20 3	+5.1	15 12	-7.5	11 22	-7.6	25 1	-10.6	8 14	+5.6
6 19	-10.3	25 7	-5.6	24 6	-5.2	15 13	+19.1	11 23	-8.2	25 2	-6.7	8 16	+8.1
7 6	-6.4	25 9	-6.6	24 7	-5.4	15 14	-7.3	12 2	+6.3	25 3	-9.9	8 18	+8.9
7 20	-6.6	25 10	-7.5	25 19	-6.6	15 18	+9.1	12 4	-5.8	26 17	-5.2	8 19	+23.1
7 21	-6.3	25 11	-9.5	25 20	+9.3	15 21	+9.8	12 7	+6.1	29 16	+9.9	8 20	+9.9
11 19	+15.7	25 12	-8.1	26 0	-18.0	16 4	-7.4	12 8	+7.3	29 17	+9.8	8 21	+16.2
11 21	+5.8	25 13	-8.7	26 17	+8.0	16 5	-6.1	12 10	+5.5	30 0	+7.3	8 22	+10.1
12 2	-8.0	26 14	+9.3	27 23	-6.7	16 6	-7.9	12 12	-6.2	30 1	+9.8	8 23	+6.4
12 3	-8.8	26 15	+6.6	28 14	+13.3	16 10	+8.8	12 13	-5.8	30 2	+5.9	9 2	+5.3
13 14	+23.2	26 21	+7.6	29 20	-5.3	16 13	+22.9	12 14	-7.7	30 7	-5.5	9 16	+5.3
13 17	+6.9			29 23	-8.3	16 14	+11.9	12 15	+6.2	30 11	+5.9	10 3	+6.4
13 17	+6.9	MARCH.		30 3	+5.4	16 16	+24.5	12 18	-8.6	30 15	+6.2	10 4	+8.5
14 0	-5.4	5 6	+5.6	31 19	+8.7	16 17	+5.2	12 23	-12.9	30 16	-14.3	10 7	+5.1
14 1	-13.0	5 7	+5.6			16 19	-14.3	13 4	+5.7	30 17	+10.4	11 15	-5.1
14 10	+5.4	5 8	+5.5	APRIL.		16 21	+10.5	13 5	+8.1	31 18	+13.0	12 22	+5.7
14 13	+9.1	13 2	-17.3	1 17	+6.3	17 3	-6.4	13 6	+6.7	31 19	+6.4	12 23	+6.8
14 17	-5.0	13 3	-12.5	2 21	+5.8	20 13	-6.7	13 7	+8.9			13 0	+11.3
16 18	+6.4	13 4	-17.1	2 22	+5.6	24 16	+13.5	13 12	+5.8	JUNE.		13 1	+10.6
16 21	+8.2	13 5	-14.1	4 4	+5.0	24 17	+14.1	13 13	+14.2	1 1	-5.7	13 15	+6.7
20 20	+5.1	13 6	-7.2	4 5	+5.0	24 18	+5.1	13 16	+7.3	1 2	-6.8	14 21	-5.9
23 19	+5.5	13 11	-11.7	5 18	+5.3	24 22	+10.8	13 19	-6.8	1 14	+27.0	14 23	-6.8
23 20	+34.5	13 12	-7.8	5 19	+5.3	25 14	+5.1	14 13	+7.4	1 15	+8.8	15 1	-7.5
23 21	+14.2	13 19	+9.8	6 0	-6.2	27 4	-7.1	15 4	+5.4	1 16	+5.5	15 6	+7.5
23 22	+18.3	13 20	+10.8	6 1	-22.1	28 15	+5.4	16 6	+5.3	1 17	+7.6	15 13	+6.6
23 23	+10.1	14 0	+8.8	6 2	-37.6	30 20	-5.6	16 17	-5.2	1 18	+14.4	15 15	+8.5
24 1	+5.8	14 2	-7.5	6 3	-24.7	30 21	-5.0	18 18	+10.0	1 19	+11.9	15 16	+5.3

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.
<b>1846</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>		<b>1846</b>	
<b>JUNE.</b>		<b>JUNE.</b>		<b>JULY.</b>		<b>JULY.</b>		<b>AUG.</b>		<b>AUG.</b>		<b>AUG.</b>	
D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.
15 17	+ 6.6	30 16	+10.5	11 4	- 6.0	25 12	- 5.8	6 18	+ 6.3	13 20	+14.0	24 15	+13.6
15 19	- 9.7	30 17	+ 9.4	11 5	+ 5.5	25 13	+ 5.8	6 20	- 9.0	13 21	+ 5.9	24 16	+ 6.9
15 20	- 9.0			11 6	+ 6.1	27 9	- 5.4	6 21	-18.6	14 1	+ 8.4	24 18	+18.6
15 21	- 5.4			11 8	- 7.5	27 17	+ 6.2	6 22	- 5.1	14 3	-12.2	25 12	+10.4
16 0	- 5.1	<b>JULY.</b>		11 15	+12.0	28 5	- 5.1	7 0	- 6.6	14 4	-13.1	25 22	- 8.6
16 1	-11.8	1 14	+ 7.4	11 16	+11.1	28 22	+ 5.3	7 6	+ 9.5	14 5	-11.4	26 2	+ 6.1
16 12	+10.7	1 18	- 6.5	11 17	+10.8	29 0	+ 7.8	7 7	+ 5.7	14 15	+34.0	26 3	+ 5.9
16 13	+17.9	1 20	+ 5.5	12 21	- 8.3	29 1	+ 6.4	7 9	+10.3	14 16	+ 8.1	26 17	+11.2
16 16	+10.3	1 22	+11.8	13 0	- 5.2	29 4	- 7.8	7 16	+13.6	14 17	+12.3	26 18	+ 5.9
16 22	-12.5	2 0	- 7.2	13 13	+ 6.4	29 5	- 7.9	7 18	+ 6.1	14 18	-27.2	27 9	- 5.5
17 10	+ 5.7	2 1	+ 6.6	13 21	- 7.5	29 6	-12.9	7 19	-33.7	14 19	- 7.6	27 13	- 5.1
17 21	- 5.8	2 6	+ 6.5	13 22	-21.2	29 13	+ 9.5	7 20	+ 8.6	14 20	-21.2	27 14	- 6.3
18 9	+ 5.6	2 16	+ 6.5	13 23	-17.1	30 0	- 8.0	7 23	-13.6	14 21	+ 6.4	27 16	- 5.4
18 15	+20.7	2 17	+ 5.8	14 13	- 5.3	30 1	-10.6	8 0	- 6.6	14 23	-12.3	27 18	- 7.1
18 19	+11.1	2 19	+ 7.9	14 18	+22.0	30 9	- 5.8	8 1	- 9.1	15 0	-12.6	27 19	-11.1
18 20	+ 6.1	2 20	+ 9.5	14 19	+21.6	30 10	- 8.8	8 4	+ 8.8	15 3	- 5.9	27 21	+ 7.1
19 3	- 5.0	2 21	+11.9	14 20	+ 6.7	30 11	-11.9	8 5	+ 8.4	15 12	+30.4	27 23	+ 5.9
19 4	- 6.5	2 22	+17.7	14 23	- 9.7	30 12	- 7.8	8 6	+ 6.8	15 13	+ 9.6	28 5	- 6.6
19 16	- 5.4	3 6	+ 6.4	15 3	+ 5.3	30 14	- 6.3	8 7	+ 5.3	15 17	- 5.6	28 6	- 6.0
19 17	- 5.2	3 7	+ 5.1	15 5	+ 6.7	30 15	+18.1	8 8	+ 7.5	16 18	+ 9.1	28 10	+11.4
21 19	- 5.4	3 15	+11.4	16 1	- 9.1	30 17	+ 5.4	8 9	+ 8.3	16 19	+ 8.9	28 11	+ 8.2
21 20	- 5.1	3 16	+13.2	16 21	- 6.5	30 18	- 5.8	8 13	+16.8	17 0	+ 5.4	28 12	- 7.2
21 21	- 5.4	3 17	+16.4	16 22	- 9.5	30 19	- 8.4	8 17	+ 8.1	17 14	+ 6.7	28 13	- 6.2
21 22	- 7.7	3 21	+ 9.3	18 7	- 5.1	31 3	- 6.5	9 19	+12.4	17 15	+11.6	28 14	- 5.6
21 23	+ 9.8	3 22	+ 9.5	18 10	+ 8.3	31 15	-10.4	9 20	+ 9.3	17 17	- 5.1	28 16	+19.0
22 0	+ 9.3	3 23	+ 6.7	18 11	+ 5.9	31 18	-11.4	9 21	-12.3	18 14	+11.4	28 20	- 6.6
22 1	+ 7.2	4 0	+11.2	18 14	+ 9.3	31 20	- 7.7	10 0	- 7.8	19 0	- 6.0	28 22	- 7.6
22 2	+ 5.5	4 1	- 6.4	18 17	- 5.0	31 21	-12.5	10 1	- 8.6	19 6	- 5.6	29 6	+ 7.3
22 12	+ 5.0	4 2	- 6.7	19 20	- 7.5			10 5	+ 5.2	19 19	-11.0	29 11	+ 6.8
22 13	+31.1	4 4	- 6.5	19 21	+ 5.1			10 20	+ 7.2	20 4	- 5.5	29 13	- 5.7
22 14	+ 5.4	4 15	- 7.4	20 14	+ 8.7	<b>AUG.</b>		11 3	+ 7.1	20 15	- 6.4	29 14	- 9.1
22 15	+10.5	5 18	- 5.0	20 18	+ 5.6	1 2	- 5.3	11 4	+ 7.1	20 16	- 5.2	29 15	- 6.7
22 21	- 7.4	5 19	- 6.3	20 19	- 8.4	1 3	- 7.9	11 5	+ 7.0	20 17	- 6.3	29 16	- 6.6
22 22	- 9.6	5 20	-11.7	20 20	- 6.1	1 13	+ 9.0	11 6	+ 5.0	20 18	- 5.3	30 18	+ 7.5
23 22	- 9.7	6 0	- 5.2	20 23	- 8.7	1 15	- 7.2	11 15	+ 7.2	21 14	- 6.7	30 19	+ 6.9
23 23	- 7.4	6 3	+ 5.5	21 5	+ 5.5	1 16	- 5.4	11 17	- 6.1	21 15	- 7.4	31 14	+ 7.9
24 2	- 5.9	6 6	- 8.9	21 6	+ 5.9	1 17	- 8.9	12 3	- 6.7	21 22	+ 5.0	31 17	- 5.1
24 3	- 6.0	6 11	+ 7.3	21 18	+14.2	2 18	-10.7	12 4	- 6.7	21 23	+ 7.2	31 18	- 5.9
24 22	-11.1	6 14	+ 9.5	21 19	+10.0	3 14	+13.5	12 5	- 8.2	22 0	+ 8.1		
25 13	+ 6.1	6 15	- 8.9	22 7	- 5.4	3 17	- 5.3	12 9	+ 6.5	22 1	+ 5.4		
26 12	- 5.3	6 17	+ 5.8	22 22	- 5.9	4 23	+ 5.1	12 13	- 5.2	22 2	+ 6.1	<b>SEPT.</b>	
27 9	- 6.2	6 18	+ 5.9	24 8	-10.1	5 13	+ 7.2	12 15	+ 7.7	22 5	- 6.6	1 18	+ 5.7
27 10	- 6.5	7 2	+ 8.3	24 9	- 8.4	5 15	- 5.6	12 17	+ 5.8	22 10	- 5.8	3 1	+ 5.7
27 11	- 6.4	7 8	+ 7.7	24 10	- 7.2	5 16	- 8.2	12 19	+ 6.9	22 15	- 8.2	3 2	+ 5.0
27 12	- 5.1	7 13	+ 7.1	24 11	- 8.1	5 17	- 5.0	12 20	+ 7.0	22 16	- 6.4	3 13	- 6.1
27 14	- 7.1	7 17	- 9.2	24 12	- 6.0	5 18	- 6.7	12 21	+ 5.1	23 23	+ 5.1	3 14	- 7.2
27 16	- 6.9	7 18	+ 5.8	24 13	- 8.7	5 21	+ 9.9	13 1	-20.4	24 2	+ 6.9	3 16	- 6.0
29 9	- 5.2	7 23	- 6.7	24 15	- 6.4	5 22	+10.2	13 2	-17.3	24 3	+11.3	3 18	+ 7.7
29 10	- 6.3	10 21	+ 7.7	24 22	- 8.5	5 23	+ 9.3	13 3	-12.9	24 5	+ 9.6	3 20	+ 9.1
29 15	+13.9	10 22	+17.5	25 4	+ 5.9	6 14	+16.5	13 4	- 6.1	24 9	- 6.2	3 21	+ 5.9
30 3	+ 6.2	10 23	+24.7	25 5	+ 6.3	6 15	+53.6	13 17	+14.3	24 11	- 9.1	3 22	+ 8.8
30 4	+ 5.2	11 0	+13.6	25 7	+ 5.5	6 16	+23.6	13 18	+10.1	24 12	+ 7.6	4 0	-18.1
30 15	- 5.7	11 3	-11.5	25 10	+ 5.4	6 17	+15.3	13 19	+ 9.9	24 13	- 6.2	4 2	- 6.7

TABLE XXIX.—continued.

Mean Göt. Time.	Disturbance.	Mean Göt. Time.	Disturbance.	Mean Göt. Time.	Disturbance.	Mean Göt. Time.	Disturbance.	Mean Göt. Time.	Disturbance.	Mean Göt. Time.	Disturbance.	Mean Göt. Time.	Disturbance.
<b>1846 SEPT.</b>		<b>1846 SEPT.</b>		<b>1846 SEPT.</b>		<b>1846 OCT.</b>		<b>1846 OCT.</b>		<b>1846 NOV.</b>		<b>1846 DEC.</b>	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
4 3	+ 5.0	12 8	+ 8.1	22 3	-33.8	2 14	+13.1	10 4	- 8.2	2 2	-15.4	1 23	- 8.2
4 11	+ 9.0	12 10	+ 7.9	22 4	-11.1	2 15	+23.5	10 15	- 5.8	2 3	-16.4	2 2	- 7.0
4 14	+12.2	12 11	+ 6.4	22 5	- 9.3	2 16	+ 5.8	10 16	- 5.4	2 5	- 8.0	3 19	+ 7.9
4 20	- 5.9	12 14	+ 8.3	22 6	+ 5.7	2 17	+ 6.4	10 17	- 5.8	2 6	- 6.6	4 5	- 8.4
4 21	-10.9	13 21	+11.9	22 7	+13.2	2 19	+ 5.6	11 20	+ 5.2	3 2	- 9.6	4 6	- 6.7
4 22	-15.2	13 22	+ 6.1	22 10	- 9.8	2 20	+10.6	12 0	+ 5.0	3 3	- 5.8	4 16	+ 9.2
4 23	- 6.5	14 0	+ 6.7	22 12	+12.7	2 21	+ 8.8	12 2	-12.8	6 14	+ 6.4	9 12	-11.1
5 0	+12.9	14 2	- 5.5	22 15	+ 9.1	2 22	+11.7	12 3	- 9.0	7 2	+ 5.6	9 13	-11.5
5 1	- 5.9	14 13	+ 7.7	22 16	+ 8.7	2 23	+10.9	12 12	+ 5.5	7 4	+ 5.5	9 14	+ 8.9
5 5	- 6.9	14 16	+ 9.3	22 17	+10.5	3 0	+ 6.4	12 16	- 7.4	7 5	+ 5.2	9 16	+10.8
5 10	+ 5.8	14 17	+ 7.7	22 18	+13.5	3 1	+ 7.4	12 17	- 5.0	7 9	- 5.3	9 17	+ 7.9
5 11	- 6.6	14 19	+ 7.0	22 20	- 5.9	3 2	+ 5.2	13 10	+ 6.3	7 10	- 6.8	9 18	+ 6.0
5 12	+38.9	14 21	+ 6.3	23 10	- 5.6	5 4	- 6.6	13 13	+ 7.8	12 4	+ 6.1	11 1	- 6.6
5 13	+ 5.9	15 1	- 7.7	23 11	- 7.0	5 17	- 5.0	13 15	+11.3	12 5	+ 6.0	11 20	+ 7.4
5 14	+20.1	15 9	+ 5.8	23 12	-15.0	6 5	- 5.4	15 15	- 6.2	13 23	-15.8	11 21	+ 8.4
5 15	+12.6	15 10	+ 6.1	23 13	- 7.1	6 6	- 6.4	15 16	+13.8	17 7	-17.4	12 16	+13.6
6 19	-10.8	15 11	+ 7.5	23 14	- 5.2	6 12	+ 7.1	15 17	+ 8.8	17 8	-23.1	14 22	+ 6.7
6 22	- 7.4	16 14	+11.3	24 11	- 5.6	6 19	+ 5.4	15 19	+ 8.2	17 9	-14.3	23 13	+19.5
7 7	+ 5.3	16 22	- 6.4	24 12	- 5.9	7 1	+ 6.2	15 22	-11.4	17 10	-11.1	23 14	+ 7.8
7 10	+ 5.0	16 23	+ 6.2	25 3	+ 6.8	7 2	+ 7.2	15 23	+ 5.3	17 18	+ 7.7	23 15	+ 7.8
8 2	- 6.9	17 0	+ 9.1	25 15	+12.6	7 4	+ 5.5	16 15	- 5.0	17 19	+ 9.7	23 16	+ 5.5
8 8	+ 6.3	17 1	+ 7.5	25 18	- 7.5	7 6	- 6.9	19 4	+ 5.2	17 22	+10.5		
8 9	+ 7.6	17 10	+ 5.7	25 21	- 5.9	7 7	- 7.1	19 11	- 5.2	17 23	- 9.8		
8 17	- 8.4	17 21	-10.5	26 5	+ 5.0	7 10	- 6.1	19 13	- 7.8	18 0	+ 5.4	<b>1847</b>	
9 1	+ 6.7	17 23	+ 5.3	28 7	+ 5.9	7 11	-11.2	19 14	+ 7.3	18 4	- 9.7	<b>JAN.</b>	
9 16	- 5.3	19 9	- 7.0	28 12	+ 8.7	7 15	+35.8	19 16	+27.8	18 5	- 7.2	1 22	+ 7.3
9 17	- 6.5	19 10	- 7.1	29 12	- 5.3	7 16	+10.4	20 1	+ 5.6	20 11	+15.7	3 21	- 7.2
10 5	- 5.2	20 19	-12.4	30 5	+ 5.2	7 18	+23.1	20 2	+ 8.0	20 12	- 6.4	4 19	-15.3
10 6	- 5.2	20 22	+ 8.8	30 10	- 6.1	7 21	+ 5.4	20 3	+ 5.8	21 15	+11.9	4 20	+ 5.2
10 8	- 5.9	20 23	+ 8.7	30 11	- 5.2	7 22	+ 7.2	20 4	+ 6.0	25 23	+ 5.6	5 14	+ 6.0
10 9	- 8.4	21 0	+ 6.9	30 12	- 5.3	8 1	-42.1	21 2	+ 5.0	26 1	+ 7.1	6 3	+ 5.0
10 10	- 7.3	21 1	+ 8.7	30 13	- 8.3	8 2	-19.5	21 4	+ 5.3	26 2	+ 6.4	6 4	+ 5.0
10 19	+ 7.4	21 2	+ 5.3	30 14	- 7.7	8 4	- 9.8	21 16	+17.4	26 3	+ 8.1	12 2	- 8.2
10 20	+ 7.3	21 3	+ 5.2	30 15	- 6.4	8 5	- 8.4	21 17	+ 7.4	26 4	-14.8	12 23	- 6.7
10 21	+ 8.1	21 4	+ 6.7	30 16	- 5.4	8 7	- 5.6	21 22	- 8.6	26 5	- 6.6	19 22	+ 5.5
10 22	+13.2	21 5	+ 6.2	30 19	+ 9.7	8 12	+ 5.3	22 3	- 6.7	26 16	+ 8.5	20 14	+10.1
10 23	+ 7.3	21 9	- 7.6	30 20	+ 6.1	8 13	+ 8.0	22 12	+13.1	26 17	+ 8.8	20 18	- 7.1
11 0	-32.7	21 10	-13.6	30 22	- 5.0	8 20	- 8.4	22 16	- 5.2	26 20	-16.5	28 14	- 6.4
11 1	- 5.8	21 11	- 5.8			9 8	- 5.6	22 20	- 5.4	26 22	+ 9.2	28 21	+16.6
11 2	- 6.1	21 12	- 6.1			9 12	+10.1	22 21	- 8.2	27 2	- 7.8	28 22	+10.1
11 3	- 7.4	21 13	+ 6.0			9 13	+ 5.4	23 17	+ 6.0	27 3	-11.5	29 3	- 6.3
11 4	- 9.3	21 14	- 6.3	<b>OCT.</b>		9 14	+ 7.7	24 12	- 5.5	27 13	+24.7	29 10	- 6.5
11 10	+ 8.4	21 15	-11.3	1 5	- 6.1	9 15	+ 7.9	24 15	+10.4	27 16	+ 5.5	29 11	- 7.7
11 11	+ 9.4	21 17	+ 7.9	1 12	+10.9	9 16	+ 6.8	25 23	- 5.9	27 22	- 6.6	29 12	-11.9
11 13	+38.1	21 18	+ 5.2	1 13	+ 8.0	9 17	+16.6	26 4	+ 6.0	27 23	- 7.1	30 6	+ 6.4
11 14	+ 5.0	21 19	+22.4	1 17	- 5.3	9 18	+12.9	27 3	+ 6.4	28 11	+ 6.7	30 9	- 8.5
11 17	+ 7.3	21 20	+15.7	1 20	- 8.6	9 19	+31.0	27 5	+ 5.6	28 13	+16.9	30 11	- 5.5
11 18	-10.5	21 21	+22.1	1 23	- 7.6	9 21	- 5.2	28 5	+ 5.2	28 15	+11.9	30 14	+ 8.2
11 19	- 5.0	21 22	+40.0	2 0	- 9.8	9 22	+14.0	30 0	- 6.2	29 19	- 6.1	30 15	- 5.4
11 20	- 7.3	21 23	-15.3	2 3	-10.0	10 0	-10.3	30 2	+15.0	30 1	- 5.0		
11 21	-12.7	22 0	-28.9	2 9	- 6.9	10 1	-16.8	30 6	+ 5.4	30 3	- 8.2	<b>FEB.</b>	
12 4	- 6.3	22 1	-27.1	2 11	- 7.7	10 2	-14.6	30 7	+ 5.0	30 14	+ 5.9	1 4	- 6.6
12 5	- 6.0	22 2	-44.7	2 12	-13.5	10 3	-12.1	30 19	- 6.0	30 19	- 7.3	3 9	- 5.5

DISTURBANCES OF THE DECLINATION.

TABLE XXIX.—continued.

Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.	Mean G $\ddot{u}$ tt. Time.	Disturbance.
<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>	
<b>FEB.</b>		<b>MARCH.</b>		<b>MARCH.</b>		<b>APRIL.</b>		<b>APRIL.</b>		<b>MAY.</b>		<b>JUNE.</b>	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
5 23	+11.0	1 1	+5.5	19 18	+20.4	7 8	-6.2	20 9	-10.1	7 22	-14.8	1 7	-6.8
6 2	+7.7	1 2	+8.0	19 20	+7.4	7 10	-6.9	20 10	-17.2	7 23	-12.6	1 12	-5.0
6 5	-15.3	1 7	-6.4	20 2	+5.1	7 11	-8.0	20 11	-10.8	8 0	-23.4	1 23	-9.8
6 12	+8.2	1 8	-7.0	20 13	+5.7	7 13	-12.6	20 12	-8.0	8 1	-22.6	2 0	-6.2
6 15	+13.8	1 9	-9.2	20 17	+28.3	7 14	-15.5	20 13	-7.1	8 2	-16.7	3 15	+9.3
6 16	+10.4	1 10	-8.6	22 20	-5.6	7 15	+19.3	20 19	+5.4	8 3	-16.7	3 19	-7.1
8 5	+5.1	1 11	-9.3	22 23	+6.0	7 16	-12.6	20 20	+8.4	8 6	+5.3	4 6	+5.8
8 14	+7.6	1 12	-10.0	23 12	-6.7	7 17	+7.5	21 1	-42.2	8 7	+10.2	7 15	+6.4
8 17	+6.6	1 13	-9.6	23 14	+16.4	7 18	+5.1	21 2	-38.9	8 8	+9.0	7 16	+5.2
8 18	+5.6	1 17	+6.9	23 20	+8.3	7 19	+41.0	21 3	-23.6	8 9	+9.7	7 17	+6.1
15 15	+5.7	4 11	-6.7	23 21	+7.3	7 21	-30.1	21 4	-18.5	8 10	+7.6	7 19	+6.1
15 22	-8.9	4 12	-11.5	24 1	-5.2	7 22	+18.5	21 5	-6.9	8 11	+5.1	7 21	+11.6
16 2	-6.2	4 13	-8.8	24 2	-8.9	7 23	+9.4	21 11	+19.0	9 20	-5.9	7 22	+6.9
18 3	+6.5	4 14	-11.1	24 3	-5.6	8 0	+11.5	21 12	+16.6	12 4	-5.7	7 23	+7.4
18 4	+5.4	4 15	+11.5	24 12	+8.1	8 1	+7.4	21 17	-5.6	12 5	-5.6	8 1	+5.5
21 20	-7.7	4 16	+5.3	24 18	-17.9	8 2	+6.6	21 18	-5.0	12 6	-6.1	8 20	-5.4
21 21	+10.2	5 13	+10.2	24 19	-8.0	8 20	-7.0	22 8	+5.3	13 5	-5.2	8 23	+7.2
21 22	+8.1	6 17	+7.2	25 17	-5.5	8 21	-8.5	26 9	+5.8	13 6	-7.5	9 4	-6.0
21 23	+12.4	7 18	+5.7	29 21	-6.6	9 1	+6.2	26 13	+5.0	13 7	-5.8	10 1	-8.7
22 2	-9.8	7 21	+5.5	30 0	+5.0	9 2	+5.2	27 1	+5.6	14 22	+9.8	10 6	-11.9
22 3	-13.0	7 22	+8.2	30 2	+5.1	9 8	+6.0	28 13	+5.6	14 23	+26.4	10 16	+6.3
22 4	-8.8	8 15	+9.0	31 11	+5.4	9 9	+5.9	28 19	+7.1	15 0	+13.6	11 14	+23.2
22 10	-6.6	8 19	+6.1			12 10	-7.6	28 20	+14.6	15 1	+10.3	12 9	-6.0
22 12	-11.8	8 22	-14.8	<b>APRIL.</b>		13 19	-6.3	28 22	-13.6	15 2	+10.2	12 11	-7.3
22 13	-8.0	9 1	-6.2	1 4	+5.3	14 11	-7.4	29 1	+8.6	15 5	-10.9	12 12	-10.0
22 14	-5.4	9 2	-15.4	3 0	-7.5	15 5	-5.1	29 2	+8.2	15 6	-6.6	12 13	+5.4
22 15	-14.5	9 7	+5.3	3 3	-5.0	15 6	-5.4	29 10	+9.8	15 7	-10.1	12 14	+10.8
22 16	+8.6	10 1	-5.2	3 4	-7.1	15 21	+8.1	29 11	+9.9	15 8	-5.9	12 16	+7.8
22 17	+5.5	10 8	+6.1	3 6	-5.1	15 22	+6.2	29 13	+11.4	15 9	-5.0	12 17	+7.0
22 18	-20.8	12 19	+5.0	3 7	-6.4	15 23	+5.6	29 14	+7.5	15 13	+5.2	13 18	+20.4
22 19	+11.8	12 22	+5.5	3 8	-5.2	16 0	+6.5	29 15	-8.7	15 14	-10.5	13 20	+7.4
22 20	+9.1	13 11	-5.1	3 9	-8.3	16 1	+8.8	29 20	-15.0	15 16	+9.5	14 1	-9.3
24 3	-5.5	14 22	-7.6	3 10	-7.4	16 2	+6.6	29 21	+6.8	17 21	-6.6	15 3	+5.2
24 8	-5.2	18 6	-5.2	3 12	-8.8	16 5	-5.1	29 22	+10.2	18 4	+7.6	15 4	+8.6
24 10	-5.0	18 7	-5.1	3 13	+12.8	16 7	-5.2	29 23	+5.8	18 5	+6.7	15 16	+6.0
24 12	+9.0	18 15	+5.5	3 14	-6.4	16 17	+6.4	30 15	-6.7	18 20	-8.2	16 21	-5.4
24 13	+7.5	18 18	+8.3	3 15	+14.9	16 18	+5.1	30 17	+7.0	19 15	+5.7	17 13	+8.2
24 15	+10.7	18 19	+11.2	3 16	+23.2	16 20	-11.4	30 18	+7.1	19 17	+6.4	17 17	+5.7
24 16	+11.4	18 20	+11.3	3 17	+9.2	17 0	-5.5			20 4	-7.3	17 19	-5.5
24 17	+8.3	19 0	+5.4	4 21	-5.0	17 1	-5.1			20 5	-5.6	17 20	-5.0
24 19	+5.3	19 1	-51.2	4 22	-6.8	17 3	+6.4	<b>MAY.</b>		20 11	+6.7	18 10	+5.2
24 20	-6.3	19 2	-42.7	5 2	+5.0	17 4	+6.0	1 4	+6.5	20 23	+5.0	18 14	+5.4
24 21	+6.6	19 3	-14.0	5 4	+5.0	19 19	+7.9	1 5	+5.2	26 0	+5.1	21 9	-5.0
25 1	+5.2	19 4	-6.6	5 12	+5.2	19 20	-17.7	1 9	+5.2	27 0	+6.2	21 11	-5.4
25 17	+11.8	19 5	-7.2	5 14	+8.2	19 21	+7.3	6 12	+6.1	27 13	-6.1	21 23	-6.8
25 18	+10.1	19 9	+20.0	5 17	-9.4	20 0	-9.2	6 21	-8.6	27 17	+11.0	26 5	-5.2
25 19	+7.8	19 10	+11.5	6 2	+6.6	20 1	-22.7	7 14	+18.7	28 15	+5.3	28 12	+5.0
25 22	-6.1	19 12	+21.6	6 3	+5.0	20 2	-25.7	7 16	+10.8	28 18	+12.5	29 19	+8.7
26 11	+5.6	19 13	-11.7	6 15	+6.3	20 3	-20.4	7 17	+19.2	28 19	-29.2	29 21	-10.7
26 12	+5.2	19 14	-5.6	6 16	-6.0	20 4	-15.3	7 18	+13.1	28 23	+10.5	30 15	+8.3
26 20	+5.1	19 15	+16.4	7 1	+5.2	20 5	-10.3	7 19	-98.8	29 0	+6.9	30 16	+10.0
27 14	+8.6	19 16	+19.6	7 2	+7.0	20 6	-7.2	7 20	+19.3	29 4	-5.3	30 19	+5.7
		19 17	+48.1	7 4	+5.0	20 8	-11.0	7 21	+6.8	31 5	+5.8		



TABLE XXIX.—continued.

Mean Göttingen Time.	Disturbance.	Mean Göttingen Time.	Disturbance.	Mean Göttingen Time.	Disturbance.	Mean Göttingen Time.	Disturbance.	Mean Göttingen Time.	Disturbance.	Mean Göttingen Time.	Disturbance.	Mean Göttingen Time.	Disturbance.
<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>		<b>1847</b>	
<b>JULY.</b>		<b>JULY.</b>		<b>AUG.</b>		<b>SEPT.</b>		<b>SEPT.</b>		<b>SEPT.</b>		<b>OCT.</b>	
d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.	d. h.	Sc. Div.
1 6	+ 5.2	26 4	- 8.3	17 1	+ 7.4	4 2	+ 5.8	17 21	+ 7.0	27 16	- 5.0	14 6	- 5.3
5 20	+ 5.8	26 6	- 7.7	17 4	+ 5.5	4 8	+ 6.8	18 1	+ 5.9	28 12	+21.7	14 19	+ 6.9
5 21	+11.7	26 15	+ 6.5	17 15	- 5.2	4 9	+ 5.0	18 2	+ 5.3	28 13	+13.8	15 2	- 9.2
5 22	+ 6.9	27 11	+ 5.9	18 10	- 7.4	4 10	+ 6.3	18 3	+ 7.5	28 14	- 7.5	15 12	+13.7
5 23	+ 5.8	27 12	+ 5.4	18 11	- 5.9	4 14	+15.6	20 17	+ 9.3	28 18	- 8.3	15 21	+ 6.9
6 16	+ 8.1	27 19	+ 9.0	18 15	+15.4	4 15	+ 5.3	20 19	+ 6.5	28 21	- 6.9	16 17	+ 5.2
6 23	-16.9	27 20	+ 9.2	19 10	- 5.4	4 17	- 6.2	20 20	+ 6.4	28 22	- 6.4	17 18	+ 8.0
7 5	- 9.9	28 4	- 6.4	20 3	- 5.3	6 15	+ 8.4	21 18	- 6.6	29 3	+ 8.2	17 19	+11.2
7 6	- 8.8	29 21	+ 5.7	20 7	+ 5.6	6 16	+ 6.4	22 4	- 6.0	29 4	+ 5.3	17 20	+ 7.8
7 16	+16.1	30 15	+ 6.4	20 8	+ 7.9	6 18	+ 6.4	22 9	+ 5.0	29 5	+ 6.5	17 22	+11.6
7 17	+12.1	30 16	+ 6.2	22 19	- 5.2	7 3	+ 5.1	22 10	+ 5.1	29 6	+ 8.3	18 0	+ 7.8
8 2	- 6.4	30 17	+12.5	23 21	+ 5.5	8 5	+ 7.2	22 19	+ 5.9	29 7	+17.3	18 2	- 6.6
8 3	- 8.7	31 3	+ 5.3	24 19	+ 7.2	9 2	-10.3	23 2	-11.9	29 9	- 9.0	18 3	- 9.4
8 13	+ 5.6	31 16	+ 5.1	25 1	- 6.3	9 3	- 6.9	23 3	-18.4	29 10	- 5.7	18 4	-13.6
9 10	-10.2			25 2	- 8.2	9 4	- 8.9	23 4	-13.7	29 11	+ 5.3	18 11	+ 9.4
9 11	- 6.8	<b>AUG.</b>		25 4	- 6.2	9 6	- 8.4	23 5	- 9.5	29 12	+ 9.2	18 12	+ 7.5
9 12	-10.5	2 4	+ 7.1	25 5	- 5.2	9 7	- 9.2	23 6	- 6.6	29 14	+19.0	19 1	- 6.6
9 14	- 5.7	2 5	+ 6.6	25 17	+ 8.7	9 8	- 6.8	23 9	+ 5.9	29 16	+ 7.6	19 2	- 6.4
9 15	-30.5	3 6	+ 7.0	25 18	+ 7.5	9 9	- 7.2	23 10	+ 5.2	29 17	+ 7.8	19 4	- 8.0
9 16	+13.5	3 7	+ 5.4	25 19	+ 8.0	9 10	- 5.7	23 18	+11.4	29 19	+ 6.3	19 16	+ 9.9
9 17	+15.7	3 15	- 6.1	25 21	+ 6.8	9 18	- 5.6	23 20	+ 8.3	29 20	- 6.6	20 19	- 5.3
9 18	+10.1	4 1	+ 6.9	25 22	+ 5.6	10 15	+ 5.1	23 21	+11.2	30 4	+11.1	22 10	- 8.5
9 19	+15.9	4 8	+ 5.0	27 21	+ 6.3	11 15	+ 5.2	23 22	+26.6	30 5	+10.4	22 20	+22.1
9 23	+ 6.6	4 16	+16.6	28 6	- 5.4	12 20	+ 7.0	23 23	- 9.6	30 6	+10.4	22 21	-26.5
10 3	+ 5.5	4 17	+ 5.6	28 14	+11.8	12 21	+10.4	24 1	-299.3			22 22	+18.3
10 4	+ 7.0	4 19	+ 6.6	31 3	+ 6.1	12 22	+ 5.2	24 2	-36.2	<b>OCT.</b>		22 23	+26.1
10 6	+ 5.7	4 20	+10.0	31 4	+ 6.9	12 23	+14.2	24 3	-32.3	1 6	+ 5.9	23 0	+22.8
10 8	+ 7.3	4 22	+14.1	31 6	+ 6.6	13 2	-18.3	24 5	+47.0	2 4	- 7.6	23 1	-59.2
10 14	+ 7.7	4 23	+ 7.7	31 7	+ 6.2	13 3	-17.1	24 6	-22.2	5 11	- 6.2	23 2	+24.6
10 15	+ 5.6	5 13	+11.9	31 9	+ 6.5	13 4	-10.7	24 7	+24.1	5 12	- 7.7	23 4	+13.7
11 20	-13.5	5 15	+14.6	31 10	+ 9.6	13 5	-14.8	24 8	-13.5	7 20	+ 6.1	23 5	+15.8
11 21	- 7.1	5 16	+ 8.6	31 11	+13.0	13 6	- 5.0	24 9	- 6.3	7 21	+11.7	23 6	+13.7
12 14	+11.5	5 17	+ 6.1	31 12	+13.5	13 7	- 6.2	24 11	+13.2	7 22	+ 9.8	23 11	+11.4
12 19	-13.1	5 20	- 5.4	31 13	+12.0	13 10	+ 5.1	24 12	+ 6.7	8 0	+ 5.9	23 12	+11.5
13 14	+12.7	5 21	-10.6	31 14	+11.7	13 14	+ 7.5	24 14	+ 5.1	8 7	- 5.1	23 14	+ 5.2
16 10	- 5.0	6 3	+ 5.3	31 15	+ 9.9	13 17	+ 8.9	24 17	- 5.5	8 8	- 6.6	23 16	- 5.1
16 11	- 5.3	6 18	+ 6.3	31 16	+10.2	13 18	+ 7.0	24 18	-11.2	8 9	+ 7.9	23 17	-30.6
16 12	- 6.1	6 22	- 5.9	31 17	+ 7.3	15 1	+ 5.4	24 19	- 6.7	8 10	- 8.6	24 18	-77.7
16 22	- 9.7	6 23	- 8.8	31 18	+10.5	15 2	+ 6.0	24 20	-10.6	8 11	- 9.3	24 20	+62.8
17 1	- 7.4	7 10	+10.4	31 19	+ 9.2	16 1	+ 7.6	25 7	- 5.3	8 12	-15.7	24 21	+19.1
17 2	- 7.0	7 12	+15.8	31 20	+10.4	16 2	+10.5	25 14	- 5.0	8 13	- 6.2	24 22	-37.1
17 8	- 6.2	7 14	+ 8.2	31 21	+10.7	16 3	+ 9.1	26 18	+ 7.2	8 18	-15.9	24 23	+ 9.6
21 7	- 7.5	7 15	+12.5	31 22	+ 8.8	16 4	+ 9.1	26 19	+16.3	9 4	+ 9.6	25 1	- 6.1
21 18	+15.1	8 18	- 5.3	31 23	+ 8.4	16 5	+ 6.8	26 21	- 5.9	9 5	+ 5.9	25 2	-22.8
21 19	+ 6.1	11 18	+ 7.5			16 13	- 6.2	26 22	- 6.2	11 20	- 6.0	25 3	- 9.1
21 20	+ 5.5	13 23	+ 5.2	<b>SEPT.</b>		16 14	- 5.5	26 23	-15.0	12 3	+ 5.0	25 5	-11.1
21 23	+ 5.8	14 0	+ 5.9	2 6	+ 5.4	16 16	+15.2	27 0	-142.7	12 22	+13.6	25 7	+14.7
22 16	+23.1	14 4	- 7.6	2 8	+ 5.6	16 18	+ 5.3	27 1	-43.3	13 2	-53.6	25 8	+ 6.5
22 17	+17.7	17 6	-17.4	2 14	- 6.0	17 1	+ 6.1	27 2	-32.9	13 3	-15.4	25 12	+90.5
22 18	+ 5.9	15 22	- 5.9	2 15	- 5.5	17 4	+ 5.1	27 3	-17.7	13 4	-10.2	25 14	+ 8.7
22 20	- 7.3	16 9	+ 6.9	3 2	+ 5.7	17 7	- 7.3	27 6	- 7.0	13 5	-21.6	25 19	-10.1
24 9	+ 5.8	16 21	- 6.3	3 13	+ 7.9	17 19	+ 6.3	27 8	+ 5.5	13 6	- 5.1	27 3	+ 5.2
24 17	+14.3	17 0	+ 5.2	3 14	+10.5	17 20	+ 5.4	27 9	+ 5.4	13 8	- 5.1	29 0	-12.5



ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXIX.—continued.

Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.	Mean Gött. Time.	Disturbance.
<b>1848 FEB.</b>		<b>1848 MARCH.</b>		<b>1848 MARCH.</b>		<b>1848 APRIL.</b>		<b>1848 MAY.</b>		<b>1848 MAY.</b>		<b>1848 MAY.</b>	
D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.	D. H.	Sc. Div.
29 16	+14.8	17 17	-5.1	30 11	-5.4	6 22	+36.7	1 15	+5.1	17 2	+6.3	31 16	+7.0
29 17	+9.5	19 19	-13.8	30 13	-5.2	6 23	+13.7	1 20	-5.8	17 3	+8.3	31 17	-8.5
		19 21	+13.8	31 0	-6.5	7 0	+7.6	1 21	-5.5	17 7	-11.1		
		20 0	-10.4	31 1	-7.1	7 2	-12.1	1 22	-6.0	17 8	-9.5	<b>JUNE.</b>	
		20 1	-15.6	31 7	-5.2	7 3	-22.7	2 15	+6.7	17 9	-7.8	3 15	+7.3
<b>MARCH.</b>		20 2	-9.9	31 9	+9.4	7 8	+5.5	2 16	+7.2	17 14	-8.5	3 17	-5.8
1 7	+6.8	20 3	-22.5	31 15	+24.8	7 10	+10.0	2 17	+6.9	17 17	+10.8	4 22	-6.2
1 12	+5.7	20 4	-14.2	31 16	+9.1	7 17	+18.7	2 21	-5.1	17 18	+6.5	5 8	-5.5
1 15	+16.0	20 5	-10.3	31 19	+11.3	7 18	+16.1	3 11	+5.6	17 19	-20.3	5 11	+5.3
2 4	+5.8	20 6	-6.2	31 21	+10.9	7 22	-9.3	3 15	+23.1	17 22	+9.0	6 0	-6.4
2 5	+7.8	20 8	+27.6			7 23	-13.8	3 22	-11.8	17 23	+15.4	9 8	+5.0
2 6	+7.9	20 9	+10.8	<b>APRIL.</b>		8 0	+5.8	3 23	+7.1	18 1	+9.6	9 17	+5.2
2 6	+5.8	20 10	+6.9	1 3	+6.5	9 20	-5.2	4 0	+7.5	18 2	+12.7	9 18	+5.7
8 0	+5.8	20 12	+6.3	1 13	-8.0	10 18	-12.9	4 1	+7.2	18 3	+10.4	9 22	+6.2
8 2	+5.2	20 14	-7.0	1 15	+14.8	15 9	-5.4	4 2	+7.9	18 4	+10.3	13 19	+9.4
8 3	+8.6	20 15	-6.6	1 17	+6.0	15 10	-9.6	4 3	+8.3	18 5	+7.6	13 20	+7.3
8 6	-8.4	20 16	-8.1	2 18	+9.1	15 11	-5.4	4 5	-5.3	18 6	+17.2	14 0	+5.8
8 7	-5.0	20 18	+6.3	2 20	-6.1	15 13	+9.4	5 7	-5.1	18 7	-20.1	14 15	+5.9
8 8	-6.4	20 19	-6.0	2 21	-7.2	15 15	-8.5	5 8	-8.1	18 8	-10.5	14 16	+12.4
8 9	-5.8	21 0	+6.3	2 23	-5.8	15 16	-9.7	5 13	+6.2	18 9	+7.2	15 4	-6.4
8 10	-7.2	21 3	+5.2	3 0	-18.0	16 19	-6.8	6 1	-5.0	18 13	-18.2	15 5	-5.2
8 17	+7.5	21 4	+7.0	3 1	-13.9	17 9	-5.7	6 4	+8.1	18 14	+18.1	15 8	+5.7
10 3	+5.4	22 8	-5.2	3 2	-14.9	17 10	-6.2	6 5	+6.5	18 15	-9.5	15 13	+6.7
10 4	+7.8	22 9	-5.0	3 10	+11.1	17 11	-8.9	6 6	+5.3	19 5	+6.5	19 10	-6.9
10 5	+6.8	22 17	-5.7	3 13	-9.2	17 12	-8.4	7 19	+14.3	19 13	+7.8	19 20	-6.3
10 6	+6.0	23 8	-5.4	3 15	+11.1	17 14	+24.9	7 21	+17.4	19 18	-15.7	20 0	-8.1
10 7	+6.6	23 15	+6.0	3 16	+8.3	20 14	+12.4	7 22	+8.6	19 23	-6.7	20 1	-5.5
11 4	+6.2	23 21	+7.6	3 17	-8.7	21 18	+10.3	8 0	-8.6	20 0	-10.2	20 5	+5.8
11 5	+5.0	23 22	+7.2	3 18	+7.6	21 19	+30.2	8 1	-9.0	20 1	-9.8	20 14	+5.9
14 19	+11.6	23 23	-5.6	4 2	+5.5	21 20	+57.0	8 3	-14.3	20 7	+5.9	21 2	-5.4
14 23	+7.0	24 1	-7.6	4 3	+8.5	21 21	+24.6	8 9	+8.8	20 8	+5.7	21 14	-5.1
15 2	-10.9	24 8	-7.2	4 4	+10.5	21 22	+16.5	8 17	+6.3	21 19	-7.7	21 19	+5.8
15 3	-16.4	24 9	-6.7	5 0	+7.6	21 23	+14.6	8 18	+8.7	22 5	-5.3	21 20	+10.4
15 4	-20.2	24 17	+25.3	5 2	-12.1	22 2	-5.0	8 19	+7.5	22 23	-7.2	21 21	+5.4
15 9	+5.3	24 18	+8.1	5 3	-22.7	22 4	-5.1	8 20	+6.8	23 7	+5.5	21 22	-8.4
15 18	+10.4	24 19	+5.2	5 8	+5.5	23 18	-10.5	8 21	+7.3	23 22	-6.5	21 23	+7.6
15 19	+9.0	24 20	-5.8	5 10	+10.0	24 13	+6.6	9 3	-5.6	24 9	-6.8	22 0	-6.2
15 20	+6.4	25 0	-5.6	5 17	+18.7	28 17	+9.5	9 4	-5.1	24 13	+11.5	22 6	+6.4
15 21	+7.4	25 1	+7.3	5 18	+16.1	28 19	+12.3	9 6	+5.2	24 15	-5.5	22 10	+8.2
16 0	+11.5	25 4	-20.0	5 22	-9.3	28 20	+21.1	9 7	+5.9	24 20	-5.8	22 14	+6.7
16 1	+8.8	25 5	-7.2	5 23	-13.8	28 21	+18.5	10 1	-9.5	25 7	+5.5	22 15	+6.1
16 2	+8.2	25 6	+7.0	6 1	+6.2	28 22	+19.0	10 2	-12.7	26 20	+5.7	23 9	+5.7
16 17	+13.5	25 12	-8.1	6 2	+9.6	28 23	-5.0	10 3	-12.1	26 21	+11.3	23 22	-5.4
16 20	+24.3	26 18	+5.4	6 3	+6.7	29 0	+8.6	10 5	+10.7	27 0	+6.2	23 23	-6.6
16 21	+15.0	26 21	-12.9	6 4	+5.9	29 2	+7.5	10 6	-5.8	27 2	-14.7	24 7	+5.4
16 22	+16.7	26 22	-6.2	6 5	+5.4	29 4	-8.3	10 14	+12.5	27 4	-7.2	24 12	-8.8
16 23	+6.0	26 23	-6.4	6 14	+5.5	29 5	-11.7	10 17	+7.5	27 11	+9.0	25 20	-5.1
17 0	-8.1	27 15	-5.5	6 15	+16.7	29 6	-12.0	10 19	+9.8	28 20	-6.3	26 13	+6.7
17 1	-14.4	27 17	+11.8	6 16	+23.7	29 11	-6.8	10 20	-13.0	29 8	+5.7	28 19	-6.2
17 2	-5.2	27 20	-5.6	6 17	-10.2	29 12	+10.0	12 5	-5.7	30 21	-8.1	29 9	-6.3
17 3	-7.4	27 21	+5.4	6 19	-16.4	29 13	+11.0	13 5	-5.3	31 3	+9.9	29 20	+5.1
17 5	-7.0	28 20	-5.0	6 20	-8.0	30 18	-6.1	16 5	-6.3	31 15	+13.1	30 1	+5.1
17 7	+5.9	29 23	-5.9	6 21	+45.8	30 20	+6.0						

## HORIZONTAL FORCE.

*Bifilar Magnetometer*.\*—The adjustments described in the 1st volume of the Toronto observations, pp. xxxiv. and xxxv., remained undisturbed till February 10th, 1843, when the magnet (No. 2) was withdrawn to have its temperature correction examined; its place being temporarily supplied by another 12-inch magnet, of which the scale-coefficient was ascertained in the usual manner to be  $\cdot 000149$ . On the 25th of February, 1843, the magnetometer was readjusted with the magnet No. 2, in the manner prescribed in the Instructions of the Royal Society; the angle  $v$ , viz., the angle through which the torsion circle required to be moved, in order to deflect the magnet into a position perpendicular to the magnetic meridian, was  $49^{\circ} 14'$ ; the arc-value of a division of the scale being, in parts of radius,  $0' \cdot 000114$ , the value of a single scale division in parts of the horizontal force was

$$k = 0' \cdot 000114 \cdot \cot 49^{\circ} 14' = \cdot 000099.$$

The suspension wire was the same that had been in use since the commencement of the observations. For some months after the adjustment the scale readings were perceived to undergo a progressive change, indicative of some derangement the cause of which was not very obvious: the change was in the direction that might be produced by an elongation of the wire, being the opposite to that which would be occasioned by a loss of force in the magnet. It amounted on an average to about 2 scale divisions in a day; the mean monthly scale-readings for the months following the adjustment were as follows:—

1843. March,	660·3	scale divisions.
„ April,	726·4	„
„ May,	795·3	„
„ June,	841·2	„
„ July,	894·0	„
„ August,	936·8	„
„ September,	1069·8	„

Between February 25th and October 11th of the same year the scale-readings had altered 470 divisions, equivalent (approximately) to  $\cdot 044$  parts of the whole horizontal force. On the 11th October, 1843, the magnet was brought back to a position nearly perpendicular to the magnetic meridian, by turning the torsion circle  $3^{\circ} 29'$ , making  $v = 52^{\circ} 43'$ , and  $k = \cdot 000087$ . This proceeding seems to have arrested the change in great measure, and the instrument remained under the same adjustment to the end

---

\* The determinations of the absolute value of the horizontal force obtained with the unifilar magnetometer will be discussed in a subsequent section.

of 1848. The mean scale-reading, reduced to a temperature of 50°, in the last three months of 1843 was 496·9.

In 1844	540·4
1845	591·6
1846	605·2
1847	616·9
1848	630·0

showing a change of a similar character, but of much smaller amount, and the greater part taking place in the first few months after the re-adjustment.

That no increase took place in the magnetic moment of the magnet during this period,—but, on the contrary, a small decrease,—is shown by the following times of vibration of the magnet suspended as an unifilar magnet; the times of vibration are corrected for the arc and for the rate of the chronometer.

TABLE XXX.

	DATES.	Corrected Time of Vibration.	Temperature.	Change in the Magnetic Moment for 1° of Fahr.
		s.	°	
1841	Feb. 11	14·668	—	} ·000224
	March 16	14·717	42·0	
	April 30	14·750	55·6	
	May 31	14·733	65·0	
	June 1	14·783	76·0	
Aug. 1	14·752	69·2		
1843.	Feb. 22	14·840	60·5	
1849.	March 1	14·881	60·5	
	„ 2	14·902	60·5	

The absolute determinations show that during this period there was also a small secular decrease in the horizontal force of the earth. The increase of the scale readings appears therefore to be attributable to a decrease in the moment of torsion, such as would be produced by an elongation of the silver suspension wire.

In February 1849, the magnetometer was dismantled to make a new arrangement of the instruments in the Observatory, in consequence of the introduction of self-recording instruments. In dismantling the bifilar, the value of the scale-coefficient was re-examined by going through each part of the process of adjustment in the reverse order, and thus retracing the several steps. By this proceeding the angle  $v$  was found = 53° 00'; whence  $k = \cdot 000088$ , which is almost identical with the value obtained in October, 1843. The coefficient employed for the whole intervening time has been  $\cdot 000087$ .

The experiments made in February 1843, and recorded in vol. 1, pp. xxxii and xxxiii, for the purpose of ascertaining the temperature coefficient, not having been considered

as final on account of the small amount of the angles of deflection, a new series was made in April 1849, employing a portable unifilar magnetometer, and placing the suspending and deflecting magnets at the distance of 24 inches from centre to centre. The deflections thus obtained exceeded  $33^\circ$ . The magnet (No. 2) was submersed in water, the temperature of which was successively raised and lowered about  $10^\circ$  at a time between the temperatures of  $40^\circ$  and  $90^\circ$ . Five distinct determinations were thus obtained at as many points of the thermometric scale, each including from 30 to 40 partial results. Corresponding observations were made by auxiliary apparatus for the purpose of obtaining the changes of declination and horizontal force occurring during the course of the experiments, and corrections on account of these changes were applied. The following were the results :—

Mean Temperature. °	Value of $q$ .
44·4	·0001990
56·0	·0002278
67·1	·0002257
77·5	·0002388
86·7	·0002326
<hr/> 65·2	<hr/> ·0002236

The value of the coefficient increasing but very slowly with the temperature, the mean of the five series has been taken as sufficiently exact for all temperatures; including the usual addition of  $\cdot 00001$  for the effect of variations of temperature upon the bifilar suspension apparatus,  $q = \cdot 000234$ .

*Diurnal Variation.*—Tables XXXI., XXXII., and XXXIII., exhibit the diurnal variation of the horizontal force derived from the monthly means of the bifilar magnetometer from January 1843, to June 1848, inclusive, reduced to an uniform temperature of the magnet, and expressed in parts of the horizontal force; the lowest monthly mean occurring at any of the observation hours has been taken as the zero of the month, and corresponds to the weakest force.

## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXXI.—*Diurnal Variation of the Horizontal Force in the several Months,*  
The lowest Monthly Mean occurring at any of the observation hours has

Mean Toronto Time, Astron. Reckoning.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
JANUARY.	1843	000	038	078	119	161	151	129	131	131	113
	1844	004	034	055	082	108	101	090	085	086	069
	1845	019	044	065	091	109	113	083	091	096	079
	1846	006	041	079	122	155	142	128	108	094	095
	1847	000	030	074	120	126	121	130	116	100	091
	1848	005	048	080	135	204	206	189	191	185	176
Reduced Means	003	036	069	108	141	136	122	117	112	101	099
FEBRUARY.	1843	—	—	—	—	—	—	—	—	—	—
	1844	006	034	068	088	075	089	071	070	057	054
	1845	010	031	071	103	112	121	111	098	082	082
	1846	029	053	079	116	108	101	087	097	085	077
	1847	035	071	090	124	145	135	139	121	119	099
	1848	011	057	087	154	242	252	182	200	218	175
Reduced Means	008	039	069	107	126	130	108	107	102	087	085
MARCH.	1843	182	178	151	129	128	128	134	141	157	132
	1844	000	028	083	143	146	137	125	116	106	089
	1845	019	067	112	159	181	178	158	145	146	140
	1846	000	030	079	135	163	173	180	156	148	141
	1847	020	053	104	173	200	203	161	158	141	125
	1848	016	093	169	227	258	266	241	220	203	185
Reduced Means	008	043	084	129	147	149	135	124	118	103	088
APRIL.	1843	186	150	099	086	093	106	131	143	165	136
	1844	026	077	126	167	166	196	159	135	101	087
	1845	016	042	091	159	182	224	216	203	175	158
	1846	024	062	120	174	198	185	169	137	126	106
	1847	109	191	261	304	339	315	282	229	195	180
	1848	104	147	210	281	319	326	305	238	198	222
Reduced Means	026	060	099	143	164	173	158	129	108	096	090
MAY.	1843	135	098	076	080	065	038	056	127	147	128
	1844	064	111	150	176	187	189	152	116	106	093
	1845	060	116	166	191	213	207	178	166	137	107
	1846	104	168	242	260	287	281	230	200	169	145
	1847	110	182	232	261	269	262	241	199	161	165
	1848	066	122	194	243	264	263	254	254	200	158
Reduced Means	057	100	144	169	181	174	152	144	120	116	089
JUNE.	1843	139	106	074	089	086	106	131	147	139	143
	1844	056	092	139	156	169	169	142	128	109	088
	1845	054	101	166	196	211	210	188	159	142	122
	1846	072	103	170	205	212	234	223	191	129	072
	1847	071	128	203	240	253	236	210	168	136	119
	1848	090	173	231	279	294	278	230	197	170	165
Reduced Means	054	091	138	168	178	180	161	139	112	092	082

BIFILAR MAGNETOMETER.

from January 1843 to June 1848, inclusive, in parts of the Horizontal Force.  
 been taken as the Zero for the Month, and represents the weakest force.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	Monthly Means.
·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	
103	092	098	105	107	123	142	130	140	133	095	056	014	104
056	045	030	038	044	058	062	070	072	050	037	015	000	056
077	048	051	043	049	058	065	091	090	064	028	008	000	064
099	071	060	055	063	081	085	094	095	081	064	017	000	080
083	074	072	074	082	091	086	098	099	093	059	015	002	080
139	103	104	046	098	115	126	142	140	126	093	049	000	120
090	069	066	057	071	085	091	101	103	088	060	024	000	081
—	—	—	—	—	—	—	—	—	—	—	—	—	—
031	027	024	020	022	031	036	029	026	012	006	003	000	038
068	072	052	065	064	067	081	087	061	044	026	009	000	067
087	061	059	062	063	061	060	078	066	040	000	018	020	066
091	073	083	078	074	084	088	077	076	030	025	000	019	083
175	132	061	037	073	066	110	138	000	056	106	062	011	116
080	064	046	042	049	052	065	072	036	026	023	008	000	064
087	065	050	042	017	009	000	026	036	057	087	133	178	098
073	075	058	066	080	091	084	089	089	056	025	020	012	078
123	122	120	114	112	114	123	134	106	078	054	029	000	111
144	120	118	118	110	126	134	120	098	078	043	019	000	107
057	104	102	109	104	105	118	127	090	063	025	000	001	102
153	129	103	129	147	164	147	151	130	087	048	020	000	144
074	071	060	064	063	070	069	076	060	038	015	005	000	075
102	084	078	076	064	026	000	012	017	070	126	174	198	101
070	060	061	048	034	068	075	015	030	036	008	000	009	077
150	149	134	129	127	143	146	141	136	122	097	047	000	131
090	079	090	088	086	103	099	100	081	045	019	002	000	096
142	169	129	000	080	124	166	172	106	078	068	038	056	163
075	133	103	000	040	152	181	180	170	133	082	051	057	164
053	060	047	005	020	051	059	051	038	029	015	000	001	070
099	086	064	043	027	016	000	014	026	073	136	166	151	082
084	066	055	063	065	071	065	066	063	045	017	000	022	089
116	095	084	085	075	087	073	087	081	057	015	000	023	105
116	091	105	121	108	105	081	107	095	057	000	011	059	136
143	121	134	059	000	086	063	058	089	073	030	019	045	131
126	121	067	070	104	106	106	104	094	058	012	000	019	131
081	064	052	041	029	045	031	040	042	028	002	000	020	079
123	108	089	074	066	052	037	000	027	063	113	153	160	098
065	062	060	048	035	029	032	033	031	016	000	001	025	073
108	094	086	084	079	083	088	102	096	073	024	000	018	108
055	055	053	065	047	048	074	068	050	033	017	000	020	095
098	087	083	090	079	090	092	099	081	068	041	000	012	116
114	120	096	100	096	098	094	116	103	082	045	000	022	139
068	062	052	051	041	041	044	044	039	030	014	000	017	079



## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXXI.—*Diurnal Variation of the Horizontal Force in the several*

Mean Toronto Time, Astron. Reckoning.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	
JULY.	1843	143	111	078	050	063	076	103	126	143	132	116
	1844	094	144	187	221	234	219	196	175	154	146	133
	1845	058	090	150	185	195	189	173	157	133	126	096
	1846	062	044	171	200	222	240	186	163	093	103	092
	1847	085	144	211	251	254	231	211	194	173	132	120
Reduced Means	055	074	126	148	161	158	141	130	106	095	078	
AUGUST.	1843	158	108	068	077	064	096	129	143	146	141	119
	1844	094	157	217	250	249	235	190	168	155	161	156
	1845	070	115	175	210	226	191	175	148	134	123	117
	1846	090	177	230	263	265	282	191	144	132	107	104
	1847	041	125	203	245	260	252	226	199	198	175	149
Reduced Means	053	098	141	171	175	173	144	122	115	103	091	
SEPTEMBER.	1843	061	125	171	204	201	186	167	147	133	132	126
	1844	088	159	199	224	237	232	210	186	168	129	126
	1845	078	137	188	186	213	190	174	153	143	141	134
	1846	075	165	247	308	280	257	216	198	203	211	184
	1847	044	165	227	310	341	330	315	270	250	247	254
Reduced Means	068	149	205	245	253	238	215	190	178	171	164	
OCTOBER.	1843	020	030	071	094	111	107	091	076	079	065	066
	1844	043	094	136	153	177	166	155	149	135	136	125
	1845	027	052	076	107	098	091	067	060	043	035	032
	1846	029	068	110	160	180	173	132	127	111	098	095
	1847	134	158	218	218	267	278	283	256	246	235	226
Reduced Means	039	068	110	134	155	151	134	122	111	102	097	
NOVEMBER.	1843	019	037	066	084	103	095	093	082	074	069	057
	1844	010	032	074	110	112	101	104	078	075	077	083
	1845	029	054	087	104	120	116	118	130	126	107	110
	1846	008	031	072	104	114	100	101	102	098	105	099
	1847	008	051	125	165	196	191	192	214	197	169	084
Reduced Means	014	040	084	112	128	120	121	120	113	104	086	
DECEMBER.	1843	000	011	037	060	088	091	093	076	073	069	059
	1844	000	035	066	087	119	107	102	095	083	056	043
	1845	000	013	056	093	114	116	107	099	096	079	080
	1846	002	031	076	115	131	133	124	101	092	099	105
	1847	056	079	159	184	243	244	260	311	255	242	204
Reduced Means	000	022	067	096	127	126	125	124	108	097	086	

DIURNAL VARIATION.

lvii

Months, from January 1843 to June 1848, inclusive—continued.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	Monthly Means.
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
093	060	057	032	014	012	000	014	039	083	125	166	170	084
135	124	113	097	097	095	095	109	113	080	033	000	031	126
089	084	091	080	079	080	090	086	087	071	035	000	014	102
064	046	080	058	028	034	037	057	061	053	035	000	036	090
116	108	064	103	098	077	092	104	084	045	015	000	035	123
066	051	048	041	030	027	030	041	044	033	016	000	024	072
104	078	065	040	031	032	013	000	018	081	148	150	182	093
146	143	123	122	119	122	123	136	103	074	006	000	028	137
110	096	095	084	061	077	096	093	063	032	016	000	020	105
087	100	060	097	086	078	061	076	074	055	000	000	039	117
090	114	103	105	087	107	122	127	112	065	027	008	000	131
069	068	051	052	039	045	045	048	036	023	001	000	016	078
108	111	103	102	103	113	113	113	101	052	006	000	020	112
129	107	072	071	085	124	100	137	114	064	020	000	024	125
124	098	091	108	095	125	128	129	096	056	017	000	026	118
176	185	158	107	091	114	160	108	083	048	021	000	019	151
225	198	196	191	186	199	161	112	064	106	042	005	000	185
151	139	123	115	111	134	131	119	091	064	020	000	017	137
044	036	037	039	046	056	062	063	053	035	024	008	000	055
131	039	092	106	102	103	098	104	094	063	020	000	014	101
025	018	022	037	044	059	062	061	039	023	006	004	000	045
054	039	068	068	091	116	130	128	086	049	012	000	000	089
231	095	146	045	144	029	164	142	076	011	000	063	064	155
085	033	061	047	073	061	091	088	058	024	000	003	004	077
046	045	045	047	049	057	069	078	067	042	015	000	007	056
068	061	061	056	050	060	074	076	085	067	034	001	000	065
095	083	080	084	098	102	107	117	123	074	026	013	000	088
083	085	082	097	101	104	111	136	123	081	032	017	000	083
137	104	095	116	127	135	152	175	121	092	050	027	000	122
085	075	072	079	084	091	102	115	103	070	030	011	000	082
057	043	043	058	060	064	076	090	089	065	061	043	010	059
050	035	036	038	047	055	068	088	084	069	058	016	000	060
073	065	066	065	068	078	076	038	094	085	061	023	009	069
109	086	088	097	099	105	109	118	112	082	060	022	000	087
192	130	110	145	147	096	000	060	069	095	046	066	072	141
084	060	057	069	072	068	054	067	078	067	045	022	006	072

TABLE XXXII.

Table showing the Mean Diurnal Variation of the Horizontal Force in each Month of the Year, derived from the preceding Table.

Astron. Time at Toronto. }	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . . .	003	036	069	108	141	136	122	117	112	101	099	090
February . . .	008	039	069	107	126	130	108	107	102	087	085	080
March . . .	008	043	084	129	147	149	135	124	118	103	088	074
April . . .	026	060	099	143	164	173	158	129	108	096	090	053
May . . .	057	100	144	169	181	174	152	144	120	116	089	081
June . . .	054	091	138	168	178	180	161	139	112	092	082	068
July . . .	055	074	126	148	161	158	141	130	106	095	078	066
August . . .	053	098	141	171	175	173	144	122	115	103	091	069
September . . .	068	149	205	245	253	238	215	190	178	171	164	151
October . . .	039	068	110	134	155	151	134	122	111	102	097	085
November . . .	014	040	084	112	128	120	121	120	113	104	086	085
December . . .	000	022	067	096	127	126	125	124	108	097	086	084
April to September inclusive	052	095	142	174	185	183	162	142	123	112	099	081
October to March inclusive	010	039	079	113	135	133	122	117	109	097	088	081
Mean of the whole Year.	026	062	105	138	155	153	137	125	111	100	089	076
Astron. Time at Toronto. }	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . . .	069	066	057	071	085	091	101	103	088	060	024	000
February . . .	064	046	042	049	052	065	072	036	026	023	008	000
March . . .	071	060	064	063	070	069	076	060	038	015	005	000
April . . .	060	047	005	020	051	059	051	038	029	015	000	001
May . . .	064	052	041	029	045	031	040	042	028	002	000	020
June . . .	062	052	051	041	041	044	044	039	030	014	000	017
July . . .	051	048	041	030	027	030	041	044	033	016	000	024
August . . .	068	051	052	039	045	045	048	036	023	001	000	016
September . . .	139	123	115	111	134	131	119	091	064	020	000	017
October . . .	083	061	047	073	061	091	088	058	024	000	003	004
November . . .	075	072	079	084	091	102	115	103	070	030	011	000
December . . .	060	057	069	072	068	054	067	078	067	045	022	006
April to September inclusive	074	062	051	045	057	057	057	048	035	011	000	016
October to March inclusive	068	058	058	067	069	077	085	071	050	027	010	000
Mean of the whole Year.	066	055	049	051	058	062	066	055	037	014	000	003

DIURNAL VARIATION.

lix

TABLE XXXIII.

*Exhibits the Differences of the Horizontal Force at each observation hour from the Mean Force in the Month; the sign + implies that the force is greater than the Mean Force, and - that it is less.*

Astron. Time at Toronto. } 0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	-.078	-.045	-.012	+.027	+.060	+.055	+.041	+.036	+.031	+.020	+.018	+.009
February . . .	-.056	-.025	+.005	+.043	+.062	+.066	+.044	+.043	+.038	+.023	+.021	+.016
March . . .	-.067	-.032	+.009	+.054	+.072	+.074	+.060	+.049	+.043	+.028	+.013	-.001
April . . .	-.044	-.010	+.029	+.073	+.094	+.103	+.088	+.059	+.038	+.026	+.020	-.017
May . . .	-.022	+.021	+.065	+.090	+.102	+.095	+.073	+.065	+.041	+.037	+.010	+.002
June . . .	-.025	+.012	+.059	+.089	+.099	+.101	+.082	+.060	+.033	+.013	+.003	-.011
July . . .	-.017	+.002	+.054	+.076	+.089	+.086	+.069	+.058	+.034	+.023	+.006	-.006
August . . .	-.025	+.020	+.063	+.093	+.097	+.095	+.066	+.044	+.037	+.025	+.013	-.009
September . .	-.069	-.012	+.068	+.108	+.116	+.101	+.078	+.053	+.041	+.034	+.027	+.014
October . . .	-.038	-.009	+.033	+.057	+.078	+.074	+.057	+.045	+.034	+.025	+.020	+.008
November . . .	-.068	-.042	+.002	+.030	+.046	+.038	+.039	+.038	+.031	+.022	+.004	+.003
December . . .	-.072	-.050	-.005	+.024	+.055	+.054	+.053	+.052	+.036	+.025	+.014	+.012
Mean of the whole Year. }	-.048	-.014	+.031	+.064	+.081	+.078	+.063	+.050	+.036	+.025	+.014	+.002

Astron. Time at Toronto. } 12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
January . . .	-.012	-.015	-.024	-.010	+.004	+.010	+.020	+.022	+.007	-.021	-.057	-.081
February . . .	-.000	-.018	-.022	-.015	-.012	+.001	+.008	-.028	-.038	-.041	-.056	-.064
March . . .	-.004	-.015	-.011	-.012	-.005	-.006	+.001	-.015	-.037	-.060	-.070	-.075
April . . .	-.010	-.023	-.065	-.050	-.019	-.011	-.019	-.032	-.041	-.055	-.070	-.069
May . . .	-.015	-.027	-.038	-.050	-.034	-.048	-.039	-.037	-.051	-.077	-.079	-.059
June . . .	-.017	-.027	-.028	-.038	-.038	-.035	-.035	-.040	-.049	-.065	-.079	-.062
July . . .	-.021	-.024	-.031	-.042	-.045	-.042	-.031	-.028	-.039	-.056	-.072	-.048
August . . .	-.010	-.027	-.026	-.039	-.033	-.033	-.030	-.042	-.055	-.077	-.078	-.062
September . .	+.002	-.014	-.022	-.026	-.003	-.006	-.018	-.046	-.073	-.117	-.137	-.120
October . . .	-.044	-.016	-.030	-.004	-.016	+.014	+.011	-.019	-.053	-.077	-.074	-.073
November . . .	-.007	-.010	-.003	+.002	+.009	+.020	+.033	+.021	-.012	-.052	-.071	-.082
December . . .	-.012	-.015	-.003	-.000	-.004	-.018	-.005	+.006	-.005	-.027	-.050	-.066
Mean of the whole Year. }	-.013	-.019	-.025	-.024	-.018	-.013	-.009	-.020	-.037	-.052	-.074	-.072

The diurnal variation of the Horizontal Force at Toronto has a principal maximum at a little after 4<sup>h</sup> at all seasons; and a principal minimum at 22<sup>h</sup> or 23<sup>h</sup>, occurring earlier from April to September than from October to March. From the minimum at 22<sup>h</sup> or 23<sup>h</sup> the force increases continuously to the maximum at or shortly after 4<sup>h</sup>. From the maximum at 4<sup>h</sup> the force diminishes to a secondary minimum about 14<sup>h</sup> or 15<sup>h</sup>, occurring earlier than 14<sup>h</sup> from October to March, and about 15<sup>h</sup> from April to September; and again increases to a secondary maximum about 18<sup>h</sup>, occurring somewhat earlier from April to September than from October to March. From 18<sup>h</sup> the force progressively decreases to the minimum at 22<sup>h</sup> or 23<sup>h</sup>.

The diurnal variation of the horizontal force is thus a double progression at all seasons of the year, and its range or whole amount is considerably greater from April to September than from October to March.

The mean diurnal variation of the horizontal force at Toronto and Hobarton, exhibited in comparison and expressed in absolute value, is as follows:—

TABLE XXXIV.

Astron. Time at the Station. }	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
Toronto . .	092	220	372	490	549	542	486	443	393	354	315	270
Hobarton . .	027	166	337	476	594	579	539	530	525	494	494	476
Astron. Time at the Station. }	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
Toronto . .	234	195	174	180	205	220	233	195	131	050	000	013
Hobarton . .	471	467	467	459	455	467	467	417	337	193	059	000

*Corrections on account of the Diurnal Variation for the different months of the year.*—Table XXXIII, page lix, supplies for every month of the year corrections to the mean horizontal force in the month to be applied to observations made at any one of the observation hours. In applying the values in this table as corrections, it will be remembered that the opposite sign to that in the table must always be employed.

VERTICAL FORCE.

*Vertical Force Magnetometer.*—The variations of the Vertical Force at Toronto have continued to be observed by the instrument described in Vol. I., p. liii.

The times of vibration in the horizontal plane observed in 1840 and 1841 are stated in Vol. I, *l. c.*, terminating with 11<sup>s</sup>·496, on the 30th of September, 1841. The next observation appears to have been made on March the 26th, 1846, when the magnet was dismantled for temperature experiments, and the time of vibration was found to be 11<sup>s</sup>·50, or nearly identical with the last observation in 1841. The magnet was magnetized afresh on the 1st of April, 1846, and its time of horizontal vibration was then found to be 10<sup>s</sup>·29; it was again observed on February the 28th, 1849, and found 10<sup>s</sup>·36; and on June the 2nd, 1850, also 10<sup>s</sup>·36. The times of vibration in the vertical plane in 1841 and 1842, are stated in Vol. I., pp. liv and lv. The observations were made usually at weekly intervals until February, 1849, after which date they were made only on the monthly term days. The mean times of vertical vibration in the several months from 1843 to 1851, inclusive, are shown in the following Table.

TABLE XXXV.

*Vertical Vibrations.*

MONTHS.	Time of one Vibration in the Vertical Plane.								
	1843	1844	1845	1846	1847	1848	1849	1850	1851
January . . .	10 <sup>s</sup> ·42	— <sup>a</sup>	12 <sup>s</sup> ·66	12 <sup>s</sup> ·41	11 <sup>s</sup> ·12	11 <sup>s</sup> ·11	11 <sup>s</sup> ·11	10 <sup>s</sup> ·74	10 <sup>s</sup> ·70
February . . .	10·45	12·79	12·64	12·48	11·14	11·17	11·14	10·92	10·57
March . . .	10·45	13·01	12·61	12·48	11·15	11·10	11·09	10·88	10·60
April . . .	10·35	12·96	12·62	11·10 <sup>b</sup>	11·15	11·13	11·08	10·86	10·40
May . . .	10·38	12·95	12·60	11·07	11·11	11·11	11·12	— <sup>c</sup>	10·51
June . . .	10·37	12·48	12·68	11·04	11·05	11·12	11·08	10·35	10·51
July . . .	10·25	12·57	12·68	11·03	11·06	11·11	11·07	10·28	10·48
August . . .	10·30	12·57	12·64	11·03	11·08	11·12	11·06	10·45	10·51
September . . .	10·31	12·54	12·66	11·04	11·07	11·14	11·11	10·55	10·55
October . . .	10·31	12·58	12·61	11·11	11·09	11·14	10·81	10·60	10·57
November . . .	— <sup>a</sup>	12·63	12·61	11·14	11·08	11·19	10·88	10·63	11·00
December . . .	—	12·61	12·48	11·12	11·12	11·18	10·86	10·79	10·78

<sup>a</sup> Magnet employed in Temperature experiments.      <sup>b</sup> Needle remagnetized.  
<sup>c</sup> Vertical Force Magnetometer dismantled whilst preparations were making for photographic instruments.

The values of the scale coefficient, computed for each month from the times of vibration in the horizontal and vertical planes and the magnetic inclination, are given at the head of the pages in which the observations of the vertical force in the same months are recorded.

*Temperature Coefficient.*—The experiments to determine the value of the temperature coefficient were made in the detached building. The suspended magnet was 3·0 inches in length, and the Vertical Force Magnet was so placed that its axis should be in a line perpendicular to the suspended magnet when deflected. In the first experiment the V. F. magnet and a thermometer were enclosed in a copper water-tight case, which was fixed firmly in a trough, capable of containing a quantity of water sufficient to surround the case and impart the required temperature to the magnet within; it was found, however, that the condensation of the moist air inside the case exposed the axles to as much risk of injury as if they were entirely wetted: in subsequent experiments, therefore, the water-tight copper case was dispensed with, and the magnet itself was immersed in the water.

During the first experiment, the distance between the centres of the suspended and deflecting magnets was 20 inches; in the subsequent experiments the distance was about 17 inches.

Previous to the second experiment the needle was remagnetized; after which it was found that the magnetic moment had been increased by the process, and consequently the angle of deflection was considerably greater in the later experiments than in the first.

Table XXXVI. contains an abstract of the experiments; the means only are stated, each mean being the result of three distinct observations, made at intervals of about two minutes. The numbers in the 3rd and 5th columns are the differences respectively of the observed temperatures and declinometer-readings on the same horizontal line, from the mean of the temperatures and declinometer-readings in the line above and in the line below.

The values of the temperature coefficient derived from the experiments recorded in Table XXXVI., are as follows:—

Exp. I.	000061	Exp. IV.	·000074	Exp. VII.	·000073
„ II.	000063	„ V.	·000078	„ VIII.	·000075
„ III.	·000070	„ VI.	·000067	„ IX.	·000074

The mean value is 00007, which has accordingly been employed in reducing the observations of the vertical force recorded in this volume to a uniform temperature.





ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XXXVII.—*Diurnal Variation of the Vertical Force in the several Months*  
The lowest Monthly Mean corresponding to any of the observation hours has

Astronomical Time at Toronto.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
JANUARY.	1843	011	016	019	024	023	024	024	025	024	023
	1844 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—
	1845	009	014	020	022	022	038	026	028	027	024
	1846	003	009	015	013	011	009	008	007	009	015
	1847	007	008	010	018	008	012	013	011	011	008
	1848	022	024	027	031	030	028	034	037	038	032
Reduced Means	007	011	015	019	016	019	018	019	019	017	016
FEBRUARY.	1843	014	022	030	034	037	038	042	041	039	041
	1844	005	006	011	013	012	015	016	014	014	014
	1845	009	014	024	026	026	026	026	025	024	022
	1846	003	002	005	007	007	007	013	014	013	012
	1847	005	007	008	010	011	013	014	018	021	013
	1848	046	053	057	057	073	073	057	059	064	044
Reduced Means	008	011	017	019	022	023	022	023	023	018	017
MARCH.	1843	004	007	011	013	015	015	018	023	026	025
	1844	028	036	040	047	054	058	058	062	051	044
	1845	004	009	014	018	020	026	023	026	023	022
	1846	002	006	013	019	021	022	021	016	013	012
	1847	027	026	031	044	041	042	047	048	046	041
	1848	032	042	053	051	049	049	049	052	050	047
Reduced Means	006	011	017	022	023	025	026	028	025	023	015
APRIL.	1843	011	021	030	036	042	042	041	040	034	028
	1844	031	039	046	048	048	054	054	049	045	039
	1845	002	007	015	020	021	023	024	022	023	014
	1846	015	020	032	040	043	042	038	036	031	031
	1847	040	054	038	040	046	047	048	042	031	044
	1848	053	061	070	076	081	078	080	075	075	072
Reduced Means	015	024	028	033	037	038	037	034	030	028	021
MAY.	1843	000	006	016	021	031	044	045	034	027	021
	1844	007	008	014	021	026	032	034	036	031	022
	1845	005	010	019	026	030	032	029	026	023	022
	1846	019	025	039	044	053	058	044	038	032	032
	1847	042	047	051	057	060	065	064	063	062	060
	1848	024	035	046	052	053	053	051	060	053	047
Reduced Means	011	017	026	032	037	042	039	038	033	029	021
JUNE.	1843	005	011	015	019	026	028	029	026	023	019
	1844	003	005	008	012	016	017	015	015	014	014
	1845	002	000	009	016	021	023	023	020	018	014
	1846	013	013	024	031	033	033	035	037	029	025
	1847	009	012	016	023	029	027	030	026	025	018
	1848	000	002	014	018	019	029	024	025	018	016
Reduced Means	002	004	011	017	021	023	023	022	018	015	011

<sup>a</sup> Magnet removed for temperature experiments.

DIURNAL VARIATION.

lxv

*from January 1843 to June 1848, inclusive, in parts of the Vertical Force.*  
 been taken as the Zero for the Month, and represents the weakest force.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
019	008	009	007	007	005	007	006	008	011	005	000	003
017	010	007	004	002	004	000	007	007	006	002	004	006
009	011	006	003	003	000	007	008	008	010	004	003	003
009	007	005	008	007	007	006	007	008	005	000	001	003
019	020	021	004	000	003	002	007	010	016	011	008	012
012	008	007	002	001	001	001	004	005	007	001	000	003
030	016	012	016	017	015	019	018	016	031	002	000	005
012	013	009	009	008	010	010	009	010	014	004	000	001
018	003	003	006	005	000	006	007	007	012	010	007	004
009	005	001	002	006	006	006	009	013	017	004	001	000
006	001	006	002	000	001	000	000	009	011	003	001	000
042	040	011	000	006	003	009	016	007	040	041	036	037
014	007	001	000	001	000	002	004	004	015	005	002	002
016	008	003	001	007	009	010	012	015	013	010	001	000
028	000	013	016	010	016	016	023	031	031	030	025	024
020	006	009	008	009	008	012	013	015	014	005	003	000
011	009	005	004	007	005	009	018	014	014	010	006	000
000	024	021	024	026	017	019	026	028	031	024	022	024
029	024	010	009	002	008	000	008	019	025	020	021	023
007	002	000	000	000	000	001	007	010	011	006	003	002
012	007	010	008	000	006	010	021	016	015	009	005	004
028	024	025	014	000	018	005	004	004	023	026	026	027
011	009	007	002	005	009	012	010	010	005	002	000	001
014	007	005	009	000	005	017	021	020	016	013	010	008
030	033	029	000	003	014	018	033	023	021	034	034	038
011	007	000	026	061	029	033	053	054	052	050	049	049
008	004	003	000	001	003	006	014	011	012	012	011	011
016	002	003	004	011	016	016	021	019	016	010	003	002
007	004	000	002	005	010	015	017	017	014	010	005	003
014	011	014	009	007	011	015	017	014	007	004	000	000
007	000	009	013	012	008	006	022	020	019	018	016	018
052	037	052	000	007	029	036	049	038	049	044	037	040
030	020	000	005	006	022	026	023	023	026	019	024	021
016	007	008	000	003	011	014	020	017	017	013	009	009
012	006	008	009	007	013	015	020	018	017	013	008	000
009	007	004	004	004	004	007	004	004	001	000	002	002
012	010	006	005	003	006	008	009	010	007	004	001	003
012	009	000	001	000	005	016	021	021	022	021	017	012
010	001	000	003	005	014	021	022	018	016	013	008	006
014	009	003	002	000	014	018	027	028	019	008	005	003
008	004	000	001	000	006	011	014	013	011	007	004	001

TABLE XXXVII.—*Diurnal Variation of the Vertical Force in the several*

Astronomical Time at Toronto.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	
JULY.	1843	017	021	032	041	044	050	043	040	037	020	014
	1844	007	010	014	024	030	032	030	026	023	021	018
	1845	010	013	020	027	034	033	032	027	022	020	018
	1846	039	042	053	058	064	073	069	068	058	046	042
	1847	014	015	024	032	037	042	040	038	031	016	021
Reduced Means		015	018	027	034	040	044	041	038	032	023	021
AUGUST.	1843	021	026	032	036	041	038	034	034	028	022	016
	1844	019	027	038	042	045	049	048	045	037	029	020
	1845	032	037	045	049	059	054	053	047	046	038	031
	1846	073	078	084	098	105	112	099	094	087	068	052
	1847	024	027	031	035	039	038	034	030	026	022	021
Reduced Means		028	033	040	046	052	052	048	044	039	030	022
SEPTEMBER.	1843	018	023	030	035	042	041	038	036	033	024	017
	1844	050	058	063	066	064	060	061	059	055	046	045
	1845	034	043	051	051	053	052	050	048	045	042	034
	1846	065	085	090	095	089	080	078	073	069	063	055
	1847	044	053	056	064	062	055	054	056	046	043	036
Reduced Means		036	046	052	056	056	051	050	048	044	038	031
OCTOBER.	1843	021	026	034	037	039	039	041	043	041	036	038
	1844	025	033	036	041	042	041	036	037	039	034	028
	1845	010	014	018	021	020	026	024	024	027	027	020
	1846	030	033	036	040	038	042	046	052	039	023	021
	1847	051	057	062	055	050	055	053	056	055	051	047
Reduced Means		025	031	035	037	036	039	038	040	038	032	029
NOVEMBER.	1843 <sup>*</sup>	—	—	—	—	—	—	—	—	—	—	—
	1844	016	023	032	036	034	034	032	034	035	028	025
	1845	022	027	032	031	031	026	025	024	022	022	018
	1846	012	018	025	027	024	026	028	029	024	021	018
	1847	014	017	026	026	048	044	035	048	042	025	015
Reduced Means		013	018	026	027	031	029	027	031	028	021	016
DECEMBER.	1843 <sup>*</sup>	—	—	—	—	—	—	—	—	—	—	—
	1844	006	012	015	018	018	017	017	017	016	016	014
	1845	011	017	025	032	030	027	027	027	018	019	023
	1846	005	009	011	009	011	012	013	014	015	013	009
	1847	052	058	075	068	069	063	068	071	071	073	061
Reduced Means		016	022	030	030	030	028	029	030	028	028	025

<sup>\*</sup> Magnet removed for temperature experiments.

DIURNAL VARIATION.

lxvii

Months, from January 1843 to June 1848, inclusive—continued.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
014	008	004	001	000	003	005	005	005	008	009	008	011
014	006	003	000	003	004	010	013	014	014	013	008	007
009	002	001	000	003	008	012	015	016	015	015	011	008
035	016	007	000	004	008	025	033	040	036	037	035	037
010	015	000	011	017	023	027	029	027	026	024	017	015
014	007	001	000	003	007	014	017	018	018	017	014	014
007	008	005	000	005	004	015	022	018	019	017	015	016
015	007	005	004	000	011	012	016	016	016	015	015	014
020	015	017	007	000	014	024	036	035	032	029	029	030
035	022	000	027	021	029	056	069	073	072	069	069	070
000	004	009	006	004	006	016	029	032	024	022	022	021
009	005	001	003	000	007	019	028	029	027	024	024	024
013	014	004	006	002	000	006	013	016	018	014	012	014
042	029	014	000	012	023	018	033	043	041	040	041	045
027	027	008	000	002	018	027	029	026	024	023	026	029
058	032	029	020	000	001	023	011	024	030	038	049	055
034	021	010	005	020	007	000	029	032	016	019	023	029
029	019	007	000	001	004	009	017	022	020	021	024	028
030	021	014	010	000	007	013	023	036	036	026	024	019
024	023	003	010	005	000	004	002	011	018	021	019	021
018	010	003	006	007	000	005	011	013	022	009	006	004
014	000	005	004	007	004	012	014	009	022	022	023	023
044	028	032	026	014	000	002	001	043	044	025	040	037
024	014	009	009	005	000	005	008	020	026	019	020	019
—	—	—	—	—	—	—	—	—	—	—	—	—
014	008	011	007	000	002	001	000	005	013	008	011	015
016	016	011	012	008	000	008	014	017	014	015	013	017
016	011	006	000	010	011	009	014	016	015	013	012	008
004	010	008	002	006	000	003	006	003	005	002	003	008
009	008	006	002	003	000	002	005	007	009	006	007	009
—	—	—	—	—	—	—	—	—	—	—	—	—
011	010	007	007	008	005	004	004	002	002	000	002	002
020	015	013	013	008	005	003	004	002	000	007	007	007
000	004	002	004	003	000	001	008	009	008	007	003	004
058	018	027	026	043	000	000	011	008	034	032	042	049
020	010	010	011	013	001	000	005	003	009	009	012	013

TABLE XXXVIII.

Table showing the Mean Diurnal Variation of the Vertical Force in each Month of the Year, derived from the preceding Table.

Astron. Time at } Toronto.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . .	007	011	515	019	016	019	018	019	019	017	016	012
February . .	008	011	017	019	022	023	022	023	023	018	017	014
March . . .	006	011	017	022	023	025	026	028	025	023	015	007
April . . .	015	024	028	033	037	038	037	034	030	028	021	008
May . . . .	011	017	026	032	037	042	039	038	033	029	021	016
June . . . .	002	004	011	017	021	023	023	022	018	015	011	008
July . . . .	015	018	027	034	040	044	041	038	032	523	021	014
August . . .	028	033	040	046	052	052	048	044	039	030	022	009
September . .	036	046	052	056	056	051	050	048	044	038	031	029
October . . .	025	031	035	037	036	039	038	040	038	032	029	024
November . .	013	018	026	027	031	029	027	031	028	021	016	009
December . .	016	022	030	030	030	028	029	030	028	028	025	020
April to Septem- ber inclusive }	017	023	030	035	040	041	039	036	032	031	020	013
October to March inclusive . }	013	017	023	026	026	027	027	028	027	023	021	014
Mean of the whole Year. }	015	019	025	029	031	032	031	031	028	023	018	012
Astron. Time at } Toronto.	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . . .	008	007	002	001	001	001	004	005	007	001	000	003
February . . .	007	001	000	001	000	002	004	004	015	005	002	002
March . . . .	002	000	000	000	000	001	007	010	011	006	003	002
April . . . .	004	003	000	001	003	006	014	011	012	012	011	011
May . . . . .	007	008	000	003	011	014	020	017	017	013	009	009
June . . . . .	004	000	001	000	006	011	014	013	011	007	004	001
July . . . . .	007	001	000	003	007	014	017	018	018	017	014	014
August . . . .	005	001	003	000	007	019	028	029	027	024	024	024
September . .	019	007	000	001	004	009	017	022	020	021	024	028
October . . . .	014	009	009	005	000	005	008	020	026	019	020	019
November . . .	008	006	002	003	000	002	005	007	009	006	007	009
December . . .	010	010	011	013	001	000	005	003	009	009	012	013
April to Septem- ber inclusive }	007	002	000	001	005	011	017	017	016	015	013	014
October to March inclusive . }	008	006	004	004	000	002	005	008	013	008	007	008
Mean of the whole Year. }	006	002	000	001	001	005	010	011	013	010	009	009

TABLE XXXIX.

*Exhibits the Differences of the Vertical Force at each observation hour from the Mean Force in the Month ; the sign + implies that the force is greater than the Mean Force, and - that it is less.*

Astron. Time at Toronto. } 0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>	
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	
January . . .	-002	+002	+006	+010	+007	+010	+009	+010	+010	+008	+007	+003
February . . .	-002	+001	+007	+009	+012	+013	+012	+013	+013	+008	+007	+004
March . . .	-005	000	+006	+011	+012	+014	+015	+017	+014	+012	+004	-004
April . . .	-002	+007	+011	+016	+020	+021	+020	+017	+013	+011	+004	-009
May . . .	-009	-003	+006	+012	+017	+022	+019	+018	+013	+009	+001	-004
June . . .	-008	-006	+001	+007	+011	+013	+013	+012	+008	+005	+001	-002
July . . .	-005	-002	+007	+014	+020	+024	+021	+018	+012	+003	+001	-006
August . . .	+002	+007	+014	+020	+026	+026	+022	+018	+013	+004	-004	-017
September . . .	+006	+016	+022	+026	+026	+021	+020	+018	+014	+008	+001	-001
October . . .	+002	+008	+012	+014	+013	+016	+015	+017	+015	+009	+006	+001
November . . .	-001	+004	+012	+013	+017	+015	+013	+017	+014	+007	+002	-005
December . . .	-001	+005	+013	+013	+013	+011	+012	+013	+011	+011	+008	+003
Mean of the whole Year. }	-002	+003	+010	+014	+016	+017	+016	+016	+013	+008	+003	-003

Astron. Time at Toronto. } 12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>	
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	
January . . .	-001	-002	-007	-008	-008	-008	-005	-004	-002	-008	-009	-006
February . . .	-003	-009	-010	-009	-010	-008	-006	-006	+005	-005	-008	-008
March . . .	-009	-011	-011	-011	-011	-010	-004	-001	000	-005	-008	-009
April . . .	-013	-014	-017	-016	-014	-011	-003	-006	-005	-005	-006	-006
May . . .	-013	-012	-020	-017	-009	-006	000	-003	-003	-007	-011	-011
June . . .	-006	-010	-009	-010	-004	+001	+004	+003	+001	-003	-006	-009
July . . .	-013	-019	-020	-017	-013	-006	-003	-002	-002	-003	-006	-006
August . . .	-021	-025	-023	-026	-019	-007	+002	+003	+001	-002	-002	-002
September . . .	-011	-023	-030	-029	-026	-021	-013	-008	-010	-009	-006	-002
October . . .	-009	-014	-014	-018	-023	-018	-015	-003	+003	-004	-003	-004
November . . .	-006	-008	-012	-011	-014	-012	-009	-007	-005	-008	-007	-005
December . . .	-007	-007	-006	-004	-016	-017	-012	-014	-008	-008	-005	-004
Mean of the whole Year. }	-009	-013	-015	-015	-014	-010	-005	-004	-002	-006	-006	-006

The diurnal variation of the vertical force at Toronto, in both seasons, *i. e.*, from April to September inclusive, and from October to March inclusive, is a double progression, having two maxima and two minima. The principal maximum takes place two hours earlier from April to September than from October to March, *viz.*, at 5<sup>h</sup> from April to September, and at 7<sup>h</sup> from October to March. From this maximum the diminution is progressive to the principal minimum, which also occurs earlier from April to September than from October to March; *i. e.*, between 14<sup>h</sup> and 15<sup>h</sup> from April to September, and at 16<sup>h</sup> from October to March. The secondary minimum is at 22<sup>h</sup> in both seasons. The range of the diurnal variation is greater during the six months when the sun is north of the equator, or from April to September, than in the opposite season.

#### DIURNAL VARIATIONS OF THE INCLINATION AND TOTAL FORCE.

Having then the diurnal variation of the horizontal and of the vertical force, we may derive from them the diurnal variations of their theoretical equivalents, the inclination and the total force. The diurnal variation of the inclination is shown in Tables XL., XLI., and XLII.;—that of the total force in Tables XLIII., XLIV., and XLV.

*Diurnal Variation of the Inclination.*—(Tables XL., XLI., XLII., pp. lxxii. to lxxvii). The magnetic inclination at Toronto has a principal minimum in all months of the year about the hour of 4, occurring, however, somewhat earlier from April to September than from October to March; and a principal maximum about 22<sup>h</sup> or 23<sup>h</sup>, occurring also earlier from April to September than from October to March. The progression from the maximum at 22<sup>h</sup> or 23<sup>h</sup> to the minimum at 4<sup>h</sup> is continuous and rapid. From April to September the inclination increases, with occasional very slight interruptions, from the minimum at 4<sup>h</sup> to the maximum at 22<sup>h</sup>. At this season, therefore, the diurnal variation scarcely differs from a single progression, the decrease taking place in the six hours from 22<sup>h</sup> to 4<sup>h</sup>, and the increase more slowly in the remaining eighteen hours. In the opposite season, from October to March, a secondary maximum shows itself at from 12<sup>h</sup> to 14<sup>h</sup>, and a secondary minimum at about 18<sup>h</sup>.

*Diurnal Variation of the Total Force.*—(Tables XLIII., XLIV., XLV., pp. lxxviii. to lxxxiii.). The Total Force at Toronto has a principal maximum at 5<sup>h</sup> at all seasons, and a principal minimum between 15<sup>h</sup> and 16<sup>h</sup>, occurring earlier from April to September than from October to March; the decrease from the maximum at 5<sup>h</sup> to the minimum at 15<sup>h</sup> or 16<sup>h</sup> is continuous and uninterrupted at all seasons. From the minimum at 15<sup>h</sup> or 16<sup>h</sup> the force increases to a secondary maximum, varying in its occurrence in different months from 18<sup>h</sup> to 20<sup>h</sup>, and being earliest in the months from April to September. A decrease then takes place to a secondary minimum at

22<sup>h</sup> or 23<sup>h</sup> (earlier also from April to September); and from this secondary minimum to the principal maximum at 5<sup>h</sup> the increase is continuous. There is, therefore, at all the seasons of the year, a double progression in the diurnal variation of the Total Force, having—

- A principal maximum at . . . 5 hours
- A principal minimum at 15 or 16 „
- A secondary maximum at 18 to 20 „
- A secondary minimum at 22 or 23 „

If we compare the deduction now made from the series of 5½ years of hourly observation with that drawn from the two-hourly series of observations from 1841 and 1842 in Vol. I. pp. lxi. and lxii., we find the accordance to be most satisfactory, but as might be expected, the deduction from the more extensive series has greater precision.

---



TABLE XL.—*Diurnal Variation of the Inclination in the several*  
The lowest Monthly Mean occurring at any of the observation hours has

Astronomical Time at Toronto.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	
JANUARY.	1843	1.26	0.98	0.67	0.37	0.00	0.10	0.28	0.27	0.26	0.41	0.44
	1844 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	1845	0.64	0.48	0.35	0.15	0.00	0.10	0.25	0.20	0.15	0.27	0.20
	1846	1.20	0.95	0.68	0.30	0.00	0.10	0.20	0.37	0.50	0.54	0.54
	1847	1.06	0.81	0.46	0.14	0.00	0.08	0.01	0.11	0.25	0.30	0.33
	1848	1.65	1.31	1.06	0.63	0.04	0.00	0.20	0.21	0.27	0.29	0.27
Reduced Means	1.15	0.90	0.63	0.31	0.00	0.07	0.18	0.22	0.28	0.35	0.35	
FEBRUARY.	1843 <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—
	1844	0.62	0.39	0.15	0.00	0.10	0.00	0.17	0.16	0.27	0.29	0.50
	1845	0.79	0.66	0.40	0.15	0.07	0.00	0.08	0.18	0.31	0.29	0.24
	1846	0.70	0.49	0.29	0.00	0.07	0.12	0.29	0.22	0.31	0.37	0.36
	1847	0.88	0.59	0.44	0.17	0.00	0.10	0.07	0.26	0.30	0.40	0.25
	1848	1.81	1.48	1.26	0.69	0.08	0.00	0.45	0.32	0.21	0.40	0.45
Reduced Means	0.92	0.68	0.47	0.16	0.02	0.00	0.17	0.19	0.24	0.31	0.32	
MARCH.	1843	0.00	0.07	0.33	0.53	0.56	0.56	0.56	0.51	0.40	0.61	0.72
	1844	1.05	0.88	0.45	0.00	0.03	0.14	0.24	0.35	0.35	0.43	0.45
	1845	1.23	0.87	0.53	0.17	0.00	0.07	0.22	0.35	0.32	0.36	0.51
	1846	1.36	1.14	0.78	0.36	0.14	0.06	0.00	0.16	0.20	0.25	0.31
	1847	1.42	1.13	0.74	0.27	0.02	0.00	0.40	0.43	0.56	0.65	0.79
	1848	1.97	1.40	0.85	0.34	0.06	0.00	0.21	0.41	0.54	0.66	0.63
Reduced Means	1.03	0.78	0.47	0.14	0.00	0.00	0.13	0.23	0.26	0.35	0.43	
APRIL.	1843	0.16	0.55	1.06	1.22	1.21	1.10	0.88	0.87	0.53	0.73	0.91
	1844	1.24	0.88	0.52	0.19	0.20	0.00	0.31	0.47	0.73	0.79	0.68
	1845	1.58	1.40	1.06	0.52	0.34	0.00	0.08	0.17	0.41	0.48	0.51
	1846	1.23	0.95	0.57	0.18	0.00	0.10	0.20	0.46	0.51	0.76	0.49
	1847	1.90	1.32	0.60	0.25	0.00	0.21	0.50	0.90	1.09	1.33	1.41
	1848	1.67	1.37	0.92	0.37	0.09	0.00	0.20	0.72	1.06	0.83	0.79
Reduced Means	1.06	0.84	0.55	0.22	0.07	0.00	0.12	0.36	0.48	0.58	0.56	
MAY.	1843	0.24	0.60	0.87	0.88	1.09	1.43	1.29	0.60	0.36	0.48	0.54
	1844	0.88	0.49	0.21	0.05	0.00	0.03	0.36	0.68	0.73	0.76	0.64
	1845	1.09	0.65	0.31	0.16	0.00	0.07	0.29	0.37	0.59	0.83	0.81
	1846	1.26	0.77	0.26	0.15	0.00	0.10	0.41	0.61	0.82	1.03	1.00
	1847	1.19	0.63	0.24	0.04	0.00	0.11	0.27	0.62	0.93	0.88	0.98
	1848	1.42	1.05	0.53	0.17	0.00	0.00	0.06	0.14	0.54	0.84	0.98
Reduced Means	0.83	0.52	0.22	0.06	0.00	0.11	0.27	0.32	0.48	0.62	0.65	
JUNE.	1843	0.22	0.55	0.85	0.76	0.84	0.69	0.49	0.33	0.37	0.30	0.30
	1844	0.84	0.56	0.18	0.07	0.00	0.00	0.22	0.34	0.49	0.66	0.73
	1845	1.17	0.76	0.28	0.09	0.00	0.03	0.21	0.44	0.56	0.70	0.73
	1846	1.20	0.94	0.47	0.23	0.19	0.00	0.11	0.40	0.85	1.30	1.24
	1847	1.37	0.91	0.31	0.06	0.00	0.12	0.37	0.69	0.95	1.04	1.15
	1848	1.56	0.88	0.49	0.11	0.00	0.22	0.58	0.87	1.03	1.06	1.27
Reduced Means	0.89	0.60	0.26	0.05	0.00	0.01	0.16	0.34	0.54	0.67	0.73	

<sup>a</sup> The vertical force magnetometer not observed.

<sup>b</sup> The bifilar series in this month much interrupted and broken.

DIURNAL VARIATION OF THE INCLINATION.

lxxiii

Months from January 1843 to June 1848, inclusive.  
 been taken as the Zero for the Month, and represents the least North Inclination.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
0.46	0.46	0.42	0.34	0.32	0.17	0.03	0.12	0.05	0.14	0.41	0.70	1.08
0.22	0.41	0.36	0.40	0.33	0.27	0.18	0.02	0.03	0.24	0.51	0.70	0.78
0.46	0.71	0.76	0.78	0.71	0.54	0.56	0.49	0.49	0.62	0.71	1.10	1.24
0.37	0.43	0.43	0.44	0.37	0.29	0.32	0.23	0.23	0.26	0.50	0.88	1.01
0.49	0.81	0.81	1.15	0.68	0.56	0.46	0.37	0.41	0.58	0.82	1.16	1.61
0.39	0.55	0.55	0.61	0.47	0.36	0.30	0.24	0.23	0.36	0.58	0.80	1.13
0.47	0.51	0.50	0.54	0.51	0.45	0.41	0.46	0.49	0.65	0.61	0.61	0.64
0.38	0.22	0.39	0.30	0.30	0.23	0.17	0.12	0.34	0.53	0.66	0.78	0.83
0.26	0.45	0.43	0.41	0.44	0.46	0.46	0.34	0.47	0.73	0.95	0.78	0.75
0.41	0.48	0.48	0.49	0.50	0.43	0.39	0.48	0.56	0.97	0.94	1.14	0.97
0.39	0.73	1.09	1.20	0.94	0.98	0.66	0.48	1.57	1.37	0.96	1.29	1.73
0.34	0.44	0.54	0.55	0.50	0.47	0.38	0.34	0.65	0.81	0.78	0.88	0.94
0.91	1.03	1.11	1.16	1.42	1.51	1.60	1.39	1.33	1.14	0.86	1.39	0.00
0.43	0.18	0.43	0.39	0.22	0.18	0.23	0.25	0.32	0.60	0.85	0.85	0.90
0.49	0.38	0.42	0.46	0.49	0.46	0.42	0.34	0.59	0.82	0.95	1.14	1.36
0.22	0.40	0.39	0.38	0.47	0.32	0.28	0.48	0.63	0.80	1.06	1.23	1.34
0.88	0.68	0.68	0.64	0.70	0.62	0.52	0.51	0.84	1.09	1.35	1.55	1.55
0.78	0.94	1.04	0.81	0.61	0.51	0.59	0.62	0.89	1.31	1.59	1.84	2.02
0.48	0.46	0.52	0.50	0.51	0.46	0.47	0.46	0.63	0.69	0.97	1.19	1.06
0.88	0.99	1.06	1.06	1.10	1.47	1.73	1.72	1.63	1.18	0.65	0.21	0.00
0.84	0.89	0.89	0.91	0.91	0.78	0.61	1.11	0.98	1.09	1.35	1.42	1.35
0.53	0.52	0.63	0.63	0.67	0.57	0.57	0.59	0.63	0.71	0.90	1.30	1.71
0.67	0.70	0.59	0.64	0.58	0.48	0.62	0.64	0.80	1.07	1.26	1.38	1.38
1.53	1.33	1.63	2.48	1.83	1.55	1.23	1.31	1.78	2.00	2.19	2.45	2.33
1.56	1.03	1.23	2.32	2.28	1.05	0.85	1.03	1.12	1.42	1.83	2.08	2.03
0.76	0.67	0.77	1.10	0.99	0.74	0.70	0.83	0.92	1.01	1.12	1.23	1.23
0.68	0.67	0.87	1.05	1.24	1.38	1.52	1.44	1.32	0.90	0.31	0.00	0.12
0.71	0.84	0.90	0.85	0.85	0.85	0.94	0.95	0.97	1.10	1.30	1.40	1.20
0.69	0.84	0.96	0.91	0.97	0.91	1.06	0.96	0.98	1.13	1.46	1.55	1.86
1.06	1.21	1.17	1.07	1.17	1.16	1.35	1.26	1.35	1.66	2.13	2.02	1.63
1.00	1.06	1.08	1.27	1.83	1.29	1.54	1.69	1.34	1.57	1.89	1.92	1.73
0.97	0.93	1.21	1.23	0.95	1.07	1.10	1.10	1.18	1.51	1.84	1.98	1.80
0.67	0.75	0.85	0.88	0.99	0.93	1.07	1.05	1.01	1.13	1.31	1.30	1.13
0.41	0.49	0.67	0.80	0.85	1.02	1.16	1.52	1.27	0.96	0.50	0.12	0.00
0.82	0.83	0.82	0.92	1.03	1.08	1.08	1.05	1.06	1.16	1.29	1.30	1.10
0.80	0.90	0.93	0.94	0.97	0.96	0.93	0.82	0.88	1.05	1.44	1.62	1.48
1.34	1.31	1.25	1.16	1.30	1.34	1.21	1.30	1.46	1.61	1.73	1.85	1.63
1.15	1.16	1.19	1.16	1.26	1.25	1.29	1.24	1.36	1.45	1.65	1.96	1.84
1.47	1.38	1.53	1.49	1.51	1.61	1.68	1.57	1.69	1.79	2.01	2.36	2.16
0.83	0.84	0.90	0.91	0.98	1.04	1.06	1.08	1.12	1.17	1.27	1.37	1.20

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XL—(continued.)—Diurnal Variation of the Inclination in the several

Astronomical Time at Toronto.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JULY.	1843	0.28	0.59	0.96	1.27	1.19	1.13	0.84	0.62	0.45	0.40	0.49
	1844	1.00	0.60	0.11	0.07	0.00	0.15	0.33	0.47	0.62	0.67	0.76
	1845	0.95	0.71	0.26	0.02	0.00	0.04	0.17	0.26	0.42	0.46	0.70
	1846	1.22	1.39	0.41	0.21	0.07	0.00	0.42	0.61	1.11	0.93	0.99
	1847	1.25	0.76	0.27	0.00	0.05	0.25	0.41	0.53	0.65	0.87	1.11
Reduced Means	0.68	0.55	0.14	0.05	0.00	0.05	0.17	0.24	0.39	0.41	0.55	
AUGUST.	1843	0.24	0.71	1.09	1.05	1.20	0.91	0.60	0.48	0.40	0.39	0.53
	1844	1.13	0.66	0.25	0.00	0.03	0.19	0.56	0.72	0.76	0.64	0.61
	1845	1.09	0.75	0.31	0.05	0.00	0.25	0.38	0.56	0.67	0.69	0.68
	1846	1.30	0.60	0.21	0.05	0.09	0.00	0.66	1.02	1.06	1.11	1.00
	1847	1.73	1.04	0.42	0.09	0.00	0.06	0.25	0.44	0.42	0.58	0.79
Reduced Means	0.85	0.50	0.21	0.00	0.01	0.03	0.24	0.39	0.41	0.43	0.47	
SEPTEMBER.	1843	1.07	0.57	0.24	0.00	0.09	0.21	0.34	0.49	0.58	0.60	0.51
	1844	1.14	0.61	0.31	0.12	0.00	0.01	0.20	0.39	0.51	0.76	0.78
	1845	0.98	0.55	0.19	0.21	0.00	0.18	0.30	0.46	0.52	0.51	0.50
	1846	1.71	1.12	0.47	0.00	0.19	0.30	0.63	0.74	0.67	0.55	0.71
	1847	2.36	1.41	0.92	0.28	0.00	0.04	1.15	0.55	0.63	0.63	0.52
Reduced Means	1.39	0.79	0.37	0.06	0.00	0.09	0.46	0.47	0.52	0.55	0.54	
OCTOBER.	1843	0.62	0.58	0.30	0.13	0.00	0.03	0.19	0.33	0.29	0.37	0.37
	1844	0.99	0.63	0.29	0.19	0.00	0.08	0.13	0.19	0.33	0.28	0.32
	1845	0.59	0.41	0.24	0.00	0.07	0.18	0.37	0.42	0.59	0.66	0.63
	1846	1.21	0.90	0.57	0.18	0.00	0.09	0.47	0.57	0.59	0.57	0.57
	1847	1.25	1.10	0.63	0.57	0.12	0.07	0.00	0.26	0.34	0.39	0.44
Reduced Means	0.89	0.68	0.37	0.17	0.00	0.05	0.19	0.31	0.39	0.41	0.43	
NOVEMBER.	1843 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	1844	0.73	0.60	0.32	0.05	0.02	0.11	0.07	0.31	0.34	0.27	0.19
	1845	0.84	0.67	0.44	0.23	0.15	0.14	0.11	0.00	0.02	0.18	0.11
	1846	1.06	0.92	0.63	0.38	0.27	0.40	0.41	0.41	0.40	0.32	0.35
	1847	1.48	1.14	0.59	0.26	0.18	0.19	0.10	0.03	0.12	0.21	0.85
Reduced Means	1.01	0.81	0.47	0.22	0.13	0.19	0.15	0.17	0.20	0.22	0.35	
DECEMBER.	1843 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	1844	0.90	0.66	0.42	0.27	0.00	0.09	0.13	0.19	0.28	0.51	0.61
	1845	0.88	0.81	0.52	0.27	0.07	0.03	0.10	0.17	0.12	0.27	0.30
	1846	1.04	0.83	0.47	0.12	0.00	0.00	0.08	0.29	0.37	0.29	0.21
	1847	2.00	1.85	1.32	1.05	0.56	0.50	0.41	0.00	0.47	0.60	0.82
Reduced Means	1.05	0.89	0.53	0.28	0.01	0.00	0.03	0.01	0.16	0.27	0.33	

<sup>a</sup> The Vertical Force Magnetometer not observed.

DIURNAL VARIATION OF THE INCLINATION.

lxxv

Months, from July 1843 to December 1847, inclusive.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .
0.68	0.91	0.90	1.09	1.23	1.27	1.39	1.27	1.06	0.72	0.37	0.01	0.00
0.71	0.73	0.80	0.91	0.93	0.96	1.01	0.92	0.89	1.17	1.56	1.80	1.53
0.68	0.67	0.60	0.68	0.72	0.75	0.70	0.76	0.76	0.89	1.19	1.45	1.31
1.17	1.16	0.79	0.92	1.21	1.19	1.31	1.21	1.23	1.27	1.43	1.71	1.42
0.95	1.06	1.31	1.07	1.17	1.39	1.30	1.22	1.37	1.69	1.93	1.99	1.68
0.58	0.65	0.62	0.67	0.79	0.85	0.88	0.82	0.80	0.89	1.04	1.13	0.93
0.58	0.81	0.89	1.06	1.18	1.16	1.42	1.59	1.40	0.88	0.29	0.01	0.00
0.65	0.61	0.76	0.76	0.75	0.82	0.82	0.83	1.03	1.27	1.84	1.89	1.64
0.65	0.73	0.75	0.76	0.90	0.88	0.80	0.98	1.17	1.41	1.52	1.65	1.50
1.00	0.78	0.93	0.85	0.89	1.03	1.40	1.38	1.43	1.59	2.02	2.02	1.70
1.11	0.94	1.07	1.03	1.17	1.02	0.97	1.04	1.19	1.52	1.83	1.99	2.05
0.55	0.52	0.63	0.64	0.73	0.73	0.83	0.90	0.99	1.08	1.25	1.26	1.13
0.63	0.61	0.59	0.62	0.58	0.48	0.53	0.58	0.71	1.14	1.50	1.53	1.38
0.73	0.80	0.97	0.86	0.84	0.61	0.77	0.58	0.86	1.27	1.63	1.81	1.64
0.53	0.75	0.65	0.44	0.56	0.45	0.50	0.50	0.76	1.08	1.40	1.57	1.37
0.80	0.50	0.71	1.07	1.03	0.85	0.64	0.98	1.30	1.65	1.94	2.21	2.11
0.75	0.86	0.79	0.79	0.96	0.74	1.00	1.66	2.09	1.60	2.17	2.51	2.60
0.53	0.64	0.68	0.70	0.73	0.57	0.63	0.80	1.08	1.29	1.67	1.87	1.76
0.49	0.48	0.41	0.37	0.21	0.20	0.20	0.27	0.47	0.62	0.63	0.75	0.77
0.24	1.00	0.39	0.33	0.32	0.27	0.34	0.28	0.44	0.76	1.15	1.30	1.20
0.67	0.66	0.57	0.47	0.42	0.23	0.25	0.31	0.51	0.72	0.75	0.75	0.76
0.86	0.87	0.67	0.66	0.49	0.25	0.20	0.24	0.55	0.97	1.29	1.39	1.39
0.37	1.38	0.99	1.79	0.85	1.71	0.58	0.76	1.67	2.23	2.16	1.76	1.72
0.49	0.84	0.57	0.68	0.42	0.49	0.27	0.33	0.69	1.02	1.16	1.15	1.13
—	—	—	—	—	—	—	—	—	—	—	—	—
0.22	0.23	0.26	0.27	0.26	0.19	0.06	0.04	0.00	0.22	0.46	0.77	0.81
0.23	0.33	0.32	0.29	0.14	0.04	0.06	0.03	0.00	0.39	0.80	0.90	1.04
0.46	0.40	0.39	0.21	0.26	0.24	0.17	0.00	0.13	0.47	0.87	0.99	1.10
0.31	0.63	0.70	0.47	0.41	0.29	0.17	0.00	0.43	0.70	1.02	1.23	1.50
0.28	0.38	0.40	0.29	0.25	0.17	0.09	0.00	0.12	0.42	0.77	0.95	1.09
—	—	—	—	—	—	—	—	—	—	—	—	—
0.52	0.64	0.61	0.59	0.52	0.43	0.31	0.14	0.16	0.28	0.36	0.73	0.87
0.33	0.36	0.33	0.34	0.27	0.16	0.16	0.49	0.00	0.06	0.32	0.64	0.76
0.10	0.33	0.31	0.23	0.21	0.13	0.11	0.09	0.15	0.39	0.57	0.86	1.05
0.90	1.08	1.33	1.02	1.15	1.22	2.03	1.62	1.52	1.52	1.91	1.83	1.84
0.31	0.45	0.49	0.39	0.39	0.33	0.50	0.43	0.31	0.41	0.64	0.86	0.98

TABLE XLI.

Showing the Mean Diurnal Variation of the Inclination in the several Months of the Year, derived from Table XL.

Astron. Time at Toronto. } 0 <sup>h</sup> 1 <sup>h</sup> 2 <sup>h</sup> 3 <sup>h</sup> 4 <sup>h</sup> 5 <sup>h</sup> 6 <sup>h</sup> 7 <sup>h</sup> 8 <sup>h</sup> 9 <sup>h</sup> 10 <sup>h</sup> 11 <sup>h</sup>												
January . . .	1·15	0·90	0·63	0·31	0·00	0·07	0·18	0·22	0·28	0·35	0·35	0·39
February . . .	0·92	0·68	0·47	0·16	0·02	0·00	0·17	0·19	0·24	0·31	0·32	0·34
March . . .	1·03	0·78	0·47	0·14	0·00	0·00	0·13	0·23	0·26	0·35	0·43	0·48
April . . .	1·06	0·84	0·55	0·22	0·07	0·00	0·12	0·36	0·48	0·58	0·56	0·76
May . . .	0·83	0·52	0·22	0·06	0·00	0·11	0·27	0·32	0·48	0·62	0·65	0·67
June . . .	0·89	0·60	0·26	0·05	0·00	0·01	0·16	0·34	0·54	0·67	0·73	0·83
July . . .	0·68	0·55	0·14	0·05	0·00	0·05	0·17	0·24	0·39	0·41	0·55	0·58
August . . .	0·85	0·50	0·21	0·00	0·01	0·03	0·24	0·39	0·41	0·43	0·47	0·55
September . . .	1·39	0·79	0·37	0·06	0·00	0·09	0·46	0·47	0·52	0·55	0·54	0·53
October . . .	0·89	0·68	0·37	0·17	0·00	0·05	0·19	0·31	0·39	0·41	0·43	0·49
November . . .	1·01	0·81	0·47	0·22	0·13	0·19	0·15	0·17	0·20	0·22	0·35	0·28
December . . .	1·05	0·89	0·53	0·28	0·01	0·00	0·03	0·01	0·16	0·27	0·33	0·31
April to September inclusive	0·94	0·62	0·28	0·06	0·00	0·04	0·23	0·34	0·46	0·53	0·57	0·64
October to March inclusive . . .	0·98	0·76	0·46	0·18	0·00	0·02	0·11	0·17	0·22	0·29	0·34	0·32
Mean of the whole Year .	0·96	0·69	0·37	0·12	0·00	0·03	0·17	0·25	0·34	0·41	0·46	0·50

Astron. Time at Toronto. } 12 <sup>h</sup> 13 <sup>h</sup> 14 <sup>h</sup> 15 <sup>h</sup> 16 <sup>h</sup> 17 <sup>h</sup> 18 <sup>h</sup> 19 <sup>h</sup> 20 <sup>h</sup> 21 <sup>h</sup> 22 <sup>h</sup> 23 <sup>h</sup>												
January . . .	0·55	0·55	0·61	0·47	0·36	0·30	0·24	0·23	0·36	0·58	0·80	1·13
February . . .	0·44	0·54	0·55	0·50	0·47	0·38	0·34	0·65	0·81	0·78	0·88	0·94
March . . .	0·46	0·52	0·50	0·51	0·46	0·47	0·46	0·63	0·69	0·97	1·19	1·06
April . . .	0·67	0·77	1·10	0·99	0·74	0·70	0·83	0·92	1·01	1·12	1·23	1·23
May . . .	0·75	0·85	0·88	0·99	0·93	1·07	1·05	1·01	1·13	1·31	1·30	1·13
June . . .	0·84	0·90	0·91	0·98	1·04	1·06	1·08	1·12	1·17	1·27	1·37	1·20
July . . .	0·65	0·62	0·67	0·79	0·85	0·88	0·82	0·80	0·89	1·04	1·13	0·93
August . . .	0·52	0·63	0·64	0·73	0·73	0·83	0·90	0·99	1·08	1·25	1·26	1·13
September . . .	0·64	0·68	0·70	0·73	0·57	0·63	0·80	1·08	1·29	1·67	1·87	1·76
October . . .	0·84	0·57	0·68	0·42	0·49	0·27	0·33	0·69	1·02	1·16	1·15	1·13
November . . .	0·38	0·40	0·29	0·25	0·17	0·09	0·00	0·12	0·42	0·77	0·95	1·09
December . . .	0·45	0·49	0·39	0·39	0·33	0·50	0·43	0·31	0·41	0·64	0·86	0·98
April to September inclusive	0·67	0·73	0·81	0·86	0·80	0·85	0·90	0·98	1·09	1·27	1·35	1·22
October to March inclusive . . .	0·49	0·48	0·47	0·39	0·35	0·31	0·27	0·41	0·59	0·79	0·94	1·03
Mean of the whole Year .	0·58	0·61	0·56	0·63	0·58	0·58	0·59	0·69	0·84	1·03	1·15	1·12

TABLE XLII.

*Exhibiting the Differences of the Inclination at each observation hour from the Mean in the Month; the sign + implies that the North Inclination is greater than the Mean Inclination, and - that it is less.*

Astron. Time at Toronto. } 0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
January . . .	+0.69	+0.44	+0.17	-0.15	-0.46	-0.39	-0.28	-0.24	-0.18	-0.11	-0.11	-0.07
February . . .	+0.46	+0.22	+0.01	-0.30	-0.44	-0.46	-0.29	-0.27	-0.22	-0.15	-0.14	-0.12
March . . .	+0.52	+0.27	-0.04	-0.37	-0.51	-0.51	-0.38	-0.28	-0.25	-0.16	-0.08	-0.03
April . . .	+0.36	+0.14	-0.15	-0.48	-0.63	-0.70	-0.58	-0.34	-0.22	-0.12	-0.14	+0.06
May . . .	+0.12	-0.19	-0.49	-0.65	-0.71	-0.60	-0.44	-0.39	-0.23	-0.09	-0.06	-0.04
June . . .	+0.14	-0.15	-0.49	-0.70	-0.75	-0.74	-0.59	-0.41	-0.21	-0.08	-0.02	+0.08
July . . .	+0.10	-0.03	-0.44	-0.53	-0.58	-0.53	-0.41	-0.34	-0.19	-0.17	-0.03	-0.00
August . . .	+0.23	-0.12	-0.41	-0.62	-0.61	-0.59	-0.38	-0.23	-0.21	-0.19	-0.15	-0.07
September . .	+0.63	+0.03	-0.39	-0.70	-0.76	-0.67	-0.30	-0.29	-0.24	-0.21	-0.22	-0.23
October . . .	+0.35	+0.14	-0.17	-0.37	-0.54	-0.49	-0.35	-0.23	-0.15	-0.13	-0.11	-0.05
November . . .	+0.63	+0.43	+0.09	-0.16	-0.25	-0.19	-0.23	-0.21	-0.18	-0.16	-0.03	-0.10
December . . .	+0.69	+0.47	+0.11	-0.14	-0.41	-0.42	-0.39	-0.41	-0.26	-0.15	-0.09	-0.11
Mean of the whole Year. }	+0.41	+0.14	-0.18	-0.43	-0.55	-0.52	-0.39	-0.30	-0.21	-0.14	-0.10	-0.06

Astron. Time at Toronto. } 12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	
January . . .	+0.09	+0.09	+0.15	+0.01	-0.10	-0.16	-0.22	-0.23	-0.10	+0.12	+0.34	+0.67
February . . .	-0.02	+0.08	+0.09	+0.04	+0.01	-0.08	-0.12	+0.19	+0.35	+0.32	+0.42	+0.48
March . . .	-0.05	+0.01	-0.01	0.00	-0.05	-0.04	-0.05	+0.12	+0.18	+0.46	+0.68	+0.55
April . . .	-0.03	+0.07	+0.40	+0.29	+0.04	0.00	+0.13	+0.22	+0.31	+0.42	+0.53	+0.53
May . . .	+0.04	+0.14	+0.17	+0.28	+0.22	+0.36	+0.34	+0.30	+0.42	+0.60	+0.59	+0.42
June . . .	+0.09	+0.15	+0.16	+0.23	+0.29	+0.31	+0.33	+0.37	+0.42	+0.52	+0.62	+0.45
July . . .	+0.07	+0.04	+0.09	+0.21	+0.27	+0.30	+0.24	+0.22	+0.31	+0.46	+0.55	+0.35
August . . .	-0.10	+0.01	+0.02	+0.11	+0.11	+0.21	+0.28	+0.37	+0.46	+0.63	+0.64	+0.51
September . .	-0.12	-0.08	-0.06	-0.03	-0.19	-0.13	+0.04	+0.32	+0.53	+0.91	+1.11	+1.00
October . . .	+0.30	+0.03	+0.14	-0.12	-0.05	-0.27	-0.21	+0.15	+0.48	+0.62	+0.61	+0.59
November . . .	0.00	+0.02	-0.09	-0.13	-0.21	-0.29	-0.38	-0.26	+0.04	+0.39	+0.57	+0.71
December . . .	+0.03	+0.07	-0.03	-0.03	-0.09	+0.08	-0.01	-0.11	-0.01	+0.22	+0.44	+0.56
Mean of the whole Year. }	+0.03	+0.05	+0.09	+0.07	+0.02	+0.02	+0.03	+0.14	+0.29	+0.47	+0.59	+0.57

## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XLIII.—*Diurnal Variation of the Total Force in the several Months*  
 The lowest Monthly Mean occurring at any of the observation hours has

Astron. Time at Toronto.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
JANUARY.	1843	006	013	019	026	028	027	028	027	025	025
	1844 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—
	1845	006	012	019	022	024	039	026	028	027	024
	1846	000	008	016	017	017	015	013	011	011	017
	1847	006	008	013	024	015	018	020	017	016	012
	1848	015	020	024	032	035	033	038	041	041	035
Reduced Means	006	011	017	023	023	026	024	024	023	022	020
FEBRUARY.	1843 <sup>b</sup>	—	—	—	—	—	—	—	—	—	—
	1844	005	008	015	018	016	020	020	018	017	017
	1845	005	011	023	027	027	028	017	026	024	022
	1846	004	004	009	013	013	012	017	018	017	015
	1847	006	010	012	016	019	020	021	024	026	017
	1848	042	051	057	061	082	082	063	066	072	050
Reduced Means	007	012	018	022	026	027	025	025	026	019	019
MARCH.	1843	011	014	016	016	018	018	021	027	030	028
	1844	021	031	038	048	055	058	057	060	050	042
	1845	005	013	020	027	030	036	032	034	031	030
	1846	002	008	017	026	030	032	031	025	022	020
	1847	009	024	032	048	047	048	050	051	048	042
	1848	000	044	059	061	061	062	060	062	059	055
Reduced Means	000	014	022	030	032	034	034	035	032	028	021
APRIL.	1843	018	025	030	035	041	042	043	043	038	031
	1844	029	039	049	054	054	061	059	052	047	040
	1845	002	008	019	028	030	035	035	032	032	022
	1846	011	018	033	044	048	046	041	038	032	040
	1847	044	063	052	057	065	064	063	054	042	053
	1848	049	059	072	082	089	087	087	079	076	075
Reduced Means	020	029	037	044	050	050	049	044	039	038	029
MAY.	1843	002	005	013	018	026	037	039	033	028	021
	1844	007	011	019	027	032	038	038	037	032	023
	1845	009	017	028	037	042	043	039	035	030	027
	1846	018	028	046	052	062	066	050	042	035	033
	1847	044	054	061	068	071	076	073	070	066	065
	1848	023	037	051	060	063	062	060	068	058	050
Reduced Means	011	019	030	038	033	048	044	042	036	031	022
JUNE.	1843	004	007	009	013	020	023	026	024	020	017
	1844	006	011	016	021	026	027	023	022	020	019
	1845	004	006	018	026	032	034	033	028	025	020
	1846	014	016	030	039	041	043	044	044	032	025
	1847	008	014	023	032	038	035	036	030	027	020
	1848	002	009	024	031	033	041	033	032	024	022
Reduced Means	003	007	017	024	029	031	029	027	022	018	013

<sup>a</sup> The Vertical Force Magnetometer not observed.<sup>b</sup> The Biflar lenses in this month much interrupted and broken.

DIURNAL VARIATION OF THE TOTAL FORCE.

from January 1843 to June 1848 inclusive, in parts of the Total Force.  
 been taken as the Zero for the month, and expresses the least Force.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
020	009	011	009	009	009	012	010	012	015	007	000	000
017	008	006	003	001	003	000	008	008	006	000	000	002
012	012	006	003	004	002	009	010	010	012	005	001	000
013	010	008	011	011	011	010	012	013	010	003	001	000
021	019	020	001	000	004	004	010	012	017	010	005	005
016	011	009	004	004	005	006	009	010	011	004	000	000
—	—	—	—	—	—	—	—	—	—	—	—	—
013	014	010	010	009	011	012	010	011	014	004	000	001
017	003	002	006	005	000	007	008	006	010	007	003	000
013	008	004	005	009	009	008	012	015	018	003	001	000
010	005	010	006	004	005	005	004	002	011	003	000	000
049	044	012	000	008	005	014	022	005	039	043	036	033
015	010	003	000	002	001	004	006	003	013	007	003	002
017	008	002	000	004	005	005	009	012	012	011	005	007
026	000	011	014	009	016	015	022	030	028	025	020	018
027	013	016	015	016	015	019	021	021	018	008	005	000
020	016	012	011	014	013	017	025	019	018	012	007	000
000	025	022	025	017	019	021	029	028	029	020	017	019
036	030	015	016	010	017	008	016	025	028	021	018	020
013	007	005	006	004	006	006	012	015	014	008	004	003
014	008	010	003	000	003	005	016	012	015	013	012	012
029	024	025	014	000	019	007	003	004	022	023	022	024
019	017	014	009	012	017	020	017	017	012	007	002	000
014	007	005	009	000	006	017	021	019	013	008	005	003
037	042	035	000	008	021	027	042	028	025	036	034	039
008	008	000	017	013	030	035	054	054	050	045	042	042
014	012	009	004	000	010	013	020	016	017	016	014	014
014	000	000	000	005	009	008	014	012	013	011	007	005
008	004	000	002	005	010	014	016	016	012	006	001	000
021	016	018	014	011	016	019	021	018	010	005	000	002
008	000	009	014	012	008	005	021	019	015	011	010	015
056	040	055	002	005	031	036	047	039	049	015	000	038
032	023	000	005	008	023	027	024	024	024	015	018	017
017	008	008	000	002	010	012	018	015	014	004	000	007
009	013	003	003	001	006	006	009	009	010	009	007	000
013	011	008	007	006	006	009	006	006	002	000	002	004
017	014	010	009	007	010	012	014	014	010	004	000	003
012	009	000	002	000	005	017	021	020	020	018	013	009
011	001	000	004	005	014	021	022	017	014	010	003	001
016	012	005	004	002	015	019	029	029	019	006	001	000
010	005	001	002	001	006	011	014	013	010	005	001	000



## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE XLIII—(continued.)—Diurnal Variation of the Total Force in the several

Astron. Time at Toronto.	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>
	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00	·00
JULY.	1843	024	026	034	041	044	051	046	044	043	026
	1844	007	013	019	031	037	038	035	030	025	023
	1845	008	013	023	032	039	038	036	030	024	022
	1846	037	038	057	063	070	080	073	070	056	046
	1847	015	019	032	042	047	050	047	044	036	019
Reduced Means		015	019	030	039	044	048	044	041	034	024
AUGUST.	1843	030	031	034	039	043	042	040	041	036	030
	1844	016	027	041	047	050	053	049	046	037	029
	1845	034	042	053	059	070	063	061	053	052	043
	1846	070	080	089	105	111	119	101	093	086	067
	1847	019	027	036	042	047	046	040	035	031	026
Reduced Means		027	034	044	051	057	058	051	047	041	032
SEPTEMBER.	1843	014	023	032	039	045	043	039	036	032	033
	1844	047	060	067	071	070	066	066	062	057	046
	1845	030	042	053	053	056	054	051	048	044	041
	1846	060	084	094	103	095	085	081	075	072	066
	1847	034	050	057	070	070	063	061	060	049	046
Reduced Means		031	046	055	061	061	056	054	050	045	040
OCTOBER.	1843	018	023	033	038	041	040	041	042	040	035
	1844	019	030	035	041	041	042	037	037	038	034
	1845	007	012	018	022	021	026	023	022	024	023
	1846	027	032	038	045	044	047	048	054	041	025
	1847	054	062	070	064	062	067	066	067	065	061
Reduced Means		022	029	036	039	039	041	040	041	039	033
NOVEMBER.	1843	—	—	—	—	—	—	—	—	—	—
	1844	013	021	032	038	036	035	034	034	035	028
	1845	015	022	029	029	030	025	024	024	022	020
	1846	006	013	022	026	024	025	027	028	023	020
	1847	000	017	030	033	055	051	043	057	050	032
Reduced Means		004	013	023	027	031	029	027	031	028	020
DECEMBER.	1843 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—
	1844	004	012	016	020	023	021	020	020	018	017
	1845	005	012	022	031	030	028	027	027	018	018
	1846	001	006	011	012	015	016	016	016	016	014
	1847	052	059	080	075	080	075	080	086	083	084
Reduced Means		013	019	029	032	034	032	033	034	031	030

<sup>a</sup> The Vertical Force Magnetometer not observed.

DIURNAL VARIATION OF THE TOTAL FORCE.

lxxxi

Months, from January 1843 to December 1847, inclusive.

11 <sup>h</sup>	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
018 016 009 033 013	010 008 002 014 017	006 004 002 008 000	002 000 000 000 013	000 003 003 002 018	003 004 008 006 022	004 009 012 022 027	005 013 015 031 030	006 014 016 037 027	012 012 014 033 023	015 008 011 033 002	017 002 005 029 012	020 003 003 033 012
015	007	001	000	002	006	012	016	017	016	011	010	011
013 015 026 034 000	012 008 020 023 005	009 005 022 000 009	003 004 012 027 006	007 000 004 021 003	006 010 018 028 007	015 011 029 052 017	021 015 040 065 029	000 014 037 069 031	023 012 000 067 021	025 006 028 061 016	026 006 027 061 015	027 007 029 064 014
011	007	002	003	000	007	018	027	023	018	020	020	021
012 043 026 060 036	013 029 025 036 022	003 013 006 031 012	005 000 000 020 007	002 012 001 006 021	000 025 018 002 009	006 018 027 026 000	012 035 028 011 024	014 043 023 022 024	013 038 019 025 012	007 034 016 031 010	004 033 017 040 012	007 039 022 047 018
029	019	007	000	001	005	009	016	019	015	014	015	021
028 024 014 014 054	019 017 006 000 030	013 002 000 006 037	009 009 004 005 025	000 004 005 009 020	007 000 000 008 000	013 003 005 017 010	023 002 010 018 008	034 009 011 011 043	033 014 018 021 040	023 014 005 018 021	020 011 002 018 040	015 014 000 018 037
024	011	009	007	005	000	007	009	019	022	013	015	014
— 014 014 014 011	— 008 013 010 014	— 011 008 005 012	— 007 010 000 007	— 000 007 010 012	— 003 000 011 007	— 003 007 010 010	— 002 014 016 015	— 007 017 017 009	— 013 011 013 009	— 007 009 008 003	— 007 006 006 003	— 011 009 002 006
008	009	004	001	002	000	003	007	008	007	002	001	002
— 012 018 003 067	— 010 013 005 025	— 007 011 003 032	— 007 011 006 034	— 009 007 005 050	— 006 005 003 006	— 006 003 004 000	— 007 001 011 014	— 005 003 012 012	— 004 000 009 038	— 002 005 006 033	— 001 003 000 044	— 000 002 000 051
022	010	010	012	015	002	000	005	005	010	009	009	010

TABLE XLIV.

*Showing the mean Diurnal Variation of the Total Force in the several Months of the Year, derived from TABLE XLIII.*

Astronomical Time at Toronto. } }	0 <sup>h</sup>	1 <sup>h</sup>	2 <sup>h</sup>	3 <sup>h</sup>	4 <sup>h</sup>	5 <sup>h</sup>	6 <sup>h</sup>	7 <sup>h</sup>	8 <sup>h</sup>	9 <sup>h</sup>	10 <sup>h</sup>	11 <sup>h</sup>
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . . .	006	011	017	023	023	026	024	024	023	022	020	016
February . . .	007	012	018	022	026	027	025	025	026	019	019	015
March . . .	000	014	022	030	032	034	034	035	032	028	021	013
April . . .	020	029	037	044	050	050	049	044	039	038	029	014
May . . .	011	019	030	038	033	048	044	042	036	031	022	017
June . . .	003	007	017	024	029	031	029	027	022	018	013	010
July . . .	015	019	030	039	044	048	044	041	034	024	021	015
August . . .	027	034	044	051	057	058	051	047	041	032	024	011
September . . .	031	046	055	061	061	056	054	050	045	040	032	029
October . . .	022	029	036	039	039	041	040	041	039	033	029	024
November . . .	004	013	023	027	031	029	027	031	028	020	014	008
December . . .	013	019	029	032	034	032	033	034	031	030	026	022
April to Sept. } inclusive . . . }	017	025	034	042	045	048	044	041	035	030	022	015
Oct. to March } inclusive . . . }	007	014	022	027	029	030	029	030	028	023	020	014
Mean of the } whole Year . . }	010	018	027	033	035	037	035	034	030	025	020	013
Astronomical Time at Toronto. } }	12 <sup>h</sup>	13 <sup>h</sup>	14 <sup>h</sup>	15 <sup>h</sup>	16 <sup>h</sup>	17 <sup>h</sup>	18 <sup>h</sup>	19 <sup>h</sup>	20 <sup>h</sup>	21 <sup>h</sup>	22 <sup>h</sup>	23 <sup>h</sup>
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
January . . .	011	009	004	004	005	006	009	010	011	004	000	000
February . . .	010	003	000	002	001	004	006	003	013	007	003	002
March . . .	007	005	006	004	006	006	012	015	014	008	004	003
April . . .	012	009	004	000	010	013	020	016	017	016	014	014
May . . .	008	008	000	002	010	012	018	015	014	004	000	007
June . . .	005	001	002	001	006	011	014	013	010	005	001	000
July . . .	007	001	000	002	006	012	016	017	016	011	010	011
August . . .	007	002	003	000	007	018	027	023	018	020	020	021
September . . .	019	007	000	001	005	009	016	019	015	014	015	021
October . . .	011	009	007	005	000	007	009	019	022	013	015	014
November . . .	009	004	001	002	000	003	007	008	007	002	001	002
December . . .	010	010	012	015	002	000	005	005	010	009	009	010
April to Sept. } inclusive . . . }	009	004	001	000	006	012	018	017	014	011	009	011
Oct. to March } inclusive . . . }	008	005	003	003	000	002	006	008	011	005	004	003
Mean of the } whole Year . . }	007	003	006	000	002	005	010	011	011	006	005	006

DIURNAL VARIATION OF THE TOTAL FORCE.

lxxxiii

TABLE XLV.

*Exhibits the Differences of the Total Force at each observation hour from the Mean Force in the month; the sign + implies that the force is greater than its Mean value in the Month and - that it is less.*

Astron. Time at Toronto. } 0 <sup>h</sup> 1 <sup>h</sup> 2 <sup>h</sup> 3 <sup>h</sup> 4 <sup>h</sup> 5 <sup>h</sup> 6 <sup>h</sup> 7 <sup>h</sup> 8 <sup>h</sup> 9 <sup>h</sup> 10 <sup>h</sup> 11 <sup>h</sup>	
	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
January . .	-007 -002 +004 +010 +010 +013 +011 +011 +010 +009 +007 +003
February . .	-005 000 +006 +010 +014 +015 +013 +013 +014 +007 +007 +003
March . .	-016 -002 +006 +014 +016 +018 +018 +019 +016 +012 +005 -003
April . . .	-004 +005 +013 +020 +026 +026 +025 +020 +015 +014 +005 -010
May . . .	-014 -006 +005 +013 +008 +023 +019 +017 +011 +006 -003 -008
June . . .	-012 -008 +002 +009 +014 +016 +014 +012 +007 +003 -002 -005
July . . .	-005 -001 +010 +019 +024 +028 +024 +021 +014 +004 +001 -005
August . .	000 +007 +017 +024 +030 +031 +024 +020 +014 +005 -003 -016
September .	+002 +017 +026 +032 +032 +027 +025 +021 +016 +011 +003 000
October . .	000 +007 +014 +017 +017 +019 +018 +019 +017 +011 +007 +002
November .	-009 000 +010 +014 +018 +016 +014 +018 +015 +007 +001 -005
December .	-005 +001 +011 +014 +016 +014 +015 +016 +013 +012 +008 +004
Mean of the whole Year }	-006 +002 +010 +016 +019 +021 +018 +017 +014 +008 +003 -003
Astron. Time at Toronto. } 12 <sup>h</sup> 13 <sup>h</sup> 14 <sup>h</sup> 15 <sup>h</sup> 16 <sup>h</sup> 17 <sup>h</sup> 18 <sup>h</sup> 19 <sup>h</sup> 20 <sup>h</sup> 21 <sup>h</sup> 22 <sup>h</sup> 23 <sup>h</sup>	
	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00 .00
January . .	-002 -004 -009 -009 -008 -007 -004 -003 -002 -009 -013 -013
February . .	-002 -009 -012 -010 -011 -008 -006 -009 +001 -005 -009 -010
March . . .	-009 -011 -010 -012 -010 -010 -004 -001 -002 -008 -012 -013
April . . .	-012 -015 -020 -024 -014 -011 -004 -008 -007 -008 -010 -010
May . . .	-017 -017 -025 -023 -015 -013 -007 -010 -011 -021 -025 -018
June . . .	-010 -014 -013 -014 -009 -004 -001 -002 -005 -010 -014 -015
July . . .	-013 -019 -020 -018 -014 -008 -004 -003 -004 -009 -010 -009
August . .	-020 -025 -024 -027 -020 -009 000 -004 -009 -007 -007 -006
September .	-010 -022 -029 -028 -024 -020 -013 -010 -014 -015 -014 -008
October . .	-011 -013 -015 -017 -022 -015 -013 -003 000 -009 -007 -008
November .	-004 -009 -012 -011 -013 -010 -006 -005 -006 -011 -012 -011
December .	-008 -008 -006 -003 -016 -018 -013 -013 -008 -009 -009 -008
Mean of the whole Year }	-010 -014 -016 -016 -015 -011 -006 -006 -006 -010 -012 -011

## VARIATION OF THE DIURNAL RANGE.

Tables XLVI., XLVII., XLVIII., and XLIX. show the inequality or variation in the amount of the diurnal range of the Horizontal and Vertical Force, and of the Inclination and Total Force, in different years, and in different seasons of those years. The explanation given in the concluding paragraph in p. xxi. of the present volume, of the corresponding tables of the variation in the diurnal range of the declination, is applicable to these tables also.

TABLE XLVI.

*Mean Magnitude of the Diurnal Range of the Horizontal Force, from 1841 to 1851 inclusive, in parts of the Horizontal Force.*

YEARS.	Winter.	Spring&Autumn	Summer.	Mean of the whole Year.	YEARS.
	Jan., Feb., Nov., Dec.	March, April, Sept., Oct.	May, June, July, August.		
1841	·00123	·00200	·00223	·00182	1841
1842	·00132	·00174	·00234	·00180	1842
1843	·00119	·00174	·00170	·00154	1843
1844	·00107	·00189	·00211	·00169	1844
1845	·00120	·00181	·00211	·00171	1845
1846	·00135	·00217	·00256	·00203	1846
1847	·00200	·00292	·00259	·00250	1847
1848	·00225	·00304	·00307	·00279	1848
1849	·00214	·00270	·00294	·00259	1849
1850	·00202	·00275	·00227	·00235	1850
1851	·00169	·00271	·00183	·00208	1851

TABLE XLVII.

*Mean Magnitude of the Diurnal Range of the Vertical Force, from 1841 to 1848 inclusive, in parts of the Vertical Force.*

YEARS.	Winter.	Spring&Autumn.	Summer.	Mean of the whole Year.	YEARS.
	Jan., Feb., Nov., Dec.	March, April, Sept., Oct.	May, June, July, August		
1841	·00039	·00056	·00056	·00050	1841
1842	·00022	·00041	·00039	·00034	1842
1843	·00033	·00038	·00041	·00037	1843
1844	·00023	·00056	·00034	·00038	1844
1845	·00032	·00032	·00037	·00034	1845
1846	·00019	·00053	·00070	·00047	1846
1847	·00040	·00057	·00044	·00047	1847
1848	·00041	·00051	·00041	·00044	1848

TABLE XLVIII.

*Mean Magnitude of the Diurnal Range of the Inclination, from 1843 to 1848 inclusive.*

YEARS.	Winter.	Spring&Autumn.	Summer.	Mean of the whole Year.	YEARS.
	Jan., Feb., Nov., Dec.	March, April, Sept., Oct.	May, June, July, August.		
1843	1·26	1·40	1·50	1·39	1843
1844	0·78	1·39	1·59	1·25	1844
1845	0·88	1·35	1·57	1·27	1845
1846	1·09	1·59	1·92	1·53	1846
1847	1·43	2·22	1·98	1·88	1847
1848	1·64	2·30	2·38	2·11	1848

TABLE XLIX.

*Mean Magnitude of the Diurnal Range of the Total Force, from 1843 to 1848 inclusive, in parts of the Force.*

YEARS.	Winter.	Spring&Autumn.	Summer.	Mean of the whole Year.	YEARS.
	Jan., Feb., Nov., Dec.	March, April, Sept., Oct.	May, June, July, August.		
1843	·00028	·00040	·00040	·00036	1843
1844	·00027	·00059	·00039	·00042	1844
1845	·00032	·00038	·00046	·00039	1845
1846	·00020	·00059	·00077	·00052	1846
1847	·00048	·00064	·00052	·00055	1847
1848	·00049	·00064	·00055	·00056	1848

The values for 1848 in Tables XLVIII. and XLIX. include a part of the observations of that year which were not included in the corresponding Tables published in the Phil. Trans. for 1852, Art. viii., pp. 119-120; and are therefore *slightly* different from the values given in the paper referred to.

MAGNETIC INCLINATION.

The custom, described in the first volume of the Toronto Observations, of making eight determinations of the Inclination in each month, at nearly equal intervals in the month, and taking for this purpose Tuesdays in the forenoon, and Fridays in the afternoon, as the times of observation, was continued from April 1841, to December 1847 inclusive. Commencing with January 1848, the same number, or occasionally a greater number, of partial determinations was made monthly; but instead of the Tuesdays and Fridays, the days of observation were the same as those in which the absolute values of the horizontal force were determined, namely, three days in every



those from January 1843 to December 1851 will be found in the latter part of the present volume. The following table exhibits in one view the mean monthly results in the twelve years comprised between January 1841 and December 1852.

TABLE L.

*Monthly Means of the Observations of the Inclination from January 1841 to December 1852, inclusive.*

MONTHS.	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	Means for each Month.	$\theta' - \theta$
	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +	75 <sup>o</sup> +		
January .	16.2	17.9	14.5	15.4	18.4	*16.1	15.0	20.3	19.5	19.9	21.6	19.3	75 17.84 = $\theta'$	+0.64
February .	13.6	16.1	15.2	15.7	19.5	*16.4	15.2	18.7	18.1	18.7	20.0	19.4	75 17.22 = $\theta'$	+0.02
March . .	16.7	18.0	14.1	14.5	14.5	*16.0	16.3	17.2	16.7	18.0	21.5	19.6	75 16.92 = $\theta'$	-0.28
April . .	16.1	19.0	13.3	13.2	11.5	14.3	15.9	18.0	18.4	19.7	21.9	20.0	75 16.77 = $\theta'$	-0.43
May . . .	16.5	17.0	14.4	12.5	15.4	14.4	16.1	17.2	18.4	19.5	20.0	20.8	75 16.85 = $\theta'$	-0.35
June . . .	16.8	11.7	13.4	11.6	15.2	14.8	13.0	16.8	18.5	19.1	20.7	20.8	75 16.03 = $\theta'$	-1.17
July . . .	14.3	16.1	14.5	10.1	14.2	14.0	11.6	16.4	18.0	19.9	19.0	19.9	75 15.67 = $\theta'$	-1.53
August . .	13.9	16.3	14.8	9.8	14.4	14.4	12.6	19.0	19.3	18.4	19.8	20.0	75 16.06 = $\theta'$	-1.14
September	18.8	14.9	15.3	17.7	16.6	15.7	15.4	17.3	21.6	21.0	20.8	21.6	75 18.06 = $\theta'$	+0.86
October .	18.9	16.1	14.5	17.9	14.3	15.4	17.6	19.0	20.6	21.8	20.0	22.2	75 18.19 = $\theta'$	+0.99
November.	17.9	17.3	16.8	20.3	16.8	15.0	17.9	19.4	20.1	21.3	20.4	21.3	75 18.71 = $\theta'$	+1.51
December.	17.9	16.2	15.7	19.0	15.2	15.1	16.8	20.6	18.1	22.5	19.4	21.2	75 18.14 = $\theta'$	+0.94
Means for each Year	16.6	16.4	14.7	14.8	15.5	15.1	15.3	18.3	18.8	20.0	20.4	20.5	75 17.20 = $\theta$	

\* 2'.2 added for index error, page lxxxvi.

*Annual Variation.*—The values in the column entitled  $\theta' - \theta$ , which are the differences between the mean Inclination in the whole period and the means of the several months include the joint effects of annual variation and secular change. As the annual amount of secular change is very small, it may be eliminated by an approximate value, derived in the usual manner from the mean inclination in the several years from 1841 to 1852, placed in the bottom line of Table L. These give an annual increase of 0'.51, or a monthly increase of 0'.042; and the values of  $\theta' - \theta$ , corrected in proper proportion for this amount of secular change, become as follows:—

January . . .	+0.64	+0.23	= +0.87	July . . . .	-1.53	-0.02	= -1.55
February . . .	+0.02	+0.19	= +0.21	August . . . .	-1.14	-0.06	= -1.20
March . . . .	-0.28	+0.15	= -0.13	September . . .	+0.86	-0.11	= +0.75
April . . . .	-0.43	+0.11	= -0.32	October . . . .	+0.99	-0.15	= +0.84
May . . . . .	-0.35	+0.06	= -0.29	November . . . .	+1.51	-0.19	= +1.32
June . . . . .	-0.17	+0.02	= -1.15	December . . . .	+0.94	-0.23	= +0.71

The annual variation which these results indicate may perhaps be not unfitly represented by the first term of the usual formula for periodical functions  $\theta^x = \theta + u \sin(a + U)$ , in which  $\theta^x$  is the Inclination at the required period  $x$ ,  $\theta$  the mean Inclination in the year,  $a = 30^\circ \times n$ , in which  $n$  denotes the interval in time in months and parts



of a month between  $x$  and the 15th of January, and  $u$  and  $U$  are constants obtained from the results in the usual manner. This formula becomes in the present case—

$$\theta_x = 75^\circ 17' \cdot 2 - 1' \cdot 11 \sin (a + 302^\circ \cdot 1);$$

whence the mean inclination in the several months, and the annual variation, are as follows:—

January . . . . .	$75^\circ 18' \cdot 14$	and the Annual Variation	+ $0' \cdot 94$
February . . . . .	$75^\circ 17' \cdot 72$	„ „	+ $0' \cdot 52$
March . . . . .	$75^\circ 17' \cdot 16$	„ „	- $0' \cdot 04$
April . . . . .	$75^\circ 16' \cdot 61$	„ „	- $0' \cdot 59$
May . . . . .	$75^\circ 16' \cdot 22$	„ „	- $0' \cdot 98$
June . . . . .	$75^\circ 16' \cdot 09$	„ „	- $1' \cdot 11$
July . . . . .	$75^\circ 16' \cdot 26$	„ „	- $0' \cdot 94$
August . . . . .	$75^\circ 16' \cdot 69$	„ „	- $0' \cdot 52$
September . . . . .	$75^\circ 17' \cdot 24$	„ „	+ $0' \cdot 04$
October . . . . .	$75^\circ 17' \cdot 79$	„ „	+ $0' \cdot 59$
November . . . . .	$75^\circ 18' \cdot 18$	„ „	+ $0' \cdot 98$
December . . . . .	$75^\circ 18' \cdot 31$	„ „	+ $1' \cdot 11$

Or, a maximum of north inclination in December, and a minimum in June, being the two solstitial months; with a total range of annual variation from the one solstice to the other of  $2' \cdot 22$ .

*Secular Change.*—From the intercomparison of the mean inclination in the several years shown in the bottom line of Table L., we have to seek the character and amount of secular change during the period comprised by the observations. On a first inspection of the values of the inclination in the years from 1841 to 1852 inclusive, we might be led to infer that in 1843 or 1844 the secular change at Toronto reached a turning epoch; and that, from having been previously a decrease, it became subsequently an increase of inclination. It is possible, however, that the facts may admit, and may hereafter receive, a different explanation. It has been shown in the analysis of the larger disturbances of the *Declination*, that the aggregate value of the easterly disturbances at Toronto preponderates over that of the westerly disturbances, and consequently that the mean Magnetic Declination in the year must have, as one of its constituents, a small but appreciable easterly element, due to the greater prevalence of easterly disturbances. If the disturbances took place in every year to the same, or nearly to the same, amount, and always maintained the same proportion of easterly and westerly deflections, their influence on the mean magnetic direction would be a constant quantity in all years; but if, on the other hand, the amount of disturbance in different years be subject to a periodical variation, affecting the aggregate amount of disturbance, but not materially affecting the proportion of its easterly and westerly constituents, the absolute Declination at Toronto must be subject to a periodical variation not hitherto taken into account, having epochs corresponding to those which have

was found to exist in the disturbances. Such a variation might be expected to show itself on a sufficient continuance of careful observation, and might be separated thereby from the secular change, which, until this variation were so determined and separated, would appear to be affected by a corresponding irregularity. An analysis of the larger disturbances of the *Inclination*, similar to that of the larger disturbances of the Declination, has not yet been made; but a very cursory examination of the registries of the Horizontal and Vertical Force Magnetometers is sufficient to show that the disturbances of the Inclination and Total Force are subject to a periodical variation, similar to that which has been found to affect the Declination disturbances, with alternate epochs of maximum and minimum, at intervals of about five years. If at Toronto the aggregate effect of the disturbances be to increase the Inclination, and if 1843–1844 be an epoch of minimum, and 1848–1849 an epoch of maximum disturbance, the periodical augmentation of the Inclination due to the disturbance should be a minimum also in 1843 or 1844, and a maximum in 1848 or 1849. Until the amount of the augmentation due to this cause, and its periodical variation, be ascertained and eliminated in the inquiry respecting *secular change*, the secular change itself will appear to be affected by an irregularity, not altogether dissimilar in character to that which is presented by the mean Inclinations in the bottom line of Table L. The train of inquiry which has been thus indicated may perhaps be more advantageously pursued when the disturbances of the Inclination shall have been analysed, as those of the Declination have been: in the meantime, considering the small amount of the apparent irregularities, together with the variety of needles employed in the observations of the different years, and the consequent possibility of defective intercomparability, we may perhaps take as the best present approximation, such an uniform increase of Inclination from secular change, during the whole period, as may best satisfy the means of the several years. The secular change in this view is an annual increase of 0'·51.

## HORIZONTAL FORCE.

*In Absolute Measure.*—The monthly series of absolute determinations of the Horizontal Force commenced in January 1845; they were made with a deflecting magnet of 3·67 inches in length, and a suspended magnet of 3 inches, both being solid cylinders of 0·3 inch diameter. The same magnets were used throughout the series. The observations were made about the same period in every month, usually on the 16th, 17th, and 18th of the month. Three distances were employed, the least being 1 foot and the greatest 1·4 foot from the centre of the suspended magnet. The deflections were read on a circle of 6 inches diameter, having two verniers reading to 20". The reading telescope was attached to and moved with the azimuth circle; the deflecting magnet was therefore always perpendicular to the suspended magnet when the deflections

caused by the latter were read off. The deflecting magnet was suspended for vibration in a stirrup with a mirror, in a detached wooden box, by a silk thread of which the line of detorsion was brought approximately into the magnetic meridian. Concurrent readings were taken with the Observatory Bifilar, furnishing the means of reducing the results of each of the absolute determinations to the mean Horizontal Force of the month in which it was made. The details of the observations, with an explanatory memorandum drawn up by Captain Younghusband, are given in the latter part of this volume. As *absolute* determinations, the results can only yet be considered as provisional, as the exact values of the distances between the centres of the suspended and deflecting magnets, and of the constants of inertia and of induction, have to be finally determined with the new standard scale and weights on the return of the Unifilar to England, which will shortly take place: but as the mutual relation of the results will be unaffected by slight changes in the constants common to the whole series, we may proceed to employ them at once in the theoretical deductions to which a body of results *relatively* correct may be applicable.

Collecting in one view the mean monthly determination of the Horizontal Force in the eight years from January 1845 to December 1852 inclusive, we have the values in the following Table:—

TABLE LI.

*Monthly Means of the observed Values of the Horizontal Force in absolute measure from January 1845 to December 1852 inclusive.*

MONTHS.	1845	1846	1847	1848	1849	1850	1851	1852
January . . .	3·5397	3·5419	3·5384	3·5279	3·5272	3·5223	3·5195	3·5225
February . . .	3·5392	3·5341	3·5336	3·5261	3·5270	3·5265	3·5207	3·5185
March . . . .	3·5437	3·5406	3·5315	3·5323	3·5277	3·5278	3·5235	3·5182
April . . . .	3·5395	3·5376	3·5308	3·5305	3·5300	3·5312	3·5233	3·4986
May . . . . .	3·5411	3·5357	3·5320	3·5320	3·5340	3·5333	3·5292	3·5069
June . . . . .	3·5463	3·5379	3·5350	3·5270	3·5328	3·5319	3·5264	3·5013
July . . . . .	3·5403	3·5407	3·5323	3·5306	3·5350	3·5210	3·5251	3·5055
August . . . .	3·5405	3·5344	3·5352	3·5305	3·5350	3·5192	3·5240	3·5103
September . .	3·5402	3·5322	3·5280	3·5277	3·5333	3·5159	3·5263	3·5079
October . . . .	3·5412	3·5308	3·5278	3·5254	3·5253	3·5223	3·5194	3·5068
November . . .	3·5370	3·5309	3·5274	3·5206	3·5288	3·5312	3·5245	3·5073
December . . .	3·5407	3·5369	3·5315	3·5241	3·5275	3·5233	3·5219	3·5067
Annual Means.	3·5408	3·5361	3·5320	3·5279	3·5303	3·5255	3·5237	3·5092

On examining the results in Table LI., we may at once perceive that there are irregularities in 1852 which much exceed those of any of the preceding years. The mean monthly value of the Force in April 1852, for example, differs from that of the preceding month by  $\cdot 0196$ , a quantity which is much greater than the difference between any two months whatsoever in any of the preceding years; it is equivalent to a change in the Inclination of about  $4' \cdot 5$ , whilst the direct observations recorded in Table L. show that no greater difference took place in the Inclination between the months of March

and April 1852 than  $0' \cdot 4$ . Again, the *mean* Horizontal Force in the year 1852, in Table LI., differs  $\cdot 0145$  from the amount in 1851, which is equivalent to  $3' \cdot 7$  of Inclination; whilst in Table L. the difference between 1851 and 1852 is shown by direct observation to have been not more than  $0' \cdot 1$ . The Horizontal Force observations for 1852 have only recently been received at Woolwich, and it is possible that inquiries which have been instituted may lead to the discovery of the existence of some accidental cause for the unprecedented irregularities in 1852. In the meantime it appears the more safe course to confine the discussion of the results for the present to the seven years from 1845 to 1851 inclusive.

*Secular Change.*—From the annual means (1845 to 1851) in Table LI., we obtain  $3 \cdot 5309$  as the most probable value (subject to the final correction of the constants as above mentioned) of the Horizontal Force in the middle of the year 1848; and a decrease of  $\cdot 0026$  as the mean annual secular change in those years. If we assume that no secular change exists in the total force at Toronto, and that the secular change in the Horizontal Force is consequently wholly due to that of the Inclination, an annual decrease of  $\cdot 0026$  will be equivalent to an annual increase of  $0' \cdot 67$  in the Inclination: the actual annual increase derived in page lxxxvii. from the direct observations of the Inclination between 1841 and 1852 is  $0' \cdot 51$ .

*Annual Variation.*—The mean monthly values of the Horizontal Force in the seven years from 1845 to 1851, inclusive, with the corrections necessary to eliminate the influence of an annual secular decrease of  $\cdot 0026$ , are as follows:—

	Monthly Means.	Corr. for Secular Change.	Monthly Means Corrected.	X'—X
January . . .	3·5310	— ·0012	3·5298 = X';	— ·0011
February . . .	3·5296	— ·0010	3·5286 = X';	— ·0023
March . . .	3·5324	— ·0008	3·5316 = X';	+ ·0007
April . . .	3·5318	— ·0005	3·5313 = X';	+ ·0004
May . . .	3·5339	— ·0003	3·5336 = X';	+ ·0027
June . . .	3·5339	— ·0001	3·5338 = X';	+ ·0029
July . . .	3·5321	+ ·0001	3·5322 = X';	+ ·0013
August . . .	3·5313	+ ·0003	3·5316 = X';	+ ·0007
September . . .	3·5291	+ ·0005	3·5296 = X';	— ·0013
October . . .	3·5275	+ ·0008	3·5283 = X';	— ·0023
November . . .	3·5286	+ ·0010	3·5296 = X';	— ·0013
December . . .	3·5294	+ ·0012	3·5306 = X';	— ·0003
			<u>3·5309 = X.</u>	

The values of X'—X show the quantities by which the observed Horizontal Force in the several months exceeds or falls short of the mean force in the year. These quantities may be represented (as in the case of the annual variation of the Inclination, page lxxxvii) by the first term of the usual formula, which here becomes  $X_r = 3 \cdot 5309 + \cdot 002 \sin (a + 312' \cdot 1)$ ,  $a$  being reckoned from the 15th of January. This formula gives a minimum of force in December, and a maximum in June, with a total range

from the one solstice to the other of  $\cdot 0038$ . The range of the annual variation of the Inclination between December and June ( $2' \cdot 22$ ) is equivalent, in the resolution of the total force into its Horizontal and Vertical components, to  $\cdot 0087$  of Horizontal Force; and the Inclination being greatest in December and least in June, the Horizontal Force in conformity therewith should be  $\cdot 0087$  greater in June than in December. By the observations it appears, however, that the excess in June over December is not more than  $\cdot 0038$ ; we may therefore infer the probable existence of an annular variation of the total force compensating the difference; the total force being greater at the time of the December, than at the time of the June solstice. This will be more distinctly shown by a combination of the septennial mean monthly values of the Inclination and Horizontal Force, producing the mean monthly values of the Total Force.

*Annual Variation of the Total Force.*—From the mean monthly values of the Horizontal Force (1845 to 1851) in Table LI., and from those of the Inclination for the same years in Table L., we obtain the following mean monthly values of the total force:—

January . . .	$3 \cdot 5310 \times \sec 75^{\circ} 18 \cdot 7$	$= 13 \cdot 926$
February . . .	$3 \cdot 5296 \times \sec 75^{\circ} 18 \cdot 1$	$= 13 \cdot 911$
March . . .	$3 \cdot 5324 \times \sec 75^{\circ} 17 \cdot 2$	$= 13 \cdot 908$
April . . .	$3 \cdot 5318 \times \sec 75^{\circ} 17 \cdot 1$	$= 13 \cdot 904$
May . . .	$3 \cdot 5339 \times \sec 75^{\circ} 17 \cdot 3$	$= 13 \cdot 915$
June . . .	$3 \cdot 5339 \times \sec 75^{\circ} 16 \cdot 9$	$= 13 \cdot 909$
July . . .	$3 \cdot 5321 \times \sec 75^{\circ} 16 \cdot 2$	$= 13 \cdot 891$
August . . .	$3 \cdot 5313 \times \sec 75^{\circ} 16 \cdot 8$	$= 13 \cdot 897$
September . . .	$3 \cdot 5291 \times \sec 75^{\circ} 18 \cdot 3$	$= 13 \cdot 913$
October . . .	$3 \cdot 5275 \times \sec 75^{\circ} 18 \cdot 4$	$= 13 \cdot 908$
November . . .	$3 \cdot 5286 \times \sec 75^{\circ} 18 \cdot 7$	$= 13 \cdot 916$
December . . .	$3 \cdot 5294 \times \sec 75^{\circ} 18 \cdot 2$	$= 13 \cdot 912$
Mean of the Year . . . . .		<u><math>13 \cdot 909</math></u>

The differences between the mean force in the year and its mean monthly values include the joint effects of secular change and annual variation. In respect to the secular change, the observations of the Inclination and of the Horizontal Force in the years 1845 to 1851 furnish the mean values of the total force in each year as follows:—

Years.		
1845	$3 \cdot 5408 \times \sec 75^{\circ} 15 \cdot 5$	$= 13 \cdot 915$
1846	$3 \cdot 5361 \times \sec 75^{\circ} 15 \cdot 1$	$= 13 \cdot 890$
1847	$3 \cdot 5320 \times \sec 75^{\circ} 15 \cdot 3$	$= 13 \cdot 877$
1848	$3 \cdot 5279 \times \sec 75^{\circ} 18 \cdot 3$	$= 13 \cdot 907$
1849	$3 \cdot 5303 \times \sec 75^{\circ} 18 \cdot 8$	$= 13 \cdot 924$
1850	$3 \cdot 5255 \times \sec 75^{\circ} 20 \cdot 0$	$= 13 \cdot 924$
1851	$3 \cdot 5237 \times \sec 75^{\circ} 20 \cdot 4$	$= 13 \cdot 923$

It would be unsafe to make any more precise conclusions from these results than that the secular change of the total force at Toronto, at the epoch of the observations, must have been extremely small; and that it would require a longer continuance of

the observations to determine either its average annual amount, or even whether the force were increasing or decreasing. It is not impossible that the variations of the total force in different years arising from the greater or less predominance of the phenomena characterized as "Disturbances," may bear a large proportion to, or may even exceed, the progressive variation due to secular change, where the latter is so extremely small: in such case one complete cycle of the disturbance-variations (or 10 years) would be the minimum from which any satisfactory conclusion respecting the secular change could be drawn. Whatever may be its amount, however, or its direction, it may be eliminated (on the hypothesis of its being a uniform progression) by combining together the months equi-distant from the middle period of the year.

We have thus:—

January and December; Mean	13·9190 = $\phi'$ ;	$\phi' - \phi = +\cdot 0100$
February and November; ,,	13·9135 = $\phi'$ ;	,, = +·0045
March and October; ,,	13·9080 = $\phi'$ ;	,, = -·0010
April and September; ,,	13·9085 = $\phi'$ ;	,, = -·0005
May and August; ,,	13·9060 = $\phi'$ ;	,, = -·0030
June and July; ,,	13·9000 = $\phi'$ ;	,, = -·0090
Mean of the Year . . .	<u>13·909</u> = $\phi$ .	

Confirming the previously drawn inference that the Total Force at Toronto is least about the time of the June solstice, and greatest about the time of the December solstice; the numerical difference in its value at the two solstices is approximately ·0190 in absolute measure; whence we may finally conclude that the total force is nearly two thousandth parts of its whole amount greater in December and January, when the earth is nearest to the sun, than in June and July, when the earth is most distant from the sun. The conclusions thus drawn in regard to the annual variations of the Inclination and Total Force are to the same effect as those derived from the more limited sources discussed in the Phil. Trans., p. 1850, Art. IX.

*Disturbances unaccompanied by Changes in the Mean Readings of the Magnetometers.*—In Part I. (published in 1843) of the volume of "Observations on Days of Unusual Magnetic Disturbance," it was noticed that besides the disturbances which it was the object of that volume to record, characterized by changes in the mean readings of the magnetometers, the magnets were sometimes observed to be disturbed without any notable displacement in their mean position. Disturbances of this class manifest themselves by the magnets being perceived to vibrate in arcs sometimes of smaller and sometimes of larger extent, the vibration being maintained by a succession, at intervals, of slight shocks or impulses, by which, however, the *mean* readings of the magnetometer were not affected. The times of observation in 1841, at which disturbances of this particular character were noticed, were published in 1843, in the volume referred to; a continuation of the record for the years 1842, 1843, 1844, and 1845, will be found in pp. 550 to 557 of the present volume.



**ADJUSTMENTS, ABSTRACTS, AND COMMENTS.**

-----

**METEOROLOGICAL INSTRUMENTS.**





## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

## METEOROLOGICAL INSTRUMENTS.

THE meteorological instruments remained in the situations described in Volume I. p. lxxiv. until the end of 1844, when, for the purpose of still further improving their position, the standard and wet thermometers were removed from the angle formed by the exterior wall of the principal room of the Observatory and that of one of the smaller apartments, to a situation prepared for them on the outside and near the middle of the north wall of the principal apartment. An opening made in the wall was fitted with a sliding glass window (through which the thermometers were read), having a wooden shutter on the Observatory side, which was kept closed except at times when observations were made. The thermometers were attached to horizontal strips of wood (leaving the balls perfectly free), about five feet above the ground, six inches on the outside of the wall, and two feet distant from the shutter, having the window intermediate. In this position they were protected by a double projecting roof, and by double enclosures on the east, west, and north sides (the Observatory wall being on the south side), of Venetian blind shutters, descending to within four feet of the ground. The length of the exterior shutter on the north side was 7 feet, and on the east and west sides 5 feet 4½ inches. The space between the exterior and interior roofs and shutters was from one to one and a-half feet. The slope of the blinds of shutters was such as to admit a free current of air, while it completely screened the thermometers from rain.

An accident having happened to the standard thermometer furnished by Newman, mentioned in Vol. I., one of two thermometers made by Adie of Liverpool under Dr. Apjohn's superintendence, which, agreeing remarkably well with each other, had been employed as wet and dry thermometers, was adopted as the standard, and was always used as such except from March to December 1845, and on some few other occasional instances, in all of which corrections carefully ascertained were applied to give the values which would have been read by Adie's standard. The record of the standard thermometer in Vols. I. and II., *i. e.*, from 1841 to December 1845, is therefore throughout according to the scale of this instrument, *viz.*, Adie No. 2.

Circumstances having led Captain Lefroy to doubt the perfect accuracy of the thermometer which had been thus employed as a standard, and the Observatory at Kew not having then undertaken, as it has since done, the construction of standard meteorological instruments, a thermometer was procured through the good offices of M. Regnault, which had been graduated under his superintendence in arbitrary divisions of perfectly equal *thermometric* value. The divisions corresponding to the freezing and boiling points 0° and 100° Centesimal, 32° and 212° Fahrenheit, had been found by the maker, Fastré of Paris, in a preliminary experiment, to be 115·7 and 617·7



The record of the wet thermometer in Vols. I. and II., from 1841 to December 1845, is in terms of the scale of Adie 2, and is consequently affected by the inaccuracies of that thermometer at different points of its scale. The mean monthly values of the wet thermometer in Table LV. of this volume, pp. cviii. to cxi., have been corrected for these inaccuracies, and are therefore true temperatures, and strictly comparable with the mean monthly values of the standard thermometer in Table LIII. pp. c. to ciii. The following Tables, LIII. to LVII., contain the monthly mean values of Fastré's standard thermometer, of the barometer, wet thermometer, and of the humidity and tension, from July 1842 to June 1848 inclusive :—

## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LIII.—*Monthly Means of the Temperature for every hour of Mean*

Mean Toronto Astronomical Time	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JANUARY.	1843	30.9	31.4	31.6	31.5	31.1	30.1	29.2	28.9	28.9	28.9	28.7
	1844	21.9	22.5	23.1	23.1	22.9	22.1	21.3	20.8	20.4	20.4	20.0
	1845	29.0	29.3	29.6	29.5	28.8	27.7	26.9	26.5	25.8	25.4	24.9
	1846	28.5	29.3	29.6	29.8	29.4	28.7	28.1	27.4	27.3	26.9	26.3
	1847	25.9	26.2	26.1	25.5	24.9	23.8	23.1	22.5	22.2	22.1	22.0
	1848	30.8	31.3	31.6	32.0	31.2	29.9	28.8	28.1	27.7	27.4	26.9
Hourly Means	27.83	28.33	28.60	28.57	28.05	27.05	26.23	25.70	25.38	25.18	24.80	
FEBRUARY.	1843	19.0	20.0	20.5	20.5	20.0	19.0	17.5	16.1	15.3	14.2	13.4
	1844	30.4	31.5	32.1	32.5	31.7	30.5	28.4	27.5	26.4	25.7	25.0
	1845	29.3	29.5	30.0	29.7	29.3	28.2	27.4	27.1	26.3	26.3	26.3
	1846	26.2	26.7	27.0	27.0	26.3	25.2	23.8	22.8	21.7	20.7	20.4
	1847	26.1	27.5	27.7	27.7	27.1	25.8	24.8	23.7	23.0	22.6	21.6
	1848	31.4	32.4	32.7	32.5	32.2	30.7	28.8	27.6	27.0	26.3	25.8
Hourly Means	27.07	27.93	28.33	28.32	27.77	26.57	25.12	24.13	23.28	22.63	22.08	
MARCH.	1843	26.2	27.2	27.6	27.7	27.3	26.7	24.3	22.9	21.9	20.8	19.8
	1844	34.6	35.6	36.4	36.2	35.7	35.3	33.9	32.6	31.6	30.7	30.3
	1845	40.3	40.8	41.4	40.4	40.4	39.1	37.5	36.5	35.8	34.8	34.2
	1846	38.1	38.6	38.8	38.6	37.9	37.2	36.0	34.0	32.9	31.8	31.3
	1847	31.3	31.6	32.2	32.0	31.4	30.8	29.0	27.7	26.9	25.8	24.8
	1848	33.5	34.1	34.9	35.2	34.6	33.7	32.0	30.2	29.0	28.2	27.8
Hourly Means	34.00	34.65	35.22	35.02	34.55	33.80	32.12	30.65	29.68	28.68	28.03	
APRIL.	1843	45.4	46.2	47.0	47.1	47.4	46.8	44.4	41.7	40.7	39.8	38.8
	1844	53.2	55.4	56.1	56.6	55.7	55.5	53.2	49.9	46.5	45.0	43.9
	1845	46.6	47.1	47.3	47.5	46.9	46.3	44.7	42.7	41.7	40.5	39.8
	1846	49.0	50.1	50.6	50.5	50.1	48.7	47.1	44.6	42.9	41.8	41.4
	1847	44.9	45.2	45.3	45.2	44.8	43.8	41.7	39.4	38.5	37.6	36.8
	1848	46.1	46.8	46.8	46.6	46.3	45.7	44.9	42.5	41.0	40.1	39.5
Hourly Means	47.53	48.47	48.85	48.92	48.53	47.80	46.00	43.47	41.88	40.80	40.03	
MAY.	1843	54.0	55.5	56.0	57.0	57.6	57.4	54.9	51.4	48.1	46.2	45.0
	1844	59.9	61.4	61.5	61.4	61.4	61.9	59.6	56.0	53.6	52.0	50.9
	1845	56.3	57.0	57.5	57.6	57.8	57.3	56.1	53.1	50.1	47.3	45.9
	1846	60.8	61.7	62.1	61.9	61.9	61.2	60.2	57.9	55.0	53.0	52.7
	1847	61.0	61.4	62.1	61.9	61.2	60.6	58.9	56.3	54.8	53.2	52.4
	1848	60.8	61.3	61.2	61.0	60.6	59.8	58.0	55.8	53.6	52.0	51.0
Hourly Means	58.80	59.72	60.07	60.13	60.08	59.70	57.95	55.08	52.53	50.62	49.65	
JUNE.	1843	63.5	64.5	65.5	66.2	66.7	66.1	65.3	62.5	59.2	57.0	55.4
	1844	65.2	66.5	67.7	68.4	68.9	69.6	67.9	64.3	59.7	57.1	55.7
	1845	67.1	67.8	67.8	67.9	68.4	68.2	66.3	64.1	60.5	58.5	57.2
	1846	69.1	69.7	69.8	69.8	70.1	70.1	68.5	65.6	62.6	60.5	59.3
	1847	64.4	64.8	64.6	64.8	64.7	62.8	62.8	60.1	57.9	56.0	55.0
	1848	70.0	70.4	70.8	71.4	71.1	69.5	67.7	65.5	62.4	60.2	58.7
Hourly Means	66.55	67.28	67.70	68.08	68.32	67.72	66.42	63.68	60.38	58.22	56.88	

STANDARD THERMOMETER.

Solar Time, from July 1842 to June 1848, inclusive.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
28.3	26.7	26.4	26.6	26.3	26.4	26.5	26.4	26.2	26.5	27.4	28.6	30.2	28.49
19.5	19.2	18.1	17.8	17.7	17.7	17.4	17.9	17.7	18.0	18.8	19.5	20.8	19.94
24.6	24.2	24.1	24.2	24.0	23.9	23.7	25.6	25.1	25.3	25.9	27.2	28.1	26.22
25.8	25.4	24.8	24.0	23.8	23.3	23.0	23.6	23.8	24.0	25.0	26.7	27.8	26.35
22.1	22.1	21.5	21.7	21.5	21.5	21.3	21.8	22.0	22.1	23.2	24.6	25.5	23.13
26.6	25.2	25.1	25.2	25.3	25.2	25.0	26.0	25.9	26.2	27.6	28.7	29.9	27.82
24.48	23.80	23.33	23.25	23.10	23.00	22.82	23.55	23.45	23.68	24.65	25.88	27.05	25.32
12.7	12.4	12.1	11.9	11.9	11.6	11.0	10.6	10.4	11.4	13.3	15.5	17.5	14.91
24.8	26.4	26.3	26.2	25.9	25.7	25.3	23.7	23.3	24.0	25.7	27.4	29.1	27.31
26.6	27.0	26.6	26.1	25.2	24.8	24.3	23.2	23.0	23.9	25.7	27.1	28.1	26.71
19.4	18.1	17.6	17.2	16.1	15.6	15.0	15.0	15.7	16.8	20.5	23.2	24.8	20.95
20.7	20.1	20.0	19.6	19.7	19.6	19.3	19.3	18.7	19.8	21.6	23.6	25.3	22.70
25.2	24.7	23.8	23.4	23.0	22.7	23.0	22.7	22.6	23.9	26.8	28.9	30.4	27.02
21.57	21.45	21.07	20.73	20.30	20.00	19.65	19.08	18.95	19.97	22.27	24.28	25.87	23.27
18.9	18.8	18.2	17.9	17.6	17.3	16.9	16.6	17.2	19.3	21.2	23.5	25.0	21.70
30.1	30.2	29.5	28.9	28.4	28.1	27.8	28.1	28.4	29.3	31.1	32.5	33.5	31.62
33.4	33.6	33.1	32.7	32.4	31.9	31.9	30.9	32.1	34.3	36.4	38.1	39.1	35.88
30.8	30.8	30.8	30.6	30.4	29.8	29.7	29.1	30.5	32.7	35.4	36.9	37.8	33.77
24.0	24.3	23.8	23.4	22.9	22.5	21.8	21.7	22.3	24.6	26.9	28.7	30.4	26.70
27.1	26.3	25.7	25.3	25.4	25.2	24.8	23.6	24.7	26.9	29.1	30.8	32.1	29.18
27.38	27.33	26.85	26.47	26.18	25.80	25.48	25.00	25.87	27.85	30.02	31.75	32.98	29.81
38.3	38.4	37.4	37.0	36.5	36.2	35.8	35.9	37.3	39.3	40.8	42.5	44.0	41.03
43.7	43.6	42.9	42.3	41.4	41.1	40.8	40.1	42.8	45.6	48.1	50.0	51.6	47.71
39.8	38.9	38.4	37.5	37.3	37.1	37.0	38.0	39.7	41.4	43.6	44.9	46.0	42.11
40.8	40.4	40.7	39.7	38.8	38.8	38.6	38.5	41.4	43.6	45.2	46.7	48.2	44.09
36.2	36.9	36.4	36.0	35.7	35.4	35.1	34.8	36.9	39.0	41.2	42.4	43.9	39.71
38.4	38.0	37.3	36.7	35.8	35.3	34.4	35.2	38.1	40.8	42.7	44.2	45.3	41.19
39.53	39.37	38.85	38.20	37.58	37.32	36.95	37.08	39.37	41.62	43.60	45.12	46.50	42.64
44.2	44.5	43.9	43.0	42.5	42.1	42.2	44.5	47.1	48.5	50.8	52.1	53.4	49.25
49.9	48.2	47.5	47.0	46.3	45.8	45.9	48.0	50.2	52.3	54.6	56.5	58.2	53.75
44.9	44.7	43.7	42.8	41.7	41.5	41.4	41.6	47.4	49.7	52.0	54.4	55.5	50.01
51.9	50.6	49.9	48.8	48.5	48.1	48.3	50.7	53.8	55.9	58.0	59.3	59.9	55.50
51.1	49.9	49.3	48.4	47.7	47.1	47.1	48.5	52.4	55.2	57.5	59.2	60.3	54.90
50.4	49.4	47.8	47.1	46.1	45.4	45.4	48.7	52.0	54.6	57.2	58.8	59.8	54.07
48.73	47.88	47.02	46.18	45.47	45.00	45.05	47.50	50.48	52.70	55.02	56.72	57.85	52.91
54.1	53.8	52.9	52.1	51.4	50.7	50.9	52.7	55.5	56.9	58.7	60.5	61.8	58.50
54.7	54.0	53.1	53.0	52.3	52.1	52.2	54.0	56.4	58.8	60.9	62.7	64.0	59.97
56.1	56.3	55.1	54.2	53.2	52.4	52.3	55.9	58.8	61.0	62.6	64.6	65.9	60.92
58.6	58.4	57.9	57.2	56.4	55.9	56.0	58.8	61.7	63.9	66.1	67.5	68.5	63.42
54.3	54.0	53.4	52.4	51.8	51.0	51.4	54.0	56.7	58.9	60.9	62.3	63.7	58.44
57.7	56.7	55.7	55.0	54.1	53.7	54.1	57.4	60.6	64.2	65.8	67.4	68.8	62.87
55.92	55.53	54.68	53.98	53.20	52.63	52.82	55.47	58.28	60.62	62.50	64.17	65.45	60.69

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

Monthly Means of the Temperature for every hour of Mean

Mean Toronto Astronomical Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JULY.	1842	70·9	72·5	74·1	74·0	74·2	73·9	73·0	68·8	64·0	61·4	59·9
	1843	70·5	72·3	73·6	73·7	73·8	74·1	72·9	69·3	64·3	61·6	59·8
	1844	71·6	73·3	73·7	74·2	74·2	74·5	73·5	69·3	65·0	63·0	61·1
	1845	73·6	74·5	75·1	75·9	75·4	74·4	72·4	69·3	65·0	62·9	61·9
	1846	75·0	74·5	75·6	75·7	76·0	75·3	73·2	70·2	66·5	64·1	63·6
	1847	75·5	75·5	75·6	75·4	75·4	74·0	72·6	69·8	66·7	64·3	63·6
Hourly Means	72·85	73·77	74·62	74·82	74·83	74·37	72·93	69·45	65·25	62·88	61·65	
AUGUST.	1842	70·8	71·9	72·6	73·6	73·6	73·4	71·5	66·8	63·9	62·4	61·7
	1843	72·7	74·1	75·2	75·5	75·9	75·3	73·6	68·2	64·6	62·8	61·9
	1844	69·6	70·5	71·0	71·7	71·7	71·8	69·3	65·8	62·5	61·0	60·2
	1845	74·3	74·7	75·7	75·7	75·5	74·6	72·7	69·1	66·2	64·6	62·8
	1846	75·1	75·4	75·3	75·5	75·2	74·5	72·6	69·3	67·1	65·4	64·5
	1847	71·3	71·8	72·1	72·0	71·2	70·2	68·7	65·3	62·7	61·3	60·3
Hourly Means	72·30	73·07	73·65	74·00	73·85	73·30	71·40	67·42	64·50	62·92	61·90	
SEPTEMBER.	1842	60·9	61·7	62·3	62·9	62·6	62·0	58·4	55·5	54·3	53·0	51·8
	1843	64·0	65·2	65·7	65·8	65·6	64·6	61·3	58·6	57·4	56·5	55·4
	1844	65·1	66·2	66·7	66·7	66·9	66·3	62·2	58·6	56·5	55·4	54·4
	1845	61·3	61·9	62·2	62·2	61·9	60·4	58·7	56·1	54·9	53·8	52·6
	1846	68·8	68·7	69·2	68·9	68·5	67·4	65·9	63·9	62·8	61·6	60·6
	1847	61·0	61·0	61·0	60·8	60·5	59·5	57·7	55·3	54·4	53·8	52·9
Hourly Means	63·52	64·12	64·52	64·55	64·33	63·37	60·70	58·00	56·72	55·68	54·62	
OCTOBER.	1842	51·2	51·9	52·5	52·4	51·4	49·6	46·9	45·8	44·8	43·7	42·7
	1843	46·5	46·8	47·3	46·9	46·0	44·5	42·5	41·5	41·0	40·6	39·9
	1844	48·7	49·2	49·8	49·8	49·2	47·1	44·8	43·7	42·8	42·3	41·4
	1845	51·9	52·2	52·2	52·0	51·3	49·3	47·2	46·0	45·2	44·9	44·5
	1846	49·4	50·1	49·9	49·5	49·1	47·6	45·8	44·7	44·2	43·1	42·2
	1847	49·3	49·4	50·0	49·7	48·9	47·3	45·9	44·8	44·1	42·9	42·3
Hourly Means	49·50	49·93	50·28	50·05	49·32	47·57	45·52	44·42	43·68	42·92	42·17	
NOVEMBER.	1842	36·7	37·2	37·2	37·0	35·9	34·5	33·6	32·9	32·4	32·2	32·4
	1843	36·1	36·4	36·4	36·3	35·4	34·5	34·1	33·6	33·5	33·2	32·6
	1844	38·9	39·6	39·9	39·8	38·7	36·9	35·4	34·6	33·9	33·5	33·2
	1845	40·3	40·5	40·7	40·2	39·1	38·5	37·8	37·2	36·9	36·4	35·6
	1846	44·1	44·5	44·5	44·4	43·7	42·4	41·8	41·4	41·2	40·8	40·4
	1847	41·3	41·6	41·6	41·6	41·1	39·8	39·0	38·6	38·5	38·6	38·4
Hourly Means	39·57	39·97	40·05	39·88	38·98	37·77	36·95	36·38	36·07	35·78	35·43	
DECEMBER.	1842	27·9	28·6	29·0	28·8	27·9	26·9	26·3	25·7	25·3	25·1	24·3
	1843	33·1	33·3	33·3	33·0	32·2	31·4	31·0	30·6	30·2	29·9	29·8
	1844	31·6	32·2	32·3	31·7	30·9	30·0	29·2	29·0	28·4	28·1	27·5
	1845	24·2	24·9	25·3	25·3	24·7	23·4	22·6	22·2	21·8	21·6	21·7
	1846	30·1	30·9	31·4	31·4	30·9	30·0	29·1	29·0	28·7	28·4	28·1
	1847	32·7	33·1	33·3	33·1	32·8	32·0	31·3	31·0	30·8	30·6	30·5
Hourly Means	29·93	30·65	30·80	30·55	29·90	28·95	28·25	27·92	27·53	27·28	26·98	

STANDARD THERMOMETER.

ciii

Solar Time, from July 1842 to June 1848, inclusive—continued.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
58.7	57.5	56.5	56.0	55.3	54.6	54.7	57.1	60.6	63.6	65.5	67.2	69.1	64.30
58.3	57.1	56.3	55.9	55.4	54.4	54.0	57.3	60.9	62.8	64.8	66.9	68.6	64.11
60.4	58.8	58.2	57.8	57.2	57.0	56.7	59.9	63.0	65.2	67.1	68.6	70.8	65.59
60.7	59.9	58.3	57.5	56.9	56.2	56.4	59.8	63.7	66.5	69.1	70.6	72.5	66.19
61.9	61.2	61.9	60.3	59.3	58.9	59.0	62.5	66.6	69.2	71.3	73.1	73.8	67.82
62.8	62.2	61.2	60.6	59.7	58.9	58.9	62.4	66.2	69.3	72.0	73.6	74.5	67.95
60.47	59.45	58.58	58.02	57.30	56.67	56.62	59.83	63.50	66.10	68.30	70.00	71.55	65.99
60.9	60.4	59.8	59.2	58.7	58.4	58.8	58.4	61.1	63.7	66.2	68.4	69.9	65.25
60.8	60.0	59.7	58.7	58.0	57.3	56.8	58.0	61.2	64.6	67.7	69.8	71.5	66.00
59.5	58.6	58.0	57.5	56.9	56.7	56.5	57.4	59.9	62.4	64.6	66.7	68.4	63.68
62.0	61.2	60.5	60.0	59.2	58.8	58.6	60.4	64.8	68.0	70.5	72.1	73.9	67.33
63.9	62.6	61.7	61.0	60.3	60.1	59.9	61.2	64.8	68.5	70.9	72.9	74.0	67.99
59.5	59.0	58.2	57.4	56.7	56.2	55.8	57.7	61.1	65.3	67.6	69.5	70.4	64.22
61.10	60.30	59.65	58.97	58.30	57.92	57.73	58.85	62.15	65.42	67.92	69.90	71.35	65.74
51.5	51.9	51.3	50.8	50.7	50.1	49.1	49.1	50.9	53.7	56.1	58.0	59.6	55.34
54.6	54.6	54.2	53.8	53.5	53.4	52.7	53.1	55.2	57.0	59.1	60.9	62.5	58.53
53.3	52.8	52.0	51.3	50.9	49.9	49.2	51.0	53.7	57.1	59.8	62.1	63.9	58.00
52.3	51.4	50.7	49.8	49.5	48.5	47.9	48.7	52.3	55.0	57.6	59.6	60.8	55.42
60.1	59.7	59.1	58.6	57.4	56.8	56.3	56.7	59.5	62.3	64.8	66.6	68.2	63.02
52.1	51.4	50.8	50.3	49.8	49.6	49.3	50.0	52.3	55.3	57.5	59.5	60.3	55.25
53.98	53.63	53.02	52.43	51.97	51.38	50.75	51.43	53.98	56.73	59.15	61.12	62.55	57.59
42.0	41.3	40.7	40.4	40.0	39.7	39.3	39.6	40.5	43.0	45.9	48.0	49.8	45.13
39.1	38.3	38.3	37.8	37.8	37.4	37.2	37.9	38.5	40.0	42.7	44.6	45.7	41.62
40.5	40.3	38.9	39.0	38.9	38.4	38.2	38.3	39.2	41.7	44.1	45.9	47.5	43.32
44.4	42.5	42.0	41.6	41.4	41.1	41.1	41.5	42.0	44.7	47.8	49.8	51.1	46.15
41.7	42.5	41.8	41.5	41.2	41.1	40.8	40.9	41.5	43.7	45.9	47.8	49.0	44.79
41.3	40.8	40.4	39.9	39.9	39.7	39.8	39.5	40.5	42.6	45.4	47.3	48.5	44.17
41.50	40.95	40.35	40.03	39.87	39.57	39.40	39.62	40.37	42.62	45.30	47.23	48.60	44.20
32.1	31.4	31.3	31.1	30.6	30.6	31.2	30.7	30.7	32.0	33.5	34.9	36.1	33.26
32.2	31.4	31.0	30.8	30.7	30.6	30.3	30.5	30.8	31.7	33.1	34.4	35.4	33.13
32.6	32.8	32.4	32.3	31.6	31.4	32.1	31.7	31.6	32.9	34.8	36.9	37.4	34.79
35.4	34.1	33.8	33.7	33.7	33.4	33.3	34.2	34.3	35.1	36.9	38.1	39.5	36.61
40.1	39.1	38.8	38.5	38.2	38.2	38.0	39.0	38.9	39.7	40.8	42.3	43.5	41.01
38.1	37.7	37.3	36.7	36.4	36.0	36.0	36.4	36.2	37.4	38.9	40.0	40.8	38.67
35.08	34.42	34.13	33.85	33.53	33.37	33.48	33.75	33.75	34.80	36.33	37.77	38.78	36.24
24.3	23.8	23.6	23.0	22.8	22.8	23.0	23.1	22.5	23.0	24.1	25.8	27.1	25.20
29.3	29.9	29.4	29.5	29.4	29.3	28.8	29.0	29.0	29.5	30.1	31.3	32.5	30.62
27.5	27.5	26.3	26.4	26.1	26.2	26.7	26.4	26.4	27.1	28.4	29.7	30.8	28.60
21.6	21.0	20.1	19.2	19.0	19.1	19.1	18.2	18.4	18.8	20.5	22.2	23.5	21.60
28.0	27.4	26.8	26.2	26.2	26.0	25.7	24.8	24.4	24.7	26.0	27.5	29.1	27.95
30.5	29.6	29.5	29.2	29.2	29.1	29.1	28.4	28.2	28.4	29.5	30.8	31.7	30.60
26.87	26.53	25.95	25.58	25.45	25.42	25.40	24.98	24.82	25.25	26.43	27.88	29.12	27.43



## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LIV.—*Monthly Means of the Barometer at every Hour of Mean*  
Barometer at 32° = 27 English

Mean Toronto Astronomical Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JANUARY.	In. 1843	2·588	2·573	2·567	2·569	2·581	2·584	2·589	2·596	2·596	2·593	2·594
	1844	2·614	2·602	2·602	2·608	2·610	2·616	2·626	2·626	2·625	2·622	2·614
	1845	2·604	2·596	2·595	2·604	2·609	2·616	2·624	2·632	2·638	2·644	2·647
	1846	2·619	2·599	2·593	2·596	2·594	2·601	2·609	2·611	2·611	2·614	2·610
	1847	2·584	2·572	2·576	2·589	2·594	2·598	2·604	2·607	2·601	2·596	2·597
	1848	2·651	2·633	2·626	2·630	2·637	2·646	2·654	2·661	2·668	2·667	2·665
	Hourly Means	2·610	2·596	2·593	2·599	2·604	2·610	2·618	2·622	2·623	2·623	2·621
FEBRUARY.	1843	2·559	2·539	2·533	2·536	2·540	2·551	2·563	2·571	2·570	2·576	2·573
	1844	2·671	2·636	2·645	2·647	2·649	2·653	2·663	2·671	2·674	2·676	2·675
	1845	2·597	2·579	2·570	2·567	2·562	2·565	2·565	2·570	2·567	2·562	2·557
	1846	2·672	2·654	2·640	2·634	2·631	2·630	2·635	2·647	2·650	2·652	2·652
	1847	2·627	2·612	2·604	2·606	2·609	2·612	2·619	2·624	2·628	2·631	2·637
	1848	2·612	2·597	2·584	2·585	2·586	2·590	2·595	2·603	2·608	2·610	2·609
	Hourly Means	2·623	2·606	2·596	2·596	2·596	2·600	2·607	2·614	2·616	2·618	2·617
MARCH.	1843	2·556	2·539	2·533	2·529	2·528	2·536	2·542	2·550	2·559	2·562	2·564
	1844	5·660	2·647	2·634	2·626	2·629	2·632	2·638	2·644	2·653	2·659	2·660
	1845	2·606	2·597	2·590	2·594	2·595	2·598	2·604	2·612	2·616	2·620	2·616
	1846	2·615	2·598	2·581	2·575	2·570	2·579	2·582	2·589	2·596	2·599	2·597
	1847	2·683	2·671	2·662	2·661	2·660	2·665	2·670	2·671	2·677	2·685	2·685
	1848	2·662	2·641	2·626	2·615	2·617	2·617	2·619	2·627	2·630	2·634	2·635
	Hourly Means	2·630	2·616	2·604	2·600	2·600	2·605	2·609	2·615	2·622	2·627	2·626
APRIL.	1843	2·612	2·605	2·592	2·584	2·580	2·582	2·586	2·590	2·594	2·597	2·593
	1844	2·579	2·748	2·735	2·722	2·715	2·716	2·711	2·711	2·721	2·723	2·724
	1845	2·607	2·604	2·594	2·589	2·590	2·591	2·592	2·591	2·601	2·602	2·595
	1846	2·724	2·713	2·701	2·688	2·682	2·686	2·680	2·682	2·691	2·690	2·687
	1847	2·591	2·583	2·568	2·561	2·556	2·562	2·569	2·569	2·581	2·579	2·575
	1848	2·749	2·742	2·732	2·721	2·716	2·714	2·713	2·717	2·725	2·727	2·728
	Hourly Means	2·674	2·666	2·654	2·644	2·640	2·642	2·642	2·643	2·652	2·653	2·650
MAY.	1843	2·616	2·606	2·600	2·592	2·593	3·595	2·599	2·603	2·616	2·624	2·627
	1844	2·556	2·550	2·547	2·538	2·524	2·520	2·519	2·522	2·536	2·546	2·554
	1845	2·646	2·637	2·623	2·612	2·605	2·602	2·604	2·609	2·620	2·633	2·636
	1846	2·516	2·510	2·502	2·492	2·491	2·491	2·491	2·496	2·500	2·506	2·501
	1847	2·602	2·587	2·576	2·566	2·560	2·555	2·557	2·559	2·566	2·575	2·580
	1848	2·501	2·490	2·480	2·473	2·467	2·465	2·470	2·474	2·482	2·489	2·492
	Hourly Means	2·573	2·563	2·555	2·546	2·540	2·538	2·540	2·544	2·553	2·562	2·565
JUNE.	1843	2·569	2·558	2·551	2·541	2·530	2·526	2·526	2·528	2·533	2·542	2·542
	1844	2·622	2·609	2·603	2·598	2·590	2·587	2·589	2·594	2·599	2·611	2·614
	1845	2·616	2·609	2·602	2·594	2·588	2·582	2·579	2·579	2·580	2·589	2·593
	1846	2·606	2·599	2·587	2·579	2·575	2·565	2·567	2·570	2·573	2·587	2·587
	1847	2·574	2·566	2·562	2·557	2·554	2·548	2·547	2·549	2·553	2·564	2·567
	1848	2·553	2·540	2·528	2·518	2·510	2·510	2·511	2·518	2·522	2·530	2·532
	Hourly Means	2·590	2·580	2·572	2·565	2·558	2·553	2·553	2·556	2·560	2·571	2·573

BAROMETRIC PRESSURE.

cv

Solar Time from July 1842 to June 1848, inclusive.

inches + the numbers in the Table.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
In. 2·597	In. 2·602	In. 2·600	In. 2·602	In. 2·597	In. 2·589	In. 2·587	In. 2·611	In. 2·611	In. 2·622	In. 2·625	In. 2·624	In. 2·610	In. 2·596
2·608	2·585	2·599	2·606	2·607	2·601	2·592	2·594	2·604	2·623	2·631	2·636	2·630	2·612
2·645	2·637	2·632	2·636	2·636	2·629	2·625	2·608	2·613	2·625	2·631	2·636	2·624	2·624
2·608	2·618	2·616	2·625	2·628	2·626	2·621	2·620	2·627	2·636	2·645	2·649	2·638	2·617
2·597	2·584	2·591	2·596	2·595	2·590	2·581	2·593	2·595	2·608	2·617	2·618	2·605	2·595
2·661	2·683	2·682	2·684	2·677	2·668	2·670	2·678	2·682	2·688	2·696	2·694	2·681	2·666
2·619	2·618	2·620	2·625	2·623	2·617	2·613	2·617	2·622	2·634	2·641	2·643	2·631	2·618
2·570	2·545	2·546	2·551	2·552	2·554	2·553	2·533	2·548	2·572	2·576	2·576	2·573	2·557
2·675	2·642	2·640	2·639	2·638	2·638	2·637	2·654	2·668	2·683	2·687	2·688	2·684	2·660
2·551	2·548	2·551	2·553	2·549	2·556	2·560	2·599	2·605	2·614	2·620	2·615	2·613	2·575
2·649	2·677	2·674	2·674	2·673	2·666	2·667	2·669	2·678	2·690	2·693	2·693	2·689	2·662
2·630	2·596	2·595	2·598	2·603	2·605	2·608	2·619	2·630	2·642	2·653	2·652	2·647	2·620
2·609	2·604	2·608	2·611	2·611	2·612	2·619	2·608	2·620	2·629	2·634	2·633	2·627	2·609
2·614	2·602	2·602	2·604	2·604	2·605	2·607	2·614	2·625	2·638	2·644	2·643	2·639	2·614
2·563	2·571	2·569	2·567	2·563	2·563	2·563	2·568	2·574	2·578	2·576	2·574	2·566	2·558
2·659	2·653	2·656	2·651	2·651	2·655	2·659	2·648	2·662	2·670	2·673	2·675	2·670	2·653
2·612	2·552	2·549	2·556	2·549	2·552	2·565	2·583	2·597	2·607	2·613	2·615	2·613	2·592
2·596	2·612	2·616	2·611	2·603	2·603	2·599	2·614	2·624	2·628	2·628	2·628	2·623	2·603
2·688	2·679	2·676	2·672	2·666	2·670	2·678	2·668	2·681	2·686	2·689	2·689	2·685	2·676
2·638	2·645	2·650	2·649	2·647	2·636	2·657	2·676	2·686	2·690	2·689	2·682	2·673	2·648
2·626	2·619	2·619	2·618	2·613	2·613	2·620	2·626	2·637	2·643	2·645	2·644	2·638	2·622
2·589	2·586	2·578	2·573	2·575	2·582	2·590	2·617	2·630	2·635	2·636	2·633	2·624	2·598
2·725	2·727	2·721	2·720	2·721	2·718	2·722	2·771	2·777	2·782	2·781	2·780	2·770	2·738
2·592	2·595	2·593	2·594	2·590	2·593	2·599	2·594	2·610	2·617	2·617	2·617	2·614	2·599
2·684	2·682	2·666	2·675	2·676	2·677	2·687	2·733	2·747	2·752	2·752	2·748	2·737	2·702
2·569	2·563	2·556	2·548	2·546	2·543	2·551	2·581	2·594	2·601	2·605	2·607	2·600	2·573
2·727	2·708	2·707	2·708	2·714	2·717	2·726	2·740	2·754	2·764	2·768	2·766	2·762	2·731
2·648	2·644	2·637	2·636	2·637	2·638	2·646	2·673	2·685	2·692	2·693	2·692	2·685	2·657
2·628	2·611	2·607	2·605	2·608	2·615	2·629	2·626	2·634	2·633	2·633	2·633	2·626	2·615
2·554	2·551	2·547	2·543	2·547	2·550	2·558	2·563	2·573	2·577	2·574	2·576	2·566	2·550
2·641	2·617	2·628	2·632	2·637	2·631	2·649	2·659	2·665	2·668	2·670	2·668	2·661	2·636
2·502	2·511	2·506	2·503	2·500	2·500	2·511	2·515	2·520	2·525	2·525	2·525	2·522	2·507
2·581	2·584	2·574	2·571	2·572	2·576	2·587	2·609	2·616	2·618	2·614	2·616	2·610	2·584
2·490	2·496	2·497	2·496	2·496	2·501	2·510	2·522	2·528	2·529	2·524	2·519	2·513	2·496
2·566	2·562	2·560	2·558	2·560	2·562	2·574	2·582	2·589	2·592	2·590	2·590	2·583	2·565
2·543	2·546	2·540	2·539	2·542	2·549	2·561	2·572	2·581	2·585	2·582	2·584	2·579	2·552
2·618	2·603	2·600	2·600	2·599	2·603	2·610	2·624	2·631	2·633	2·632	2·629	2·625	2·609
2·595	2·572	2·572	2·573	2·577	2·586	2·602	2·617	2·625	2·630	2·631	2·629	2·626	2·598
2·587	2·594	2·592	2·589	2·587	2·593	2·609	2·613	2·619	2·622	2·621	2·620	2·614	2·594
2·570	2·551	2·547	2·546	2·548	2·553	2·568	2·569	2·576	2·581	2·580	2·581	2·578	2·562
2·534	2·543	2·544	2·545	2·545	2·548	2·560	2·575	2·579	2·581	2·579	2·575	2·565	2·544
2·575	2·568	2·566	2·565	2·566	2·572	2·585	2·595	2·602	2·605	2·604	2·603	2·598	2·577

## ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

Monthly Means of the Barometer at every Hour of Mean  
Barometer at 32° = 27 English

Mean Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JULY.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
	1842	2·670	2·661	2·651	2·642	2·633	2·627	2·632	2·634	2·637	2·648	2·648
	1843	2·630	2·621	2·612	2·601	2·596	2·591	2·598	2·602	2·609	2·622	2·625
	1844	2·546	2·541	2·531	2·528	2·520	2·514	2·512	2·515	2·520	2·530	2·531
	1845	2·518	2·511	2·503	2·497	2·490	2·484	2·488	2·492	2·497	2·508	2·509
	1846	2·597	2·585	2·577	2·571	2·568	2·559	2·560	2·563	2·569	2·585	2·587
1847	2·653	2·641	2·631	2·619	2·614	2·608	2·609	2·607	2·613	2·620	2·625	
Hourly Means	2·602	2·593	2·584	2·576	2·570	2·564	2·567	2·569	2·574	2·586	2·588	
AUGUST.	1842	2·732	2·724	2·714	2·702	2·697	2·693	2·692	2·693	2·701	2·703	2·703
	1843	2·697	2·689	2·678	2·670	2·664	2·659	2·660	2·665	2·674	2·678	2·678
	1844	2·535	2·529	2·518	2·511	2·509	2·510	2·515	2·521	2·528	2·534	2·533
	1845	2·652	2·642	2·631	2·618	2·614	2·610	2·612	2·614	2·625	2·635	2·636
	1846	2·660	2·648	2·639	2·624	2·617	2·613	2·611	2·608	2·616	2·626	2·628
	1847	2·649	2·644	2·631	2·621	2·617	2·616	2·615	2·614	2·621	2·623	2·622
Hourly Means	2·654	2·646	2·635	2·624	2·620	2·617	2·618	2·619	2·628	2·633	2·633	
SEPTEMBER.	1842	2·683	2·674	2·663	2·655	2·648	2·648	2·651	2·653	2·659	2·659	2·657
	1843	2·702	2·692	2·682	2·674	2·672	2·674	2·675	2·684	2·691	2·696	2·695
	1844	2·735	2·725	2·715	2·707	2·703	2·707	2·710	2·719	2·729	2·734	2·734
	1845	2·567	2·554	2·542	2·532	2·533	2·536	2·536	2·542	2·550	2·551	2·549
	1846	2·641	2·630	2·609	2·601	2·596	2·592	2·590	2·596	2·608	2·601	2·609
	1847	2·624	2·616	2·606	2·597	2·595	2·594	2·596	2·599	2·607	2·611	2·615
Hourly Means	2·659	2·649	2·636	2·628	2·625	2·625	2·626	2·632	2·641	2·642	2·643	
OCTOBER.	1842	2·632	2·622	2·614	2·608	2·602	2·614	2·620	2·625	2·630	2·632	2·632
	1843	2·535	2·530	2·526	2·526	2·531	2·537	2·541	2·547	2·555	2·558	2·559
	1844	2·641	2·625	2·620	2·618	2·620	2·624	2·628	2·631	2·632	2·632	2·631
	1845	2·812	2·796	2·783	2·779	2·776	2·772	2·774	2·775	2·775	2·772	2·769
	1846	2·688	2·673	2·667	2·671	2·672	2·674	2·685	2·695	2·703	2·712	2·721
	1847	2·687	2·670	2·659	2·658	2·658	2·659	2·661	2·664	2·666	2·674	2·680
Hourly Means	2·666	2·653	2·645	2·643	2·643	2·647	2·652	2·656	2·660	2·663	2·665	
NOVEMBER.	1842	2·612	2·598	2·596	2·598	2·599	2·601	2·605	2·605	2·606	2·606	2·606
	1843	2·666	2·655	2·650	2·652	2·656	2·658	2·666	2·667	2·669	2·671	2·670
	1844	2·603	2·586	2·579	2·579	2·584	2·591	2·599	2·606	2·610	2·615	2·615
	1845	2·503	2·493	2·487	2·492	2·495	2·507	2·513	2·511	2·510	2·503	2·504
	1846	2·679	2·671	2·658	2·658	2·658	2·660	2·661	2·663	2·658	2·658	2·655
	1847	2·695	2·687	2·678	2·678	2·680	2·679	2·680	2·682	2·680	2·678	2·674
Hourly Means	2·626	2·615	2·608	2·610	2·612	2·616	2·621	2·622	2·622	2·622	2·621	
DECEMBER.	1842	2·642	2·628	2·623	2·629	2·636	2·634	2·639	2·645	2·643	2·643	2·647
	1843	2·660	2·648	2·643	2·645	2·653	2·657	2·665	2·673	2·673	2·671	2·670
	1844	2·539	2·526	2·521	2·526	2·534	2·538	2·542	2·546	2·549	2·551	2·558
	1845	2·693	2·680	2·669	2·673	2·680	2·682	2·691	2·695	2·695	2·693	2·695
	1846	2·646	2·641	2·633	2·638	2·639	2·639	2·642	2·642	2·637	2·632	2·626
	1847	2·658	2·643	2·637	2·640	2·649	2·651	2·658	2·662	2·658	2·655	2·647
Hourly Means	2·640	2·628	2·621	2·625	2·632	2·634	2·640	2·644	2·643	2·641	2·641	

BAROMETRIC PRESSURE.

cvii

*Solar Time from July 1842 to June 1848, inclusive—continued.*

inches + the numbers in the Table.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
2·647	2·660	2·656	2·650	2·651	2·654	2·667	2·667	2·673	2·678	2·679	2·679	2·676	2·655
2·627	2·619	2·616	2·615	2·615	2·623	2·633	2·633	2·640	2·645	2·642	2·638	2·635	2·620
2·538	2·541	2·537	2·535	2·531	2·536	2·543	2·551	2·556	2·559	2·558	2·555	2·553	2·537
2·511	2·499	2·502	2·503	2·502	2·504	2·516	2·518	2·526	2·530	2·532	2·531	2·527	2·508
2·589	2·578	2·578	2·577	2·577	2·583	2·594	2·600	2·607	2·609	2·608	2·608	2·604	2·585
2·627	2·618	2·617	2·616	2·619	2·623	2·634	2·648	2·657	2·664	2·667	2·664	2·659	2·631
2·590	2·586	2·584	2·583	2·583	2·587	2·598	2·603	2·610	2·614	2·614	2·613	2·609	2·589
2·705	2·702	2·696	2·695	2·695	2·698	2·702	2·728	2·736	2·739	2·740	2·741	2·738	2·711
2·679	2·669	2·667	2·667	2·663	2·671	2·680	2·694	2·701	2·705	2·705	2·705	2·702	2·680
2·536	2·540	2·534	2·525	2·525	2·525	2·529	2·530	2·537	2·540	2·544	2·546	2·540	2·529
2·639	2·623	2·619	2·615	2·614	2·616	2·624	2·642	2·653	2·656	2·658	2·658	2·658	2·632
2·627	2·633	2·630	2·628	2·629	2·631	2·638	2·656	2·664	2·670	2·677	2·676	2·670	2·638
2·622	2·633	2·628	2·626	2·628	2·631	2·637	2·656	2·662	2·666	2·669	2·671	2·662	2·636
2·635	2·633	2·629	2·626	2·626	2·629	2·635	2·651	2·659	2·663	2·666	2·667	2·662	2·638
2·656	2·637	2·639	2·635	2·634	2·641	2·652	2·677	2·684	2·690	2·698	2·696	2·689	2·662
2·696	2·673	2·673	2·671	2·671	2·675	2·680	2·711	2·719	2·724	2·724	2·719	2·714	2·691
2·735	2·733	2·731	2·732	2·732	2·735	2·743	2·739	2·746	2·747	2·751	2·751	2·746	2·731
2·546	2·566	2·566	2·573	2·569	2·571	2·575	2·585	2·588	2·587	2·590	2·587	2·576	2·561
2·612	2·612	2·613	2·614	2·618	2·623	2·636	2·655	2·664	2·663	2·665	2·665	2·655	2·624
2·609	2·598	2·596	2·593	2·590	2·593	2·599	2·625	2·631	2·635	2·640	2·639	2·632	2·610
2·642	2·637	2·636	2·636	2·636	2·640	2·648	2·665	2·672	2·674	2·678	2·676	2·669	2·647
2·632	2·648	2·648	2·642	2·638	2·646	2·650	2·640	2·652	2·659	2·660	2·657	2·650	2·636
2·556	2·552	2·551	2·549	2·546	2·544	2·542	2·517	2·537	2·544	2·547	2·547	2·545	2·543
2·625	2·619	2·635	2·627	2·627	2·631	2·635	2·648	2·658	2·664	2·666	2·662	2·655	2·636
2·765	2·789	2·792	2·792	2·792	2·795	2·802	2·810	2·822	2·827	2·833	2·832	2·826	2·794
2·723	2·704	2·702	2·700	2·699	2·696	2·698	2·695	2·707	2·710	2·709	2·703	2·700	2·696
2·677	2·668	2·670	2·672	2·669	2·673	2·683	2·674	2·687	2·697	2·702	2·702	2·699	2·675
2·663	2·663	2·666	2·664	2·662	2·664	2·668	2·664	2·677	2·684	2·686	2·684	2·679	2·663
2·604	2·618	2·614	2·614	2·610	2·609	2·598	2·635	2·637	2·642	2·638	2·640	2·629	2·613
2·668	2·675	2·674	2·674	2·670	2·665	2·658	2·663	2·672	2·683	2·683	2·690	2·681	2·668
2·612	2·611	2·613	2·622	2·620	2·618	2·622	2·621	2·631	2·639	2·634	2·634	2·623	2·611
2·501	2·511	2·510	2·514	2·514	2·516	2·515	2·502	2·512	2·520	2·523	2·527	2·517	2·508
2·652	2·669	2·670	2·671	2·674	2·677	2·682	2·674	2·683	2·692	2·700	2·701	2·691	2·671
2·670	2·674	2·676	2·680	2·677	2·681	2·682	2·683	2·691	2·704	2·710	2·716	2·709	2·685
2·618	2·626	2·626	2·629	2·628	2·628	2·626	2·630	2·638	2·647	2·648	2·651	2·642	2·626
2·637	2·648	2·647	2·654	2·653	2·650	2·653	2·653	2·658	2·676	2·677	2·679	2·668	2·648
2·669	2·673	2·669	2·673	2·670	2·666	2·659	2·661	2·663	2·676	2·683	2·687	2·677	2·666
2·559	2·557	2·556	2·563	2·557	2·542	2·533	2·553	2·558	2·564	2·568	2·571	2·557	2·549
2·696	2·667	2·668	2·680	2·687	2·683	2·691	2·701	2·709	2·717	2·717	2·723	2·712	2·692
2·619	2·623	2·622	2·627	2·627	2·629	2·629	2·659	2·666	2·675	2·679	2·685	2·665	2·643
2·646	2·656	2·649	2·651	2·649	2·642	2·640	2·665	2·672	2·679	2·688	2·690	2·677	2·657
2·638	2·637	2·635	2·641	2·641	2·635	2·634	2·649	2·654	2·665	2·669	2·673	2·659	2·643

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LV.—Monthly Means of the Wet Thermometer for every hour of Mean

Mean Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JANUARY.	1843	29.3	29.8	29.8	29.5	29.0	28.3	27.8	27.3	27.4	27.3	27.3
	1844	20.3	20.7	21.4	21.5	21.4	20.6	19.8	19.5	19.1	19.1	18.7
	1845	27.2	27.6	27.8	27.4	26.7	25.9	25.3	24.8	24.0	23.7	23.2
	1846	26.6	27.2	27.7	27.9	27.6	27.0	26.4	25.7	25.7	25.5	24.9
	1847	23.2	23.4	23.2	22.7	22.3	21.6	21.1	20.6	20.4	20.4	20.3
	1848	29.4	29.8	30.4	30.7	29.7	28.6	27.6	27.1	26.9	26.6	26.2
Hourly Means	26.00	26.42	26.71	26.62	26.11	25.34	24.67	24.17	23.92	23.77	23.43	
FEBRUARY.	1843	16.0	16.6	17.1	17.1	16.8	15.8	14.2	13.1	12.3	11.2	10.5
	1844	28.0	29.0	29.3	29.8	29.2	28.2	26.6	25.9	25.0	24.4	23.8
	1845	27.2	27.4	27.7	27.5	27.0	25.9	25.2	24.9	24.3	24.3	24.1
	1846	26.3	26.5	26.5	26.6	26.3	25.5	24.2	23.4	22.4	22.0	21.6
	1847	23.8	24.8	25.2	25.1	24.6	23.7	22.9	21.8	21.2	20.8	20.0
	1848	28.5	29.4	29.7	29.7	29.6	28.6	27.3	26.5	26.0	25.7	25.2
Hourly Means	24.97	25.62	25.91	25.97	25.58	24.62	23.40	22.60	21.87	21.40	20.87	
MARCH.	1843	23.2	24.3	24.4	24.6	24.1	23.5	21.5	20.4	19.5	18.7	17.9
	1844	31.9	32.8	33.6	33.3	33.2	32.7	31.7	30.4	29.6	29.0	28.6
	1845	35.5	36.1	36.3	35.7	35.5	34.9	33.5	32.8	32.5	32.1	31.2
	1846	35.0	35.3	35.8	35.6	34.7	34.7	33.5	31.8	31.2	30.0	29.6
	1847	27.5	27.7	28.1	27.9	27.7	27.4	26.0	24.8	24.1	23.3	22.5
	1848	30.7	31.5	32.1	32.4	31.7	31.2	29.7	28.3	27.5	27.0	26.8
Hourly Means	30.63	31.28	31.72	31.58	31.15	30.73	29.31	28.08	27.60	26.68	26.10	
APRIL.	1843	41.0	41.6	41.9	42.3	42.2	41.9	40.4	38.6	37.7	37.0	36.2
	1844	48.2	49.4	49.8	50.1	49.4	49.9	47.4	45.4	43.1	42.3	41.4
	1845	41.5	41.9	41.8	41.8	41.7	41.1	40.1	38.9	38.4	37.7	36.9
	1846	43.6	44.0	44.4	44.0	43.9	43.3	42.4	40.8	39.7	39.1	38.7
	1847 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	1848	41.1	41.3	41.6	41.5	41.2	40.8	40.2	38.8	37.7	36.9	36.5
Hourly Means	43.08	43.64	43.90	43.94	43.68	43.40	42.10	40.50	39.32	38.60	37.94	
MAY.	1843	48.0	49.0	49.1	49.3	49.3	49.2	47.4	45.3	43.6	42.4	41.5
	1844	55.6	55.4	54.8	54.4	54.5	54.5	53.1	51.0	49.3	48.3	47.6
	1845	50.3	50.5	50.7	50.6	50.8	50.2	49.2	47.0	45.3	43.7	42.8
	1846	55.5	55.8	56.0	55.6	55.7	55.3	54.8	53.0	51.1	49.8	49.6
	1847	54.6	54.8	55.2	55.1	54.5	54.7	53.5	51.8	50.9	49.8	49.2
	1848	55.0	55.2	55.0	54.6	54.4	54.2	53.0	51.6	50.0	48.8	48.1
Hourly Means	53.17	53.45	53.47	53.27	53.20	53.02	51.83	49.95	48.37	47.13	46.47	
JUNE.	1843	59.2	59.6	60.1	60.4	60.1	59.6	59.1	57.3	55.3	54.1	52.9
	1844	59.4	60.5	60.7	60.8	60.9	61.6	60.2	58.0	55.2	53.6	52.6
	1845	60.8	60.6	60.8	60.8	61.4	60.9	59.4	58.4	56.4	55.2	54.4
	1846	61.9	62.2	62.2	62.1	62.3	62.1	61.6	59.9	57.6	56.4	55.6
	1847	59.2	59.8	59.1	59.5	59.0	58.3	57.4	56.0	54.4	52.9	52.1
	1848	62.3	62.3	62.2	62.7	62.3	61.2	60.4	59.1	57.6	56.1	55.4
Hourly Means	60.47	60.83	60.85	61.05	61.00	60.62	59.68	58.12	56.08	54.72	53.83	

<sup>a</sup> Observations cancelled.

WET THERMOMETER.

cix

*Solar Time, from July 1842 to June 1848, inclusive.*

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
27.0	25.1	24.9	25.1	24.9	25.0	25.3	25.4	25.0	25.4	26.3	27.2	28.5	27.00
18.4	18.1	17.0	16.8	16.6	16.5	16.2	16.7	16.4	16.9	17.6	18.3	19.4	18.63
22.9	23.0	22.8	22.8	22.6	22.5	22.2	24.1	23.6	23.8	24.7	25.8	26.5	24.62
24.4	24.3	23.6	23.0	22.7	22.2	22.0	22.5	22.7	22.9	23.8	25.1	26.0	24.89
20.2	20.3	19.8	20.0	19.8	19.7	19.5	19.9	20.2	20.2	21.1	22.1	22.8	21.03
26.0	24.8	24.6	24.7	24.8	24.7	24.5	25.9	25.8	25.8	26.9	27.7	28.7	27.00
23.15	22.60	22.11	22.07	21.90	21.77	21.62	22.41	22.28	22.50	23.40	24.37	25.32	23.86
9.9	9.8	9.4	9.1	9.0	8.6	8.2	7.9	7.7	8.5	10.6	12.4	14.1	11.91
23.4	25.1	25.1	24.8	24.5	24.3	24.0	22.5	22.2	22.9	24.3	25.7	26.9	25.62
24.5	25.0	24.7	24.4	23.6	23.1	23.1	21.3	21.2	22.3	24.1	24.7	25.8	24.72
20.7	19.6	19.2	18.6	17.5	16.8	16.3	18.5	19.1	19.9	22.1	24.3	25.1	22.04
19.3	18.9	18.7	18.4	18.5	18.4	18.1	18.0	17.6	18.5	19.9	21.8	23.0	20.96
24.8	24.0	23.3	22.8	22.5	22.2	22.4	22.0	21.9	23.1	25.4	26.8	27.7	25.63
20.43	20.40	20.07	19.68	19.27	18.90	18.68	18.37	18.28	19.20	21.07	22.62	23.77	21.81
16.9	17.0	16.5	16.0	15.8	15.6	15.9	14.7	15.2	17.3	19.1	20.9	22.1	19.38
28.5	29.7	28.1	27.3	27.1	26.7	26.4	26.8	27.0	27.8	29.2	30.4	31.0	29.70
30.7	31.5	31.1	30.9	30.6	30.2	30.1	29.1	29.9	31.9	33.3	34.4	35.1	32.70
29.0	29.2	29.3	28.8	28.6	28.4	28.3	27.6	28.6	30.7	32.8	34.0	34.6	31.54
21.9	22.3	21.8	21.5	20.9	20.6	19.8	19.8	20.3	22.3	24.0	25.4	26.5	23.92
26.2	25.6	24.8	24.5	24.6	24.3	24.0	22.9	23.8	25.6	27.0	28.3	29.2	27.48
25.53	25.88	25.27	24.83	24.60	24.30	24.08	23.48	24.13	25.93	27.56	28.90	29.75	27.45
35.8	35.9	35.2	34.9	34.4	34.2	33.6	33.1	34.3	36.4	37.6	39.2	40.2	37.73
41.1	40.9	40.4	39.9	39.4	39.3	39.0	38.5	40.7	42.6	44.6	46.1	47.1	44.00
36.8	36.0	35.6	34.9	34.8	34.7	34.6	35.3	36.5	37.9	39.4	40.2	41.1	38.34
38.3	38.1	38.3	37.6	37.0	36.8	36.3	36.0	38.4	39.7	41.2	42.2	43.2	40.29
35.8	35.5	34.8	34.5	33.7	33.4	32.7	33.2	35.4	36.9	38.5	39.5	40.4	37.58
37.56	37.28	36.86	36.36	35.86	35.68	35.24	35.22	37.05	38.70	40.26	41.44	42.40	39.58
40.9	41.1	40.8	40.4	39.9	39.7	39.9	41.6	43.2	45.1	45.8	46.7	47.6	44.45
46.9	46.0	45.4	44.8	44.4	44.1	44.3	45.8	47.5	49.2	51.0	52.5	53.8	49.76
41.7	41.7	40.8	40.3	39.5	39.3	39.3	41.8	43.7	44.8	46.6	48.4	49.5	45.35
49.0	47.6	47.1	46.6	46.5	46.2	46.4	48.1	50.2	51.7	53.3	54.4	54.6	51.41
48.3	47.2	46.7	46.2	45.8	45.4	45.5	46.7	49.2	51.0	52.6	53.5	54.3	50.69
47.6	47.0	45.9	45.4	44.8	44.2	44.3	47.0	49.0	50.8	52.5	53.6	54.5	50.27
45.73	45.10	44.45	43.95	43.48	43.15	43.28	45.17	47.13	48.77	50.30	51.52	52.38	48.66
51.5	51.6	51.0	50.4	49.8	49.4	49.9	51.0	53.2	54.4	55.7	57.0	58.1	55.03
51.9	51.7	51.1	50.7	50.3	50.2	50.2	51.6	53.6	55.3	56.5	57.7	58.7	55.54
53.8	53.9	52.7	52.0	51.4	50.7	50.5	53.3	54.8	56.3	57.7	59.5	60.5	56.51
55.0	54.9	54.4	53.8	53.2	52.8	53.1	55.4	57.4	58.8	60.4	61.4	61.8	58.18
51.7	51.5	50.8	50.3	49.8	49.2	49.5	51.7	53.7	55.3	57.0	57.8	58.8	54.78
54.8	54.5	53.9	53.2	52.5	52.2	52.4	55.1	57.1	59.4	60.6	61.5	62.1	57.95
53.12	53.02	52.32	51.73	51.17	50.75	50.93	53.02	54.97	56.58	57.98	59.15	60.00	56.33

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

Monthly Means of the Wet Thermometer for every hour of Mean

Mean Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JULY.	1842	62.9	63.8	64.4	64.2	64.1	64.1	63.4	60.6	58.3	57.0	56.4
	1843	63.8	64.5	64.6	64.5	65.8	64.8	64.0	62.0	58.9	57.4	56.1
	1844	64.5	65.4	65.1	65.8	65.9	65.9	65.6	63.7	60.6	59.3	58.1
	1845	64.4	64.7	65.0	65.1	65.0	64.4	63.4	62.2	60.1	58.9	58.0
	1846	66.3	65.9	66.7	66.3	66.4	65.7	65.2	64.0	61.9	60.4	59.8
	1847	68.0	68.3	68.1	67.9	67.6	66.8	66.3	64.8	63.1	61.7	60.9
Hourly Means	64.98	65.43	65.65	65.63	65.80	65.28	64.65	62.88	60.48	59.12	58.22	
AUGUST.	1842	64.4	65.3	65.7	65.8	66.0	65.6	64.5	62.0	60.3	59.4	59.0
	1843	66.5	67.6	67.8	67.8	67.8	67.5	66.7	63.6	61.4	59.9	59.1
	1844	64.1	64.5	65.0	65.5	65.0	64.6	63.3	61.0	59.5	58.4	57.7
	1845	67.1	67.3	67.7	67.4	67.4	67.3	66.2	63.8	62.1	60.8	59.8
	1846	68.1	68.0	67.7	67.5	67.0	66.6	65.8	63.8	62.7	61.7	61.0
	1847	65.1	65.2	65.1	65.0	64.7	64.2	63.7	61.8	60.1	59.0	58.2
Hourly Means	65.88	66.32	66.50	66.50	66.32	65.97	65.03	62.67	61.02	59.87	59.13	
SEPTEMBER.	1842	55.0	55.1	55.4	55.6	55.4	55.5	53.6	51.8	51.2	50.1	49.5
	1843	59.0	60.1	60.3	60.2	59.9	59.0	57.1	55.3	54.5	54.8	53.1
	1844	59.4	59.6	59.6	59.7	59.6	59.4	57.0	55.2	53.1	52.4	51.7
	1845	56.4	56.2	56.6	56.6	56.3	55.8	54.5	52.8	51.9	51.6	50.6
	1846	63.3	63.1	63.4	63.1	62.8	62.4	61.8	60.4	59.8	58.9	57.9
	1847	56.8	56.7	56.6	56.4	56.2	55.8	54.7	53.1	52.4	51.8	51.1
Hourly Means	58.32	58.47	58.65	58.60	58.37	57.98	56.45	54.77	53.82	53.27	52.32	
OCTOBER.	1842	46.7	47.1	47.5	47.4	46.6	45.3	43.8	43.1	42.5	41.7	41.0
	1843	43.7	43.1	43.2	43.1	42.5	41.5	40.4	40.1	39.7	39.0	38.5
	1844	45.0	45.2	45.4	45.3	45.1	44.0	42.3	41.2	40.8	40.6	39.9
	1845	47.9	48.2	48.2	48.0	47.6	46.4	44.8	44.1	43.5	43.3	42.9
	1846	45.8	46.3	45.7	45.6	45.2	44.4	43.3	42.3	41.8	41.0	40.4
	1847	45.2	45.4	45.5	45.4	44.8	43.7	43.0	42.4	41.9	41.1	40.4
Hourly Means	45.72	45.88	45.92	45.80	45.30	44.22	43.10	42.20	41.70	41.12	40.52	
NOVEMBER.	1842	34.6	35.3	34.9	34.8	34.1	32.8	32.3	31.6	31.2	31.1	31.1
	1843	33.5	34.0	33.9	34.0	33.3	32.6	32.4	32.0	32.0	31.9	31.2
	1844	36.4	36.9	37.2	37.1	36.3	35.2	34.0	33.2	32.5	32.0	31.7
	1845	37.4	37.5	37.6	37.3	36.7	36.2	35.7	35.3	34.9	34.5	33.9
	1846	41.3	41.5	41.7	41.5	40.9	40.1	39.6	39.3	39.2	39.0	38.5
	1847	39.4	39.7	39.7	39.5	39.1	38.4	37.7	37.4	37.3	37.4	37.2
Hourly Means	37.10	37.48	37.50	37.37	36.73	35.88	35.28	34.80	34.52	34.32	33.93	
DECEMBER.	1842	25.6	26.1	26.5	26.2	25.7	24.7	24.1	23.6	23.3	23.1	22.1
	1843	30.7	31.0	31.0	30.9	30.3	29.8	29.3	28.9	28.5	28.3	28.2
	1844	29.3	29.8	29.9	29.5	28.6	28.2	27.6	27.2	26.8	26.6	26.0
	1845	22.2	22.9	23.5	23.5	22.8	21.6	20.9	20.4	20.1	19.6	19.9
	1846	27.6	28.4	28.8	28.8	28.5	27.9	27.2	27.1	26.7	26.6	26.3
	1847	31.3	31.6	31.8	31.8	31.6	31.1	30.5	30.3	29.8	29.8	29.8
Hourly Means	27.78	28.30	28.58	28.45	27.93	27.22	26.60	26.25	25.87	25.67	25.38	

WET THERMOMETER.

cxi

Solar Time, from July 1842 to June 1848, inclusive—continued.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
55.3	54.4	53.9	53.5	53.0	52.5	52.6	55.0	57.1	58.9	59.9	60.9	62.0	58.68
55.2	54.3	53.7	53.4	53.1	52.4	52.2	55.3	57.8	59.0	60.0	62.7	62.7	59.09
57.5	56.7	56.2	55.8	55.6	55.4	55.2	57.8	59.6	61.1	62.0	62.9	64.3	60.83
57.2	56.8	55.6	55.1	54.7	54.3	54.2	56.6	59.0	60.5	61.8	62.6	63.4	60.13
58.7	58.6	58.3	57.9	56.6	56.9	57.0	60.1	63.1	64.4	65.4	65.6	65.7	62.37
60.2	59.8	59.1	58.6	57.9	57.0	56.9	59.9	62.7	64.6	66.4	67.1	67.6	63.39
57.35	56.77	56.13	55.72	55.15	54.75	54.68	57.45	59.88	61.42	62.58	63.63	64.28	60.75
58.4	57.9	57.5	56.9	56.6	56.4	56.7	56.7	58.6	60.4	62.8	62.9	63.9	60.99
58.3	58.0	57.7	57.1	56.5	56.0	55.6	56.6	59.0	61.4	63.4	64.6	65.7	61.90
57.2	56.7	56.3	56.0	55.6	55.3	55.2	56.1	58.0	59.6	61.1	62.7	63.6	60.08
59.1	58.9	58.2	58.1	57.5	57.3	57.0	58.4	61.8	63.9	65.3	65.9	66.8	62.71
60.5	59.7	58.8	58.2	57.7	57.6	57.3	58.5	61.3	63.7	65.2	66.8	67.5	63.03
57.5	57.2	56.5	55.9	55.3	54.9	54.5	56.1	59.2	61.8	63.2	64.1	64.8	60.55
58.50	58.07	57.50	57.03	56.53	56.25	56.05	57.07	59.65	61.80	63.50	64.50	65.38	61.54
49.1	49.8	49.1	48.7	48.6	48.0	46.9	47.2	49.2	51.0	52.4	53.3	54.5	51.50
52.5	52.2	52.0	51.6	51.3	51.2	51.8	51.5	53.1	54.2	55.5	57.6	58.0	55.24
50.9	50.6	49.9	49.1	48.8	48.1	47.7	49.5	52.0	54.5	56.3	57.3	58.7	54.17
50.4	49.6	49.0	48.3	48.2	47.4	46.8	47.7	50.6	52.4	54.3	55.4	56.2	52.32
57.1	57.2	56.6	56.2	55.2	54.7	54.4	54.8	57.1	59.2	60.8	62.1	62.9	59.40
50.6	50.1	49.6	49.1	48.8	48.5	48.2	48.8	50.8	53.0	54.5	55.9	56.2	52.74
51.77	51.58	51.03	50.50	50.15	49.65	49.30	49.99	52.13	54.05	55.63	56.93	57.75	54.23
40.5	40.0	39.6	39.2	39.0	38.7	38.3	38.5	39.5	41.7	43.6	45.0	46.0	42.59
37.9	37.1	37.0	36.7	36.6	36.4	36.2	37.0	37.4	39.1	40.5	41.6	42.2	39.60
39.0	39.4	37.3	37.6	37.4	37.1	37.0	37.1	37.9	40.1	42.0	43.4	44.1	41.01
42.8	41.1	40.6	40.4	40.2	40.2	40.1	40.3	40.9	42.9	45.1	46.3	47.2	43.92
40.0	40.9	40.5	40.1	39.9	39.7	39.5	39.6	40.1	41.8	43.6	44.7	45.7	42.41
39.8	39.5	39.0	38.6	38.5	38.3	38.5	38.2	39.3	41.1	43.1	44.1	44.9	41.67
40.00	39.67	39.00	38.77	38.60	38.40	38.27	38.45	39.18	41.12	42.98	44.18	45.02	41.88
30.7	30.2	30.0	29.9	29.4	29.4	30.0	29.5	29.7	30.7	31.9	33.3	34.1	31.78
30.9	30.3	29.9	29.6	29.6	29.4	29.2	29.3	29.6	30.2	31.1	32.1	33.0	31.46
31.3	31.4	31.2	31.1	30.5	30.3	30.6	30.4	30.6	31.6	33.1	34.8	35.5	33.12
33.8	32.6	32.1	32.1	32.1	31.9	31.7	32.7	32.8	33.5	34.8	35.7	37.1	34.58
38.2	37.5	37.2	36.9	36.7	36.7	36.6	37.7	37.5	38.1	39.2	40.3	41.0	39.01
36.8	36.5	36.2	35.9	35.7	35.3	35.2	35.8	35.6	36.6	37.8	38.7	39.2	37.42
33.62	33.08	32.77	32.58	32.33	32.17	32.22	32.57	32.63	33.45	34.65	35.82	36.65	34.56
22.1	22.1	21.7	21.0	21.1	20.8	21.2	21.2	20.4	21.5	22.4	24.0	25.0	23.15
27.7	28.4	28.1	28.1	28.1	27.8	27.6	27.7	27.8	28.1	28.5	29.4	30.1	28.93
26.1	26.2	25.1	25.1	24.9	25.1	25.4	25.3	25.2	25.8	26.8	27.8	28.7	26.96
19.7	19.2	18.4	17.5	17.5	17.6	17.4	16.9	16.9	17.6	19.2	20.7	21.6	19.90
26.1	25.7	25.2	24.7	24.8	24.5	24.3	23.3	23.0	23.0	24.3	25.7	26.9	26.06
29.9	29.2	29.0	28.6	28.4	28.5	28.4	27.8	27.6	27.7	28.6	29.7	30.7	29.73
25.27	25.13	24.55	24.17	24.13	24.05	24.05	23.70	23.48	23.95	24.97	26.22	27.17	25.79



TABLE LVI.—*Monthly Means of the Elastic Force of the Aqueous Vapour*

Mean Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JANUARY.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
	1843	·148	·152	·149	·144	·140	·138	·140	·135	·136	·135	·136
	1844	·098	·098	·102	·104	·104	·100	·098	·097	·095	·095	·093
	1845	·132	·130	·135	·129	·126	·125	·124	·119	·112	·113	·110
	1846	·127	·130	·134	·135	·134	·133	·129	·124	·126	·126	·123
	1847	·100	·101	·098	·097	·098	·098	·097	·096	·096	·098	·098
1848	·150	·151	·158	·158	·151	·145	·140	·139	·141	·138	·137	
Hourly Means	·126	·127	·129	·128	·125	·123	·121	·118	·118	·117	·116	
FEBRUARY.	1843	·065	·065	·066	·066	·067	·063	·057	·053	·052	·048	·046
	1844	·132	·135	·134	·139	·138	·134	·128	·128	·125	·120	·118
	1845	·129	·130	·130	·129	·126	·120	·117	·115	·112	·112	·110
	1846	·121	·119	·118	·118	·121	·119	·112	·109	·105	·107	·105
	1847	·108	·109	·115	·113	·111	·109	·107	·103	·099	·098	·098
	1848	·128	·134	·136	·138	·140	·137	·136	·134	·133	·135	·133
Hourly Means	·114	·115	·117	·117	·117	·114	·109	·107	·104	·103	·102	
MARCH.	1843	·096	·104	·103	·103	·100	·098	·092	·090	·087	·085	·082
	1844	·144	·155	·160	·157	·162	·156	·156	·149	·145	·145	·143
	1845	·153	·158	·156	·156	·150	·155	·146	·145	·146	·152	·145
	1846	·168	·167	·174	·173	·164	·173	·164	·157	·158	·149	·149
	1847	·114	·114	·114	·114	·116	·117	·114	·107	·104	·104	·101
	1848	·143	·152	·152	·152	·149	·150	·144	·137	·136	·137	·138
Hourly Means	·136	·142	·143	·143	·140	·141	·136	·131	·129	·129	·126	
APRIL.	1843	·205	·207	·205	·212	·207	·206	·204	·197	·191	·187	·182
	1844	·275	·280	·281	·282	·275	·289	·256	·249	·237	·237	·231
	1845	·201	·205	·200	·197	·202	·195	·193	·191	·194	·193	·183
	1846	·218	·216	·218	·210	·213	·214	·214	·208	·206	·206	·202
	1847 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	1848	·198	·194	·200	·201	·198	·195	·193	·192	·187	·181	·180
Hourly Means	·219	·220	·221	·220	·219	·220	·212	·207	·203	·201	·196	
MAY.	1843	·262	·266	·265	·258	·252	·253	·235	·230	·229	·224	·218
	1844	·385	·362	·344	·331	·337	·331	·322	·310	·298	·292	·287
	1845	·292	·288	·287	·284	·286	·277	·266	·254	·244	·240	·236
	1846	·371	·369	·370	·362	·364	·360	·360	·338	·313	·316	·313
	1847	·345	·346	·348	·346	·340	·353	·341	·328	·322	·314	·307
	1848	·358	·358	·355	·345	·345	·349	·337	·327	·314	·304	·298
Hourly Means	·336	·331	·328	·321	·321	·321	·310	·298	·287	·282	·276	
JUNE.	1843	·444	·442	·446	·446	·433	·425	·419	·402	·387	·378	·365
	1844	·431	·447	·439	·433	·431	·442	·423	·400	·376	·365	·352
	1845	·448	·435	·439	·438	·450	·438	·416	·414	·396	·388	·385
	1846	·459	·458	·458	·457	·457	·453	·455	·440	·409	·398	·391
	1847	·434	·441	·428	·436	·424	·427	·401	·390	·375	·357	·350
	1848	·460	·454	·446	·456	·450	·433	·430	·417	·412	·393	·392
Hourly Means	·446	·446	·443	·444	·441	·436	·424	·410	·393	·380	·373	

<sup>a</sup>The record of the Wet Thermometer, for the month of April 1847, has been cancelled.

ELASTIC FORCE OF THE AQUEOUS VAPOUR.

exiii

at every Hour from July 1842 to June 1848, inclusive.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours
In. ·136	In. ·124	In. ·122	In. ·125	In. ·124	In. ·124	In. ·126	In. ·129	In. ·126	In. ·129	In. ·134	In. ·136	In. ·141	In. ·135
·093	·092	·089	·089	·088	·086	·084	·086	·084	·088	·099	·091	·096	·094
·109	·113	·112	·112	·110	·110	·107	·117	·115	·116	·122	·128	·130	·119
·120	·122	·118	·116	·114	·111	·112	·113	·114	·115	·119	·123	·125	·123
·094	·096	·096	·097	·096	·094	·092	·094	·096	·094	·095	·098	·098	·098
·137	·132	·130	·130	·131	·131	·129	·142	·141	·138	·141	·143	·147	·141
·115	·113	·111	·112	·110	·109	·108	·114	·113	·113	·118	·120	·123	·118
·045	·046	·044	·052	·041	·039	·053	·039	·040	·040	·049	·051	·055	·052
·116	·125	·126	·123	·122	·119	·119	·112	·112	·113	·118	·124	·126	·124
·113	·118	·116	·118	·115	·110	·113	·099	·099	·108	·117	·113	·119	·116
·103	·098	·098	·094	·090	·089	·087	·096	·097	·103	·106	·113	·114	·106
·095	·095	·093	·092	·093	·093	·091	·090	·090	·092	·096	·103	·104	·100
·132	·125	·124	·119	·120	·118	·117	·114	·114	·118	·126	·127	·126	·129
·101	·101	·100	·100	·097	·095	·097	·092	·092	·096	·102	·105	·107	·104
·079	·081	·081	·076	·076	·077	·085	·071	·072	·080	·087	·091	·093	·087
·142	·145	·141	·135	·136	·132	·131	·134	·135	·139	·130	·149	·149	·145
·145	·157	·154	·156	·153	·152	·150	·143	·144	·156	·154	·157	·160	·152
·143	·147	·148	·142	·140	·143	·142	·137	·139	·151	·157	·163	·164	·155
·100	·103	·101	·101	·096	·097	·092	·093	·094	·100	·102	·107	·107	·105
·135	·133	·127	·127	·127	·124	·124	·118	·121	·127	·128	·131	·133	·135
·124	·128	·125	·123	·121	·121	·121	·116	·117	126	·126	·133	·136	·130
·181	·182	·180	·176	·176	·175	·166	·156	·165	·181	·187	·200	·203	·189
·228	·222	·221	·217	·216	·218	·215	·214	·226	·235	·252	·262	·269	·248
·184	·178	·175	·173	·174	·173	·173	·175	·177	·186	·193	·192	·199	·188
·202	·202	·203	·200	·198	·194	·187	·183	·197	·197	·211	·216	·219	·206
—	—	—	—	—	—	—	—	—	—	—	—	—	—
·180	·178	·174	·174	·168	·169	·166	·166	·175	·173	·184	·187	·192	·184
·195	·192	·191	·188	·186	·186	·181	·179	·188	·194	·205	·211	·216	·203
·217	·217	·217	·220	·215	·214	·217	·217	·232	·247	·259	·254	·259	·236
·282	·280	·273	·267	·266	·266	·269	·278	·293	·309	·327	·340	·358	·309
·223	·225	·220	·220	·214	·213	·213	·230	·240	·238	·253	·268	·282	·250
·309	·291	·287	·288	·290	·286	·289	·302	·317	·328	·345	·358	·358	·328
·301	·289	·286	·282	·282	·279	·282	·294	·307	·320	·332	·337	·344	·318
·294	·289	·283	·279	·278	·271	·274	·298	·307	·321	·334	·346	·356	·317
·271	·265	·261	·259	·257	·255	·257	·270	·283	·294	·308	·317	·326	·293
·346	·351	·346	·342	·335	·331	·342	·347	·371	·385	·397	·415	·430	·389
·349	·351	·346	·338	·337	·336	·335	·349	·372	·389	·385	·398	·423	·385
·380	·382	·363	·355	·352	·345	·341	·370	·376	·389	·410	·438	·453	·400
·384	·383	·374	·368	·360	·356	·363	·392	·412	·427	·447	·461	·462	·418
·348	·346	·336	·336	·329	·312	·315	·349	·371	·388	·409	·418	·428	·381
·389	·390	·388	·376	·369	·367	·368	·398	·416	·441	·458	·464	·468	·418
·366	·367	·359	·352	·347	·341	·344	·367	·386	·403	·418	·432	·444	·398

ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LVI.—*Monthly Means of the Elastic Force of the Aqueous Vapour*

Mean Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JULY.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
	1842	·468	·478	·478	·472	·467	·469	·459	·423	·412	·404	·405
	1843	·500	·502	·490	·486	·497	·492	·481	·459	·427	·414	·397
	1844	·509	·519	·503	·520	·522	·519	·524	·511	·466	·452	·438
	1845	·483	·483	·484	·478	·479	·473	·464	·464	·451	·539	·426
	1846	·528	·523	·534	·522	·521	·506	·516	·509	·488	·471	·459
1847	·580	·591	·582	·576	·567	·557	·557	·540	·523	·507	·490	
Hourly Means.	·511	·516	·512	·509	·509	·503	·500	·484	·461	·448	·436	
AUGUST.	1842	·515	·531	·538	·528	·535	·525	·511	·487	·472	·461	·456
	1843	·562	·586	·575	·572	·567	·567	·559	·521	·494	·470	·457
	1844	·520	·521	·531	·541	·524	·510	·496	·469	·464	·450	·439
	1845	·562	·566	·568	·556	·558	·566	·553	·516	·497	·477	·466
	1846	·588	·581	·571	·563	·548	·545	·544	·514	·506	·494	·484
	1847	·531	·528	·522	·520	·521	·515	·517	·499	·480	·462	·451
Hourly Means.	·546	·552	·551	·547	·542	·538	·530	·501	·485	·469	·459	
SEPTEMBER.	1842	·356	·349	·351	·349	·347	·357	·349	·338	·334	·322	·322
	1843	·431	·450	·450	·445	·439	·426	·408	·390	·384	·402	·370
	1844	·431	·422	·419	·421	·417	·417	·396	·388	·357	·352	·346
	1845	·388	·375	·384	·383	·380	·384	·369	·354	·345	·349	·340
	1846	·503	·500	·502	·496	·492	·490	·493	·473	·468	·456	·439
	1847	·403	·402	·399	·395	·393	·394	·386	·370	·363	·355	·348
Hourly Means.	·419	·416	·417	·415	·411	·411	·400	·386	·375	·373	·361	
OCTOBER.	1842	·266	·264	·266	·266	·259	·249	·245	·244	·241	·237	·235
	1843	·249	·233	·230	·232	·228	·226	·223	·230	·226	·218	·216
	1844	·253	·251	·249	·248	·249	·249	·239	·228	·229	·229	·226
	1845	·284	·286	·286	·286	·285	·278	·266	·263	·259	·259	·255
	1846	·263	·266	·255	·257	·251	·251	·248	·240	·234	·230	·228
	1847	·249	·253	·250	·249	·247	·241	·241	·239	·237	·234	·227
Hourly Means.	·261	·259	·256	·256	·253	·249	·244	·241	·238	·234	·231	
NOVEMBER.	1842	·176	·184	·176	·176	·176	·167	·169	·166	·163	·163	·162
	1843	·162	·169	·167	·169	·164	·163	·165	·166	·167	·167	·161
	1844	·185	·187	·189	·188	·185	·186	·180	·172	·168	·166	·164
	1845	·189	·189	·188	·188	·189	·185	·184	·184	·180	·178	·176
	1846	·225	·224	·238	·226	·221	·220	·216	·215	·215	·215	·210
	1847	·218	·221	·221	·217	·214	·215	·210	·208	·207	·208	·206
Hourly Means.	·193	·196	·196	·194	·192	·189	·187	·185	·183	·182	180	
DECEMBER.	1842	·117	·120	·121	·119	·119	·113	·110	·110	·109	·107	·100
	1843	·149	·150	·150	·151	·150	·151	·145	·145	·141	·140	·140
	1844	·140	·143	·143	·143	·136	·137	·137	·132	·132	·131	·128
	1845	·103	·106	·111	·111	·106	·102	·100	·097	·097	·091	·093
	1846	·128	·132	·135	·135	·133	·133	·131	·131	·127	·128	·126
	1847	·162	·164	·165	·166	·165	·165	·163	·162	·157	·158	·159
Hourly Means.	·133	·136	·137	·138	·135	·134	·131	·129	·127	·126	·124	

ELASTIC FORCE OF THE AQUEOUS VAPOUR.

cxv

at every Hour from July 1842 to June 1848, inclusive.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·390	·379	·380	·374	·369	·363	·364	·398	·416	·433	·441	·450	·462	·423
·390	·381	·376	·372	·370	·363	·363	·404	·433	·443	·452	·507	·489	·437
·431	·426	·418	·413	·413	·412	·409	·446	·443	·479	·484	·494	·511	·469
·418	·414	·402	·399	·394	·390	·386	·412	·436	·447	·454	·462	·464	·442
·449	·453	·446	·442	·417	·428	·431	·480	·523	·533	·540	·528	·524	·490
·481	·463	·465	·460	·449	·432	·431	·476	·516	·538	·567	·570	·575	·521
·426	·419	·415	·410	·402	·398	·397	·436	·461	·479	·490	·502	·504	·464
·449	·442	·437	·427	·424	·422	·425	·430	·454	·475	·519	·497	·510	·478
·449	·419	·411	·438	·429	·423	·419	·433	·462	·491	·521	·534	·550	·499
·431	·428	·424	·420	·417	·412	·411	·424	·450	·467	·486	·510	·517	·469
·456	·458	·449	·451	·444	·444	·436	·456	·504	·531	·558	·547	·558	·507
·476	·467	·452	·444	·437	·438	·431	·450	·487	·520	·537	·569	·580	·509
·441	·437	·427	·420	·412	·409	·401	·421	·470	·499	·512	·518	·534	·477
·450	·447	·439	·433	·427	·425	·420	·436	·471	·497	·522	·529	·541	·490
·316	·327	·317	·315	·313	·305	·290	·297	·325	·336	·343	·345	·358	·332
·363	·357	·355	·351	·346	·345	·368	·356	·372	·379	·390	·429	·421	·393
·338	·337	·330	·317	·316	·310	·310	·331	·362	·385	·403	·406	·426	·372
·339	·328	·324	·317	·317	·310	·303	·313	·344	·358	·375	·383	·388	·352
·422	·430	·420	·415	·400	·396	·393	·400	·430	·456	·473	·494	·498	·456
·346	·342	·335	·329	·322	·324	·319	·326	·346	·367	·381	·396	·394	·364
·354	·354	·347	·341	·336	·332	·330	·337	·363	·380	·394	·409	·414	·378
·234	·230	·228	·225	·224	·222	·217	·219	·230	·245	·253	·259	·264	·243
·212	·205	·205	·203	·201	·203	·200	·209	·209	·227	·226	·227	·226	·219
·220	·230	·202	·206	·206	·204	·204	·205	·212	·226	·241	·249	·247	·229
·254	·239	·233	·234	·233	·236	·233	·234	·239	·252	·265	·269	·275	·258
·226	·235	·235	·230	·229	·227	·226	·227	·230	·239	·242	·256	·264	·241
·226	·226	·220	·218	·216	·214	·217	·214	·225	·237	·248	·248	·253	·235
·222	·228	·221	·219	·218	·218	·216	·218	·224	·238	·246	·251	·255	·238
·158	·156	·154	·155	·152	·152	·155	·154	·156	·158	·166	·172	·174	·164
·159	·158	·156	·154	·147	·153	·152	·152	·153	·154	·154	·157	·160	·160
·162	·163	·162	·162	·159	·158	·158	·157	·161	·165	·168	·178	·185	·171
·176	·167	·165	·165	·165	·165	·164	·169	·169	·173	·178	·181	·191	·177
·207	·205	·202	·200	·199	·199	·200	·210	·208	·210	·220	·225	·226	·214
·202	·200	·200	·201	·200	·198	·196	·202	·200	·206	·213	·219	·220	·208
·177	·175	·173	·173	·170	·171	·171	·174	·175	·178	·183	·189	·193	·182
·099	·106	·102	·096	·100	·096	·099	·098	·094	·105	·107	·112	·117	·107
·138	·142	·142	·141	·141	·138	·139	·140	·140	·140	·142	·143	·144	·143
·130	·132	·126	·125	·124	·126	·127	·128	·127	·129	·133	·134	·139	·133
·091	·090	·087	·083	·086	·087	·084	·086	·084	·089	·095	·101	·101	·095
·125	·124	·124	·121	·123	·120	·120	·114	·113	·110	·117	·123	·126	·125
·160	·158	·156	·143	·148	·151	·149	·147	·146	·146	·149	·155	·162	·157
·124	·125	·123	·118	·120	·120	·120	·119	·117	·120	·124	·128	·131	·127

TABLE LVII.—*Mean Monthly Degree of the Humidity of the Air at*

Mean Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JANUARY.	1843	84	85	83	80	80	82	85	84	85	84	86
	1844	80	79	80	81	81	82	82	83	83	83	82
	1845	81	82	82	79	79	81	83	81	78	80	80
	1846	80	80	81	81	81	82	82	82	84	85	85
	1847	70	70	68	69	71	74	76	78	79	80	81
	1848	86	86	89	88	86	87	88	89	91	92	93
Hourly Means.	80	80	81	80	80	81	83	83	83	84	84	
FEBRUARY.	1843	60	57	58	58	58	57	55	54	55	55	54
	1844	78	76	73	76	78	78	81	84	86	84	86
	1845	78	79	78	78	77	76	77	76	77	77	76
	1846	75	73	72	72	76	78	78	78	79	82	81
	1847	74	72	75	74	74	76	78	77	78	79	81
	1848	73	73	73	74	77	79	85	88	89	93	93
Hourly Means.	73	72	71	72	73	74	76	76	77	78	79	
MARCH.	1843	66	69	67	67	66	65	68	72	72	73	74
	1844	69	75	75	74	78	76	79	80	81	84	84
	1845	62	63	60	63	61	65	65	67	70	74	74
	1846	73	72	74	74	72	79	78	79	84	83	84
	1847	64	64	62	62	66	68	70	70	70	73	74
	1848	74	76	74	74	74	78	79	81	85	88	89
Hourly Means.	68	70	69	69	69	72	73	75	77	79	80	
APRIL.	1843	69	67	64	66	64	65	70	75	75	77	77
	1844	69	55	64	62	64	66	64	71	75	80	82
	1845	64	64	62	60	64	62	66	71	74	77	74
	1846	63	61	60	58	60	63	67	72	75	79	79
	1847 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	1848	64	61	64	64	64	65	66	72	73	73	74
Hourly Means.	66	64	63	62	63	64	67	72	74	77	77	
MAY.	1843	64	61	60	57	54	55	56	62	68	73	73
	1844	76	67	64	63	63	61	64	70	74	76	79
	1845	65	63	62	61	61	60	61	64	69	75	77
	1846	71	69	68	66	67	68	70	72	71	80	80
	1847	65	64	63	64	64	68	69	74	76	79	79
	1848	68	67	67	66	66	69	72	75	78	79	81
Hourly Means.	68	65	64	63	63	64	65	69	73	77	78	
JUNE.	1843	78	74	72	71	67	68	69	73	78	83	85
	1844	71	71	67	64	62	63	63	69	75	79	81
	1845	70	66	67	67	67	65	66	72	77	81	84
	1846	66	64	64	64	63	63	67	71	74	78	79
	1847	74	74	72	73	72	76	72	77	79	81	82
	1848	64	63	61	60	60	62	65	68	74	78	81
Hourly Means.	71	69	67	67	65	66	67	72	76	80	82	

<sup>a</sup> Observations of the Wet Thermometer in the month of April 1847 have been cancelled.

HUMIDITY OF THE AIR.

cxvii

every Hour from July 1842 to June 1848, inclusive.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours
87	83	83	84	85	84	86	88	86	88	88	86	83	85
83	85	86	86	86	85	82	83	82	85	97	82	82	83
80	84	83	83	83	83	82	83	83	83	86	85	83	82
84	87	86	87	86	86	87	86	86	86	86	83	81	84
78	79	80	80	80	78	78	77	79	78	75	72	70	76
94	95	94	94	94	94	94	99	99	96	93	90	88	92
84	86	85	86	86	85	85	86	86	86	88	83	81	84
54	56	54	67	52	49	39	52	53	51	57	54	54	55
85	86	86	85	86	84	85	85	86	85	84	82	78	82
77	79	79	81	82	81	84	77	78	82	82	75	76	78
83	83	87	85	86	87	87	88	86	87	80	79	75	81
82	84	82	83	83	84	84	82	85	82	80	78	74	79
95	92	94	92	93	93	92	91	91	91	85	79	74	86
79	80	80	82	80	80	78	79	80	80	78	74	72	77
74	76	78	74	75	77	86	73	72	70	74	70	67	72
84	86	86	84	86	85	85	86	86	85	71	80	78	81
75	81	81	84	83	84	84	82	80	78	72	68	66	73
82	84	85	82	82	86	85	83	81	81	76	74	72	79
75	76	76	77	76	78	76	77	76	73	69	67	63	71
90	92	89	90	90	89	90	91	89	86	79	77	73	83
80	83	82	82	82	83	84	82	81	79	74	73	70	76
79	79	80	79	81	82	79	75	74	75	74	74	72	74
81	79	81	81	83	85	85	87	83	78	76	74	72	75
75	75	76	78	79	79	79	77	74	71	68	65	65	71
80	81	81	82	84	83	80	79	75	70	71	68	66	72
—	—	—	—	—	—	—	—	—	—	—	—	—	—
78	79	79	80	80	82	83	81	77	68	68	65	64	72
79	79	79	80	81	82	81	80	77	72	71	69	68	73
75	75	76	80	80	81	81	78	73	70	73	66	64	69
80	84	84	84	86	87	88	84	81	80	78	76	75	76
75	76	78	81	81	82	82	79	75	68	66	65	66	70
81	81	81	85	86	87	87	83	78	75	73	72	71	76
81	81	82	84	86	87	88	88	80	75	72	68	67	75
81	84	87	87	90	90	91	88	81	77	73	71	70	77
79	80	81	84	85	86	86	83	78	74	73	70	69	74
84	86	88	89	90	90	93	89	86	86	82	80	79	81
83	86	87	86	87	87	87	86	83	80	71	73	72	76
86	85	85	86	88	89	88	85	77	75	74	74	73	77
79	80	80	80	81	81	82	81	76	73	72	71	68	73
84	85	85	86	86	82	81	85	83	79	79	76	75	79
83	87	89	89	90	90	89	87	81	76	74	71	68	75
83	85	86	86	87	87	87	86	81	78	75	74	73	77

TABLE LVII.—*Mean Monthly Degree of the Humidity of the Air at*

Mean Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	
JULY.	1842	64	62	58	57	57	58	58	62	71	76	80
	1843	69	61	61	60	61	60	61	66	73	77	79
	1844	67	66	63	64	64	63	66	73	77	81	83
	1845	60	58	57	55	57	57	60	67	75	78	78
	1846	63	63	63	60	60	59	65	72	76	80	80
	1847	68	69	68	67	66	68	72	77	82	86	86
Hourly Means.	65	63	62	61	61	61	64	69	76	80	81	
AUGUST.	1842	70	70	69	66	67	66	68	75	81	83	84
	1843	73	71	67	67	65	67	69	77	83	83	84
	1844	74	72	72	72	70	67	72	75	84	85	86
	1845	68	67	65	64	65	67	72	75	79	81	83
	1846	70	68	67	65	64	66	70	73	78	81	81
	1847	72	71	69	69	70	72	76	82	86	88	88
Hourly Means.	71	70	68	67	67	68	71	76	82	84	84	
SEPTEMBER.	1842	67	64	63	62	62	65	72	78	81	82	85
	1843	75	74	73	71	72	73	77	81	83	90	85
	1844	71	67	66	66	65	66	73	81	80	81	83
	1845	73	70	70	70	70	76	76	80	81	86	87
	1846	73	74	72	72	73	76	79	82	83	85	85
	1847	77	77	76	76	77	79	82	86	88	87	88
Hourly Means.	73	71	70	70	70	72	77	81	83	85	86	
OCTOBER.	1842	72	69	69	69	69	71	77	80	83	84	87
	1843	79	73	73	73	74	78	82	88	88	87	88
	1844	74	73	71	70	72	77	82	81	84	85	87
	1845	75	75	75	76	77	80	83	86	88	88	88
	1846	76	74	72	73	73	77	82	82	82	83	85
	1847	72	73	70	71	71	75	79	82	83	86	85
Hourly Means.	75	73	72	72	73	76	81	83	85	86	87	
NOVEMBER.	1842	81	83	80	80	83	84	89	88	89	90	89
	1843	77	79	78	79	80	81	84	86	87	88	87
	1844	79	78	78	78	79	85	87	86	86	87	87
	1845	76	75	74	76	80	80	81	83	82	83	84
	1846	79	77	79	78	78	82	82	83	84	85	84
	1847	84	84	84	83	84	88	89	90	89	90	89
Hourly Means.	79	79	79	79	81	83	85	86	86	87	87	
DECEMBER.	1842	76	75	76	74	77	76	76	78	78	77	74
	1843	79	79	79	80	82	85	83	84	83	84	84
	1844	79	79	79	80	78	82	84	81	82	85	85
	1845	76	77	79	79	78	78	80	79	79	76	77
	1846	77	77	76	76	77	79	80	80	80	81	81
	1847	87	87	87	88	89	92	93	94	91	93	94
Hourly Means.	79	79	79	79	80	82	83	83	82	83	83	

HUMIDITY OF THE AIR.

every Hour from July 1842 to June 1848, inclusive.

11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means of the 24 Hours.
81	82	84	85	86	87	87	87	80	76	72	70	67	73
82	84	85	85	86	88	89	87	83	79	76	79	72	75
84	87	88	88	90	91	91	88	82	78	76	73	70	77
80	82	84	86	87	88	86	82	77	71	65	64	60	71
83	86	85	86	84	88	88	87	83	76	73	66	65	75
86	82	88	88	89	88	88	87	83	78	74	71	69	78
83	84	86	86	87	88	88	86	81	76	73	71	67	75
85	86	86	86	87	88	87	90	86	82	83	73	72	79
86	88	88	91	91	92	92	92	88	82	79	75	73	80
87	88	90	91	92	91	92	92	88	84	82	80	77	82
83	88	87	88	90	91	91	88	85	80	80	72	69	78
82	84	84	84	85	86	86	85	81	76	75	73	71	76
88	89	90	91	91	92	92	91	90	82	79	75	74	82
85	87	88	89	89	90	90	90	86	81	80	75	73	80
85	86	85	86	85	85	85	87	88	83	77	73	71	77
87	86	86	86	86	86	94	90	87	83	79	81	76	82
85	86	86	85	86	88	89	90	89	84	81	76	74	79
88	88	89	90	91	92	92	91	89	85	81	76	76	82
83	86	86	86	87	88	88	88	86	83	79	77	74	81
90	91	91	91	93	92	92	92	91	86	82	80	78	85
86	87	87	87	88	89	90	90	88	84	80	77	75	81
88	89	90	91	92	92	91	91	92	90	82	78	75	82
89	89	89	90	89	91	91	92	91	93	83	78	75	84
88	93	86	88	88	88	89	89	89	86	84	82	76	83
88	89	88	89	90	92	91	90	90	86	80	77	75	84
86	87	89	88	89	88	89	89	88	85	83	78	77	82
88	89	89	89	88	88	89	89	90	88	83	77	75	82
88	89	89	89	89	90	90	90	90	88	83	78	75	83
88	89	88	89	89	89	89	89	91	88	86	85	82	87
88	90	90	90	89	90	90	90	89	87	81	78	78	85
88	88	89	89	90	90	87	88	91	89	84	81	82	85
86	85	84	86	86	87	86	86	86	86	81	79	79	82
84	87	86	86	86	86	88	89	89	87	87	84	81	84
88	89	90	93	94	94	93	94	95	93	91	89	87	89
87	88	88	89	89	89	89	89	90	88	85	83	82	85
73	79	77	76	79	77	78	77	76	81	80	78	77	77
84	86	87	85	87	84	87	87	87	85	84	81	78	83
85	87	86	86	86	87	86	87	86	86	84	81	80	83
77	78	77	76	81	81	78	82	81	83	83	82	77	79
80	82	83	84	85	85	84	83	83	81	82	81	78	81
94	96	95	84	92	95	94	95	95	94	91	90	91	92
82	85	84	82	85	85	84	85	85	85	84	82	80	82



ADJUSTMENTS, ABSTRACTS, AND COMMENTS.

TABLE LVIII.

Mean Temperature of the Air for the period from July 1842 to June 1848 inclusive.

Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
January . . .	27.83	28.33	28.60	28.57	28.05	27.05	26.23	25.70	25.38	25.18	24.80	24.48
February . . .	27.07	27.93	28.33	28.32	27.77	26.57	25.12	24.13	23.28	22.63	22.08	21.57
March . . .	34.00	34.65	35.22	35.02	34.55	33.80	32.12	30.65	29.68	28.68	28.03	27.38
April . . .	47.53	48.47	48.85	48.92	48.53	47.80	46.00	43.47	41.88	40.80	40.03	39.53
May . . .	58.80	59.72	60.07	60.13	60.08	59.70	57.95	55.08	52.37	50.62	49.65	48.73
June . . .	66.55	67.28	67.70	68.08	68.32	67.72	66.42	63.68	60.38	58.22	56.88	55.92
July . . .	72.85	73.77	74.62	74.82	74.83	74.37	72.93	69.45	65.25	62.88	61.65	60.47
August . . .	72.30	73.07	73.65	74.00	73.85	73.30	71.40	67.42	64.50	62.92	61.90	61.10
September . . .	63.52	64.12	64.52	64.55	64.33	63.37	60.70	58.00	56.72	55.68	54.62	53.98
October . . .	49.50	49.93	50.28	50.05	49.32	47.57	45.52	44.42	43.68	42.92	42.17	41.50
November . . .	39.57	39.97	40.05	39.88	38.98	37.77	36.95	36.38	36.07	35.78	35.43	35.08
December . . .	29.93	30.65	30.80	30.55	29.90	28.95	28.25	27.92	27.53	27.28	26.98	26.87
Hourly Means	49.12	49.82	50.22	50.24	49.88	49.00	47.47	45.53	43.89	42.82	42.02	41.38

	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Monthly Means.
January . . .	23.80	23.33	23.25	23.10	23.00	22.82	23.55	23.45	23.68	24.65	25.88	27.05	25.32
February . . .	21.45	21.07	20.73	20.30	20.00	19.65	19.08	18.95	19.97	22.27	24.28	25.87	23.27
March . . .	27.33	26.85	26.47	26.18	25.80	25.28	25.00	25.87	27.85	30.02	31.75	32.98	29.80
April . . .	39.37	38.62	37.95	37.75	37.32	36.95	37.08	39.37	41.62	43.60	45.12	46.50	42.63
May . . .	47.88	47.02	46.18	45.47	45.00	45.05	47.50	50.48	52.70	55.02	56.72	57.85	52.91
June . . .	55.37	54.68	53.98	53.20	52.63	52.82	55.47	58.28	60.62	62.50	64.17	65.45	60.68
July . . .	59.45	58.58	58.02	57.30	56.67	56.62	59.83	63.50	66.10	68.30	70.00	71.55	65.99
August . . .	60.30	59.65	58.97	58.30	57.92	57.73	59.18	62.15	65.42	67.92	69.90	71.35	65.76
September . . .	53.63	53.02	52.43	51.97	51.38	50.75	51.43	53.98	56.73	59.15	61.12	62.55	57.59
October . . .	40.95	40.35	40.03	39.87	39.57	39.40	39.62	40.37	42.62	45.30	47.23	48.60	44.20
November . . .	34.42	34.13	33.85	33.53	33.37	33.48	33.75	33.75	34.80	36.33	37.77	38.78	36.24
December . . .	26.53	25.95	25.58	25.45	25.42	25.40	24.98	24.82	25.25	26.43	27.88	29.12	27.44
Hourly Means	40.87	40.27	39.79	39.37	39.01	38.83	39.71	41.25	43.11	45.12	46.82	48.14	44.32

TABLE LIX.

Mean Height of the Barometer for the period from July 1842 to June 1848 inclusive.

Barometer at 32° = 29 English inches + the decimals in the Table.

Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
January . . .	.610	.596	.593	.599	.604	.610	.618	.622	.623	.623	.621	.619
February . . .	.623	.606	.596	.596	.596	.600	.607	.614	.616	.618	.617	.614
March . . .	.630	.616	.604	.600	.600	.605	.609	.615	.622	.627	.626	.626
April . . .	.674	.666	.654	.644	.640	.642	.642	.643	.652	.653	.650	.648
May . . .	.573	.563	.555	.546	.540	.538	.540	.544	.553	.562	.565	.566
June . . .	.590	.580	.572	.565	.558	.553	.553	.556	.560	.571	.573	.575
July . . .	.602	.593	.584	.576	.570	.564	.567	.569	.574	.586	.588	.590
August . . .	.654	.646	.635	.624	.620	.617	.618	.619	.628	.633	.633	.635
September . . .	.659	.649	.636	.628	.625	.625	.626	.632	.641	.642	.643	.642
October . . .	.666	.653	.645	.643	.643	.647	.652	.656	.660	.663	.665	.663
November . . .	.626	.615	.608	.610	.612	.616	.621	.622	.622	.622	.621	.618
December . . .	.640	.628	.621	.625	.632	.634	.640	.644	.643	.641	.641	.638
Hourly Means	.629	.618	.608	.605	.603	.604	.608	.611	.616	.620	.620	.620

TABLE LIX.—*continued.*

*Mean Height of the Barometer for the period from July 1842 to June 1848 inclusive.*

Barometer at 32° = 29 English inches + the decimals in the Table.

Toronto Astron. Time. }	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Monthly Means.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
January . . .	·618	·620	·625	·623	·617	·613	·617	·622	·634	·641	·643	·631	·618
February . . .	·602	·602	·604	·604	·605	·607	·614	·625	·638	·644	·643	·639	·614
March . . .	·619	·619	·618	·613	·613	·620	·626	·637	·643	·645	·644	·638	·622
April . . .	·644	·637	·636	·637	·638	·646	·673	·685	·692	·693	·692	·685	·657
May . . .	·562	·560	·558	·560	·562	·574	·582	·589	·592	·590	·590	·583	·565
June . . .	·568	·566	·565	·566	·572	·585	·595	·602	·605	·604	·603	·598	·577
July . . .	·586	·584	·583	·583	·587	·598	·603	·610	·614	·614	·613	·609	·589
August . . .	·633	·629	·626	·626	·629	·635	·651	·659	·663	·666	·667	·662	·638
September . . .	·637	·636	·636	·636	·640	·648	·665	·672	·674	·678	·676	·669	·647
October . . .	·663	·666	·664	·662	·664	·668	·664	·677	·684	·686	·684	·679	·663
November . . .	·626	·626	·629	·628	·628	·626	·630	·638	·647	·648	·651	·642	·626
December . . .	·637	·635	·641	·641	·635	·634	·649	·654	·665	·669	·673	·659	·643
Hourly Means	·616	·615	·615	·615	·616	·621	·631	·639	·646	·648	·648	·641	·621

TABLE LX.

*Mean Elastic Force of the Aqueous Vapour for the period from July 1842 to June 1848 inclusive.*

Toronto Astron. Time. }	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
January . . .	·126	·127	·129	·128	·125	·123	·121	·118	·118	·117	·116	·115
February . . .	·114	·115	·117	·117	·117	·114	·109	·107	·104	·103	·102	·101
March . . .	·136	·142	·143	·143	·140	·141	·136	·131	·129	·129	·126	·124
April . . .	·219	·220	·221	·220	·219	·220	·212	·207	·203	·201	·196	·195
May . . .	·336	·331	·328	·321	·321	·321	·310	·298	·287	·282	·276	·271
June . . .	·446	·446	·443	·444	·441	·436	·424	·410	·393	·380	·373	·366
July . . .	·511	·516	·512	·509	·509	·503	·500	·484	·461	·448	·436	·426
August . . .	·546	·552	·551	·547	·542	·538	·530	·501	·485	·469	·459	·450
September . . .	·419	·416	·417	·415	·411	·411	·400	·386	·375	·373	·361	·354
October . . .	·261	·259	·256	·256	·253	·249	·244	·241	·238	·234	·231	·222
November . . .	·193	·196	·196	·194	·192	·189	·187	·185	·183	·182	·180	·177
December . . .	·133	·136	·137	·138	·135	·134	·131	·129	·127	·126	·124	·124
Hourly Means	·287	·288	·288	·286	·284	·282	·275	·266	·259	·254	·248	·244

Toronto Astron. Time. }	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Monthly Means.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
January . . .	·113	·111	·112	·110	·109	·108	·114	·113	·113	·118	·120	·123	·118
February . . .	·101	·100	·100	·097	·095	·097	·092	·092	·096	·102	·105	·107	·104
March . . .	·128	·125	·123	·121	·121	·121	·116	·117	·126	·126	·133	·136	·130
April . . .	·192	·191	·188	·186	·186	·181	·179	·188	·194	·205	·211	·216	·203
May . . .	·265	·261	·259	·257	·255	·257	·270	·283	·294	·308	·317	·326	·293
June . . .	·367	·359	·352	·347	·341	·344	·367	·386	·403	·418	·432	·444	·398
July . . .	·419	·415	·410	·402	·398	·397	·436	·461	·479	·490	·502	·504	·464
August . . .	·447	·439	·433	·427	·425	·420	·436	·471	·497	·522	·529	·541	·490
September . . .	·354	·347	·341	·336	·332	·330	·337	·363	·380	·394	·409	·414	·378
October . . .	·228	·221	·219	·218	·218	·216	·218	·224	·238	·246	·251	·255	·238
November . . .	·175	·173	·173	·170	·171	·171	·174	·175	·178	·183	·189	·193	·182
December . . .	·125	·123	·118	·120	·120	·120	·119	·117	·120	·124	·128	·131	·127
Hourly Means	·243	·239	·236	·233	·231	·230	·238	·249	·260	·270	·277	·283	·260

TABLE LXI.

*Mean Gaseous Pressure for the period from July 1842 to June 1848 inclusive.*

29 English inches + the decimals in the Table.

Toronto Astron. Time. }	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
January . . .	·484	·469	·464	·471	·479	·487	·497	·504	·505	·506	·505	·504
February . . .	·509	·491	·479	·479	·479	·486	·498	·507	·512	·515	·515	·513
March . . .	·494	·474	·461	·457	·460	·464	·473	·484	·493	·498	·500	·502
April . . .	·455	·446	·433	·424	·421	·422	·430	·436	·449	·452	·454	·453
May . . .	·237	·232	·227	·225	·219	·217	·230	·246	·266	·280	·289	·295
June . . .	·144	·134	·129	·121	·117	·117	·129	·146	·167	·191	·200	·209
July . . .	·091	·077	·072	·067	·061	·061	·067	·085	·113	·138	·152	·164
August . . .	·108	·094	·084	·077	·078	·079	·088	·118	·143	·164	·174	·185
September . . .	·240	·233	·219	·213	·214	·214	·226	·246	·266	·269	·282	·288
October . . .	·405	·394	·389	·387	·390	·398	·408	·415	·422	·429	·434	·441
November . . .	·433	·419	·412	·416	·420	·427	·434	·437	·439	·440	·441	·441
December . . .	·507	·492	·484	·487	·497	·500	·509	·515	·516	·515	·517	·514
Hourly Means	·342	·330	·321	·319	·320	·323	·332	·345	·358	·366	·372	·376

Toronto Astron. Time. }	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Monthly Means.
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
January . . .	·505	·509	·513	·513	·508	·505	·503	·509	·521	·523	·523	·508	·500
February . . .	·501	·502	·504	·507	·510	·510	·522	·533	·542	·542	·538	·532	·510
March . . .	·491	·494	·495	·492	·492	·499	·510	·520	·517	·519	·511	·502	·492
April . . .	·452	·446	·448	·451	·452	·465	·494	·497	·498	·488	·481	·469	·454
May . . .	·297	·299	·299	·303	·307	·317	·312	·306	·298	·282	·273	·257	·272
June . . .	·201	·207	·213	·219	·231	·241	·228	·216	·202	·186	·171	·154	·179
July . . .	·167	·169	·173	·181	·189	·201	·167	·149	·135	·124	·111	·105	·126
August . . .	·186	·190	·193	·199	·204	·215	·215	·188	·166	·144	·138	·121	·148
September . . .	·283	·289	·295	·300	·308	·318	·328	·309	·294	·284	·267	·255	·269
October . . .	·435	·445	·445	·444	·446	·452	·446	·453	·446	·440	·433	·424	·425
November . . .	·451	·453	·456	·458	·457	·455	·456	·463	·469	·465	·462	·449	·444
December . . .	·512	·514	·523	·521	·515	·514	·530	·537	·545	·545	·545	·528	·516
Hourly Means	·373	·376	·380	·382	·385	·391	·393	·390	·386	·379	·371	·359	·36

TABLE LXIII.

*Mean Annual Variations of the Meteorological Phenomena.*

MONTHS.	Thermometer.	Elastic Force of Vapour.	Humidity.	Barometer.	Gaseous Pressure.
January . . .	-19·00	In. -·142	+ 5	In. -·003	In. +·139
February . . .	-21·05	-·156	- 2	+·007	+·149
March . . .	-14·51	-·130	- 3	+·001	+·131
April . . .	- 1·68	-·057	- 6	+·036	+·093
May . . .	+ 8·59	+·033	- 5	-·056	-·089
June . . .	+16·37	+·138	- 2	-·044	-·182
July . . .	+21·67	+·204	- 4	-·032	-·235
August . . .	+21·42	+·230	+ 1	+·017	-·213
September . . .	+13·27	+·118	+ 2	+·026	-·092
October . . .	- 0·12	-·022	+ 4	+·042	+·064
November . . .	- 8·08	-·078	+ 6	+·005	+·083
December . . .	-16·89	-·133	+ 3	+·022	+·155

HUMIDITY OF THE AIR.

cxiii

TABLE LXII.

Mean Degree of the Humidity of the Air for the period from July 1842 to June 1848 inclusive.

Toronto Astron. Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
January . . .	80	80	81	80	80	81	83	83	83	84	84	84
February . . .	73	72	71	72	73	74	76	76	77	78	79	79
March . . .	68	70	69	69	69	72	73	75	77	79	80	80
April . . .	66	64	63	62	63	64	67	72	74	77	77	79
May . . .	68	65	64	63	63	64	65	69	73	77	78	79
June . . .	71	69	67	67	65	66	67	72	76	80	82	83
July . . .	65	63	62	61	61	61	64	69	76	80	81	83
August . . .	71	70	68	67	67	68	71	76	82	84	84	85
September . . .	73	71	70	70	70	72	77	81	83	85	86	86
October . . .	75	73	72	72	73	76	81	83	85	86	87	88
November . . .	79	79	79	79	81	83	85	86	86	87	87	87
December . . .	79	79	79	79	80	82	83	83	82	83	83	82
Hourly Means	72	71	70	70	70	72	74	77	79	82	82	83

Toronto Astron. Time.	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Monthly Means.
January . . .	86	85	86	86	85	85	86	86	86	88	83	81	84
February . . .	80	80	82	80	80	78	79	80	80	78	74	72	77
March . . .	83	82	82	82	83	84	82	81	79	74	73	70	76
April . . .	79	79	80	81	82	81	80	77	72	71	69	68	73
May . . .	80	81	84	85	86	86	83	78	74	73	70	69	74
June . . .	85	86	86	87	87	87	86	81	78	75	74	73	77
July . . .	84	86	86	87	88	88	86	81	76	73	71	67	75
August . . .	87	88	89	89	90	90	90	86	81	80	75	73	80
September . . .	87	87	87	88	89	90	90	88	84	80	77	75	81
October . . .	89	89	89	89	90	90	90	90	88	83	78	75	83
November . . .	88	88	89	89	89	89	89	90	88	85	83	82	85
December . . .	85	84	82	85	85	84	85	85	85	84	82	80	82
Hourly Means	84	85	85	86	86	86	86	84	81	79	76	74	79

TABLE LXIV.

Mean Diurnal Variations of the Meteorological Phenomena.

HOURS.	Thermometer.	Elastic Force of Vapour.	Humidity.	Barometer.	Gaseous Pressure.	HOURS.	Thermometer.	Elastic Force of Vapour.	Humidity.	Barometer.	Gaseous Pressure.
0	+4.80	In. +.027	- 7	In. +.008	In. -.019	12	-3.42	In. -.017	+ 5	In. -.005	In. +.012
1	+5.49	+.028	- 8	-.003	-.031	13	-4.03	-.021	+ 6	-.006	+.015
2	+5.90	+.028	- 9	-.013	-.040	14	-4.51	-.024	+ 6	-.005	+.019
3	+5.92	+.026	- 9	-.016	-.042	15	-4.97	-.027	+ 7	-.006	+.021
4	+5.56	+.024	- 9	-.018	-.041	16	-5.31	-.029	+ 7	-.005	+.024
5	+4.68	+.022	- 7	-.017	-.038	17	-5.48	-.030	+ 7	000	+.030
6	+3.15	+.015	- 5	-.013	-.029	18	-4.56	-.022	+ 7	+.010	+.032
7	+1.21	+.006	- 2	-.010	-.016	19	-3.07	-.011	+ 5	+.018	+.029
8	-0.41	-.001	0	-.005	-.003	20	-1.21	000	+ 2	+.025	+.025
9	-1.52	-.006	+ 3	-.001	+.005	21	+0.80	+.010	0	+.027	+.018
10	-2.30	-.012	+ 3	-.001	+.011	22	+2.50	+.017	- 3	+.027	+.010
11	-2.94	-.016	+ 4	-.001	+.015	23	+3.82	+.023	- 5	+.020	-.002

*Corrections to be applied to Thermometric Observations made at Toronto at any hour of the day, for the purpose of giving the corresponding mean temperature of the day.*

Table LVIII. (page cxx.) exhibits the mean temperature of every month in the year derived from hourly observations from July 1842 to June 1848 inclusive, as well as the mean monthly temperature at every hour of the twenty-four derived from the same series; it furnishes, therefore, by inspection, corrections to be applied to the monthly means of thermometric observations made at any hour of mean time, whereby the mean temperature of the *month*, such as would have been given by a mean of twenty-four equidistant observations, may be obtained, approximately at least, from daily observations at a single hour. Many meteorological problems, however, require determinations of mean temperature for shorter periods than monthly ones. In Europe five-day means are in frequent request; and for some problems even daily means are required. It is desirable therefore that a table should be formed from the mean monthly results in Table LVIII., which may supply, for Toronto and places in its vicinity, the means of deriving from an observation made at any time whatsoever in the course of the twenty-four hours, the best approximation attainable by it to the mean temperature of the *day*, such as would have been given by the mean of twenty-four equidistant observations.

It is now generally recognised that, when a single observer constitutes the whole observing staff, a mean of three equidistant observations in the 24 hours furnishes the most satisfactory approximation to the daily mean temperature which is within his command. The hours of 6 A.M., 2 P.M., and 10 P.M. are those which are usually preferred; but the frequent substitution of the three non-equidistant hours of 7 A.M., 2 P.M., and 9 P.M., shows that even the least inconvenient combination of three hours having equal intervals, is not always unattended with difficulty.\* No combination of three fixed hours of observation will however give an equally good approximation to the mean temperature of the day at all seasons of the year; and were it only for this reason it is preferable, even when three equidistant observations are made, to apply to each of the observations separately a correction to the mean temperature of the day, based on such a table as LVIII. (founded on a sufficient number of years of observation), and to take the mean of the three observations so corrected for the mean temperature of the day. But the chief advantage of a table of corrections for the purpose of reducing observations at any hour to the mean temperature of the day, is in its

\* The hourly series from July 1842 to June 1848, shows that at Toronto 6 A.M., 2 P.M., and 10 P.M., give a nearer approximation, on the average of the year, to the mean of twenty-four hourly observations, than do 7 A.M., 2 P.M., and 9 P.M. But 6½ A.M., 2 P.M., and 9½ P.M., appear to form a combination preferable for this particular purpose to either of the two other combinations.

setting the observer free to select his hours of observation untrammelled by the condition that their uncorrected mean should present of itself a close approximation to the mean temperature of all the hours. It must of course be always desirable that when the observations are few they should be widely separated, as affording a better chance of compensation for transient accidental variations; but absolute or nearly approximate *equidistance* loses a great part of its importance when a table of corrections exists; and the observer is thus placed at greater freedom to choose the hours which may be most suitable either to his convenience, or to other researches in which he may desire to engage, having reference to particular points of meteorological or climatic interest.

Although the application of such a table may, in strictness, be regarded as limited to observations made exclusively at the station from whence it is derived, yet practically such tables are found of considerable value in facilitating the reduction of observations at stations, not too distant, which may be subject for the most part to the same or to similar meteorological influences. In this point of view, Toronto, as a normal station, may perhaps be useful, within reasonable limits, in aiding the reduction and co-ordination of observations in Canada and the United States, such as those which are now in progress on the system proposed by the Smithsonian Institution.

For these objects Table LXV. has been formed from the data contained in Table LVIII. The temperatures on the different days of the year, and at the different hours of the day, have been computed from the several monthly means by the well-known formula usually called Bessel's:—

$$t_x = A_0 + A_1 \cos a + B_1 \sin a + A_2 \cos 2a + B_2 \sin 2a + A_3 \cos 3a + B_3 \sin 3a \\ + A_4 \cos 4a + B_4 \sin 4a + A_5 \cos 5a + B_5 \sin 5a + A_6 \cos 6a;$$

in which  $t$  is the temperature on  $x$  the required day,  $A_0$  the mean temperature of the year at the hour required,  $a = n \times 30^\circ$ ,  $n$  being the number of months and parts of a month between a fixed epoch and  $x$ , and  $A_1 A_2 \dots A_6 B_1 B_2 \dots B_5$  constants derived from the data in Table LVIII. by the method of least squares. From the temperatures thus computed, corrections have been obtained to the mean temperature of the day for every hour of mean astronomical time throughout the year. Table LXV. exhibits these corrections for every hour on every fifth day throughout the year; the corrections on the intermediate days admitting of easy interpolation at sight.

TABLE LXV.

Corrections for every Fifth Day of the Year, to be applied to the Temperature observed at Toronto at any of the hours of Mean Astronomical Time, in order to give the Mean Temperature of the Day.

First Part, January to June. The corrections in the smaller type are subtractive; in the larger type additive.

Days of the Month.	Hours of Mean Astronomical Time.																									
	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .		
JANUARY.	Subtractive.											Additive.											Subtractive.			
	5	2.3	2.8	3.1	3.0	2.4	1.5	0.7	0.4	0.0	0.1	0.5	0.7	1.4	1.9	2.1	2.1	2.2	2.3	2.4	1.8	1.9	1.6	0.7	0.5	1.6
	10	2.4	2.9	3.1	3.1	2.5	1.6	0.8	0.2	0.0	0.1	0.5	0.8	1.5	2.0	2.1	2.2	2.3	2.4	1.7	1.8	1.6	0.7	0.5	1.7	1.7
	15	2.5	3.0	3.3	3.2	2.7	1.7	0.9	0.4	0.1	0.1	0.5	0.8	1.5	2.0	2.1	2.2	2.3	2.5	1.8	1.9	1.6	0.7	0.6	1.7	1.8
	20	2.6	3.1	3.4	3.4	2.9	1.9	0.9	0.4	0.0	0.2	0.6	1.0	1.6	2.0	2.1	2.3	2.4	2.7	2.0	2.1	1.8	0.7	0.6	1.8	1.9
25	2.8	3.4	3.7	3.8	3.3	2.1	1.2	0.4	0.0	0.2	0.7	1.1	1.6	2.0	2.1	2.4	2.6	2.8	2.3	2.5	2.1	0.8	0.6	1.9	2.0	
30	3.0	3.7	4.0	4.1	3.6	2.4	1.3	0.5	0.0	0.4	0.8	1.2	1.7	2.0	2.2	2.5	2.7	3.0	2.8	3.0	2.5	0.9	0.6	2.0	2.1	
FEBRUARY.	4	3.3	4.1	4.4	4.5	3.9	2.7	1.5	0.6	0.0	0.5	0.9	1.4	1.6	2.0	2.3	2.6	3.0	3.2	3.3	3.5	2.8	1.0	0.7	2.2	2.3
	9	3.5	4.3	4.7	4.8	4.2	3.0	1.6	0.7	0.0	0.6	1.1	1.6	1.8	2.1	2.5	2.7	3.1	3.4	3.8	4.0	3.2	1.0	0.8	2.4	2.5
	14	3.8	4.7	5.1	5.0	4.5	3.3	1.8	0.9	0.0	0.6	1.2	1.7	1.8	2.2	2.5	3.0	3.3	3.7	4.2	4.3	3.3	1.0	1.0	2.6	2.7
	19	3.9	4.8	5.3	5.2	4.7	3.5	2.0	0.9	0.0	0.7	1.3	1.9	1.9	2.3	2.7	3.1	3.5	3.8	4.5	4.6	3.4	0.9	1.2	2.7	2.8
	24	4.1	5.0	5.5	5.4	4.8	3.8	2.1	1.1	0.1	0.8	1.4	2.0	2.0	2.4	2.8	3.3	3.6	4.0	4.7	4.6	3.2	0.6	1.4	2.9	3.0
MARCH.	1	4.2	4.9	5.5	5.3	4.8	3.9	2.2	1.0	0.1	0.9	1.5	2.1	2.1	2.6	2.9	3.5	3.8	4.2	4.8	4.5	3.0	0.4	1.6	3.0	3.1
	6	4.2	5.0	5.5	5.3	4.8	3.9	2.3	1.0	0.0	0.9	1.6	2.2	2.3	2.7	3.1	3.5	3.8	4.3	4.9	4.4	2.7	0.2	1.7	3.1	3.2
	11	4.2	4.9	5.5	5.2	4.8	3.9	2.3	0.9	0.0	1.1	1.7	2.4	2.4	2.9	3.2	3.6	3.9	4.4	4.8	4.2	2.3	0.0	1.8	3.1	3.2
	16	4.2	4.8	5.4	5.2	4.7	4.0	2.3	0.8	0.1	1.1	1.8	2.4	2.5	2.9	3.3	3.6	4.0	4.5	4.8	3.9	1.9	0.2	1.9	3.2	3.3
	21	4.2	4.8	5.4	5.2	4.8	4.0	2.1	0.7	0.2	1.2	1.9	2.5	2.5	3.0	3.4	3.6	4.0	4.6	4.8	3.6	1.7	0.4	2.0	3.2	3.3
	26	4.2	4.9	5.4	5.3	4.9	4.1	2.3	0.7	0.3	1.3	2.0	2.6	2.6	3.0	3.6	3.8	4.1	4.7	4.9	3.6	1.4	0.5	2.0	3.3	3.4
31	4.3	5.1	5.5	5.4	5.0	4.3	2.4	0.6	0.5	1.4	2.1	2.7	2.7	3.3	3.8	3.9	4.3	4.8	5.0	3.5	1.2	0.6	2.1	3.3	3.4	
APRIL.	5	4.5	5.3	5.7	5.7	5.3	4.5	2.7	0.6	0.6	1.6	2.3	2.8	2.8	3.5	4.0	4.1	4.5	5.0	5.2	3.4	1.2	0.7	2.2	3.5	3.6
	10	4.6	5.5	5.9	6.0	5.6	4.8	3.0	0.7	0.7	1.7	2.5	3.0	3.0	3.7	4.3	4.5	4.9	5.3	5.4	3.4	1.1	0.8	2.3	3.6	3.7
	15	4.9	5.8	6.2	6.3	5.9	5.2	3.4	0.8	0.7	1.8	2.6	3.1	3.3	4.0	4.7	4.9	5.3	5.7	5.5	3.3	1.0	1.0	2.5	3.9	4.0
	20	5.1	6.1	6.5	6.6	6.2	5.6	3.7	1.0	0.8	2.0	2.7	3.3	3.5	4.4	5.1	5.3	5.8	6.1	5.7	3.1	0.9	1.1	2.7	4.1	4.2
	25	5.4	6.4	6.8	6.8	6.5	5.9	4.0	1.3	0.8	2.1	2.9	3.5	3.9	4.8	5.5	5.9	6.4	6.0	5.7	3.0	0.8	1.3	3.0	4.3	4.4
30	5.6	6.6	7.0	7.1	6.8	6.2	4.4	1.5	0.8	2.1	3.0	3.7	4.2	5.1	5.9	6.4	6.9	6.8	5.7	2.9	0.7	1.6	3.2	4.6	4.7	
MAY.	5	5.7	6.7	7.1	7.2	7.0	6.5	4.6	1.7	0.7	2.2	3.1	3.9	4.6	5.5	6.3	6.9	7.3	6.4	5.7	2.7	0.5	1.8	3.5	4.7	4.8
	10	5.9	6.8	7.2	7.3	7.1	6.7	4.9	2.0	0.6	2.2	3.1	4.0	4.8	5.7	6.5	7.2	7.6	7.7	5.5	2.5	0.3	2.0	3.7	4.9	5.0
	15	5.9	6.8	7.2	7.2	7.2	6.8	5.0	2.2	0.5	2.3	3.3	4.2	5.0	5.9	6.7	7.4	7.9	7.8	5.4	2.4	0.2	2.1	3.8	4.9	5.0
	20	5.9	6.8	7.1	7.2	7.3	6.9	5.4	2.4	0.4	2.3	3.3	4.3	5.1	5.9	6.7	7.5	8.0	7.9	5.2	2.3	0.1	2.0	3.9	5.0	5.1
	25	5.9	6.7	7.0	7.2	7.3	6.9	5.5	2.5	0.4	2.3	3.4	4.4	5.2	6.0	6.8	7.5	8.0	7.9	5.1	2.3	0.1	2.2	3.9	5.0	5.1
30	5.8	6.6	6.9	7.2	7.3	6.8	5.5	2.6	0.3	2.3	3.5	4.4	5.2	5.9	6.7	7.5	8.0	7.8	5.1	2.3	0.1	2.1	3.8	4.9	5.0	
JUNE.	5	5.8	6.6	6.9	7.2	7.4	6.9	5.6	2.7	0.3	2.3	3.6	4.5	5.2	5.9	6.6	7.5	8.0	7.8	5.1	2.4	0.1	2.0	3.7	4.8	4.9
	10	5.8	6.6	6.9	7.3	7.5	7.0	5.7	2.9	0.2	2.3	3.6	4.6	5.2	5.9	6.6	7.4	7.9	7.9	5.1	2.4	0.0	1.9	3.6	4.8	4.9
	15	5.9	6.6	7.0	7.4	7.6	7.0	5.7	3.0	0.3	2.5	3.8	4.8	5.3	6.0	6.7	7.5	8.0	7.9	5.2	2.4	0.1	1.8	3.5	4.8	4.9
	20	6.0	6.7	7.2	7.6	7.9	7.2	5.9	3.1	0.3	2.5	3.9	4.9	5.5	6.2	6.8	7.7	8.2	8.1	5.3	2.4	0.1	1.8	3.5	4.8	4.9
	25	6.1	6.9	7.5	7.8	8.0	7.3	6.2	3.3	0.4	2.7	4.0	5.1	5.7	6.4	7.0	7.8	8.4	8.3	5.5	2.3	0.0	1.8	3.5	4.9	5.0
30	6.3	7.2	7.8	8.1	8.3	7.7	6.4	3.4	0.4	2.8	4.1	5.2	5.9	6.7	7.3	8.0	8.7	8.6	5.6	2.3	0.0	1.9	3.6	5.0	5.1	

TABLE LXV—continued.

Second Part, July to December. The corrections in the smaller type are subtractive; in the larger type additive.

Days of the Month.	Hours of Mean Astronomical Time.																								
	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	
	Subtractive.								Additive.												Subtractive.				
<b>JULY.</b>																									
5	6.5	7.4	8.1	8.4	8.5	8.0	6.7	3.5	0.5	2.9	4.2	5.3	6.2	6.9	7.6	8.3	8.9	9.0	5.8	2.3	0.1	2.0	3.7	5.2	
10	6.7	7.6	8.4	8.6	8.7	8.2	6.8	3.5	0.6	3.0	4.3	5.5	6.4	7.2	7.8	8.5	9.2	9.2	6.0	2.4	0.1	2.2	3.9	5.4	
15	6.9	7.8	8.6	8.8	8.8	8.4	6.9	3.5	0.7	3.1	4.3	5.5	6.5	7.4	8.0	8.7	9.3	9.4	6.2	2.5	0.1	2.3	4.0	5.6	
20	7.0	7.8	8.7	8.9	8.9	8.4	6.8	3.3	0.9	3.2	4.3	5.5	6.6	7.5	8.0	8.8	9.3	9.4	6.4	2.7	0.1	2.4	4.1	5.7	
25	7.0	7.9	8.8	8.9	8.9	8.4	6.7	3.1	1.0	3.2	4.3	5.4	6.6	7.4	8.0	8.7	9.2	9.3	6.4	2.9	0.0	2.4	4.3	5.8	
30	7.0	7.9	8.7	8.9	8.8	8.3	6.5	2.8	1.1	3.1	4.2	5.3	6.4	7.2	7.8	8.5	9.0	9.0	6.5	3.1	0.1	2.4	4.3	5.8	
<b>AUGUST.</b>																									
5	6.9	7.7	8.5	8.8	8.6	8.1	6.3	2.4	1.2	3.1	4.2	5.1	6.1	6.9	7.5	8.2	8.6	8.7	6.6	3.3	0.2	2.4	4.3	5.8	
10	6.6	7.4	8.1	8.4	8.3	7.8	5.9	2.0	1.3	3.1	4.0	5.0	5.9	6.6	7.3	7.9	8.3	8.4	6.7	3.6	0.3	2.2	4.2	5.6	
15	6.5	7.3	7.9	8.2	8.1	7.5	5.6	1.7	1.3	2.8	3.9	4.7	5.5	6.1	6.8	7.5	7.8	8.0	6.6	3.6	0.3	2.2	4.1	5.6	
20	6.3	7.0	7.6	7.9	7.8	7.2	5.2	1.3	1.3	2.7	3.7	4.4	5.1	5.7	6.4	7.1	7.5	7.8	6.5	3.7	0.4	2.0	4.0	5.4	
25	6.2	6.8	7.3	7.6	7.5	7.0	4.7	1.0	1.2	2.5	3.5	4.2	4.8	5.4	6.1	6.7	7.1	7.5	6.5	3.6	0.4	1.9	3.9	5.3	
30	6.1	6.7	7.1	7.4	7.2	6.6	4.3	0.7	1.2	2.3	3.4	4.0	4.5	5.1	5.8	6.4	6.8	7.3	6.4	3.6	0.5	1.8	3.8	5.2	
<b>SEPTEMBER.</b>																									
5	6.0	6.6	7.0	7.2	7.0	6.3	3.9	0.6	1.0	2.1	3.2	3.9	4.3	4.8	5.5	6.1	6.6	6.7	6.3	3.6	0.6	1.7	3.6	5.1	
10	5.9	6.5	6.9	7.0	6.9	6.1	3.4	0.4	1.0	2.0	3.1	3.7	4.1	4.7	5.3	5.8	6.4	7.0	6.2	3.6	0.7	1.6	3.6	5.0	
15	5.9	6.5	6.9	7.0	6.7	5.8	3.1	0.4	0.9	1.9	3.0	3.6	4.0	4.6	5.2	5.6	6.2	6.8	6.2	3.6	0.9	1.6	3.5	5.0	
20	5.9	6.5	6.9	6.9	6.5	5.5	3.0	0.3	0.8	1.8	2.9	3.5	3.9	4.5	5.0	5.4	6.0	6.7	6.1	3.7	1.0	1.4	3.4	4.9	
25	5.9	6.5	6.9	6.7	6.4	5.1	2.6	0.4	0.7	1.7	2.7	3.4	3.8	4.4	4.9	5.3	5.8	6.4	6.0	3.8	1.2	1.4	3.4	4.9	
30	5.8	6.4	6.8	6.6	6.2	4.7	2.3	0.3	0.6	1.6	2.6	3.3	3.7	4.3	4.8	5.0	5.5	6.1	5.7	3.9	1.4	1.3	3.3	4.8	
<b>OCTOBER.</b>																									
5	5.7	6.2	6.6	6.4	5.9	4.3	1.9	0.3	0.6	1.5	2.4	3.2	3.6	4.2	4.6	4.8	5.3	5.7	5.4	4.0	1.5	1.2	3.2	4.7	
10	5.6	6.0	6.4	6.2	5.6	3.9	1.7	0.3	0.5	1.4	2.2	2.9	3.4	4.0	4.4	4.6	4.9	5.2	5.0	3.9	1.5	1.2	3.2	4.6	
15	5.3	5.7	6.1	5.8	5.1	3.4	1.3	0.2	0.5	1.3	2.0	2.7	3.2	3.8	4.2	4.3	4.6	4.8	4.6	3.8	1.6	1.1	3.0	4.4	
20	5.0	5.4	5.7	5.5	4.7	2.9	1.1	0.2	0.5	1.1	1.8	2.4	3.1	3.6	3.9	4.0	4.4	4.4	4.1	3.6	1.5	1.0	2.9	4.1	
25	4.7	5.0	5.3	5.1	4.2	2.5	1.0	0.1	0.4	1.0	1.6	2.2	2.9	3.3	3.6	3.7	4.0	4.0	3.6	3.3	1.4	0.9	2.6	3.9	
30	4.3	4.6	4.8	4.6	3.7	2.1	0.8	0.1	0.4	0.9	1.4	1.9	2.7	3.0	3.3	3.5	3.7	3.6	3.2	3.1	1.4	0.7	2.4	3.5	
<b>NOVEMBER.</b>																									
5	3.9	4.3	4.4	4.2	3.3	1.9	0.8	0.1	0.3	0.7	1.2	1.6	2.4	2.7	2.9	3.2	3.4	3.3	2.9	2.8	1.3	0.6	2.1	3.2	
10	3.6	3.9	4.1	3.9	3.0	1.6	0.7	0.1	0.3	0.6	1.0	1.4	2.1	2.4	2.7	3.0	3.1	3.0	2.6	2.6	1.4	0.3	1.8	2.8	
15	3.3	3.7	3.8	3.6	2.7	1.5	0.7	0.1	0.2	0.5	0.8	1.2	1.8	2.1	2.4	2.7	2.9	2.8	2.5	2.5	1.4	0.1	1.5	2.5	
20	3.1	3.5	3.6	3.4	2.6	1.5	0.5	0.2	0.1	0.4	0.7	1.0	1.6	1.9	2.2	2.5	2.6	2.4	2.5	2.5	1.6	0.2	1.2	2.3	
25	2.9	3.4	3.5	3.3	2.5	1.4	0.5	0.2	0.1	0.3	0.6	0.8	1.3	1.6	2.0	2.3	2.5	2.4	2.5	2.5	1.8	0.5	1.0	2.0	
30	2.8	3.4	3.5	3.2	2.5	1.5	0.6	0.3	0.0	0.2	0.5	0.7	1.1	1.5	1.9	2.2	2.3	2.2	2.5	2.6	2.0	0.7	0.8	1.9	
<b>DECEMBER.</b>																									
5	2.7	3.3	3.4	3.2	2.5	1.5	0.7	0.4	0.0	0.2	0.5	0.6	1.0	1.4	1.8	2.1	2.1	2.1	2.5	2.7	2.1	0.9	0.6	1.8	
10	2.5	3.2	3.4	3.1	2.4	1.5	0.7	0.4	0.0	0.2	0.5	0.6	0.9	1.5	1.9	2.1	2.1	1.9	2.5	2.7	2.2	1.0	0.5	1.8	
15	2.5	3.2	3.4	3.1	2.5	1.5	0.8	0.5	0.1	0.2	0.5	0.6	0.9	1.5	1.9	2.0	2.0	2.0	2.5	2.6	2.2	1.0	0.4	1.7	
20	2.4	3.1	3.3	3.0	2.4	1.5	0.8	0.5	0.1	0.1	0.4	0.6	1.0	1.6	1.9	2.1	2.0	2.0	2.5	2.3	2.5	2.1	1.0	0.4	1.6
25	2.4	3.0	3.2	3.0	2.4	1.6	0.8	0.4	0.1	0.1	0.4	0.6	1.1	1.7	1.9	2.0	2.0	2.1	2.2	2.2	1.9	0.9	0.4	1.6	
30	2.3	2.9	3.1	3.0	2.2	1.5	0.8	0.4	0.1	0.1	0.5	0.7	1.2	1.8	2.0	2.0	2.1	2.1	1.9	2.0	1.8	0.8	0.5	1.6	



### POSTSCRIPT.

The publication of this volume has been delayed by the necessity of reprinting 456 pages, of which the first impression had been destroyed in the fire which took place at Messrs. Clowes's Printing Office on the 10th June 1852.

EDWARD SABINE.

*Woolwich, August 5, 1853.*

### ERRATA.

- Page v. Feb. 1849, for "6·2," read "4·3;" for "1° 35'·2," read "1° 37'·1."  
Mean for Feb. 1849, for "1° 36'·9," read "1° 37'·1."  
— xxxv. line 25, for "7<sup>h</sup> of Toronto time," read "7<sup>h</sup> A. M. of Toronto time."  
— xcii. — 7, for "Annular," read "Annual."

**TORONTO, 1843.**

---

**MAGNETICAL OBSERVATIONS.**

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
JANUARY.	1	—	—	—	—	—	—	—	—	—	—	—
	2	105.9	129.4	130.7	125.5	124.8	125.0	125.6	125.1	117.8	125.6	127.0
	3	118.4	127.6	132.7	132.1	130.1	126.5	125.3	124.6	124.4	124.1	126.8
	4	128.3	129.7	131.9	132.8	132.6	128.1	125.0	124.5	124.0	124.0	126.2
	5	128.1	129.3	130.5	133.9	132.8	130.0	126.0	124.0	122.9	127.7	126.9
	6	128.6	129.4	131.8	133.2	133.8	129.7	125.0	122.8	122.0	123.9	125.1
	7	128.0	129.0	132.1	135.2	133.0	129.8	126.3	121.9	121.8	123.2	125.5
	8	—	—	—	—	—	—	—	—	—	—	—
	9	128.1	131.2	132.0	133.8	132.0	129.8	125.8	123.4	122.9	122.5	125.0
	10	128.2	129.6	130.4	132.8	133.0	129.0	125.1	122.6	121.7	122.6	125.0
	11	127.2	128.6	129.6	131.6	130.0	128.5	126.1	125.0	122.2	118.4	125.2
	12	126.2 <sup>a</sup>	128.6	129.6	131.0	131.9	130.3	128.3	125.7	123.8	122.8	124.1
	13	127.0	128.4	130.1	130.0	129.6	127.2	125.8	126.0	126.8	125.9	126.4
	14	127.5	128.4	129.9	130.7	130.7	130.0	127.0	126.4	126.0	124.9	124.9
	15	—	—	—	—	—	—	—	—	—	—	—
	16	128.9	128.3	132.8	131.3	130.3	129.1	128.0	125.5	123.9	122.2	125.3
	17	128.4	129.0	129.9	129.1	131.3	126.1	121.4	120.9	121.7	124.0	125.6
	18	128.1	128.7	131.1	132.5	133.2	131.1	128.4	124.8	122.2	124.0	124.2
	19	127.4	128.0	130.5	133.6	132.3	129.5	126.8	123.2	122.4	122.0	123.2
	20	128.7	127.0	129.8	134.0	132.4	129.0	125.7	123.5	122.3	121.0	123.3
	21	128.0	129.5	131.0	131.5	132.6	129.4	127.7	125.9	124.0	123.9	124.8
	22	—	—	—	—	—	—	—	—	—	—	—
	23	126.9	127.2	130.6	133.1	133.1	130.9	127.4	125.4	124.0	123.9	122.7
	24	127.3	128.6	130.0	131.0	130.1	128.2	127.0	125.2	124.6	124.4	125.0
	25	127.9	128.8	130.5	132.9	133.2	128.5	126.8	125.7	126.5	124.5	125.5
	26	128.6	128.6	130.7	131.3	131.0	129.7	127.2	125.0	124.8	125.9	125.5
	27	129.0	129.6	131.4	132.5	131.3	128.9	126.5	126.0	125.2	126.0	126.0
	28	123.5	130.7	132.0	133.5	132.3	129.0	121.3	119.1	120.1	121.0	124.4
	29	—	—	—	—	—	—	—	—	—	—	—
	30	128.7	129.1	129.3	132.1	132.6	129.9	126.7	122.0	122.1	124.0	125.8
	31	126.6	129.3	130.1	131.1	131.1	129.6	126.2	126.1	126.1	127.0	127.7
Hourly Means	126.52	128.91	130.81	132.00	131.58	128.95	126.16	124.24	123.32	123.82	125.27	
FEBRUARY.	1	128.0	129.6	131.2	131.1	130.4	128.2	127.1	123.6	125.2	127.8	128.5
	2	130.0	129.5	132.9	134.3	133.2	130.6	126.4	123.5	125.0	127.0	129.0
	3	131.1	130.7	133.1	133.0	131.0	128.6	127.2	124.9	124.3	127.1	128.8
	4	129.4	130.5	133.0	133.2	131.3	128.7	127.8	125.5	125.5	127.0	127.2
	5	—	—	—	—	—	—	—	—	—	—	—
	6	130.7	133.6	132.8	129.3	131.4	127.0	122.7	121.9	120.0	119.1	110.0
	7	128.2	132.5	133.9	134.9	129.6	124.2	124.8	124.2	124.0	123.8	125.2
	8	130.4	130.1	134.8	133.0	131.4	128.2	126.4	126.0	125.6	126.1	128.0
	9	130.0	130.1	132.5	131.0	130.0	124.2	126.7	125.5	124.8	123.9	124.2
	10	129.4	128.0	131.0	131.7	130.9	130.8	129.0	127.2	125.8	126.5	126.5
	11	128.9	129.5	129.4	130.0	129.4	127.0	125.3	125.2	124.2	124.5	125.0
	12	—	—	—	—	—	—	—	—	—	—	—
	13	132.2	130.7	131.1	129.1	126.0	123.0	121.1	122.0	122.6	124.4	123.0
	14	134.0	133.0	127.7	135.2	132.5	124.3	125.0	125.0	122.6	119.0	124.7
	15	129.6	131.0	131.6	132.0	128.5	125.1	122.8	122.2	123.4	123.9	127.0
	16	126.0	131.2	133.0	131.2	129.8	125.3	121.9	121.5	120.3	122.8	124.5
	17	132.0	132.6	133.7	133.1	129.8	124.0	120.0	116.8	120.0	124.0	125.0
	18	129.4	130.9	132.0	132.7	130.6	127.7	124.9	123.3	124.4	123.2	126.1
	19	—	—	—	—	—	—	—	—	—	—	—
	20	129.0	130.9	132.6	134.0	131.5	128.5	124.4	120.8	125.3	125.6	124.4
	21	131.0	130.2	131.5	131.7	129.7	126.2	124.7	123.6	122.8	123.8	125.0
	22	131.4	133.3	132.7	130.8	127.1	124.8	123.0	123.0	123.5	126.0	126.0
	23	130.2	131.2	133.1	132.6	129.5	126.0	125.0	123.4	123.6	124.6	126.0
	24	143.1	137.9	133.9	122.6	121.3	123.8	124.8	124.2	120.2	122.7	126.2
	25	126.8	129.0	131.6	129.9	127.4	124.7	123.7	123.7	124.5	125.6	125.6
	26	—	—	—	—	—	—	—	—	—	—	—
	27	129.0	129.5	131.3	130.0	128.2	125.1	124.0	122.4	123.1	125.0	127.0
	28	131.3	131.5	133.2	130.1	128.2	125.6	124.8	124.6	125.9	125.7	126.9
Hourly Means	130.46	131.12	132.23	131.52	129.53	126.32	124.73	123.50	123.61	124.55	125.41	

<sup>a</sup> Five minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'·721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
128·0	134·0	126·4	132·0	131·0	124·3	128·0	126·6	127·2	127·0	129·5	126·7	126·22
128·0	128·9	128·7	128·7	128·2	129·2	128·7	123·1	125·5	127·6	128·2	127·7	127·21
128·8	130·2	130·7	129·4	129·3	127·9	126·7	127·7	126·8	123·0	128·0	125·8	127·87
129·0	129·7	129·4	130·0	129·4	128·8	127·6	127·6	127·0	125·9	128·7	129·0	128·42
128·0	129·0	130·0	129·7	130·9	131·0	129·3	126·8	126·0	126·6	127·6	127·5	128·12
127·2	128·0	128·3	128·5	128·3	128·0	—	—	—	—	—	—	127·78
—	—	—	—	—	—	127·6	127·2	127·9	228·1	128·9	126·01	127·55
127·1	128·1	128·8	129·1	129·0	129·0	128·2	128·2	128·2	128·2	127·8	128·0	128·02
123·1	124·8	127·2	131·2	129·7	129·0	127·2	127·6	128·0	127·8	127·0	128·3	127·34
122·8	127·0	126·0	129·9	129·4	129·0	127·8	127·1	126·6	126·6	127·8	127·1	126·88
126·9	127·0	128·0	129·0	129·2	127·7	128·9	127·3	127·3	127·8	127·9	127·2	127·59
127·4	128·2	128·3	128·8	128·9	128·4	127·7	127·4	127·1	127·0	127·2	127·1	127·65
127·8	128·0	128·0	128·0	128·4	128·0	—	—	—	—	—	—	—
—	—	—	—	—	—	128·8	129·8	131·4	130·2	132·1	131·4	128·58
127·1	129·0	129·0	128·8	128·8	128·6	128·2	128·5	128·2	127·2	128·9	129·0	128·06
127·0	125·9	128·3	127·2	130·0	127·5	129·0	123·3	127·0	127·4	128·3	127·0	126·72
126·0	127·8	128·6	129·0	129·0	128·3	128·0	128·0	125·7	128·0	127·3	127·4	127·77
127·0	127·8	127·7	128·9	128·9	129·0	128·0	128·0	128·0	127·8	128·0	128·5	127·61
127·3	128·3	129·2	129·0	128·8	128·6	128·0	127·0	127·0	127·0	127·0	127·3	127·38
127·9	128·8	129·3	129·4	129·0	128·4	—	—	—	—	—	—	127·97
—	—	—	—	—	—	130·5	129·8	128·3	127·1	127·6	127·8	128·30
127·4	120·5	127·2	127·7	141·6	136·8	130·6	128·2	127·1	129·0	126·4	127·1	128·28
125·6	123·8	125·3	143·6	129·2	132·1	128·0	130·8	127·0	130·0	127·3	128·0	128·20
127·8	126·9	128·3	130·2	129·0	128·0	130·0	127·6	127·6	128·8	128·0	128·1	128·25
127·0	128·2	129·0	129·0	129·2	128·1	128·5	128·2	128·1	128·8	128·2	128·1	128·13
127·9	128·1	128·0	127·4	134·1	132·6	128·2	126·4	127·0	127·5	127·6	125·9	128·33
140·0	127·8	129·0	128·7	128·9	128·0	—	—	—	—	—	—	—
—	—	—	—	—	—	129·0	127·0	127·0	128·4	128·6	128·01	127·55
127·5	128·3	128·6	128·5	132·5	130·0	127·8	127·0	128·0	127·3	128·3	128·9	128·01
128·5	128·5	128·8	128·7	128·1	127·0	127·2	127·5	126·9	127·6	127·7	128·0	128·07
127·62	127·79	128·31	129·63	129·95	128·97	128·37	127·45	127·38	127·60	128·07	127·73	127·78
129·0	129·0	128·8	127·8	128·4	128·1	127·5	128·5	128·3	127·1	128·2	129·1	128·32
128·9	129·2	129·9	130·0	129·4	129·0	128·8	128·2	127·8	129·2	128·4	129·0	129·10
128·7	129·1	129·3	129·3	129·0	128·5	128·0	127·8	128·0	128·0	128·2	128·7	128·83
127·0	129·4	130·4	124·5	135·0	133·6	—	—	—	—	—	—	129·13
—	—	—	—	—	—	127·7	129·1	129·8	127·1	128·0	130·7	129·13
127·7	126·6	128·3	128·3	128·5	129·1	129·0	127·1	129·4	128·9	127·6	129·5	126·86
127·6	127·7	127·1	128·8	128·7	133·5	131·5	129·0	129·0	128·6	129·3	129·2	128·43
126·7 <sup>a</sup>	128·6	129·8	127·4	147·2	131·7	129·0	129·2	127·6	128·4	128·4	129·0	129·57
127·0	126·8	127·3	128·4	128·8	129·6	133·6	134·2	133·2	129·0	128·6	127·8	128·47
127·2	125·4	127·2	131·9	127·5	128·3	128·1	128·1	127·1	127·8	127·9	128·1	128·27
124·0	125·7	128·2	129·3	128·8	128·5	—	—	—	—	—	—	—
—	—	—	—	—	—	129·1	128·0	128·7	129·3	130·6	130·0	127·66
124·7	132·2	125·4	129·0	128·4	130·4	123·4	116·8	140·1	131·9	132·0	132·0	127·44
131·9	137·8	128·7	133·0	130·8	128·7	127·0	116·3	126·4	126·8	128·0	130·1	128·18
127·6	126·0	147·8	130·2	129·0	128·0	127·4	127·2	127·9	127·3	129·1	130·8	128·43
128·7	129·5	129·4	129·0	129·0	130·0	131·7	129·6	129·2	129·8	132·6	131·4	128·12
127·8	127·0	127·6	126·1	127·9	132·6	129·3	129·0	128·5	129·2	129·0	129·8	127·54
126·5	127·2	128·0	132·2	130·3	129·9	—	—	—	—	—	—	128·21
—	—	—	—	—	—	128·1	126·6	129·4	128·4	129·0	130·0	128·30
124·3	136·0	226·0	128·0	129·0	129·0	128·8	128·4	126·9	127·0	127·2	128·4	127·99
127·0	127·8	128·0	127·7	127·5	127·8	127·8	128·4	128·6	130·2	131·0	131·2	127·89
126·6	126·0	125·4	127·2	128·6	128·8	129·9	128·9	129·8	130·0	130·4	130·5	127·84
128·0	128·0	130·6	127·3	127·0	131·0	129·9	131·2	133·2	123·5	134·5	140·8	129·05
130·7	138·8	129·0	129·0	132·0	157·4	140·6	127·0	127·5	127·8	128·0	128·2	130·13
126·9	127·0	138·1	129·9	127·2	127·8	—	—	—	—	—	—	—
—	—	—	—	—	—	128·6	126·6	125·8	125·2	128·7	128·8	127·55
127·0	127·2	127·8	127·1	126·7	126·6	130·3	126·9	127·0	120·2	131·5	131·2	127·15
127·4	127·4	127·2	127·2	127·2	127·0	127·2	126·2	125·8	124·8	128·8	129·0	127·51
127·45	128·98	129·39	128·69	129·66	130·62	129·30	127·43	128·96	127·73	129·37	130·14	128·24

<sup>a</sup> Seven minutes late.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = $0' \cdot 721$ . Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	129·5	130·2	131·2	130·3	128·9	125·8	124·0	123·9	123·1	124·3	126·2	127·5
	2	131·5	131·0	131·8	130·3	127·7	124·6	123·0	122·2	123·0	124·0	125·0	126·2
	3	129·1	130·3	131·7	132·0	131·7	128·5	125·0 <sup>a</sup>	124·0	123·8 <sup>b</sup>	123·0	124·7	126·5
	4	129·0	127·9	135·0	136·0	132·2	128·2	124·2	121·3	119·5	119·1	120·0	122·4
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	131·5	132·8	133·0	131·3	131·3	128·6	124·7	120·8	120·8	118·4	118·2	121·4
	7	127·8	132·0	128·7	131·6	126·9	125·0	118·3	118·5	113·1	124·9	129·0	128·9
	8	128·9	129·4	131·9	130·8	130·4	126·0	125·8	125·0	125·2	125·2	125·3	125·4
	9	129·0	131·0	133·3	132·2	130·3	128·4	125·4	118·9	120·5	123·8	125·2	125·1
	10	129·2	130·0	130·5	129·5	128·0	127·4	123·5	122·3	122·9	124·2	124·0	123·8
	11	129·3	131·9	134·7	133·0	129·0	128·2	124·0	122·7	121·7	121·7	117·3	123·0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	128·5	126·5	134·6	134·3	133·3	130·1	124·8	122·5	120·8	121·5	123·0	124·6
	14	127·5	129·4	131·1	131·2	128·5	123·2	120·9	122·0 <sup>c</sup>	122·9	123·6	125·8	125·8
	15	128·4	130·3	131·7	132·0	129·9	126·0	123·0	121·7	121·0	121·2	124·9	125·8
	16	130·6	132·3	133·2	132·5	129·3	121·7	118·4	117·0	118·5	119·3	122·0	124·0
	17	130·9	133·1	134·0	133·8	131·0	125·0	119·1 <sup>d</sup>	116·2	115·0	117·8	118·0	120·2
	18	133·2	134·2	137·2	137·2	129·0	125·0	121·8	118·2	119·9	121·0	121·3	121·8
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	131·5	134·2	134·9	133·0	130·2	126·4	123·0	121·0	121·0	121·0	121·0	122·5
	21	128·7	130·4	134·0	133·7	130·0	128·0	124·9	120·2	128·6	119·7	121·8	123·8
	22	132·1	132·6	137·3	131·3	127·0	127·0	124·2	119·3	119·4	120·7	121·0	124·7
	23	132·7	133·5	134·0	135·0	132·6	130·0	125·2	121·0	122·7	122·5	124·0	125·1
	24	129·6	131·0	132·2	131·8	130·4	126·6	123·8	123·0	123·1	123·8	124·9	125·8
	25	130·0	132·1	133·6	133·0	131·0	126·1	124·0	122·4	123·1	124·1	125·2	127·0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	129·7	131·0	132·7	132·6	131·0	127·2	123·4	121·0	121·8	122·6	124·2	125·3
	28	130·5	132·8	133·6	131·1	129·0	125·8	121·2	118·9	119·3	121·0	123·0	124·8
	29	133·9	134·6	131·7	128·8	123·9	126·2	129·2	117·8	110·7	113·0	115·7	119·0
	30	129·0	131·3	132·7	133·5	131·7	127·4	123·1	120·6	121·5	124·4	123·6	125·0
	31	130·0	132·0	134·7	132·7	130·3	125·7	122·0	121·2	120·7	121·0	121·2	124·1
Hourly Means	130·06	131·40	233·15	132·39	129·80	126·60	123·33	120·87	120·50	121·73	122·80	124·40	
APRIL.	1	132·0	133·5	135·7	134·8	133·2	129·7	124·8	120·2	117·7	118·2	119·9	125·2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	130·4	131·3	131·0	131·3	129·6	126·9	119·2	115·0	116·2	115·0 <sup>a</sup>	118·0	122·0
	4	129·8	131·5	131·9	133·1	131·1	127·5	124·0	121·5	120·5	120·4	121·5	124·0
	5	136·7	135·0	133·4	120·4	120·8	131·9	121·5	121·0	115·0	111·9	108·9	101·0
	6	142·2	141·3	135·0	123·0	126·7	124·0	120·0	119·0	120·9	123·8	122·0	124·5
	7	132·7	132·5	134·2	128·0	129·0	125·6	122·6	121·9	120·1	125·3	122·6	120·6
	8	131·7	132·3	132·0	127·6	123·3	123·8	118·2	115·5	114·5	116·0	122·0	122·0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	132·0	132·3	132·4	130·0	126·6	122·5	120·1	119·0	120·0	122·1	123·7	125·0
	11	134·1	134·4	131·4	130·5	123·8	121·7	122·0	120·3	119·4	122·3	123·9	124·0
	12	135·2	135·1	133·0	130·4	128·7	122·5	118·1	109·1	112·4	117·0	123·1	125·5
	13	132·1	135·0	134·3	131·4	125·2	118·2	116·0	116·9	118·2	120·0	123·0	123·9
	14 <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	132·3	135·3	136·5	131·5	123·8	121·4	117·4	117·0	117·2	119·0	124·0	125·0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	134·0	135·0	135·3	133·7	129·8	128·0	123·0	119·8	119·5	120·2	121·8	122·9
	18	129·3	134·0	134·0	132·7	129·8	126·9	120·3	115·0	118·1	119·0	120·4	121·1
	19	132·5	132·9	132·8	131·3	129·2	125·4	123·0	123·9	123·5	123·8	124·6	125·0
	20	131·1	133·4	132·6	129·9	126·9	124·0	123·7	124·4	123·6	123·2	124·2	126·1
	21	132·8	135·8	135·0	130·0	127·0	124·3	122·7	121·1	121·7 <sup>c</sup>	122·7	124·3	125·4
	22	130·7	132·3	131·0	124·0	125·3	123·1	124·0	124·2	125·6	125·5	124·8	124·5
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	132·1	133·0	133·0	131·0	126·4	121·9	126·4	119·8	120·0	122·1	124·0	125·8
	25	132·3	133·0	132·9	130·5	125·3	122·3	121·0	121·0	121·5	122·7	124·5	126·7
	26	130·3	132·0	131·7	130·0	124·9	119·9	117·2	116·2	116·8	119·2	121·4	123·0
	27	131·3	131·0	132·3	131·1	123·6	127·4	115·9	116·0	116·2	118·0	121·0	123·1
	28	131·0	134·5	134·7	130·7	124·4	120·2	117·8	117·0	119·2	122·2	123·8	125·9
	29	132·9	134·4	134·0	131·9	126·0	121·1	118·0	115·6	115·0	118·0	121·8	125·0
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	132·56	133·79	133·34	129·95	126·68	123·76	120·33	118·77	118·87	120·32	122·05	123·22	

<sup>a</sup> Two minutes late.<sup>b</sup> Five minutes late.<sup>c</sup> Three minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
127.3	128.0	128.0	128.1	131.2	130.1	128.0	127.0	127.6	128.2	128.5	129.8	127.78
127.0	127.3	128.0	128.0	128.1	128.0	127.8	127.5	127.5	127.7	128.0	129.0	127.26
128.0	127.8	127.8	127.9	129.2	128.0	128.0	127.8	128.0	128.5	128.2	129.2	127.86
123.2	125.0	127.4	130.0	129.4	129.8	—	—	—	—	—	—	127.45
—	—	—	—	—	—	126.2	126.4	129.5	133.0	131.9	132.2	127.38
116.6	119.0	142.7	133.0	134.0	133.1	130.1	126.5	133.4	131.0	129.2	123.8	127.72
128.7	128.3	127.2	128.4	128.8	128.8	128.4	129.2	128.0	128.1	128.6	129.0	126.93
125.8	126.7	127.1	127.1	127.9	128.0	127.7	127.7	127.5	127.8	127.5	126.3	127.35
126.0	127.0	127.2	127.0	128.8	128.0	127.5	127.2	127.8	127.8	128.1	128.7	127.26
126.5	126.7	122.2	126.8	129.5	129.0	126.5	126.9	127.5	127.0	128.3	128.3	126.69
123.1	123.8	126.0	126.3	127.0	127.0	—	—	—	—	—	—	126.51
—	—	—	—	—	—	127.7	127.0	123.8	129.0	129.6	129.5	126.51
126.0	126.9	135.5	142.5	134.9	130.2	132.9	135.4	128.1	126.0	128.7	127.8	129.14
126.2	126.0	126.3	128.8	132.0	129.0	127.0	129.2	127.0	127.2	128.0	127.5	126.92
126.3	126.8	127.2	127.1	127.4	127.6	128.5	128.8	128.0	129.0	129.0	130.0	127.15
126.3	127.5	127.5	129.5	128.9	127.4	127.0	127.0	127.1	127.8	128.0	129.7	126.35
118.0	118.0	118.4	125.5	130.9	126.0	127.0	127.0	127.5	128.1	130.0	129.7	125.01
131.6	125.9	136.5	127.6	134.3	130.0	—	—	—	—	—	—	128.74
—	—	—	—	—	—	130.5	130.9	128.8	130.4	131.7	131.7	127.28
125.0	134.8	126.4	127.2	127.9	128.2	128.5	128.0	124.1	124.0	124.4	127.0	126.88
125.9	126.5	129.0	128.4	128.2	129.0	130.1	130.8	128.8	129.0	129.5	128.7	127.49
125.7	128.0	137.0	130.3	131.4	128.3	125.4	123.6	128.3	131.0	125.5	130.5	127.57
129.1	129.6	129.9	128.9	129.2	131.0	127.8	128.0	127.0	127.1	127.4	127.0	128.35
125.9	126.8	127.1	127.7	127.6	127.5	127.8	128.6	129.0	129.2	127.0	127.0	127.38
127.2	127.9	127.9	127.7	129.9	129.0	—	—	—	—	—	—	127.98
—	—	—	—	—	—	127.4	128.0	128.0	128.5	129.0	129.5	127.60
126.8	126.9	127.0	129.8	127.4	129.9	128.0	129.0	128.0	129.6	128.9	129.2	127.60
126.4	126.8	127.3	127.0	127.8	127.0	128.2	127.3	129.0	128.9	127.2	130.5	126.85
120.0	121.8	125.0	127.8	127.9	128.4	126.7	126.5	127.5	126.8	128.1	129.2	125.01
125.9	130.5	126.6	127.2	131.6	127.2	128.0	128.8	128.5	128.8	128.9	129.3	127.71
125.9	129.0	126.5	126.1	125.8	129.0	127.5	127.2	129.0	128.0	128.7	130.8	127.05
125.57	126.64	128.32	128.58	129.52	128.69	128.01	128.05	127.94	128.40	128.44	128.92	127.26
127.0	129.7	127.7	127.4	129.0	128.5	—	—	—	—	—	—	127.82
—	—	—	—	—	—	130.2	128.9	127.7	128.8	130.0	128.0	127.82
123.6	125.4	133.3	126.8	126.8	127.0	127.0	127.3	128.0	128.8	126.6	127.2	125.57
127.0	127.9	127.6	127.8	128.6	129.7	130.2	131.5	133.1	130.7	128.0	135.0	128.08
106.0	118.2	135.4	128.4	135.8	118.0	135.4	138.7	140.7	140.0	132.6	141.1	125.78
129.0	121.3	156.1	140.1	131.2	125.9	131.4	124.5	129.7	130.2	131.0	133.1	129.41
121.0	133.7	124.3	131.2	142.6	129.0	134.5	130.4	135.5	132.4	128.2	131.0	128.70
130.3	728.2	125.0	128.0	127.0	127.0	—	—	—	—	—	—	126.33
—	—	—	—	—	—	132.1	128.0	135.0	122.1	136.1	134.3	126.33
126.3	126.3	130.4	126.7	127.3	126.8	127.2	128.0	128.6	124.4	131.0	132.0	126.70
125.6	126.9	128.2	132.1	132.8	131.5	127.6	124.7	124.0	123.4	136.3	132.6	127.23
127.2	129.8	133.3	135.6	135.2	135.6	127.4	129.3	131.0	123.8	132.2	135.0	127.73
127.5	129.1	128.1	125.0	125.3	128.0	—	—	—	—	—	—	125.77
—	—	—	—	—	—	132.1	125.0	123.0	126.0	128.5	126.6	125.77
137.5	126.0	134.2	127.0	130.0	128.2	—	—	—	—	—	—	127.33
—	—	—	—	—	—	127.4	128.0	128.5	127.2	130.7	130.6	127.33
124.1	130.0	122.7	128.3	127.4	128.5	134.1	127.9	129.0	124.4	131.9	131.5	127.62
122.4	128.4	125.4	131.1	125.7	128.6	129.1	129.5	128.4	128.9	127.0	130.8	126.50
125.8	126.5	125.7	125.8	131.8	128.4	128.1	129.3	128.0	128.2	128.1	129.1	127.61
126.5	126.2	126.2	127.9	128.8	128.8	127.6	128.7	127.4	128.0	128.7	128.4	127.35
126.5	126.3	126.6	126.9	126.4	128.0	127.8	127.2	128.4	128.2	129.0	130.0	127.25
126.6	127.0	126.8	126.0	126.5	126.9	—	—	—	—	—	—	126.32
—	—	—	—	—	—	125.6	126.8	127.4	127.8	128.8	120.6	126.32
126.5	126.6	125.0	125.1	125.9	125.8	126.4	126.0	125.7	127.9	129.0	131.4	126.53
127.0	126.7	127.8	125.7	125.6	126.9	130.5	126.7	124.0	125.7	128.1	129.1	126.56
124.6	125.2	125.5	125.6	126.0	126.8	126.5	127.8	126.2	128.4	129.6	129.0	125.16
124.2	124.2	125.5	125.8	127.1	125.4	125.8	127.0	127.9	128.9	128.9	130.3	125.00
126.4	125.6	125.5	125.6	125.8	128.0	126.0	126.8	126.4	127.0	128.6	130.8	125.99
126.2	126.2	126.3	126.7	127.0	127.2	—	—	—	—	—	—	125.72
—	—	—	—	—	—	126.0	126.7	126.9	127.2	128.0	129.1	125.89
125.62	126.73	128.86	128.19	128.98	127.69	129.00	128.11	128.77	127.85	129.87	130.69	126.83

<sup>d</sup> Four minutes late.

<sup>e</sup> Good Friday.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
MAY.	1	131.3	131.2	132.0	128.8	120.7	116.9	113.9	116.8	115.4	118.3	121.5	124.8
	2	132.0	133.2	134.0	134.8	131.6	129.1	126.0	121.8	118.5	119.1	122.0	124.8
	3	133.1	134.0	133.0	130.1	125.3	120.1	116.7	115.9	116.1	118.6	120.5	122.0
	4	131.0	133.5	135.8	133.4	128.0	123.1	117.4	117.2	116.9	118.3	119.7	122.9
	5	131.0	132.0	133.1	134.0	130.8	125.6	121.1	118.1	118.2	119.2	121.4	123.9
	6	133.0	134.0	136.3	137.0	131.8	126.4	122.0	120.9	117.2	114.1	112.6	124.4
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	128.3	133.0	132.8	131.0	128.0	124.6	123.3	122.5	122.6	122.3	123.1	123.2
	9	126.0	129.7	130.0	130.0	125.0	124.0	119.3	120.0	117.3	119.0	124.1	122.0
	10	130.0	132.0	132.1	125.0	122.0	122.1	123.0	122.5	120.2	118.3	120.9	122.9
	11	130.2	129.4	129.0	127.5	126.0	124.4	120.2	118.9	119.2	121.1	123.0	124.0
	12	127.1	128.9	130.0	131.0	127.6	123.8	120.4	118.0	118.0	120.3	122.4	124.0
	13	133.0	132.6	131.8	128.6	125.0	122.6	119.3	118.2	120.0	120.4	122.0	123.4
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	129.0	135.0	138.1	139.1	136.0	128.5	121.0	119.0	118.9	113.7	115.0	119.6
	16	131.0	132.5	133.5	128.2	122.1	120.9	120.6	118.9	118.6	118.0	120.8	123.2
	17	128.2	129.1	131.9	129.1	128.0	125.5	122.2	121.5	121.5	121.3	121.8	122.9
	18	131.0	132.2	132.8	130.1	124.8	122.0	121.6	120.0	120.7	123.1	124.1	124.8
	19	129.1	132.0	132.0	132.2	129.8	126.1	121.4	119.8	119.4	120.2	123.1	125.4
	20	133.0	133.0	136.0	134.0	130.1	126.1	123.8	121.9	120.4	122.0	124.1	126.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	133.0	134.0	132.8	132.1	127.1	121.9	119.0	118.4	118.9	120.6	120.8	123.8
	23	130.8	130.6	128.6	125.5	121.1	116.9	115.0	115.4	117.4	120.9	123.3	124.5
	24	133.1	133.5	132.0	129.0	124.1	117.6	114.3	112.2	116.0	119.3	123.0	126.0
	25	132.1	133.2	134.6	132.9	125.6	117.0	113.1	112.8	115.5	119.4	124.2	126.9
	26	137.0	138.7	138.0	133.8	128.0	123.1	117.3	117.0	115.9	120.0	118.9	122.9
	27	133.6	134.1	134.0	130.4	128.0	121.6	118.3	115.9	117.4	120.2	123.9	125.2
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	134.0	136.1	138.3	135.0	126.9 <sup>a</sup>	120.3	114.1	117.2	117.2	120.0	123.5	129.1
	30	133.1	135.0	134.0	131.5	127.0 <sup>b</sup>	123.4	119.9	118.1	118.9	119.9	121.4	124.8
	31	133.2	133.0	133.9	130.0	124.8	120.0	116.5	114.1	116.4	119.7	122.6	125.2
Hourly Means	131.38	132.80	133.35	131.26	126.86	122.74	119.29	118.26	118.25	119.53	121.62	124.17	
JUNE.	1	137.0	136.1	134.0	130.6	127.0	122.1	118.8	118.8	120.2	122.6	124.8	127.5
	2	140.0	141.0	135.9	130.2	124.8	119.2	116.9	116.6	118.1	120.4	123.2	125.1
	3	136.1	137.0	137.0	131.0	123.0	118.4	120.2	118.6	118.8	120.9	122.6	123.5
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	131.6	132.3	131.0	127.1	122.1	120.8	119.3	118.1	118.9	118.7	119.1	121.6
	6	129.1	130.5	130.0	128.0	125.0	121.0	118.9	119.5	118.5	119.5	121.1	120.7
	7	131.0	132.4	132.7	126.2	125.2	121.3	120.3	116.4	116.3	117.4	125.3	125.0
	8	132.0	132.0	130.2	126.7	123.5	119.6	119.0	120.2	119.6	122.0	123.8	128.4
	9	132.0	131.2	129.0	127.9	125.2	123.0	121.0	119.6	119.9	121.2	123.8	125.0
	10	133.3	139.5	132.6	131.3	126.3	122.3	121.2	119.3	121.3	116.5	124.0	126.0
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	134.0	136.5	136.0	132.8	126.0	122.3	118.6	118.8	122.8	122.2	125.4	125.4
	13	127.0	131.3	129.2	126.1	126.2	124.0 <sup>b</sup>	115.0	120.2	117.0	117.5	122.4	125.5
	14	129.0	130.9	133.0	134.0	127.7	128.3	120.9	120.0	118.9	119.0	120.0	121.1
	15	127.0	130.0	130.1	130.0	126.4	121.5	119.0	117.8	118.7	118.6	119.3	122.2
	16	133.7	134.6	133.3	131.1	127.0	124.1	122.1	120.3	120.0	121.0	123.8	125.4
	17	131.9	132.9	130.8	126.3	123.0	122.1	118.6	118.1	119.0	118.5	121.2	123.2
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	131.0	132.5	132.0	131.3	130.2	126.0	123.2	119.3	117.2	116.9	117.9	119.8
	20	132.7	134.6	133.2	129.1	127.3	122.5	119.0	116.7	117.0	117.9	120.2	122.0
	21	132.4	133.5	134.0	133.0	127.0	123.0	117.0	115.0	115.8	117.4	118.9	120.9
	22	130.0	130.8	131.1	130.0	127.6	124.2	121.0	118.0	117.5	118.1	119.8	120.9
	23	131.0	133.0	131.0	129.2	125.0	121.0	116.3	113.5	114.9	117.8	119.9	121.4
	24	134.0	137.0	137.4	135.0	131.0	124.0	119.4	117.6	117.4	119.9	122.9	125.6
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	139.5	141.0	140.0	137.0	132.0	125.2	121.0	119.1	120.0	119.5	120.0	121.0
	27	134.0	135.0	132.0	129.0	126.0	123.0	120.2	119.7	119.5	120.4	122.2	122.4
	28	131.8	132.7	130.2	129.0	125.1	124.2	119.0	119.8	120.2	121.7	122.0	123.7
	29	134.0	134.4	131.2	128.1	126.5	123.0	117.5	117.9	119.1	122.1	124.5	125.1
	30	132.0	134.3	135.4	136.2	131.2	123.7	118.9	117.0	117.6	118.4	121.2	122.5
Hourly Means	132.58	134.12	132.78	130.24	126.43	122.68	119.32	118.32	118.62	119.46	121.90	123.50	

<sup>a</sup> Three minutes late.<sup>b</sup> Five minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
125.2	125.8	125.3	130.0	128.8	125.2	126.0	126.5	126.8	127.0	127.8	130.8	124.87
126.0	126.6	126.7	127.0	126.9	127.2	126.8	126.5	127.2	128.5	128.2	130.9	127.31
124.6	125.5	126.2	126.0	126.6	127.0	126.3	126.9	127.1	127.9	128.3	131.1	125.37
124.2	124.7	127.0	126.8	126.5	126.0	126.9	126.8	126.5	127.0	126.5	127.0	125.64
125.2	126.0	125.7	125.8	126.2	126.6	127.0	127.0	127.7	128.0	127.6	128.9	126.25
124.9	110.3	114.0	122.1	142.0	148.3	—	—	—	—	—	—	—
—	—	—	—	—	—	123.4	130.0	126.5	125.4	122.0	127.0	126.07
130.8	131.0	128.8	127.5	126.4	130.6	123.3	126.2	128.0	127.5	128.0	128.0	127.12
123.2	124.0	125.4	124.8	124.4	128.0	128.7	128.5	128.0	126.7	127.2	130.0	125.22
130.4	123.0	125.2	134.1	125.5	127.4	128.1	120.3	127.0	129.9	128.5	131.0	125.89
124.5	127.2	126.5	126.3	126.1	124.2	124.5	126.0	126.0	127.0	124.8	128.0	125.17
125.6	125.2	132.0	130.0	135.2	135.1	129.0	129.5	128.1	128.0	128.0	131.6	127.03
125.1	124.8	124.0	128.0	125.9	127.0	—	—	—	—	—	—	126.05
—	—	—	—	—	—	129.3	128.8	129.0	127.3	129.0	130.0	—
123.2	127.0	127.0	134.7	141.1	130.3	133.6	130.0	131.9	128.0	122.5	121.9	127.67
126.0	125.2	128.0	127.3	124.9	126.3	131.1	119.6	124.6	125.3	125.8	127.3	124.99
129.8	130.1	127.5	127.6	127.0	130.0	125.4	127.2	124.8	124.2	123.7	125.0	126.05
125.0	126.0	126.0	125.8	125.4	126.0	127.6	128.0	128.6	127.0	127.0	128.9	126.19
126.2	128.1	125.8	126.1	129.0	123.2	124.0	126.0	126.5	125.2	126.8	120.3	125.74
126.9	125.5	125.8	125.2	125.0	125.0	—	—	—	—	—	—	—
—	—	—	—	—	—	126.0	126.4	126.9	127.2	129.7	131.2	127.13
124.3	124.6	125.9	127.0	126.2	126.4	127.1	128.0	128.5	128.2	129.4	130.7	126.19
124.9	124.0	123.0	126.2	125.2	124.8	125.4	125.4	126.0	127.5	128.0	130.5	124.22
127.0	127.4	125.1	124.2	124.1	124.5	124.8	124.8	125.0	127.4	128.7	130.6	124.74
126.2	125.7	125.2	125.0	124.9	125.0	125.4	126.1	126.8	126.5	126.2	132.0	125.10
123.9	124.0	124.2	123.0	121.3	124.8	124.0	125.3	127.1	128.1	130.1	131.2	125.74
126.4	125.8	132.4	124.3	124.2	124.7	—	—	—	—	—	—	—
—	—	—	—	—	—	125.0	125.4	126.0	126.0	128.0	131.7	125.94
126.9	127.0	126.7	125.6	126.8	126.8	135.9	127.7	119.9	122.3	127.9	130.7	126.50
126.4	127.0	125.8	125.6	126.6	129.7	125.9	127.0	126.0	126.2	127.2	130.0	126.27
126.2	126.1	125.8	125.0	126.0	125.4	126.0	126.2	124.4	126.2	128.6	135.0	125.43
125.89	125.47	125.96	126.70	127.36	127.61	126.91	126.52	126.70	126.85	127.26	129.39	125.92
128.0	126.2	125.5	125.0	125.5	126.0	127.1	127.1	125.8	127.6	127.2	135.0	126.90
126.5	124.5	124.5	122.1	123.7	124.2	128.0	126.0	127.2	140.0	137.7	135.8	127.15
124.8	134.8	125.2	128.9 <sup>a</sup>	119.2	124.0	—	—	—	—	—	—	125.70
—	—	—	—	—	—	125.6	122.2	122.4	126.1	127.4	129.2	129.2
125.6	127.6	123.6	123.3	125.4	130.1	124.6	124.5	124.0	126.0	127.0	128.0	124.60
122.8	126.1	129.8	127.4	128.0	126.0	123.7	126.0	125.5	125.0	127.9	129.0	124.97
123.9	123.2	125.5	142.8	132.5	126.7	124.8	128.3	131.4	123.4	128.0	130.5	126.27
126.4	125.0	125.0	125.0	126.9	127.0	125.4	124.5	124.0	126.9	127.4	129.7	125.42
124.2	123.9	123.0	123.0	123.5	124.2	124.5	127.4	128.0	130.1	133.1	126.2	125.41
125.0	126.5	130.7	131.6	130.4	128.5	—	—	—	—	—	—	—
—	—	—	—	—	—	125.1	121.6	123.5	122.5	123.2	115.4	125.73
126.0	126.2	121.1	130.7	131.9 <sup>a</sup>	125.9	122.4	126.1	125.5	125.0	125.5	129.0	126.50
123.8	125.7	130.4	127.2	128.5	128.0	127.0	123.8	124.5	123.6	124.1	127.0	124.71
122.4	123.8	123.8	124.0	124.0	125.9	130.1	130.0	127.0	125.4	126.5	126.8	125.52
123.2	124.2	123.8	124.6	124.2	124.0	124.0	122.0	125.1	125.8	126.2	131.0	124.11
126.0	126.4	123.4	123.0	124.2	124.5	124.2	124.7	124.1	125.7	127.2	130.0	125.82
124.0	124.0	123.8	123.6	124.0	124.4	—	—	—	—	—	—	—
—	—	—	—	—	—	124.8	125.2	126.0	125.5	125.0	129.3	124.38
122.7	127.0	125.2	126.0	125.5	123.9	125.2	125.6	126.2	127.0	127.2	129.3	125.34
123.8	125.5	124.0	125.0	127.0	125.2	125.4	125.1	123.0	125.0	127.2	130.7	124.96
123.2	122.4	122.8	127.0	126.0	125.2	126.9	125.5	125.0	126.5	127.2	129.6	124.80
122.5	123.2	121.2	123.0	133.1	130.0	129.5	125.0	124.8	124.4	127.0	128.9	125.08
122.5	123.2	125.5	124.2	124.0	125.6	126.0	125.9	126.5	127.8	129.0	131.0	124.38
125.9	126.0	125.0	126.0	125.0	126.2	—	—	—	—	—	—	—
—	—	—	—	—	—	128.8	127.6	128.0	129.2	131.0	125.0	126.87
122.6	123.0	123.0	124.0	124.3	124.7	125.4	126.0	127.0	128.6	129.9	131.5	126.89
123.1	122.8	122.9	123.8	123.0	123.0	128.8	127.0	127.0	128.5	128.2	130.0	125.48
124.1	124.1	124.1	124.5	126.0	128.2	129.8	126.0	123.6	129.3	127.1	131.4	125.73
123.5	122.0	126.3	127.2	125.6	125.6	127.0	127.7	125.8	126.7	128.5	131.0	125.85
125.0	124.2	126.2	128.8	131.4	132.0	134.0	143.5	130.1	131.4	131.2	136.5	128.45
124.29	125.06	124.82	126.22	126.26	126.12	126.47	126.32	125.81	127.04	127.96	129.49	125.66

<sup>a</sup> Four minutes late.



## TORONTO, 1843. MAGNETICAL OBSERVATIONS.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JULY.	1	137.0	138.2	134.0	132.1	127.8	124.0	120.2	115.2	117.2	120.0	122.4	124.0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	136.0	134.0	134.0	134.9	131.2	126.2	120.1	117.8	119.2	120.9	120.9	122.7
	4	131.4	131.8	129.7	130.1	128.0	127.0	121.7	119.3	117.8	119.7	119.1	120.2
	5	130.2	130.9	130.7	129.8	128.6	126.3	124.2	122.7	122.2	121.9	122.2	123.6
	6	130.0	130.9	130.1	130.0	127.8	125.0	122.0	119.9	120.3	119.8	121.1	122.2
	7	130.0	132.0	132.7	132.5	127.9	123.3	119.1	120.0	119.3	117.2	115.8	121.1
	8	133.4	138.1	138.7	136.5	126.1	119.7	117.2	116.3	119.7	123.6	126.5	127.2
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	127.5	132.1	125.2	125.2	120.5	114.2	114.8	110.9	114.0	119.5	122.0	124.0
	11	131.0	131.5	130.7	130.1	126.2	123.1	121.1	120.0	119.2	119.1	118.4	122.8
	12	129.1	130.9	130.7	127.2	124.0	120.4	119.0	119.4	121.0	120.0	121.8	125.3
	13	128.2	135.6	135.2	134.0	130.9	126.0	123.3	121.6	120.2	120.5	120.2	125.2
	14	130.7	127.8	130.0	135.5	131.5	124.2	118.7	115.0	115.2	117.0	118.2	119.8
	15	132.9	130.7	129.7	134.6	130.9	127.3	124.2	121.4	117.3	117.0	118.8	122.1
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	132.0	135.0	131.9	128.9	126.1	121.9	121.0	119.4	119.5	119.5	121.0	123.0
	18	131.6	130.8	130.7	127.6	124.9	120.4	117.3	115.5	117.3	121.6	122.5	124.8
	19	130.8	132.9	134.6	132.1	128.0	124.0	119.2	116.9	117.0	119.4	121.0	123.7
	20	131.2	131.3	131.9	130.2	126.8	122.5	118.2	116.2	116.8	118.8	122.0	124.6
	21	129.3	130.5	134.0	131.0	126.5	122.0	117.4	113.3	113.5	114.8	120.9	124.8
	22	136.0	139.6	137.5	132.7	124.9	120.0	115.8	115.2	116.8	118.2	120.3	122.1
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	134.9	135.0	135.7	133.1	128.4	124.0	125.8	123.0	116.6	113.6	108.9	123.1
	25	114.2	113.2	119.9	109.5	111.6	115.6	109.8	101.7	108.0	105.6	110.4	106.9
	26	138.8	139.2	138.0	130.2	126.0	121.4	116.3	118.0	118.9	122.9	124.2	124.5
	27	134.2	137.1	134.0	127.1	121.5	118.1	116.8	114.8	118.2	120.8	120.0	124.2
	28	132.0	134.1	130.1	129.0	123.9	119.5	113.0	110.2	112.9	116.8	122.0	128.1
	29	134.6	136.8	134.5	132.5	127.0	122.4	118.0	114.0	115.2	115.5	120.2	120.8
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	129.0	132.0	134.0	130.9	125.3	122.1	117.1	113.8	116.8	112.3	116.1	121.0
Hourly Means	131.38	132.77	132.24	130.28	126.24	122.33	118.90	116.60	117.31	118.31	119.88	122.76	
AUGUST.	1	134.0	135.0	136.8	134.0	129.8	125.1	119.8	116.8	116.2	119.0	122.7	124.8
	2	130.0	133.0	130.6	126.1	122.0	119.0	116.8	118.5	120.2	121.6	123.2	123.8
	3	130.8	132.1	133.0	131.0	128.0	120.0	118.2	116.4	119.7	121.0	124.9	127.1
	4	139.1	133.9	131.1	126.0	124.9	118.5	110.2	117.2	118.1	119.2 <sup>a</sup>	123.3	122.8
	5	132.0	132.5	133.0	130.0	124.0	121.4	121.1	120.9	121.0	120.2	121.6	122.8
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	132.5	134.0	132.0	127.0	121.1	120.2	119.6	117.0	117.2	120.5	120.3	123.2
	8	135.0	139.8	135.9	129.9	119.8	118.7	112.2	116.6	114.8	117.6	122.6	124.3
	9	131.0	136.9	132.8	129.7	124.2	121.2	117.5	115.7	115.8	119.8	122.8	125.9
	10	131.0	134.0	134.4	130.0	121.9	115.5	116.4	114.6	117.1	121.4	123.7	124.7
	11	136.6	135.8	132.9	128.0	122.0	119.4	113.5	113.6	117.3	120.2	124.0	129.2
	12	134.0	130.0	132.6	131.4	127.0	123.9	119.0	116.5	118.4	120.5	123.2	123.9
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	130.3	132.0	133.9	128.0	123.0	118.0	116.0	115.6	115.8	119.6	121.0	122.8
	15	132.1	134.0	135.8	132.2	129.0	123.8	120.2	118.9	119.5	121.0	122.1	123.7
	16	128.9	132.0	132.1	131.0	128.0	122.0	116.7	115.2	114.9	118.3	120.6	122.0
	17	129.5	131.1	133.0	130.8	126.2	119.0	114.0	112.6	114.5	117.8	122.6	125.7
	18	130.2	133.7	133.0	129.2	126.0	120.5	117.8	115.3	117.2	121.0	123.2	125.1
	19	133.0	136.6	136.1	130.4	124.0	120.6	119.2	118.5	119.9	121.7	123.5	125.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	130.0	136.0	133.8	130.0	124.0	118.9	115.5	114.9	117.2	121.0	123.2	125.4
	22	130.0	131.9	128.1	130.8	123.0	125.5	114.2	113.8	108.1	112.8	114.7	121.8
	23	132.2	132.0	133.4	130.6	125.8	125.0	122.0	117.6	120.2	122.1	123.5	128.6
	24	128.4	133.0	133.0	131.6	126.3	123.8	119.2	116.0	118.5	121.2	122.5	122.3
	25	132.0	134.0	131.8	131.1	124.0	117.7	111.9	108.1	109.7	115.5	122.2	124.7
	26	129.1	133.5	133.8	130.9	124.0	118.9	112.8	112.4	115.0	118.8	123.0	124.8
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	131.2	136.4	136.1	134.2	128.8	123.8	118.6	115.7	114.8	117.2	121.0	123.2
	29	131.0	134.0	134.9	132.0	127.7	122.6	117.9	114.8	114.8	117.4	120.6	123.0
	30	129.1	131.0	131.3	132.6	127.0	124.9	121.7	118.3	117.4	118.8	120.5	122.7
	31	125.0	131.3	131.5	130.0	123.3	120.2	117.8	117.0	117.5	120.1	121.8	123.0
Hourly Means	131.41	133.69	133.21	130.31	124.99	121.04	117.03	115.87	116.70	119.46	122.16	124.31	

<sup>a</sup> Five minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div. 123.8	Sc. Div. 124.8	Sc. Div. 124.1	Sc. Div. 139.2	Sc. Div. 126.0	Sc. Div. 126.5	—	—	—	—	—	—	—
—	—	—	—	—	—	132.8	125.0	124.7	126.9	131.8	132.1	127.08
123.1	124.2	123.5	128.2	126.4	122.8	129.0	128.2	123.5	126.2	127.2	124.0	126.01
120.5	121.2	128.4	127.8	126.2	119.2	133.5	129.0	126.6	127.2	128.0	129.2	125.53
123.8	124.0	122.9	124.2	124.8	125.4	125.4	126.0	128.8	124.4	127.2	128.0	125.78
123.8	123.2	123.7	125.7	125.0	124.8	125.2	125.8	126.0	126.5	128.8	129.0	125.27
113.9	113.8	121.4	137.0	127.8	128.6	136.0	134.4	139.8	123.0	124.2	130.7	125.90
126.8	127.2	126.0	122.0	124.2	125.6	—	—	—	—	—	—	126.10
—	—	—	—	—	—	125.5	124.2	121.6	123.6	125.7	121.0	125.66
127.0	132.8	125.6	123.0	124.0	125.1	126.4	128.6	120.2	129.4	127.8	123.1	123.45
140.1	125.0	125.0	126.3	124.8	124.5	125.0	126.2	126.2	125.7	127.6	127.1	125.70
128.2	127.2	123.8	126.0	125.5	124.2	125.0	125.4	125.8	125.5	126.2	127.2	124.95
124.8	124.6	124.4	125.0	138.6	135.4	133.0	126.8	126.4	126.2	126.4	121.8	127.26
121.8	123.3	122.0	123.3	128.8	133.6	128.5	124.7	126.1	126.9	124.6	130.4	124.90
126.3	127.2	126.4	126.0	127.0	127.4	—	—	—	—	—	—	125.85
—	—	—	—	—	—	125.8	125.0	126.2	124.0	122.5	129.8	125.45
124.0	123.8	124.0	124.7	127.1	128.8	126.0	126.0	125.7	125.8	126.9	128.8	124.98
126.9	125.4	124.5	124.2	124.0	128.1	129.0	125.8	126.0	125.2	126.5	129.0	125.43
125.8	125.9	125.1	125.5	126.5	127.5	125.6	125.0	125.0	124.0	125.7	129.1	125.26
126.2	126.0	124.2	123.8	123.0	124.6	127.0	131.7	127.0	126.2	127.0	129.0	125.86
126.2	125.8	124.9	127.0	124.0	128.2	126.0	128.6	131.7	134.2	131.1	135.0	125.43
124.7	123.2	129.5	123.4	123.6	125.0	—	—	—	—	—	—	126.36
—	—	—	—	—	—	124.3	125.0	126.0	127.8	127.7	131.0	118.10
123.2	123.2	123.2	125.1	123.2	122.8	123.4	126.0	130.5	136.4	141.4	132.2	127.13
116.1	121.1	127.0	126.0	142.8	123.5	123.2	123.5	124.8	126.8	129.1	124.0	124.83
130.0	128.0	124.0	122.4	122.9	123.2	127.7	132.3	132.2	130.0	131.0	129.0	124.42
125.2	128.5	123.3	133.0	126.2	122.9	123.1	119.5	122.6	126.6	128.2	130.0	126.00
124.8	123.7	122.4	123.8	134.0	127.0	129.6	126.0	126.0	125.4	127.8	124.0	123.64
137.4	127.4	124.2	126.9	123.5	127.0	—	—	—	—	—	—	—
—	—	—	—	—	—	132.3	132.0	128.4	124.9	123.5	125.1	—
123.2	123.5	123.2	126.3	124.5	123.0	125.0	125.2	123.2	125.3	126.0	129.0	125.24
124.52	124.77	124.49	126.38	126.71	126.72	127.43	126.77	126.58	126.70	127.71	128.02	—
124.0	125.2	122.0	122.8	123.9	124.0	125.6	126.8	127.0	126.1	126.9	128.0	125.68
124.7	123.8	124.9	123.2	123.2	128.0	127.1	132.3	130.5	128.5	130.0	132.1	125.55
126.5	126.0	127.2	133.4	127.5	127.8	123.5	119.3	128.5	131.2	130.8	136.0	126.66
133.2	134.0	122.3	123.0	123.0	124.1	126.0	126.0	118.8	120.0	130.0	124.1	124.50
123.9	123.0	123.8	124.1	124.0	133.3	—	—	—	—	—	—	125.07
—	—	—	—	—	—	125.4	126.0	124.2	124.4	122.0	127.0	124.47
123.0	123.2	121.8	125.5	126.7	127.0	127.2	124.5	123.8	124.0	123.0	133.0	125.93
125.7	128.1	146.3	127.3	127.7	121.5	120.5	130.4	127.6	126.0	127.8	126.2	124.57
129.0	128.1	123.9	123.0	122.5	121.5	123.2	123.4	125.5	127.0	120.0	129.3 <sup>b</sup>	124.08
124.8	123.5	122.0	123.2	122.5	123.0	124.1	124.0	127.0	127.0	121.1	131.0	124.85
126.8	125.5	123.3	125.3	125.0	125.2	124.0	126.0	127.6	125.4	128.7	121.0	125.68
125.0	125.7	132.1	126.0	124.4	125.0	—	—	—	—	—	—	124.09
—	—	—	—	—	—	124.5	124.0	127.0	126.2	126.9	129.0	125.84
124.2	124.4	123.0	123.8	123.8	124.7	125.0	128.1	126.0	121.2	128.7	129.3	124.05
123.9	124.7	126.2	131.4	124.0	125.0	124.2	125.2	125.7	124.0	126.3	127.2	124.37
122.8	124.0	123.2	124.5	126.1	124.9	124.7	120.2	126.0	127.0	127.0	125.1	124.95
125.5	125.4	124.8	124.0	124.3	123.8	128.1	127.0	125.5	126.2	126.5	127.0	125.18
126.0	126.0	124.5	123.8	123.0	125.2	126.0	125.0	124.8	125.9	126.3	130.0	125.68
125.0	125.0	128.5	124.8	124.0	124.4	—	—	—	—	—	—	123.80
—	—	—	—	—	—	125.0	124.8	125.2	124.5	127.0	132.0	126.22
124.3	123.0	123.0	124.0	125.4	125.0	125.5	127.2	129.3	132.3	137.5	130.0	125.07
123.0	124.1	129.2	130.6	127.0	128.4	125.4	125.0	129.1	122.6	126.1	126.0	123.46
124.9	131.1	128.9	130.6	130.8	129.9	124.1	122.7	123.2	121.1	119.8	129.4	124.51
123.3	125.0	124.2	123.8	123.0	127.6	125.0	124.8	125.6	127.7	127.0	128.9	125.22
125.2	123.9	124.0	130.2	135.0	122.0	123.4	118.7	117.4	126.2	127.0	127.3	125.07
134.1	128.2	126.8	126.9	124.2	124.0	—	—	—	—	—	—	123.80
—	—	—	—	—	—	123.5	122.8	124.0	124.2	125.5	127.0	124.29
124.5	123.8	127.6	125.4	127.8	122.2	124.0	124.0	124.7	125.2	126.9	128.3	125.10
123.8	123.0	123.1	123.5	123.9	125.1	124.0	125.8	125.0	126.8 <sup>c</sup>	127.0	127.6	125.22
123.9	123.2	122.7	122.5	122.0	125.3	125.0	125.4	126.0	125.6	126.0	120.0	124.55
123.8	123.5	123.2	122.8	127.2	126.6	125.0	132.8	131.7	129.9	126.9	130.6	124.29
125.36	125.35	125.65	125.50	125.25	125.35	124.78	125.27	125.80	125.79	126.62	128.24	125.10

<sup>b</sup> Eight minutes late.

<sup>c</sup> Two minutes late.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.	1	133.0	133.1	132.1	130.9	119.7	115.9	105.0	116.6	119.8	115.0	120.2	123.8
	2	132.0	137.0	129.3	126.0	121.0	117.6	116.2	117.3	119.1	122.1	128.5	124.7
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	130.0	131.0	129.0	130.0	124.2	121.7	118.1	118.5	118.8	121.8	121.5	122.2
	5	128.0	128.0	130.0	126.6	118.4	116.0	112.8	115.1	118.4	121.3	128.0	125.3
	6	132.0	135.1	133.0	128.2	123.7	119.2	116.1	115.0	116.2	119.9	122.5	124.0
	7	129.3	131.2	131.2	127.4	123.2	118.3	116.7	114.3	116.2	120.6	122.6	125.2
	8	129.0	125.0	124.8	126.1	122.0	117.2	115.1	117.1	120.2	122.1	124.2	125.1
	9	134.0	136.8	132.8	129.4	121.9	116.8	110.6	113.1	116.0	116.0	120.0	121.8
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	125.0	134.0	132.0	128.2	125.0	119.0	117.3	118.8	120.4	122.8	125.2	123.9
	12	131.6	133.0	131.3	129.7	125.6	120.0	118.7	118.2	119.9	120.5	122.9	122.4
	13	132.0	133.0	132.4	131.3	124.7 <sup>a</sup>	118.1	114.0	115.0	118.2	121.2	123.9	123.9
	14	128.5	131.9	130.0	128.0	120.8 <sup>b</sup>	116.3 <sup>b</sup>	113.9	114.6	115.8	118.8	121.3	124.2
	15	126.4	129.5	128.8	125.8	118.5	117.9	116.0	117.8	119.8	122.2	123.7	123.2
	16	130.5	132.0	130.9	125.2	121.4	118.1	116.0	116.4	119.2	123.2	125.6	125.3
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	131.0	131.0	134.5	126.4	123.2	122.6	118.2	114.1	115.8	117.0	116.7	122.2
	19	127.0	129.4	128.8	129.0	125.1	120.7	119.2	118.2	116.0	115.0	117.8	126.7
	20	129.0	132.1	131.8	128.6	124.1	122.1	120.9	117.2	117.9	118.7	117.9	123.8
	21	129.2	133.8	132.0	130.3	126.3	121.4	114.6	114.6	116.9	119.0	122.0	120.8
	22	134.0	131.8	132.0	120.7	119.0	118.9	115.1	115.8	118.3	120.8	122.0	124.1
	23	129.0	122.5	126.0	126.2	120.7	117.5	116.0	115.1	117.9	121.0	123.9	126.9
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	128.0	132.0	132.2	129.0	122.0	118.3	115.0	112.7	115.0	118.2	121.5	123.0
	26	127.9	133.6	134.1	131.0	126.0	121.8	116.0	116.5	117.8 <sup>d</sup>	118.6	120.8	122.8
	27	129.0	131.0	132.2	131.8	128.0	123.0	120.0	119.8	120.2	120.5	122.0	122.0
	28	119.9	129.8	127.1	124.0	128.0	124.0	122.0	122.0	122.0	122.5	123.6	124.5
	29	127.2	130.4	132.0	131.0	129.2	126.0	122.2	118.1	117.2	118.8	119.8	122.1
	30	122.2	128.0	127.6	121.9	126.2	125.7	117.4	116.6	116.9	118.5	120.6	121.2
	31	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	129.03	131.38	130.69	127.80	123.38	119.77	116.27	116.48	118.07	119.85	122.37	123.63
OCTOBER.	2	125.6	127.2	126.8	125.2	124.4	123.1	122.0	120.2	121.4	122.4	123.3	124.2
	3	124.6	131.0	131.0	128.1	125.1	123.4	122.1	122.0	122.2	123.3	123.9	124.5
	4	127.2	128.7	130.0	126.8	125.9	123.7	121.2	123.0	122.9	123.2	124.6	125.2
	5	128.0	131.8	129.2	128.6	123.8	118.9	114.0	116.0	116.1	119.5	122.2	124.7
	6	127.6	127.8	129.7	129.5	125.0	120.5	115.5	116.1	118.9	121.5	123.5	126.2
	7	126.0	128.4	132.0	131.0	125.0	120.7	117.0	117.5	119.1	121.5	124.0	124.8
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	128.0	130.6	132.6	133.0	130.9	126.0	119.9	118.3	118.1	120.3	123.0	124.2
	10	130.0	133.1	132.0	130.5	126.1	122.0	118.9	118.6	117.8	118.5	119.2	120.1
	11	126.5	129.0	130.4	131.0	128.4	122.8	120.8	119.3	118.9	118.9	121.0	123.0
	12	125.1	126.0	126.0	131.0	128.0	124.8	121.1	119.1	117.9	117.9	120.3	121.2
	13	123.0	128.4	129.0	128.0	125.0	124.8	120.2	120.0	119.0	119.5	122.5	124.1
	14	129.1	129.9	131.1	131.8	128.0	126.1	122.6	119.1	117.2	119.0	119.7	118.0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	110.0	128.5	130.1	130.4	128.2	125.9	123.5	120.6	122.0	117.6	116.2	124.4
	17	127.7	126.0	113.5	124.5	121.0	119.3	120.1	125.1	122.7	123.0	124.2	124.0
	18	128.0	128.0	128.3	127.2	126.9	126.2	123.2	121.5	120.5	123.0	124.2	124.3
	19	126.7	128.1	129.8	128.7	126.1	124.1	123.9	122.8	122.5	122.8	124.0	124.5
	20	128.4	128.9	129.2	128.9	127.4	125.4	123.3	120.9	120.8	121.5	123.4	124.0
	21	126.0	127.0	128.0	127.0	126.1	123.9	121.6	121.2	121.9	123.1	124.2	124.5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	127.5	128.8	129.0	128.2	126.3	123.0	120.5	120.7	122.4	125.0 <sup>e</sup>	126.0	125.3
	24	128.4	126.9	126.9	126.0	124.5	122.1	121.5	121.1	121.9	123.5	124.1	124.5
	25	129.3	131.1	130.9	129.5	124.0	119.6	119.6	119.5	121.2	122.4	124.0	125.0
	26	115.2	125.1	128.8	135.0	124.1	122.8	119.2	114.9	119.0	122.9	116.2	123.4
	27	125.8	119.1	128.5	132.0	127.3	122.1 <sup>f</sup>	120.0	119.9	121.2	122.0	123.5	124.7
	28	124.9	127.1	130.0	130.8	130.3	125.2	124.0	119.9	120.0	121.8	123.6	123.9
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	126.2	128.0	128.0	126.7	127.1	121.0	121.9 <sup>g</sup>	121.2	119.8	117.9	121.0	124.0
	31	124.2	127.1	129.1	130.2	127.2	125.0	122.0	122.8	122.2	123.4	124.2	124.5
	Hourly Means	125.73	128.14	128.84	129.22	126.70	123.17	120.75	120.05	120.29	121.36	122.54	123.89

<sup>a</sup> Three minutes late.

<sup>b</sup> Five minutes late.

<sup>c</sup> Seven minutes late.

<sup>d</sup> Twelve minutes late.

DECLINATION.														
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.														
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.		
Sc. Div. 125.4	Sc. Div. 124.0	Sc. Div. 127.2	Sc. Div. 133.0	Sc. Div. 129.2	Sc. Div. 128.5	Sc. Div. 128.8	Sc. Div. 125.5	Sc. Div. 124.8	Sc. Div. 123.5	Sc. Div. 123.0	Sc. Div. 112.7	Sc. Div. 123.78	124.78	
120.8	122.4	125.8	125.0	123.2	124.0	—	—	—	—	—	127.1	124.54		
—	—	—	—	—	—	124.8	125.7	126.0	126.4	127.0	127.0	125.41	124.73	
120.5	122.7	127.1	129.8	125.9	127.0	133.0	135.2	130.5	125.6	122.5	123.2	126.73		
126.2	125.0	129.9	133.7	130.3	128.8	126.0	139.7	127.5	134.0	137.5	135.0	124.77	124.25	
124.2	123.8	124.8	133.9	128.7	127.1	125.6	124.2	120.0	123.5	126.8	127.0	124.21		
125.1	124.8	125.4	124.6	124.2	125.2	126.0	128.2	124.8	123.0	126.5	128.1	124.21	124.88	
126.1	126.0	125.4	126.4	122.2	119.2	125.0	132.8	126.7	125.5	125.8	132.0	124.21		
123.9	124.0	124.0	124.2	124.8	124.6	—	—	—	—	—	—	124.88	124.49	
—	—	—	—	—	—	135.0	133.2	130.4	132.0	120.8	131.0	126.0		
123.9	123.9	124.2	123.8	124.0	124.6	132.1	121.2	125.3	125.0	122.2	126.8	120.0	125.63	124.30
125.2	124.8	126.5	125.2	127.3	139.2	126.3	128.0	125.0	127.0	126.8	120.0	125.0	124.12	
123.6	124.3	123.9	124.0	125.8	123.8	123.4	123.8	124.0	124.5	125.0	125.0	123.21	123.76	
124.2	123.0	123.2	128.2	127.0	125.0	122.8	123.3	123.0	124.0	124.2	125.0	123.21		
122.8	126.8	123.6	123.7	123.2	124.0	123.2	126.0	125.8	125.7	128.0	127.8	123.76	124.72	
123.0	122.4	123.1	123.2	119.4	119.6	—	—	—	—	—	—	124.72		
—	—	—	—	—	—	126.4	126.6	129.2	131.0	136.6	129.0	123.85	122.76	
120.0	126.1	118.5	127.0	122.7	125.0	128.0	131.2	127.0	129.8	120.3	124.0	122.76		
121.5	122.2	124.0	123.9	123.8	125.2	124.0	122.2	120.0	117.5	125.2	124.6	124.04	125.74	
123.4	122.6	121.2	134.6	123.7	123.5	116.7	130.2	125.0	124.4	131.0	116.5	125.74		
124.5	128.0	127.2	124.0	134.7	124.0	136.0	129.5	125.5	121.8	128.7	132.9	124.37	123.18	
133.4	123.6	124.6	125.0	126.0	124.5	126.2	124.5	127.2	125.4	126.0	126.0	124.37		
125.0	124.1	123.5	125.0	124.2	123.0	—	—	—	—	—	—	123.18	123.75	
—	—	—	—	—	—	122.3	122.4	126.8	126.8	124.9	125.6	123.75		
123.0	123.2	125.4	125.5	123.9	125.9	126.0	125.5	125.0	126.2	126.5	127.0	124.65	126.21	
124.0	124.0	126.5	129.5	127.1	125.0	124.0	123.9	124.7	125.0	125.0	126.0	126.21		
123.0	122.4	130.3	127.6	134.0	128.2	128.8	122.5	130.3	130.5	124.0	128.0	125.20	125.59	
124.4	127.0	126.9	132.4	126.1	125.7	125.2	126.0	125.2	124.9	125.7	126.0	125.59		
124.0	123.2	133.2	127.5	130.0	128.0	125.0	121.0	125.4	128.7	127.8	126.4	124.35	127.4	
125.5	125.0	126.6	133.0	127.1	120.5	—	—	—	—	—	—	124.35		
—	—	—	—	—	—	125.4	127.0	130.5	126.4	127.2	127.4	124.55	124.55	
127.2	125.8	123.5	124.2	125.0	124.8	126.0	132.8	138.6	138.8	129.8	116.1	125.77	125.41	
125.9	125.0	123.8	123.5	123.0	127.8	123.2	125.0	127.1	127.0	127.0	130.3	125.41		
124.5	125.7	124.5	139.5	125.2	125.7	130.2	128.4	127.2	130.5	130.8	128.0	126.78	124.64	
125.5	126.0	129.1	133.6	127.2	127.5	126.0	124.2	125.0	124.2	124.8	125.4	124.64		
124.0	126.5	124.4	126.0	124.0	123.8	121.4	126.0	125.5	125.5	125.0	126.1	124.17	124.41	
124.1	124.1	124.0	124.0	124.2	124.8	—	—	—	—	—	—	124.41		
—	—	—	—	—	—	125.6	127.9	126.2	120.4	126.1	127.4	125.33	124.88	
124.5	124.2	124.2	124.0	124.6	124.9	124.4	124.4	127.2	124.8	127.8	128.0	125.33		
122.6	125.1	125.2	125.0	126.2	126.1	124.3	124.0	125.5	125.2	125.0	126.1	124.88	124.58	
124.0	124.3	124.8	124.4	124.7	126.5	125.5	125.8	125.0	124.8	125.2	125.0	124.58		
124.0	124.2	125.3	134.2	125.8	126.1	127.6	131.2	126.6	127.0	126.2	120.0	124.86	124.35	
124.1	123.2	124.0	124.0	128.1	126.0	126.6	126.0	126.2	124.0	120.5	128.3	124.35		
127.5	126.0	128.2	127.4	127.0	125.3	—	—	—	—	—	—	125.42	124.94	
—	—	—	—	—	—	123.8	125.5	126.2	127.0	131.5	123.0	125.42		
122.6	123.0	127.0	126.0	126.0	127.8	127.0	125.4	125.0	127.2	130.5	129.0	124.75	124.03	
125.8	130.7	127.0	126.5	126.0	125.8	120.7	127.8	118.3	123.8	126.3	127.0	124.03		
125.1	124.3	126.5	132.4	139.3	129.2	127.0	123.7	125.0	125.5	125.2	126.1	126.28	125.23	
124.2	125.1	124.5	125.7	125.2	116.6	122.3	125.4	127.0	129.2	129.4	127.0	125.23		
123.3	124.0	124.9	127.9	126.0	125.2	124.0	124.2	124.9	125.0	125.6	125.7	125.12	125.11	
124.8	125.2	126.2	124.7	124.5	124.6	—	—	—	—	—	—	125.11		
—	—	—	—	—	—	124.2	127.0	126.4	126.5	127.0	127.0	125.47	125.62	
124.8	124.8	125.5	125.0	126.2	125.3	125.5	125.0	125.8	126.0	126.9	127.2	125.47		
124.0	124.6	125.5	127.5	126.1	128.0	125.7	126.6	128.1	127.9	130.5	129.0	125.62	125.34	
124.9	125.1	126.0	126.0	125.8	125.0	126.0	127.0	126.2	125.4	125.2	129.4	125.34		
125.5	130.8	133.5	130.2	128.5	127.8	128.7	119.5	120.3	123.5	122.6	126.0	124.31	125.08	
125.0	125.0	126.2	125.5	125.2	126.1	123.0	125.0	125.0	123.0	125.6	125.2	124.41		
124.2	125.4	125.0	125.4	126.0	125.9	—	—	—	—	—	—	125.08	124.77	
—	—	—	—	—	—	124.8	124.7	125.5	124.6	120.7	128.2	124.77		
124.0	126.4	127.6	126.1	126.2	132.0	125.4	124.8	124.8	126.1	126.0	122.2	126.78	127.0	
124.8	126.9	138.2	128.0	129.8	130.9	127.1	128.0	127.0	125.2	127.0	128.0	126.78		
124.65	125.44	126.33	127.18	126.38	126.15	125.23	125.97	125.98	126.08	126.47	126.18	125.09	125.09	

\* Nine minutes late.

† Two minutes late.

‡ Four minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0' .721. Increasing numbers denote decreasing Westerly Declination.												
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
NOVEMBER.	1	129.0	128.6	127.5	129.8	131.0	128.3	124.8	122.3	122.5	123.6	124.8
	2	128.0	129.8	129.9	130.0	130.1	124.5	123.0	122.1	122.1	123.1	123.9
	3	122.2	128.1	127.8	128.0	128.0	126.4	124.1	122.8	122.8	124.0	125.2
	4	124.4	127.0	129.0	127.4	127.2	125.1	124.0	123.5	122.5	122.8	123.4
	5	—	—	—	—	—	—	—	—	—	—	—
	6	130.4	132.2	129.6	127.4	125.8	121.9	121.8	121.0	120.2	123.4	124.8
	7	128.0	127.0	130.3	129.0	124.1	117.7	118.6	116.3	119.4	123.1	124.8
	8	127.0	127.8	130.4	129.0	126.1	121.3	122.1	121.4	122.9 <sup>a</sup>	123.4	122.5
	9	131.6	131.5	130.2	129.4	128.0	123.4	124.5	121.4	122.2	124.0	125.4
	10	129.0	128.9	130.9	130.0	126.8	123.6	122.2	121.0	122.1	123.2	124.2
	11	126.9	129.0	129.9	129.0	126.2	122.2 <sup>b</sup>	121.8	120.3	121.9	122.7	124.5
	12	—	—	—	—	—	—	—	—	—	—	—
	13	129.7	130.2	131.4	132.8	119.8	117.0	115.8	117.2	118.2 <sup>a</sup>	118.7	123.8
	14	126.6	128.5	129.1	127.5	128.9	124.0	123.5	121.9	121.7	123.3	122.5
	15	125.9	128.5	129.8	129.7	127.5	125.0	122.6	121.8	122.4	122.0	126.5
	16	126.9	126.5	129.2	129.0	127.8	125.3	122.0	121.1	123.4	121.4	123.0
	17	126.7	127.2	128.0	128.6	126.0	123.5	123.4	123.9	125.8 <sup>a</sup>	125.5	124.9
	18	128.0	129.0	129.1	127.0	124.3	123.5	119.5	118.8	125.0	122.7	124.2
	19	—	—	—	—	—	—	—	—	—	—	—
	20	126.7	127.8	128.5	128.6	126.2	124.0	122.2	122.0	123.2 <sup>a</sup>	124.5	125.1
	21	129.0	129.0	128.9	128.5	124.2 <sup>c</sup>	121.0	119.0	119.0	120.8	123.5	124.0
	22	128.2	128.0	125.9	126.3	123.9	120.7	120.7	122.3	124.2	125.4	125.8
	23	128.0	129.7	129.0	127.1	124.0	120.0	120.0	120.5	122.5 <sup>d</sup>	125.5	125.8
	24	129.2	123.5	126.7	126.8	122.9	120.0	118.3	120.2	120.6	123.0	124.6
	25	128.0	128.2	128.9	128.2	126.0	123.9	121.4	121.7	123.2	124.9	125.5
	26	—	—	—	—	—	—	—	—	—	—	—
	27	128.0	128.1	130.3	131.6	131.0	128.3	125.8	122.8	122.2	122.8	125.0
	28	128.0	128.0	129.1	129.8	129.1	127.6	123.4	119.9	118.8	121.9	123.8
	29	128.5	127.8	127.4	128.7	126.0	123.9	125.0	123.8	123.9	124.8	125.4
	30	128.0	126.1	128.1	127.6	128.1	127.2	125.0	124.1	122.5	122.8	124.5
Hourly Means	127.77	128.31	129.03	128.72	126.50	123.43	122.10	121.27	122.19	123.31	124.53	
DECEMBER.	1	129.0	129.9	129.1	129.7	126.5	123.9	120.0	119.8	121.7	122.8	
	2	136.2	130.3	123.7	115.9	121.5	126.5	125.0	124.4	124.8	125.3	
	3	—	—	—	—	—	—	—	—	—	—	
	4	128.0	128.0	128.1	127.0	127.0	125.1	121.5	121.5	122.1	123.6	
	5	127.8	128.4	129.1	130.0	127.3	125.6	124.5	122.1	121.0	122.1	
	6	128.7	127.0	127.3	128.5	126.9	124.6	123.5	121.3	122.0	124.8	
	7	127.0	127.3	128.4	129.0	127.6	126.0	124.0	123.9	124.8	125.8	
	8	128.0	128.7	128.7	130.4	125.8	121.4	123.3	119.7	117.2	122.2	
	9	127.0	127.6	127.7	125.5	127.1	125.9	123.7	119.8	120.2	126.2	
	10	—	—	—	—	—	—	—	—	—	—	
	11	128.0	126.9	128.7	128.9	129.1	125.8	122.0	121.2	117.6	121.9	
	12	128.6	127.0	124.0	124.9	128.9	124.5	123.4	124.8	123.3	127.1	
	13	127.0	127.5	128.3	128.5	127.5	125.5	124.5	121.8	119.9	121.2	
	14	126.2	126.5	128.0	128.6	129.2	127.5 <sup>e</sup>	126.2	124.0	122.9	122.6	
	15	127.0	127.4	128.0	128.0	126.9	126.0 <sup>e</sup>	125.1	123.8	122.8	123.5	
	16	127.1	127.0	127.0	128.9	129.0	127.2	126.0	124.7	123.6	123.9	
	17	—	—	—	—	—	—	—	—	—	—	
	18	126.0	127.0	127.0	127.5	128.0	125.3	123.0	122.4	122.8	122.5	
	19	126.9	126.9	127.8	127.6	126.0	125.1	124.2	124.8	124.1	124.2	
	20	128.5	129.2	126.9	127.6	126.3	124.5	124.2	124.0	125.1	125.2	
	21	126.8	127.6	127.9	128.1	128.1	125.5	123.9	122.8	123.9	125.2	
	22	127.6	128.0	128.6	128.8	127.1	124.8	123.3	121.8	123.1	125.5	
	23	127.4	128.6	128.8	129.4	129.0	126.5	122.5	119.8	120.0	122.8	
	24	—	—	—	—	—	—	—	—	—	—	
	25 <sup>e</sup>	—	—	—	—	—	—	—	—	—	—	
	26	127.0	128.1	129.7	131.2	129.5	127.3	124.9	122.4	122.0	123.2	
	27	127.0	128.2	130.0	131.8	131.3	126.2	119.0	113.3	117.2	120.6	
	28	127.6	125.0	121.1	122.1	128.0	128.3	122.0	121.8	122.1	122.8	
	29	126.9	126.1	128.0	129.6	130.0	128.0	125.8	124.1	124.0	122.3	
	30	126.2	128.0	128.5	130.8	128.4	126.8	124.9	122.0	122.8	122.2	
	31	—	—	—	—	—	—	—	—	—	—	
Hourly Means	127.74	127.69	127.62	127.93	127.68	125.75	123.62	122.08	122.04	123.58		

<sup>a</sup> Four minutes late.

<sup>b</sup> Seven minutes late.

<sup>c</sup> Ten minutes late.

<sup>d</sup> Three minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
125.8	127.5	126.1	129.1	128.4	128.0	126.4	126.0	126.8	126.1	128.2	128.8	126.87
130.0	131.0	127.6	126.8	129.9	136.9	128.4	128.2	133.8	124.3	127.8	124.7	127.37
126.5	127.0	126.4	126.1	127.5	127.3	126.1	126.2	126.2	127.0	127.4	127.7	126.12
125.9	126.1	126.1	126.0	126.6	125.8	—	—	—	—	—	—	125.81
—	—	—	—	—	—	125.0	125.6	125.6	126.8	128.1	130.6	125.64
125.5	126.3	126.0	125.8	125.8	126.4	127.0	124.5	125.0	125.8	126.5	127.0	125.04
127.3	127.1	128.0	126.2	125.8	126.0	125.5	125.6	125.7	125.7	126.2	127.3	126.86
128.0	131.0	127.6	149.5	129.3	128.1	121.8	121.9	124.8	128.2	128.4	126.2	126.45
126.3	126.7	126.8	127.0	130.8	126.9	125.8	125.7	124.8	125.0	124.5	127.0	125.84
126.1	126.0	125.9	126.7	125.4	126.0	126.0	126.2	125.3	123.3	127.0	129.0	125.38
124.5	126.2	127.2	127.0	127.0	126.6	—	—	—	—	—	—	125.68
—	—	—	—	—	—	123.8	124.0	125.8	126.2	124.0	127.6	125.75
126.8	127.3	137.6	134.2	128.8	126.7	125.6	125.6	124.4	125.9	128.0	126.0	126.30
125.5	127.0	128.2	127.9	127.4	127.8	127.0	125.3	123.0	129.9	127.0	125.0	126.42
125.4	127.8	133.1	128.1	125.8	126.2	127.4	126.8	125.2	126.0	126.5	125.1	126.30
128.8	127.1	126.0	125.8	126.2	132.4	130.2	130.8	126.0	127.5	127.1	127.0	126.30
126.4	127.8	127.2	134.7	124.1	123.9	124.7	125.9	126.0	126.0	128.0	128.0	125.40
126.9	126.7	126.6	126.1	127.0	126.0	—	—	—	—	—	—	125.87
—	—	—	—	—	—	126.0	125.5	125.6	125.0	126.2	126.0	125.15
126.0	126.6	126.5	126.9	126.2	126.8	129.0	128.5	123.4	120.7	127.2	128.5	125.73
126.0	126.1	126.0	126.2	126.2	126.1	124.2	125.6	125.4	124.8	126.5	128.2	125.90
126.8	127.0	127.0	127.8	127.5	127.2	126.5	123.4	125.7	125.8	127.9	127.0	125.11
127.4	127.6	127.4	127.5	127.2	127.0	126.2	125.9	126.1	126.2	126.9	128.0	126.21
126.6	128.7	127.7	130.0	127.3	126.0	123.7	125.2	125.0	126.4	126.2	127.8	126.75
125.8	127.5	127.3	127.2	127.0	129.2	—	—	—	—	—	—	126.33
—	—	—	—	—	—	126.8	126.9	126.1	125.6	126.4	127.4	126.62
126.8	127.0	127.1	127.0	126.7	127.4	127.0	125.2	126.0	127.9	128.2	128.2	126.49
127.2	128.3	127.8	128.0	127.0	125.8	126.4	126.6	126.0	127.9	128.2	128.2	126.05
126.5	129.2	128.8	126.8	127.5	133.0	126.1	124.4	126.4	125.8	125.8	127.4	—
127.5	127.7	127.4	127.0	128.6	130.1	124.9	125.2	127.4	127.5	126.8	124.9	—
126.63	127.47	127.67	128.52	127.19	127.68	126.06	125.80	125.83	125.97	126.91	127.23	126.05
126.8	127.2	127.5	127.7	127.2	126.8	128.8	128.4	130.1	129.8	131.4	131.1	126.88
127.1	126.0	127.1	126.9	127.7	127.6	—	—	—	—	—	—	126.29
—	—	—	—	—	—	125.9	126.3	125.3	128.6	128.8	127.0	125.97
127.7	127.3	127.8	128.2	127.5	127.2	125.8	125.7	125.9	125.0	127.0	126.0	126.25
127.9	127.4	128.0	128.0	127.1	127.0	126.4	126.2	126.8	127.2	125.0	126.2	126.74
127.3	127.7	128.1	128.8	128.2	128.1	130.2	126.0	126.4	127.0	127.5	127.5	127.04
126.9	127.5	127.9	135.9	126.0	126.2	126.8	125.4	127.1	126.9	127.5	128.0	126.92
129.0	130.5	128.8	129.1	128.9	128.2	130.1	129.2	131.3	127.2	126.9	127.8	125.60
125.0	126.1	126.7	129.0	129.3	123.7	—	—	—	—	—	—	126.22
—	—	—	—	—	—	132.5	126.9	124.2	126.9	120.6	126.3	127.28
132.2	128.0	135.0	130.5	129.0	128.8	120.1	125.0	125.0	125.6	125.9	127.3	125.96
135.7	127.5	127.0	126.9	127.2	127.0	126.1	127.0	126.2	126.0	126.8	127.0	126.32
125.1	125.9	127.5	128.4	127.0	126.8	127.0	127.1	121.1	124.2	127.4	128.0	126.15
126.0	127.0	127.2	127.5	128.0	128.8	126.3	126.0	125.4	126.0	126.6	126.0	126.36
127.0	126.3	129.9	126.2	126.9	126.5	126.7	126.0	125.8	125.5	126.0	126.2	126.12
126.6	126.9	127.2	128.0	127.5	127.0	—	—	—	—	—	—	126.13
—	—	—	—	—	—	126.3	126.0	125.4	125.9	125.9	126.2	126.39
127.0	127.1	127.8	127.0	125.8	130.1	126.2	125.0	127.3	127.0	126.8	127.0	126.20
126.9	127.0	127.0	127.0	127.4	126.2	126.4	126.5	121.3	124.7	129.0	129.0	126.37
127.0	127.0	128.0	127.7	127.7	128.2	126.0	125.5	125.2	125.9	126.0	126.4	126.01
127.1	127.1	127.2	127.2	126.9	126.2	126.2	126.0	125.5	125.0	126.0	126.9	125.86
127.5	127.9	127.9	127.6	127.2	126.2	125.5	125.5	125.4	125.9	127.0	126.5	125.58
127.0	127.2	127.8	127.8	127.0	126.2	—	—	—	—	—	—	124.75
—	—	—	—	—	—	—	—	—	—	—	—	126.15
126.2	126.8	127.4	126.9	129.2	126.1	126.8	125.2	122.2	123.7	122.5	122.0	126.62
125.7	127.0	127.6	129.0	129.3	127.1	125.8	124.0	124.4	125.2	123.0	133.0	126.24
123.7	125.0	125.8	127.6	127.5	125.4	126.0	125.6	124.2	123.3	126.1	125.4	—
127.0	127.2	128.0	127.7	128.0	127.3	126.0	125.5 <sup>b</sup>	124.0	124.2	126.0	124.0	—
127.1	127.2	127.7	128.0	128.2	129.0	—	—	—	—	—	—	—
—	—	—	—	—	—	126.9	127.6	127.1	127.8	128.3	125.0	—
127.30	127.11	127.92	128.18	127.67	127.11	126.72	126.11	125.48	126.00	126.40	126.89	126.24

<sup>a</sup> Two minutes late.

<sup>f</sup> Three minutes late.

<sup>g</sup> Christmas-day.

<sup>h</sup> Five minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000074 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
JANUARY.	2	497.6	517.3	502.5	472.6	472.3	478.5	474.2	487.0	474.7	492.2	501.0	489.7
	3	489.1	505.7	506.5	503.1	492.5	484.5	483.7	482.2	502.1	501.8	504.5	500.2
	4	506.6	506.7	504.6	496.8	491.1	485.2	482.2	490.7	498.2	501.2	505.3	506.5
	5	496.7	494.9	492.8	489.1	476.7	469.1	467.1	477.8	483.1	493.5	494.5	493.6
	6	488.7	489.7	488.6	483.0	473.2	457.0	458.6	457.1	470.0	476.4	482.9	482.5
	7	479.7	480.0	479.5	476.8	462.8	452.2	448.2	450.2	458.1	467.4	476.0	474.0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	492.2	492.0	490.8	483.9	478.1	475.1	470.7	470.9	474.9	481.1	485.7	484.0
	10	484.1	483.4	485.0	484.7	478.3	464.4	473.9	471.0	476.7	475.9	485.0	483.5
	11	483.9	484.1	483.7	478.2	473.6	465.5	462.6	464.5	459.7	463.6	472.2	476.3
	12	475.9 <sup>a</sup>	473.7	474.9	474.9	471.2	462.7	457.7	459.7	462.5	462.2	475.3	476.3
	13	475.6	477.8	476.0	469.2	465.9	462.0	460.7	463.9	466.0	467.0	472.9	477.0
	14	481.1	481.9	480.8	480.5	477.8	475.8	476.1	475.0	475.0	477.4	480.3	487.2
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	489.4	487.3	496.0	502.1	494.1	489.1	488.4	486.4	493.7	490.6	497.4	493.0
	17	493.9	493.4	494.6	491.9	480.5	467.6	467.6	475.9	482.6	486.5	483.4	483.1
	18	484.4	483.1	486.0	480.6	478.0	472.7	469.5	469.7	469.6	474.6	472.4	468.0
	19	465.5	464.1	458.4	457.1	450.7	439.5	436.7	436.6	446.2	454.9	457.1	460.0
	20	462.7	458.1	462.4	460.8	451.3	444.4	443.1	445.6	449.2	460.0	466.0	467.0
	21	467.2	470.4	468.2	462.1	456.3	449.4	445.2	450.5	449.6	453.7	456.9	460.0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	475.8	475.9	480.1	477.2	477.5	476.2	457.5	457.3	457.5	469.9	477.7	481.5
	24	472.5	473.0	472.6	468.0	468.5	456.7	454.7	461.6	468.4	474.2	479.9	464.0
	25	472.9	471.1	471.4	467.6	463.3	458.6	461.2	465.4	474.0	478.4	481.4	482.6
	26	499.4	499.4	500.0	499.1	496.0	488.3	486.7	491.9	487.6	486.6	491.0	494.0
	27	491.2	490.5	491.0	489.2	482.0	476.4	476.0	477.9	477.2	477.0	483.5	487.1
	28	486.7	487.2	486.5	479.9	475.2	462.5	432.0	453.1	464.0	459.8	468.5	458.3
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	490.1	490.7	481.4	484.5	476.5	466.6	465.7	465.9	469.5	473.6	480.4	476.5
	31	471.5	475.6	472.0	468.0	468.5	469.7	463.4	472.8	474.7	475.8	478.7	478.8
	Hourly Means	483.63	484.88	484.09	480.03	474.30	467.29	463.98	467.72	471.72	476.17	481.15	480.18
TEMPERATURE OF THE BIFILAR MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
JANUARY.	2	31.2	33.4	33.6	34.0	35.4	36.6	37.8	38.5	38.6	38.7	38.8	39.0
	3	34.6	34.0	33.8	33.6	34.7	35.5	35.5	36.6	37.3	37.6	37.7	36.7
	4	33.0	33.0	33.4	32.6	33.1	34.0	32.5	33.6	34.5	35.3	36.4	36.0
	5	39.8	39.8	40.4	40.5	40.7	41.5	42.3	42.4	42.5	42.2	43.0	43.2
	6	42.6	42.6	42.6	42.5	43.0	44.0	44.6	45.2	45.6	46.0	46.0	46.1
	7	48.5	48.0	48.0	48.0	48.0	48.4	49.2	49.9	50.0	50.0	50.0	50.2
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	40.2	40.0	39.9	39.2	39.8	41.0	41.8	42.6	43.5	44.4	44.9	44.5
	10	44.6	45.0	45.3	44.9	44.9	45.0	45.5	45.6	45.6	46.0	46.4	46.5
	11	46.3	45.7	45.7	45.0	45.4	45.7	45.9	46.1	46.5	46.6	47.5	48.0
	12	46.4	46.2	46.5	46.1	45.6	45.6	45.5	46.0	46.4	46.2	46.0	45.5
	13	47.5	47.9	48.0	47.2	47.0	47.2	47.7	48.2	48.4	48.5	47.6	47.0
	14	44.2	44.0	43.9	43.0	42.8	43.0	42.6	42.6	43.0	43.5	43.4	43.0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	42.0	41.5	41.0	41.0	40.5	40.7	41.1	41.5	41.7	42.5	42.8	42.0
	17	41.7	41.7	41.3	41.0	40.8	41.2	42.5	43.5	44.0	44.7	45.1	45.4
	18	45.8	45.5	45.2	45.0	45.5	46.5	47.8	48.9	50.0	51.1	52.0	52.5
	19	53.6	54.4	55.5	56.0	54.7	54.2	53.9	54.0	54.0	54.3	54.5	54.4
	20	53.3	53.5	53.4	52.5	52.8	53.0	53.1	53.0	53.4	53.6	53.8	53.5
	21	52.2	52.5	52.3	52.4	53.0	53.4	54.2	54.6	55.5	56.3	57.3	57.6
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	46.2	46.0	45.5	45.2	44.8	44.8	45.5	46.0	46.5	46.8	47.2	47.0
	24	49.0	48.5	47.5	46.5	46.4	47.0	47.5	47.4	47.2	47.4	47.4	48.2
	25	47.4	47.4	47.2	46.8	46.6	45.8	45.0	44.0	43.5	43.2	42.4	42.2
	26	36.0	36.2	35.8	36.1	36.3	36.9	38.0	39.2	40.8	41.4	40.9	40.5
	27	44.2	44.8	44.9	45.0	45.0	44.8	46.2	47.0	48.0	47.0	46.4	46.6
	28	46.8	46.6	46.0	45.6	45.5	45.8	46.5	46.0	46.0	46.4	46.8	46.7
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	41.5	41.4	41.2	40.8	41.6	43.0	44.0	44.6	45.6	46.6	46.8	46.5
	31	47.0	46.6	46.4	45.8	45.6	46.0	46.2	46.4	47.0	48.3	48.5	48.4
	Hourly Means	44.06	44.08	44.01	43.70	43.83	44.25	44.71	45.13	45.58	45.95	46.14	46.05

<sup>a</sup> Five minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000074 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00027.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
456·3	480·9	493·2	490·5	489·5	492·8	490·9	491·4	490·5	493·7	501·0	496·3	488·61
498·0	498·2	498·4	499·0	499·4	496·0	500·0	494·0	499·2	500·2	505·1	505·3	497·86
506·2	500·5	499·5	498·7	496·1	495·3	497·0	498·2	496·0	496·4	500·0	499·8	498·28
490·4	489·7	485·9	483·0	483·0	483·4	483·5	482·3	483·4	487·3	486·6	488·0	485·64
480·8	483·9	484·0	477·0	479·8	469·3	478·3	477·5	481·0	479·2	481·7	482·5	477·61
472·8	473·7	471·2	471·7	471·9	472·1	—	—	—	—	—	—	—
—	—	—	—	—	—	487·9	494·0	492·7	492·5	490·0	492·4	474·49
484·9	484·2	483·9	485·0	483·0	483·0	481·5	479·8	480·2	480·3	480·8	484·0	482·08
469·0	469·2	475·0	472·8	476·3	478·2	477·6	480·0	480·0	480·5	479·8	484·0	477·85
472·9	465·0	467·8	468·6	469·9	468·6	468·8	471·0	471·6	473·7	472·4	472·0	471·26
478·4	476·3	474·1	474·2	471·5	473·2	472·5	473·0	473·0	474·0	475·0	476·0	471·80
477·6	476·6	474·7	470·5	471·0	476·0	478·0	474·3	479·5	481·2	482·4	483·0	473·28
487·0	485·0	482·0	481·0	479·0	480·0	—	—	—	—	—	—	—
—	—	—	—	—	—	488·1	493·4	480·9	485·7	487·9	490·9	482·08
492·2	494·0	495·0	494·6	491·3	493·9	487·9	491·2	492·4	492·0	489·1	487·6	492·03
482·2	473·3	476·1	480·3	480·0	479·6	479·8	477·7	484·9	483·6	484·4	482·5	481·89
463·0	463·0	462·0	459·0	460·1	460·2	462·5	462·6	463·0	461·2	463·5	467·3	469·00
462·0	461·4	461·2	459·0	460·0	460·0	461·5	460·0	459·9	461·0	462·9	463·0	456·61
465·9	464·0	464·0	462·4	461·4	463·1	463·9	464·0	464·5	465·0	465·2	466·2	460·01
457·9	457·9	458·1	457·1	457·2	457·5	—	—	—	—	—	—	—
—	—	—	—	—	—	464·2	470·9	468·6	471·1	473·3	474·0	460·72
463·7	471·0	470·0	463·7	471·4	454·2	466·9	465·1	469·9	467·0	468·7	473·7	469·56
470·8	467·3	465·1	455·5	460·3	464·7	465·6	462·4	467·1	466·5	468·7	473·1	466·72
485·2	485·7	487·3	481·0	484·0	487·0	491·5	490·4	491·0	494·1	497·2	498·8	480·05
492·1	493·0	492·0	492·8	491·1	492·7	489·9	489·3	490·0	490·0	490·7	490·8	492·27
490·6	485·6	481·1	476·0	468·5	463·9	476·8	477·5	478·0	477·8	477·7	481·7	480·59
447·7	462·0	465·0	468·9	467·1	468·1	—	—	—	—	—	—	—
—	—	—	—	—	—	480·9	489·0	482·9	484·1	489·7	485·8	471·04
475·0	473·5	575·0	475·1	480·4	478·4	471·0	472·0	471·0	475·0	475·0	476·0	475·78
476·2	474·5	474·5	470·0	469·0	471·5	473·5	476·2	479·4	484·8	487·4	489·7	474·84
476·88	477·28	477·54	475·67	475·85	475·49	478·49	479·12	479·25	480·69	482·16	483·25	477·38

TEMPERATURE OF THE BIFILAR MAGNET.												
39·2	39·2	39·0	38·8	38·6	38·2	37·6	37·8	37·0	37·0	36·6	36·5	37·13
36·6	36·0	35·2	34·4	34·2	34·4	34·5	34·8	34·4	33·6	33·4	33·0	35·09
37·0	37·4	38·0	38·6	39·0	39·2	39·6	39·1	39·0	39·0	39·1	39·9	36·85
43·8	45·0	45·5	45·5	45·4	45·1	44·5	43·6	43·0	42·8	42·9	42·6	42·33
46·0	46·1	46·0	46·0	46·1	46·2	46·5	46·5	47·0	47·5	47·8	48·1	45·44
50·0	49·5	49·5	49·4	49·3	49·2	—	—	—	—	—	—	—
—	—	—	—	—	—	38·4	38·5	39·2	39·5	40·0	40·0	46·70
44·6	44·4	44·0	44·0	44·0	44·2	44·5	44·5	44·4	44·6	44·6	44·5	43·09
47·2	47·5	47·4	47·2	47·0	46·8	46·8	46·5	46·4	46·3	46·5	46·4	46·14
48·4	48·2	48·0	47·4	47·3	47·1	47·0	47·5	47·5	47·0	47·5	46·6	46·83
46·0	46·3	46·5	46·4	45·0	44·5	43·5	46·5	46·5	46·5	47·0	47·1	45·99
47·5	47·0	46·5	44·8	44·5	44·5	44·8	44·6	44·5	44·6	44·4	44·5	46·43
43·0	43·0	43·2	43·4	43·2	43·5	—	—	—	—	—	—	—
—	—	—	—	—	—	39·8	40·0	40·2	40·6	41·0	41·2	42·55
42·0	41·6	41·6	42·0	42·0	42·0	41·8	42·1	42·5	42·0	41·5	41·5	41·70
45·5	46·0	45·8	45·5	45·0	44·7	44·7	44·7	45·0	45·5	45·4	45·6	44·43
52·5	52·8	53·1	53·3	53·2	52·6	52·1	52·0	51·6	51·6	52·0	53·2	50·24
53·8	53·6	53·5	53·5	53·5	53·5	53·4	53·2	53·3	53·4	53·4	53·0	53·94
53·4	53·2	52·8	52·6	52·6	52·6	52·8	52·9	53·4	53·0	52·8	53·0	53·08
57·3	56·8	56·6	56·0	55·2	54·4	—	—	—	—	—	—	—
—	—	—	—	—	—	45·6	45·5	45·5	45·6	46·0	46·5	52·60
46·4	46·3	46·4	47·4	48·5	48·4	48·5	48·5	49·2	49·5	49·5	49·0	47·05
47·5	46·9	46·5	46·5	47·0	47·2	47·0	46·2	46·4	46·5	46·8	47·0	47·15
42·0	41·5	40·8	39·6	38·8	38·4	38·5	38·4	37·2	36·6	36·4	36·1	41·91
41·5	41·8	41·6	41·6	41·6	41·6	42·0	42·1	43·0	43·4	43·6	44·0	40·25
47·4	47·4	47·6	46·9	47·1	47·2	47·1	46·6	47·2	48·2	47·8	47·0	46·56
46·4	46·5	46·3	46·0	45·8	45·5	—	—	—	—	—	—	—
—	—	—	—	—	—	40·2	39·9	40·1	40·3	40·7	41·4	44·74
46·3	46·3	46·0	45·9	46·0	46·0	46·2	46·6	47·0	47·2	47·2	47·0	45·05
48·7	48·5	48·8	48·6	47·4	45·6	44·8	43·8	42·6	41·4	40·0	38·7	45·88
46·15	46·11	46·01	45·82	45·67	45·48	43·81	43·81	43·84	43·85	43·89	44·26	44·84



HORIZONTAL FORCE.													
From 1st to 9th. One Scale Division = .000071 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = .00027.							
From 10th to 23rd. One Scale Division = .000152 parts of the H. F.						Change in the magnetic moment of the Bar not ascertained.							
From 24th to 28th. One Scale Division = .000099 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = .00027.							
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
FEBRUARY.	1	490.4	495.5	496.5	494.4	492.4	483.8	482.3	486.3	489.8	494.6	495.0	498.2
	2	503.1	505.9	503.8	499.2	488.7	488.6	485.6	493.0	496.5	498.6	499.7	497.1
	3	502.0	500.6	499.9	498.1	493.5	488.5	484.1	485.9	487.9	494.9	498.8	493.6
	4	491.5	491.1	489.7	485.2	479.4	474.5	479.7	487.7	495.9	497.0	495.7	490.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	494.6	493.9	486.5	497.1	495.5	492.8	486.1	483.5	487.9	494.2	459.3	502.6
	7	504.6	511.4	507.9	502.0	495.8	481.2	493.3	479.3	498.9	503.6	502.5	504.0
	8	497.7	494.9	494.4	492.2	489.5	485.3	484.1	486.5	488.4	492.6	496.4	493.6
	9	500.0	500.8	497.6	491.0	487.0	484.5	486.2	484.5	485.8	488.8	491.9	492.9
	10	502.0 <sup>b</sup>	501.8	496.4	—	—	—	—	—	—	—	—	—
	11	512.6	511.1	512.7	512.3	513.9	511.5	509.9	512.8	514.3	512.9	514.9	518.3
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	528.0	530.2	529.0	524.1	523.1	522.3	525.4	522.6	524.9	526.6	512.1	522.5
	14	527.5	520.6	525.8	519.2	517.9	517.1	517.2	519.3	518.1	513.9	525.1	528.2
	15	527.5	526.7	524.8	522.3	517.0	517.0	516.5	514.9	522.1	521.9	524.6	523.6
	16	526.4	528.0	526.9	526.9	519.6	520.7	520.5	524.0	518.1	520.8	525.4	526.5
	17	535.5	530.8	528.6	525.1	519.1	520.1	517.4	525.4	530.0	532.3	532.5	529.0
	18	532.8	531.3	531.4	530.8	528.2	525.2	524.4	526.1	525.9	530.5	533.8	533.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	533.7	533.2	531.5	530.7	528.2	523.2	522.4	526.3	529.2	533.6	533.0	525.8
	21	529.0	528.4	526.1	523.4	519.8	519.5	521.5	522.6	524.4	524.4	524.7	525.9
	22	525.7	525.2	522.3	521.1	520.0	519.8	520.5	524.0	526.2	526.9	527.5	528.1
	23	532.4	531.9	530.5	528.6	526.0	525.8	526.8	529.1	530.2	531.1	530.5	534.0
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	517.7	521.8	525.0	525.9	524.5	529.5	530.0	539.3	539.0	548.7	544.5	540.5
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	578.1	578.1	581.0	567.4	566.5	566.9	570.3	—	572.6	586.8	586.8	587.9
	28	597.4	596.9	594.6	590.0	587.2	586.9	587.0	590.2	592.9	597.9	600.4	601.4
Hourly Means	522.19	522.20	521.21	518.50	515.13	512.94	513.24	512.54	518.14	521.48	520.69	522.59	
TEMPERATURE OF THE BIFILAR MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
FEBRUARY.	1	37.6	37.1	36.4	36.0	35.8	36.8	38.0	38.4	39.3	40.5	39.8	39.2
	2	36.2	36.0	34.6	35.0	35.8	37.0	37.5	37.8	38.0	39.5	40.5	41.4
	3	37.9	38.8	37.9	38.5	39.8	40.5	41.0	41.8	41.8	42.4	43.6	43.8
	4	43.5	42.8	42.4	42.2	42.6	43.4	44.6	45.7	46.4	47.5	48.3	48.6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	37.5	36.8	35.9	34.6	34.6	35.2	36.2	36.9	36.8	36.9	36.6	36.4
	7	32.0	31.0	30.2	30.3	31.0	32.1	32.5	34.5	35.4	36.8	37.8	37.0
	8	38.0	37.7	37.6	37.5	37.4	38.0	38.5	39.4	40.0	40.6	40.9	40.6
	9	36.3	35.8	35.6	35.0	35.4	36.3	37.7	39.2	39.6	40.2	41.0	40.0
	10 <sup>b</sup>	36.2	35.8	35.9	—	—	—	—	—	—	—	—	—
	11	44.4	43.8	43.3	41.6	41.1	40.6	40.9	41.2	40.8	41.0	41.2	41.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	34.6	34.1	33.1	34.0	34.8	35.9	36.9	38.4	38.7	39.4	39.5	39.5
	14	34.4	33.8	33.5	32.5	32.0	32.8	33.0	33.0	34.2	34.8	35.3	36.2
	15	35.3	35.2	34.7	34.8	36.0	36.6	37.5	38.2	38.4	38.2	38.7	40.2
	16	36.5	36.0	36.2	36.6	37.2	37.2	38.0	38.5	39.0	39.8	40.4	40.4
	17	31.0	30.0	30.5	30.7	31.7	33.7	35.0	36.5	37.4	38.0	38.3	38.9
	18	31.6	31.0	30.6	30.2	31.4	33.4	34.8	36.4	37.4	39.4	40.2	40.4
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	33.8	33.4	34.0	34.8	35.9	37.2	38.0	39.2	39.9	40.8	41.2	40.8
	21	38.5	39.0	39.0	38.5	39.0	40.2	41.6	42.5	42.8	42.8	43.2	43.9
	22	42.9	42.5	41.8	41.4	41.5	42.1	42.4	42.0	41.9	42.5	42.5	42.4
	23	36.2	35.7	36.4	36.5	37.1	37.4	38.0	37.8	38.5	39.2	40.5	40.7
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	45.2	45.0	44.5	43.9	43.8	44.0	45.2	45.6	46.0	46.2	46.8	46.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	41.5	41.0	40.5	40.0	40.5	41.5	42.5	—	43.2	43.8	44.4	43.9
	28	43.1	43.0	43.2	43.4	44.2	44.8	45.4	45.6	45.6	45.5	45.0	44.8
Hourly Means	37.62	37.25	36.90	36.73	37.21	38.03	38.87	39.46	40.05	40.72	41.17	41.19	

The connexion of the series was broken between the 9th and 11th, and again between the 23rd and 25th.

HORIZONTAL FORCE.												
From 1st to 9th.			One Scale Division = '000074 parts of the H. F.			Change in the magnetic moment of the Bar for 1° Fah°. = '00027.						
From 10th to 23rd.			One Scale Division = '000152 parts of the H. F.			Change in the magnetic moment of the Bar not ascertained.						
From 24th to 28th.			One Scale Division = '000099 parts of the H. F.			Change in the magnetic moment of the Bar for 1° Fah°. = '00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
495·0	495·0	495·7	496·0	497·9	497·5	498·1	499·3	500·2	501·2	504·9	502·8	495·12
494·4	495·3	495·2	494·1	495·0	494·0	495·2	497·5	495·5	496·5	497·4	500·0	496·25
492·0	490·1	488·9	488·5	487·4	486·2	486·7	488·0	489·0	491·0	491·0	491·8	491·60
484·6	471·7	466·5	461·8	456·2	452·4	—	—	—	—	—	—	—
—	—	—	—	—	—	489·7	490·0	492·0	488·0	494·0	491·9	483·18
508·7	497·8	497·6	499·0	501·0	494·0	500·5	502·2	503·9	501·3	501·9	499·0	495·04
504·2	493·5	495·0	495·0	492·0	495·9	499·9	494·7	496·1	493·4	495·2	498·0	497·39
489·5 <sup>a</sup>	485·2	485·9	486·9	491·4	488·8	489·1	492·4	492·4	493·4	497·0	497·9	491·06
489·0	487·0	494·8	494·5	491·0	493·4	500·2	495·5	485·5	493·5	494·6	490·0	491·79
—	—	—	—	—	508·0 <sup>b</sup>	508·0	513·2	510·7	507·8	511·2	511·8	—
514·0	515·1	516·3	516·5	518·3	519·5	—	—	—	—	—	—	—
—	—	—	—	—	—	521·8	525·2	523·7	525·9	525·4	529·3	517·01
522·8	509·0	522·5	519·8	519·4	520·6	527·2	509·8	519·7	522·3	525·8	525·3	522·29
526·3	527·2	523·7	519·8	519·9	523·7	523·6	524·9	527·3	528·2	526·2	528·0	522·86
521·2	520·3	520·7	523·4	522·8	523·0	523·0	524·0	524·5	525·0	525·5	524·5	522·37
526·1	526·0	526·1	525·0	526·6	523·4	526·4	527·6	526·5	536·5	524·7	527·8	525·27
526·0	528·5	530·0	524·3	522·9	529·3	528·5	527·3	529·3	530·1	530·3	532·1	527·68
532·2	529·4	523·9	520·6	523·7	527·0	—	—	—	—	—	—	—
—	—	—	—	—	—	533·2	532·0	533·1	533·6	533·5	533·4	529·55
527·6	514·5	524·0	527·7	526·5	526·3	526·1	524·8	526·6	527·4	527·4	528·2	527·41
526·6	525·9	524·9	525·4	525·2	525·2	525·1	525·8	525·4	524·8	525·0	524·6	524·73
527·7	527·3	526·4	525·5	527·5	529·0	528·3	528·4	530·1	530·0	531·7	531·3	526·27
532·0	531·5	526·8	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	498·1 <sup>c</sup>	502·5	510·0	512·8	517·9	524·42
537·8	545·8	544·2	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	572·7	575·5	574·8	574·4	575·4	576·4	545·88
591·1	592·6	593·3	592·6	593·1	592·6	593·1	593·8	596·0	596·0	595·5	598·5	585·68
601·5	601·9	601·4	602·4	603·5	603·8	603·0	606·9	604·9	603·0	608·8	608·0	598·83
521·38	518·66	519·26	516·94	517·21	517·28	523·40	521·99	522·68	523·89	524·73	525·30	519·77

TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
39·6	40·0	39·0	37·5	36·4	36·2	36·4	36·5	35·6	35·4	35·8	36·3	37·48
41·6	40·6	40·2	39·6	39·5	39·3	38·7	37·8	37·4	37·9	38·1	38·1	38·25
43·8	43·6	43·6	43·8	44·0	44·1	44·0	44·0	44·0	44·0	43·8	44·0	42·27
48·2	47·6	47·4	47·0	46·5	46·2	—	—	—	—	—	—	—
—	—	—	—	—	—	38·0	38·0	39·0	39·0	38·6	38·0	43·81
35·4	34·2	33·5	33·0	32·5	32·7	33·6	34·4	34·4	34·2	33·8	32·8	34·95
36·5	37·0	37·4	37·2	37·0	37·4	37·6	36·5	37·2	37·6	38·0	38·0	35·33
40·4 <sup>a</sup>	40·4	39·9	39·8	39·3	39·1	38·9	38·2	37·5	36·8	36·7	36·6	38·74
40·0	40·4	40·1	39·5	38·8	38·4	38·8	38·8	38·8	37·9	38·0	37·8	38·31
—	—	—	—	—	42·6 <sup>b</sup>	42·6	41·8	41·8	42·6	43·5	44·5	—
40·2	39·2	38·5	38·0	37·7	37·4	—	—	—	—	—	—	—
—	—	—	—	—	—	31·4	31·5	32·2	33·4	34·6	34·8	38·74
39·5	39·2	38·3	37·5	36·8	36·8	36·6	36·4	37·0	36·7	36·0	35·3	36·88
37·0	36·6	36·2	35·8	35·1	34·6	34·6	34·2	34·0	34·4	34·2	35·0	34·47
40·8	40·5	39·5	38·8	38·7	38·5	37·8	38·0	38·4	38·0	37·5	36·5	37·78
40·5	39·8	39·6	38·5	37·6	36·8	35·8	35·0	34·5	33·0	32·2	31·5	37·11
38·2	37·5	37·2	36·5	35·6	35·2	34·4	33·6	33·0	32·5	32·2	32·3	34·58
40·4	39·8	38·6	37·4	37·2	36·6	—	—	—	—	—	—	—
—	—	—	—	—	—	32·6	33·0	33·1	33·4	33·6	34·0	35·27
40·4	40·6	40·6	40·8	40·9	40·1	39·4	38·2	38·5	38·4	38·8	38·4	38·50
43·7	44·0	44·0	43·5	43·3	43·0	43·0	43·0	42·6	42·6	43·4	43·1	42·09
41·8	41·0	40·2	39·2	38·6	37·6	38·0	37·4	37·2	37·2	37·2	36·7	40·33
40·5	39·5	38·5	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	45·6 <sup>c</sup>	45·5	45·5	45·2	44·9	39·96
46·0	45·7	45·3	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	40·6	40·9	41·2	41·3	41·0	41·2	44·07
43·5	44·0	44·1	44·2	44·0	44·0	43·8	43·6	43·5	43·8	43·8	43·3	42·97
44·6	44·3	44·0	43·6	43·3	42·8	42·5	42·4	42·4	42·2	41·8	41·1	43·69
41·02	40·70	40·26	39·56	39·14	38·84	37·93	38·04	38·04	37·97	37·92	37·72	38·85

<sup>a</sup> Seven minutes late.

<sup>b</sup> Not included in the means; new adjustment on the 10th.

<sup>c</sup> New adjustment on the 24th.

HORIZONTAL FORCE.													
One Scale Division = .000099 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah° = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	608.1	608.3	605.7	601.8	599.9	597.8	597.7	603.3	607.4	611.4	615.0	614.6
	2	619.3	620.3	618.9	616.4	615.0	614.1	616.0	618.8	622.5	625.0	624.8	623.5
	3	627.8	626.7	623.8	619.0	618.0	618.5	621.7 <sup>a</sup>	622.3	626.8 <sup>b</sup>	629.6	628.4	627.1
	4	631.9	631.8	631.3	627.3	624.5	620.6	619.8	618.4	624.1	622.3	625.4	621.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	638.3	636.0	638.9	640.2	640.4	636.9	632.7	636.1	633.9	645.4	634.0	629.4
	7	632.7	625.0	619.5	623.2	613.4	609.0	621.0	619.4	620.0	638.8	634.5	628.4
	8	637.2	637.7	638.8	637.3	636.7	635.9	634.1	634.6	636.1	637.6	635.2	635.3
	9	639.7	640.2	640.6	640.9	638.3	635.1	625.9	626.1	634.1	638.1	645.4	642.0
	10	642.7	642.4	640.5	641.4	639.7	640.1	639.8	638.0	640.2	643.8	645.5	645.7
	11	646.5	644.8	640.1	634.3	636.9	637.0	641.2	645.2	646.8	638.4	640.0	647.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	650.0	642.2	646.4	646.4	637.5	629.3	640.9	642.2	643.8	651.4	653.3	654.3
	14	657.5	655.1	651.9	652.5	645.4	642.9	654.8	657.5 <sup>c</sup>	664.3	656.4	658.0	658.8
	15	660.7	661.2	659.8	656.5	651.6	651.3	653.6	654.5	655.6	656.9	661.6	660.8
	16	663.7	660.5	659.9	655.7	653.0	652.6	660.6	666.6	666.4	664.9	670.0	665.2
	17	669.1	663.3	667.0	663.5	656.6	654.0	652.0 <sup>d</sup>	653.5	666.9	673.8	674.0	671.4
	18	666.6	669.1	668.9	667.5	663.8	662.8	658.3	658.0	663.1	665.0	663.7	668.4
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	676.6	677.6	679.2	672.6	669.6	670.6	672.1	676.4	679.0	681.1	673.8	674.1
	21	682.8	681.0	676.8	673.5	670.0	666.6	667.0	668.6	677.9	680.1	683.1	680.5
	22	685.7	683.9	677.1	677.7	677.1	675.7	681.2	674.8	677.4	684.7	680.4	684.6
	23	688.1	689.2	684.6	684.3	680.4	673.3	669.8	669.3	684.6	685.7	688.3	705.5
	24	693.1	690.1	690.5	687.2	685.6	683.2	682.5	682.0	684.0	687.3	692.0	691.0
	25	696.5	695.3	692.6	687.8	682.0	678.3	677.5	681.5	682.6	688.5	691.0	691.6
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	700.0	699.0	696.7	691.0	685.5	684.8	686.2	689.2	695.6	698.1	701.6	701.5
	28	701.9	699.7	695.3	692.7	688.2	683.0	681.0	686.0	687.1	644.2	697.9	698.4
	29	705.6	700.8	695.6	682.3	686.1	678.8	679.5	681.4	688.8	686.9	686.3	688.0
	30	694.2	691.8	690.6	690.7	687.6	679.9	679.3	683.2	686.5	696.0	698.3	693.4
	31	698.5	697.0	693.2	687.5	683.2	682.1	683.5	691.3	693.9	700.0	703.8	703.9
Hourly Means	663.55	661.85	660.16	657.45	654.30	651.64	652.95	654.75	658.87	662.24	669.46	663.17	
TEMPERATURE OF THE BIFILAR MAGNET.													
MARCH.	1	40.3	39.6	39.4	39.0	39.2	39.0	39.0	39.0	39.0	38.8	38.5	
	2	34.8	34.6	35.4	35.5	36.0	36.5	36.8	37.2	38.2	39.4	39.7	39.6
	3	35.0	35.4	35.6	35.4	36.0	37.0	38.5 <sup>a</sup>	39.0	39.5 <sup>b</sup>	39.8	39.9	40.3
	4	36.2	35.8	36.5	37.2	38.3	39.5	40.2	41.2	42.3	43.0	43.5	43.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	32.0	32.3	32.6	33.2	34.0	34.4	35.5	36.3	36.9	38.0	39.1	40.2
	7	37.0	35.8	35.8	36.9	38.0	38.9	39.4	39.6	40.0	41.0	41.8	42.5
	8	37.6	37.5	37.1	36.8	38.5	40.3	41.4	41.6	42.2	42.8	43.5	43.5
	9	41.7	41.5	42.3	42.5	43.0	43.5	44.3	45.0	45.9	46.5	47.0	47.9
	10	41.7	41.5	41.6	41.4	41.6	42.0	42.8	43.4	43.8	44.3	44.7	44.8
	11	46.0	45.5	45.7	45.3	45.1	45.6	46.0	46.0	46.5	46.8	47.4	48.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	41.6	41.6	41.2	41.0	42.3	43.1	44.3	45.0	45.8	46.0	46.5	46.0
	14	40.2	39.6	38.0	38.4	39.2	40.2	40.8	41.4 <sup>c</sup>	41.7	42.4	43.5	44.4
	15	43.7	43.2	42.5	42.0	42.5	42.8	43.7	44.2	44.6	45.1	45.1	45.6
	16	40.4	40.0	40.8	39.8	40.0	41.0	42.7	44.0	44.9	44.6	44.6	45.0
	17	38.5	38.2	38.5	38.9	39.8	41.5	42.5 <sup>d</sup>	43.3	44.0	44.5	44.9	44.0
	18	38.8	38.5	39.0	39.0	40.0	41.0	41.4	41.7	41.8	41.8	41.8	41.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	37.5	36.6	36.0	37.0	37.6	38.7	38.9	40.7	42.0	43.4	44.0	43.6
	21	39.8	39.6	39.5	39.4	40.5	41.2	41.6	42.0	42.4	42.8	43.7	43.2
	22	41.2	40.4	40.3	40.6	41.2	42.4	43.6	44.1	44.3	44.2	44.8	45.4
	23	39.1	38.1	37.8	37.8	38.0	38.0	38.2	38.2	38.5	38.7	38.6	38.0
	24	36.2	36.6	37.0	37.5	38.7	39.5	40.8	41.5	42.8	43.8	44.5	44.2
	25	39.0	38.3	39.0	41.1	41.5	42.0	42.4	42.8	43.8	44.6	44.6	43.8
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	39.0	38.7	38.6	38.6	38.5	39.0	39.5	40.3	40.6	40.6	40.8	40.9
	28	41.5	42.3	42.8	43.0	43.5	44.6	45.8	47.0	48.0	48.1	47.9	47.3
	29	41.3	41.5	43.3	43.4	43.8	44.7	45.8	47.0	47.8	48.4	48.5	48.7
	30	42.8	42.5	43.2	53.6	44.5	45.6	46.6	47.4	47.9	48.8	48.8	48.0
	31	43.6	43.4	43.7	43.5	43.2	42.8	42.8	43.0	42.6	42.5	42.2	42.1
Hourly Means	39.50	39.21	39.38	39.55	40.17	40.92	41.68	46.29	42.88	43.37	43.71	43.70	

<sup>a</sup> Two minutes late.

<sup>b</sup> Five minutes late.

<sup>c</sup> Three minutes late.

<sup>d</sup> Four minutes late.

HORIZONTAL FORCE.												
One Scale Division = .000099 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = .00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 616.5	Sc. Div. 616.9	Sc. Div. 617.0	Sc. Div. 615.5	Sc. Div. 615.5	Sc. Div. 616.3	Sc. Div. 615.8	Sc. Div. 617.0	Sc. Div. 617.6	Sc. Div. 618.3	Sc. Div. 618.1	Sc. Div. 620.5	Sc. Div. 611.50
623.3	623.6	622.9	622.9	623.0	623.0	624.3	624.4	626.8	627.0	628.2	628.9	622.21
628.1	629.3	629.0	628.1	625.5	627.7	627.8	630.0	630.5	630.8	632.0	632.0	626.69
622.4	620.0	618.0	620.0	619.5	622.3	—	—	—	—	—	—	—
—	—	—	—	—	—	641.6	629.8	623.0	635.0	636.8	638.1	626.05
631.1	627.3	606.7	607.0	618.8	632.5	611.1	614.1	618.2	631.0	628.7	621.9	628.78
627.3	629.2	628.0	633.8	631.6	631.6	635.7	635.8	635.1	636.1	636.8	637.1	628.46
636.0	637.8	636.9	636.0	637.6	637.0	636.5	637.2	637.1	637.0	636.4	640.6	636.77
641.5	640.8	639.2	636.2	634.8	637.9	639.8	640.0	639.5	642.4	641.3	641.8	638.40
643.0	635.3	637.7	639.0	641.0	642.5	645.1	645.6	646.5	644.9	646.8	646.3	642.20
649.5	646.5	646.0	647.8	651.8	653.0	—	—	—	—	—	—	—
—	—	—	—	—	—	644.5	643.9	633.6	651.1	653.3	650.9	644.59
647.5	650.8	640.4	650.8	640.8	650.1	648.1	649.5	648.8	651.0	654.5	655.5	646.90
656.2	656.9	658.4	656.9	661.8	657.9	660.0	657.5	660.9	659.0	659.2	659.9	656.95
660.6	660.2	660.8	660.0	661.2	660.1	663.0	662.0	663.0	663.0	663.0	663.4	659.35
665.1	664.8	663.0	660.0	667.5	665.3	665.0	665.8	666.6	668.5	666.6	669.7	663.62
667.3	654.8	648.7	658.8	666.6	670.7	669.6	670.1	671.4	670.6	669.7	671.0	664.77
669.1	670.5	654.5	667.4	664.6	666.6	—	—	—	—	—	—	—
—	—	—	—	—	—	670.5	680.2	673.3	774.6	675.5	675.3	671.55
676.9	667.5	674.0	673.1	675.0	674.8	676.4	678.7	680.0	678.0	680.0	682.4	675.81
681.9	680.3	682.5	681.2	679.8	681.0	679.4	684.0	686.7	687.0	689.0	690.2	679.62
677.0	674.3	660.0	670.1	673.3	674.8	676.0	683.4	684.6	685.1	685.7	688.4	678.92
688.6	688.0	687.0	689.5	685.3	687.0	690.6	690.4	692.5	693.7	693.5	694.9	686.84
689.1	688.0	688.8	690.0	691.1	693.1	691.0	691.0	693.0	694.1	695.9	695.3	689.54
692.0	691.0	691.5	691.9	688.9	692.2	—	—	—	—	—	—	—
—	—	—	—	—	—	698.0	700.0	699.2	700.5	700.7	695.5	691.11
701.8	700.8	700.1	698.6	698.8	702.3	699.3	702.0	701.0	701.3	701.6	701.8	697.44
697.3	696.8	696.5	695.0	694.9	696.0	696.1	697.3	702.2	701.3	703.8	704.3	695.29
683.0	681.1	679.0	679.2	680.6	684.8	688.0	688.3	690.5	691.2	691.4	693.3	687.10
692.3	694.5	693.0	692.8	696.1	692.1	693.5	694.3	696.4	697.8	699.0	698.5	692.16
706.2	703.2	705.1	704.9	703.6	703.5	705.3	705.7	704.0	705.3	707.0	706.0	699.07
661.87	660.38	657.95	659.50	660.33	662.08	662.67	663.63	663.78	669.47	666.46	666.80	660.79

TEMPERATURE OF THE BIFILAR MAGNET.												
38.6	38.5	37.8	37.8	37.6	37.8	38.0	37.5	37.2	36.6	36.1	35.4	38.28
39.2	39.2	38.8	38.0	37.2	36.9	36.1	35.5	35.0	34.5	34.8	34.6	36.81
40.6	40.2	40.3	40.2	40.0	38.9	38.5	38.5	38.0	37.8	37.5	36.6	38.27
42.4	41.0	39.8	39.4	38.5	38.0	—	—	—	—	—	—	—
—	—	—	—	—	—	32.0	32.5	32.9	32.6	32.6	32.3	37.95
40.0	39.0	37.8	37.0	36.5	36.2	36.0	37.0	37.2	37.1	37.9	37.8	36.42
42.5	42.5	42.0	41.4	40.4	39.8	39.2	38.5	37.8	37.1	37.0	37.2	39.25
43.0	43.4	43.6	43.5	43.9	43.8	43.4	43.0	42.8	42.5	42.4	42.0	41.67
47.8	46.9	46.0	44.8	44.2	43.9	43.5	43.4	43.0	42.8	42.6	42.1	44.25
45.0	45.0	45.2	45.3	45.5	46.0	46.0	46.2	46.2	46.2	46.3	46.2	44.28
47.8	47.8	47.5	47.2	46.5	46.0	—	—	—	—	—	—	—
—	—	—	—	—	—	39.0	39.2	40.4	41.0	41.6	41.7	44.98
45.5	45.1	44.6	44.6	43.8	43.2	42.8	42.4	42.2	42.0	41.5	41.0	43.46
44.6	44.5	44.3	44.0	43.6	43.4	43.1	43.0	43.2	43.5	43.5	43.7	42.26
45.5	44.6	44.4	44.2	44.0	43.5	43.3	43.0	42.6	42.2	41.6	40.8	43.53
45.5	45.6	46.4	45.2	44.0	43.5	42.5	41.4	40.4	39.5	39.5	39.0	42.51
43.2	43.0	43.0	42.6	41.6	41.5	41.4	41.0	40.7	40.1	39.7	38.8	41.47
40.6	40.2	40.4	39.8	39.4	39.0	—	—	—	—	—	—	—
—	—	—	—	—	—	39.4	39.0	38.6	38.0	37.8	37.6	39.83
42.6	42.8	42.0	41.5	41.4	41.0	40.7	40.4	40.0	40.0	39.5	39.8	40.32
42.5	41.5	41.2	41.0	40.7	41.2	41.7	42.0	42.0	42.0	42.0	41.8	41.47
45.5	45.5	45.2	44.8	44.2	43.6	43.3	42.5	41.6	41.2	40.4	39.5	42.91
38.2	38.0	37.8	37.6	37.4	36.5	36.0	35.5	35.1	35.0	35.5	36.0	37.40
43.0	41.5	40.4	39.6	39.4	39.4	39.1	39.0	38.7	38.5	38.8	39.2	39.99
43.0	41.9	41.4	40.7	39.2	38.7	—	—	—	—	—	—	—
—	—	—	—	—	—	38.0	37.8	37.7	38.4	39.0	39.4	40.75
40.6	40.3	40.1	40.0	39.6	40.3	41.2	41.0	41.4	41.5	41.6	41.9	40.19
47.2	47.1	46.9	46.2	45.5	44.8	44.4	43.8	42.8	42.2	41.6	41.2	44.81
48.5	48.5	47.5	47.2	46.6	46.0	46.2	45.1	44.5	43.9	43.2	42.8	45.59
47.2	46.8	46.6	45.8	45.1	44.8	43.8	43.2	42.8	42.8	43.4	43.4	45.22
42.4	42.4	42.6	42.9	43.0	43.1	43.0	43.4	43.0	42.8	42.6	42.0	42.86
43.43	43.07	42.73	42.31	41.81	41.51	40.80	40.55	40.30	40.07	40.00	39.77	41.36

HORIZONTAL FORCE.													
One Scale Division = .000099 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah. = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
APRIL.	1	704.8	706.6	704.3	698.0	696.1	688.5	686.4	690.9	698.3	697.4	708.0	705.8
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	708.8	710.0	703.6	704.6	691.6	687.5	685.6	691.0	733.6	708.0	704.0	705.9
	4	708.2	707.9	707.0	703.0	697.8	693.6	694.1	696.4	701.0	706.1	709.1	708.0
	5	719.1	716.1	702.2	694.6	684.5	657.2	661.7	668.1	686.0	705.3	708.1	711.1
	6	675.3	681.8	670.8	675.7	682.7	684.9	688.3	694.9	701.7	705.9	701.9	681.9
	7	693.3	699.3	703.7	696.5	699.0	694.8	692.6	703.2	701.4	697.7	704.0	700.1
	8	706.5	710.3	701.9	694.0	694.2	693.9	689.7	697.9	700.0	709.9	705.1	708.5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	717.2	716.7	713.2	707.2	702.2	701.1	705.0	713.8	716.5	721.4	721.5	720.5
	11	722.5	719.9	715.9	712.8	709.8	710.1	715.2	714.5	708.3	719.6	723.5	722.3
	12	722.2	720.4	713.8	708.8	698.0	698.0	696.5	708.0	709.7	703.6	718.5	718.4
	13	714.3	713.5	709.8	706.8	699.0	706.5	714.5	720.3	726.0	727.5	721.0	725.0
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	725.7	723.6	719.3	713.1	712.9	710.9	712.4	719.8	722.8	727.8	722.6	722.2
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	737.0	735.3	731.4	726.3	717.5	720.0	724.8	729.5	734.6	742.8	739.1	745.6
	18	745.5	745.5	738.5	736.0	728.3	726.5	728.0	731.5	759.2	746.9	743.8	741.2
	19	746.1	740.8	740.5	738.5	733.3	732.8	735.0	743.0	743.5	748.1	747.3	746.0
	20	739.7	737.4	734.6	730.2	729.7	732.0	735.0	738.1	740.3	742.0	746.4	743.0
	21	743.1	743.8	742.3	734.4	729.3	732.0	736.0	738.0	739.4 <sup>b</sup>	739.2	738.7	738.4
	22	740.5	741.0	739.5	736.3	738.1	741.0	746.9	745.8	745.5	751.2	744.5	742.8
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	749.0	747.9	742.0	736.0	732.3	735.4	738.3	745.0	748.1	751.6	750.7	750.0
	25	755.0	752.0	747.5	741.5	743.3	747.0	752.0	755.1	758.1	758.9	758.4	757.2
	26	756.3	751.5	747.2	745.0	744.8	746.1	752.0	752.5	758.2	759.9	760.6	755.9
	27	757.3	753.5	750.9	742.0	742.8	748.0	753.0	753.4	757.0	760.3	763.2	763.0
	28	760.0	757.4	751.4	743.5	744.2	746.0	751.4	753.3	758.0	763.9	765.7	760.2
	29	761.4	760.5	757.4	752.3	749.0	748.0	751.3	755.4	762.1	771.6	773.8	773.9
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	729.53	728.86	724.53	719.88	716.68	715.91	719.57	723.31	729.55	731.94	732.10	731.12
TEMPERATURE OF THE BILFAR MAGNET.													
APRIL.	1	41.4	41.5	42.5	42.4	43.3	44.6	45.4	46.4	47.2	47.1	47.6	47.9
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	40.8	40.7	41.8	43.4	44.6	46.2	47.6	49.5	50.5	51.6	52.7	53.5
	4	41.5	44.5	44.5	44.4	44.9	45.7	47.0	47.2	46.8	46.8	46.7	46.5
	5	45.8	45.5	47.0	48.0	49.5	50.8	51.5	52.0	52.5	53.0	53.4	53.5
	6	49.6	49.6	50.6	51.5	52.0	52.7	53.0	53.2	53.0	52.6	52.8	53.1
	7	46.7	46.0	46.5	47.0	48.0	48.6	49.2	49.9	50.4	50.8	51.2	51.0
	8	49.0	49.0	49.5	49.6	50.7	51.6	52.8	52.9	53.4	53.8	53.6	53.7
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	44.5	44.4	44.8	45.2	46.4	46.8	47.4	47.9	48.6	49.8	50.7	50.9
	11	46.3	46.0	46.6	47.8	49.4	50.1	50.6	50.8	51.0	51.4	52.5	53.5
	12	48.0	48.5	49.7	50.5	51.8	53.0	54.2	55.3	56.3	57.4	58.2	58.8
	13	50.4	50.0	51.2	51.6	51.9	52.4	52.7	52.8	53.0	53.0	52.8	52.8
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	52.8	52.8	52.8	52.9	53.8	55.2	56.0	56.8	57.5	58.5	58.9	58.9
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	50.0	50.6	51.2	52.4	53.2	53.6	53.6	53.8	53.8	53.8	53.6	53.3
	18	50.0	49.4	49.0	48.5	48.5	48.4	48.4	48.2	48.4	48.4	48.4	48.5
	19	47.5	47.0	47.0	47.0	47.5	48.5	49.5	50.5	51.4	51.5	51.6	51.5
	20	53.5	53.3	53.0	52.8	52.8	53.5	54.0	54.4	55.2	56.0	56.6	57.3
	21	51.6	52.5	53.7	55.5	56.8	57.4	58.0	58.7	59.4 <sup>b</sup>	60.2	60.9	61.2
	22	56.5	56.8	57.2	57.6	58.5	59.0	59.5	59.5	59.4	59.2	59.0	59.0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	59.5	59.3	60.0	60.0	60.0	60.0	69.4	60.7	61.3	61.8	62.0	62.0
	25	57.5	57.2	57.0	57.0	57.5	58.2	58.5	58.8	58.9	59.2	59.8	60.0
	26	56.6	56.4	56.4	56.5	57.0	58.0	58.5	58.8	59.2	60.0	60.3	61.0
	27	57.0	57.0	56.6	56.5	56.4	56.5	56.8	57.1	58.1	59.1	59.6	59.8
	28	57.0	57.0	57.5	58.7	60.0	60.7	61.5	61.9	63.5	64.8	65.3	65.2
	29	58.0	57.3	56.8	56.0	55.6	55.5	55.5	55.6	54.4	54.5	55.0	54.5
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	50.60	50.51	50.95	51.37	52.09	52.79	53.40	53.88	54.33	54.78	55.16	55.31

<sup>a</sup> Good Friday.

HORIZONTAL FORCE.												
One Scale Division = '000099 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fahr. = '00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 708·2	Sc. Div. 697·0	Sc. Div. 690·5	Sc. Div. 696·9	Sc. Div. 697·6	Sc. Div. 700·7	—	—	—	—	—	—	—
702·2	699·8	702·0	700·8	701·5	703·0	701·0	702·0	705·1	706·8	708·3	708·2	700·31
717·0	717·0	713·0	709·2	709·1	709·0	702·0	703·4	703·0	704·7	705·8	709·0	702·98
690·3	693·2	659·2	679·5	669·0	665·3	659·6	634·8	644·0	645·4	664·9	679·1	707·55
688·2	688·4	657·7	667·7	689·2	694·5	689·9	689·8	692·6	692·5	695·9	697·0	679·10
699·7	698·3	705·1	697·2	724·8	707·0	690·5	695·8	694·6	694·0	703·8	707·0	687·64
701·5	694·8	697·1	710·9	705·4	705·0	—	—	—	—	—	—	700·14
—	—	—	—	—	—	708·6	718·9	710·1	711·9	713·0	717·5	704·44
721·0	717·5	715·0	714·6	717·1	717·5	717·2	718·4	719·2	719·2	722·1	716·0	715·46
719·7	717·7	716·1	716·9	722·7	722·2	719·1	728·6	718·6	718·9	715·9	722·2	718·04
711·1	697·8	700·5	702·0	709·1	715·8	714·4	713·0	708·0	717·0	718·3	717·0	710·00
717·1	718·0	715·3	725·5	719·6	620·4 <sup>a</sup>	—	—	—	—	—	—	—
—	—	—	—	—	—	720·2	715·9	712·3	711·8	723·7	717·8	716·74
718·3	722·0	721·1	718·4	719·3	720·4	—	—	—	—	—	—	—
—	—	—	—	—	—	734·2	733·7	732·0	729·3	733·7	736·5	723·00
740·7	739·7	732·5	737·1	733·1	733·1	738·6	733·0	731·0	726·6	733·0	743·0	733·55
738·3	740·4	738·3	735·9	741·5	746·5	743·4	742·6	745·4	744·4	744·8	744·0	740·68
745·6	744·6	744·2	742·6	744·6	744·3	746·2	740·8	740·6	739·8	741·1	740·6	742·08
735·0	733·0	738·7	737·7	737·5	738·0	740·1	739·1	740·4	741·4	743·8	742·5	738·15
738·2	735·8	736·8	735·5	736·0	736·8	737·8	737·4	739·2	740·1	741·0	742·5	737·99
742·9	737·5	742·0	744·0	744·4	744·5	—	—	—	—	—	—	—
—	—	—	—	—	—	743·5	744·0	746·6	746·8	747·0	747·0	743·47
747·9	744·2	745·5	746·2	747·9	746·8	747·0	749·2	748·0	751·0	753·0	754·0	746·12
758·2	754·9	752·0	754·5	753·6	756·2	753·8	754·0	753·5	751·7	754·6	757·0	753·33
753·5	756·4	756·8	757·0	757·0	756·6	758·0	758·7	758·0	755·9	757·0	758·0	754·70
758·1	758·0	758·2	758·1	758·7	758·2	760·0	760·9	758·1	757·2	759·3	759·5	756·19
759·0	760·8	757·1	757·8	757·8	758·4	757·6	758·4	757·9	756·0	759·9	762·3	756·21
771·9	769·7	767·6	765·8	765·0	761·6	—	—	—	—	—	—	—
—	—	—	—	—	—	775·0	775·5	776·4	776·5	776·0	777·0	765·61
728·48	726·52	723·43	725·49	727·56	727·58	727·69	727·38	726·77	727·22	730·47	732·32	726·37

TEMPERATURE OF THE BIFILAR MAGNET.												
47·2	47·3	47·0	46·5	46·0	45·8	—	—	—	—	—	—	—
—	—	—	—	—	—	43·0	42·5	42·0	42·0	41·5	41·3	44·56
54·0	53·0	52·4	51·0	50·0	49·0	58·0	47·4	46·3	45·6	45·3	44·6	47·90
46·5	46·5	46·5	46·6	46·4	46·6	46·6	46·4	46·5	46·3	46·0	45·7	46·09
53·5	53·5	52·9	52·5	52·2	51·9	51·4	51·0	51·0	50·8	50·7	50·5	51·02
53·2	52·5	51·8	51·8	52·0	52·0	51·0	50·2	49·2	48·3	47·6	47·5	51·28
50·5	50·4	50·1	49·6	49·5	49·5	49·2	49·0	49·0	49·2	49·0	48·7	49·12
53·0	52·5	52·3	52·0	51·8	52·0	—	—	—	—	—	—	—
—	—	—	—	—	—	46·2	46·0	45·6	45·4	45·2	44·9	50·27
51·1	50·5	50·0	49·8	49·8	49·6	48·8	48·0	47·5	47·4	47·1	46·5	48·06
54·4	54·4	53·6	52·9	52·5	52·3	51·5	51·0	50·2	59·6	49·0	48·3	50·65
58·9	58·1	57·2	56·5	55·4	54·8	54·0	53·2	52·5	52·0	51·5	51·2	54·04
52·5	52·4	52·0	52·0	51·7	51·4	—	—	—	—	—	—	—
—	—	—	—	—	—	53·2	53·2	53·2	53·2	53·2	53·0	52·32
59·0	58·5	58·3	58·0	57·1	56·5	—	—	—	—	—	—	—
—	—	—	—	—	—	52·5	51·8	51·2	50·7	50·5	50·4	55·06
52·8	52·4	52·2	51·8	51·8	51·5	51·5	51·5	51·6	51·6	51·3	50·5	52·23
48·4	48·0	48·0	47·8	47·7	47·6	47·6	47·3	47·5	47·6	47·5	47·5	48·19
51·6	51·8	52·2	52·6	53·1	53·9	54·3	54·5	54·2	53·8	53·9	53·9	51·26
57·5	57·2	56·6	56·4	55·8	55·2	54·5	54·0	53·6	53·0	52·6	52·0	54·62
61·0	60·8	60·5	60·2	59·2	58·8	58·6	57·7	57·5	57·1	56·8	56·5	57·94
58·5	58·0	57·5	57·2	57·1	57·0	—	—	—	—	—	—	—
—	—	—	—	—	—	60·2	60·0	59·6	59·6	59·6	59·5	58·54
61·6	61·4	61·0	60·7	60·4	60·0	59·8	59·6	59·4	58·4	57·9	57·5	60·20
59·8	59·0	58·4	57·7	57·2	57·0	56·9	56·8	56·7	56·4	57·0	57·0	57·98
61·0	61·0	60·9	60·7	60·4	60·2	60·2	60·0	59·6	59·2	58·5	57·8	59·18
60·4	60·5	60·1	59·5	59·2	59·2	58·8	58·2	58·0	57·5	57·4	57·3	58·19
65·2	65·0	64·2	63·5	63·0	62·5	62·0	61·5	61·0	59·7	59·5	59·0	61·63
54·0	54·0	53·6	53·4	53·2	53·0	—	—	—	—	—	—	—
—	—	—	—	—	—	50·1	49·8	49·6	49·5	49·5	49·5	53·66
55·23	54·95	54·55	54·20	53·85	53·64	52·91	52·53	52·19	51·83	51·59	51·27	53·08

<sup>a</sup> Three minutes late.

HORIZONTAL FORCE.													
One Scale Division = '000099 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MAY.	1	776·2	775·4	768·5	765·5	757·9	763·0	767·8	770·7	778·3	783·7	785·2	778·7
	2	783·5	783·0	778·7	772·0	767·5	765·8	767·7	771·9	777·1	778·5	781·0	782·0
	3	786·5	787·1	782·6	774·8	767·4	773·1	775·9	782·0	784·6	785·2	784·2	780·7
	4	786·8	783·8	780·4	775·3	774·3	776·1	776·4	784·2	782·9	785·3	785·8	787·9
	5	788·3	786·8	783·3	776·5	774·3	775·5	778·0	783·9	785·4	790·8	790·9	792·3
	6	794·0	795·0	793·9	783·0	783·0	783·3	787·3	789·1	791·3	792·3	859·6	951·8
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	765·5	766·5	765·1	764·6	766·0	767·0	770·0	773·9	779·2	769·5	771·1	772·1
	9	768·0	770·0	771·7	761·8	759·7	768·6	770·3	775·5	770·0	774·4	780·6	472·2
	10	777·5	770·8	762·7	760·3	758·8	774·5	769·0	776·7	780·0	768·9	772·8	780·7
	11	772·5	772·3	773·0	768·4	767·0	767·5	769·0	777·2	776·2	775·4	776·4	775·2
	12	770·0	777·5	773·2	775·0	772·0	773·1	778·0	781·2	783·8	782·7	777·1	779·8
	13	778·0	777·8	774·5	770·5	772·0	769·8	772·9	777·3	781·1	783·8	783·5	782·1
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	787·9	793·0	796·3	790·6	784·8	784·3	783·0	802·5	791·2	777·5	771·4	782·2
	16	788·3	791·0	786·6	778·8	778·6	787·6	786·5	781·0	781·2	781·4	791·1	791·0
	17	796·3	793·5	788·5	783·0	784·5	792·0	792·9	795·1	801·0	797·8	802·0	802·6
	18	807·0	806·5	803·6	798·9	795·6	795·0	798·0	804·1	805·6	811·2	809·9	809·5
	19	806·0	803·0	800·8	798·3	799·1	800·3	801·1	804·9	805·2	804·9	805·6	804·3
	20	811·5	812·0	806·4	800·0	896·5	799·0	802·0	802·6	803·3	810·2	809·5	809·9
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	814·0	812·3	807·9	807·5	807·0	807·0	811·0	816·3	822·1	821·6	818·2	816·6
	23	811·8	810·8	809·3	808·1	812·5	819·3	825·0	819·9	820·2	818·2	817·9	817·1
	24	815·8	812·0	808·3	803·4	798·0	800·5	805·8	810·0	818·0	819·5	820·0	818·0
	25	816·5	815·5	810·9	802·0	800·0	803·0	808·0	816·7	823·1	819·7	821·0	819·1
	26	821·8	817·0	812·9	806·5	804·0	800·0	804·0	806·4	814·7	834·2	819·5	804·7
	27	809·9	808·9	807·9	803·3	804·3	807·9	815·4	819·0	825·2	823·6	819·6	822·4
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	824·0	831·0	824·3	825·3	821·5 <sup>a</sup>	811·0	812·5	818·2	824·1	824·1	822·0	829·9
	30	824·0	823·5	821·0	815·0	813·0 <sup>b</sup>	813·8	815·0	816·3	820·6	823·7	824·9	825·8
	31	834·5	830·0	824·8	818·5	814·3	815·1	819·1	825·0	834·9	835·9	836·0	833·8
Hourly Means	796·89	796·52	793·23	788·40	786·57	788·82	791·17	795·61	798·53	799·04	801·36	804·53	
TEMPERATURE OF THE BIFILAR MAGNET.													
MAY.	1	49·0	49·0	49·5	49·8	50·3	49·4	49·0	49·6	48·4	48·8	47·8	47·9
	2	48·5	49·0	49·0	46·9	47·0	46·4	46·5	49·2	50·4	50·6	50·6	51·4
	3	49·0	50·0	50·4	52·4	53·5	54·5	55·0	55·3	55·8	56·1	57·0	57·0
	4	52·5	52·2	52·4	52·4	52·3	52·5	53·0	53·0	53·0	53·5	53·7	53·2
	5	49·6	50·2	51·0	52·0	51·7	51·5	51·3	51·2	50·6	51·2	51·7	51·9
	6	49·6	49·6	49·6	50·3	50·5	52·0	52·5	53·2	54·2	55·2	56·2	56·5
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	55·0	55·4	55·5	55·5	55·6	56·3	56·7	57·3	57·8	58·4	58·4	58·1
	9	54·5	54·5	56·3	57·4	58·0	57·6	58·5	58·5	58·9	59·3	59·8	59·9
	10	56·5	56·5	57·0	57·5	57·7	58·0	58·4	58·5	58·8	59·0	58·8	58·6
	11	57·5	58·2	59·0	59·8	60·5	61·0	61·5	61·6	62·0	62·6	63·0	63·0
	12	58·2	58·6	59·0	60·5	61·4	61·9	62·3	62·6	63·2	63·9	64·2	64·5
	13	59·5	59·5	59·5	60·5	61·5	62·5	63·4	63·8	64·8	65·5	66·5	66·2
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	63·0	63·5	64·5	66·5	67·0	67·4	67·5	67·6	67·8	68·0	68·3	69·0
	16	62·5	63·0	63·5	64·0	64·0	64·0	63·9	63·7	63·9	64·5	65·0	65·6
	17	57·5	58·5	59·0	59·5	60·0	60·0	60·0	60·2	60·4	60·4	60·3	60·4
	18	54·5	55·5	56·5	57·7	58·5	58·5	58·5	58·6	58·9	59·3	59·7	59·9
	19	54·5	54·5	55·0	56·0	56·6	57·2	58·0	58·6	59·2	59·8	60·0	60·2
	20	53·0	54·0	55·0	56·6	57·6	58·5	59·0	59·2	59·8	50·6	61·3	61·8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	56·5	56·6	57·0	57·5	58·0	58·5	58·6	58·9	59·2	59·4	59·8	59·6
	23	57·0	57·5	58·0	58·2	59·0	59·4	59·6	59·6	60·0	60·4	61·3	61·4
	24	55·2	56·0	57·0	57·9	58·3	58·7	58·8	59·5	60·0	60·6	61·4	63·4
	25	56·0	56·5	57·4	59·0	59·6	60·0	60·4	60·5	60·9	60·9	62·0	62·4
	26	57·2	57·0	57·0	57·5	58·0	58·3	58·4	59·2	59·4	59·6	59·8	59·7
	27	58·6	58·4	58·3	58·3	58·5	58·8	59·8	59·5	59·6	59·6	59·4	59·4
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	56·0	56·5	58·0	58·5	59·6 <sup>a</sup>	60·2	60·4	60·6	61·0	61·3	62·1	62·9
	30	56·5	57·0	58·4	59·5	60·2 <sup>b</sup>	60·2	60·3	59·7	58·7	57·8	57·0	56·7
	31	52·0	52·5	53·0	52·9	52·8	52·7	52·7	53·0	53·3	53·5	53·5	53·9
Hourly Means	55·16	55·54	56·14	56·82	57·32	57·63	57·93	58·24	58·53	58·92	59·25	59·43	

<sup>a</sup> Three minutes late.

<sup>b</sup> Five minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000099 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah. = '00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 775·6	Sc. Div. 779·4	Sc. Div. 780·6	Sc. Div. 777·0	Sc. Div. 771·0	Sc. Div. 775·6	Sc. Div. 779·5	Sc. Div. 779·2	Sc. Div. 778·8	Sc. Div. 776·0	Sc. Div. 778·8	Sc. Div. 778·5	Sc. Div. 775·04
782·5	782·6	783·3	783·6	782·0	780·5	778·5	777·2	779·5	783·2	785·0	785·8	778·85
777·9	779·2	779·5	780·0	779·6	780·5	781·6	782·2	783·9	784·5	785·4	786·4	781·03
786·0	784·2	782·8	783·2	784·8	783·0	785·0	786·5	786·0	785·6	787·5	788·0	783·41
790·8	790·0	789·1	789·1	789·2	789·5	789·2	789·8	789·1	791·7	792·0	793·0	787·06
921·6	769·1	740·9	741·9	738·0	780·8	—	—	—	—	—	—	—
—	—	—	—	—	—	759·0	761·9	762·2	762·4	760·3	755·3	790·06
772·4	762·8	755·2	757·3	758·2	759·5	753·6	766·3	763·9	771·7	773·8	772·0	766·55
773·9	773·3	772·7	779·8	771·0	768·7	770·9	770·0	769·4	775·1	776·1	777·5	771·72
787·6	776·6	769·1	779·8	775·9	754·0	778·6	778·1	776·2	775·7	776·7	775·8	773·20
776·9	770·3	768·0	771·1	771·1	773·4	775·6	775·9	776·6	777·5	779·9	775·0	773·39
779·4	776·6	772·3	775·1	772·5	776·2	771·4	776·5	773·8	773·0	780·7	780·8	776·37
776·5	778·4	775·9	776·0	776·3	780·0	—	—	—	—	—	—	—
—	—	—	—	—	—	789·9	790·6	788·1	789·3	788·2	786·5	779·96
786·2	787·5	779·7	767·1	778·5	777·0	764·0	767·1	784·5	787·1	779·7	782·4	782·73
793·9	782·4	783·8	790·8	793·7	780·7	786·8	788·4	794·7	791·5	794·1	790·1	787·25
803·9	801·8	792·9	792·7	791·7	791·2	799·0	795·5	801·1	799·6	799·0	801·8	795·81
805·4	803·7	801·7	801·5	801·2	802·0	801·0	800·5	800·0	802·9	804·1	808·0	803·20
803·9	804·1	802·5	804·0	807·9	806·2	804·8	805·4	805·9	804·9	806·9	810·3	804·18
810·0	803·4	804·2	804·6	805·0	803·6	—	—	—	—	—	—	—
—	—	—	—	—	—	807·0	807·8	808·0	808·3	807·0	810·0	805·91
813·2	812·8	810·2	810·5	810·2	810·1	810·2	810·2	810·5	809·6	810·0	811·0	812·08
811·9	810·1	809·2	804·4	805·3	808·8	810·0	811·3	811·9	811·0	809·8	815·0	812·87
812·4	814·7	815·0	813·1	812·0	811·8	813·0	813·5	811·4	815·8	815·0	817·0	812·25
813·2	814·8	815·6	816·4	816·2	816·2	816·1	818·1	818·8	816·7	816·0	814·0	814·69
825·0	813·5	811·0	810·4	814·9	818·9	820·0	819·0	818·8	819·0	817·8	810·8	814·37
818·0	817·5	812·9	816·2	818·0	816·5	—	—	—	—	—	—	—
—	—	—	—	—	—	821·0	821·9	824·0	823·0	824·7	826·0	816·96
812·9	815·0	816·2	818·5	820·9	821·0	809·1	817·2	818·0	818·1	820·3	821·5	819·86
827·0	825·8	827·0	827·9	825·0	825·0	825·1	825·6	826·9	828·7	828·7	831·3	823·36
832·8	831·8	834·1	834·0	835·5	835·0	833·5	833·2	836·2	834·0	836·0	841·0	830·79
802·62	794·87	792·05	792·81	792·80	793·54	793·83	795·14	796·23	796·89	797·54	798·14	795·29

TEMPERATURE OF THE BIFILAR MAGNET.												
48·0	49·2	49·5	48·8	48·6	48·6	48·6	48·5	48·3	48·3	48·5	48·3	48·40
51·6	52·5	52·4	52·3	52·0	52·2	52·4	50·8	49·6	49·4	49·2	48·5	49·93
56·7	56·0	55·5	55·0	54·4	54·0	53·6	53·2	53·0	52·8	52·6	52·5	53·97
52·8	52·4	52·0	51·5	50·7	50·6	50·1	50·0	49·6	49·3	49·5	49·8	51·75
51·5	51·1	50·7	50·8	50·2	50·3	50·2	50·0	49·6	49·0	49·6	49·9	50·70
56·9	57·2	57·1	57·0	56·6	56·6	—	—	—	—	—	—	—
—	—	—	—	—	—	56·2	56·2	56·2	55·8	55·5	55·5	54·43
58·3	57·8	57·6	57·3	57·1	56·6	56·2	55·6	55·0	54·4	54·5	53·8	56·42
59·9	60·0	60·0	59·4	58·6	58·3	57·7	57·8	57·2	57·0	56·9	56·6	58·02
58·4	58·0	58·2	58·0	58·0	57·9	57·7	57·4	57·3	57·3	57·4	57·3	57·84
63·1	62·8	62·3	62·0	61·5	61·0	60·4	59·8	59·4	58·8	58·5	58·0	60·72
64·3	63·5	63·2	63·0	62·6	62·0	61·4	60·9	60·7	60·5	60·1	59·7	61·76
66·2	65·8	65·6	65·2	64·9	64·4	—	—	—	—	—	—	—
—	—	—	—	—	—	64·4	64·0	64·0	64·0	63·6	63·2	63·69
69·4	69·5	69·0	67·4	66·6	65·8	65·2	65·0	64·1	63·4	62·9	62·4	66·26
65·6	65·3	64·2	63·0	61·9	60·6	60·0	59·4	58·7	58·2	58·0	57·4	62·50
60·5	60·1	59·4	58·9	58·7	58·0	56·8	56·5	55·2	55·2	55·2	54·0	58·53
60·5	60·4	60·3	59·2	58·4	57·5	56·9	56·6	56·4	55·5	55·2	54·5	57·81
60·2	59·6	59·2	58·3	57·6	57·0	56·1	55·5	54·8	54·4	53·6	53·0	57·04
61·9	61·5	61·1	60·8	60·2	60·0	—	—	—	—	—	—	—
—	—	—	—	—	—	58·6	58·4	57·9	57·4	57·0	56·7	58·66
59·4	59·0	58·6	58·4	58·2	58·0	57·7	57·5	57·4	57·5	57·4	57·2	58·16
61·1	60·6	59·9	59·4	58·8	58·0	57·5	57·0	56·4	56·0	55·6	54·5	58·63
63·8	63·7	62·9	61·8	60·4	59·6	58·8	58·4	58·1	57·2	56·9	56·4	59·45
62·4	61·8	61·4	60·6	60·0	59·4	58·7	58·6	58·2	57·8	57·6	57·0	59·55
59·3	59·0	59·2	59·4	59·5	59·5	59·7	59·5	59·4	59·0	59·2	59·2	58·87
59·4	59·2	58·8	58·6	58·2	58·2	—	—	—	—	—	—	—
—	—	—	—	—	—	59·0	58·8	58·2	57·7	56·9	55·5	58·61
63·2	62·9	62·3	61·8	61·0	60·4	59·2	58·6	58·2	57·6	57·0	56·0	59·80
56·4	55·8	55·4	55·2	54·8	54·2	53·6	52·9	52·7	52·3	51·9	51·5	56·20
53·6	52·9	52·4	52·1	51·7	51·4	51·0	50·4	49·8	49·5	49·5	49·5	52·07
59·42	59·17	58·82	58·34	57·82	57·41	56·95	56·57	56·13	55·75	55·55	55·11	57·41



HORIZONTAL FORCE.													
One Scale Division = .000099 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JUNE.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	841.0	841.0	839.0	833.0	829.2	830.9	833.4	833.4	838.5	838.2	842.4	840.0
	2	837.0	838.0	833.4	838.5	837.5	837.3	836.9	837.3	845.6	845.6	850.5	835.8
	3	833.8	828.3	828.2	822.6	819.3	819.4	819.6	824.5	829.6	836.1	834.7	835.7
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	830.0	825.8	824.7	820.0	815.5	817.0	826.3	833.8	837.1	836.0	833.0	830.8
	6	834.1	833.1	833.0	825.8	822.8	824.0	825.6	828.4	829.8	835.9	833.7	834.1
	7	836.5	834.4	829.4	826.5	822.5	823.5	829.8	829.5	837.4	826.9	842.0	848.3
	8	831.1	830.8	827.8	820.4	818.3	821.3	831.8	831.3	833.0	838.0	835.0	834.5
	9	831.0	828.0	827.0	826.0	827.5	827.4	828.0	828.0	829.0	831.8	829.5	826.5
	10	834.6	836.5	835.3	832.4	831.0	832.8	831.3	838.1	845.2	828.4	845.8	845.1
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	844.0	837.0	837.0	831.8	830.0	827.9	835.5	840.6	844.1	841.6	841.5	832.9
	13	835.3	829.3	825.9	827.9	830.8	825.5 <sup>c</sup>	818.0	835.9	830.9	834.3	833.6	841.9
	14	841.8	840.8	838.0	830.6	821.5	822.1	831.0	835.3	837.3	838.9	838.2	830.5
	15	834.5	842.8	841.5	836.0	833.9	837.5	840.5	841.8	847.9	851.1	851.2	845.8
	16	846.0	847.0	840.9	833.9	829.4	828.9	836.0	841.5	844.2	847.2	852.0	849.5
	17	852.0	851.0	847.2	840.8	838.0	836.9	837.8	844.2	852.2	847.2	847.5	848.0
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	852.0	850.8	845.9	840.5	839.5	838.0	842.0	844.0	854.1	858.1	859.1	853.8
	20	848.0	845.8	844.1	841.0	838.5	842.0	846.2	850.8	854.9	852.9	849.9	851.0
	21	850.0	841.0	838.0	836.1	835.0	837.0	836.0	841.4	844.5	847.5	842.8	835.4
	22	844.0	843.3	840.9	835.8	835.1	834.9	839.0	343.1	846.2	846.0	844.0	847.8
	23	843.3	839.8	838.3	836.6	835.0	837.8	840.0	844.4	850.5	854.3	853.1	850.9
	24	850.0	850.3	846.5	842.0	841.8	847.1	849.6	850.1	854.0	859.6	859.6	856.8
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	858.0	858.0	855.1	850.0	842.8	841.0	846.0	850.5	851.4	854.6	854.8	856.5
	27	856.0	855.3	852.5	850.0	847.0	850.0	857.0	862.4	863.6	863.4	863.9	858.0
	28	856.0	853.1	848.5	851.5	855.8	856.0	854.0	863.3	866.9	864.4	860.2	856.0
	29	862.0	860.3	863.1	860.1	853.5	851.3	854.5	862.0	873.0	872.2	875.6	869.0
30	862.5	859.5	857.0	851.0	841.6	839.6	849.6	851.2	863.1	848.0	859.7	880.5	
Hourly Means	844.02	842.35	839.93	836.18	833.57	834.12	837.44	841.80	846.31	846.06	847.43	845.97	

TEMPERATURE OF THE BIFILAR MAGNET.													
JUNE.	1	49.0	49.0	49.5	50.4	50.7	51.4	51.9	52.3	53.2	53.5	54.0	53.7
	2	49.0	49.2	49.4	49.5	50.0	51.0	51.9	52.2	53.0	53.4	53.6	53.5
	3	51.7	51.7	52.0	53.0	53.9	54.6	55.5	55.8	56.0	56.4	56.6	56.8
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	53.8	53.5	53.5	53.5	53.5	54.0	55.0	55.1	55.3	55.6	56.0	56.2
	6	53.8	54.0	54.0	54.3	55.4	56.5	57.4	57.8	58.0	58.0	58.0	58.2
	7	54.0	55.0	55.8	56.5	57.7	58.3	58.6	59.3	60.2	60.4	60.5	60.2
	8	57.0	57.0	57.5	57.5	57.7	57.5	57.8	57.9	58.0	58.0	58.3	58.4
	9	58.5	59.0	59.5	60.7	63.0	64.0	65.0	66.0	67.0	67.5	68.0	68.6
	10	60.6	60.4	60.5	60.1	60.0	60.3	60.0	60.8	61.1	61.0	61.0	60.8
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	57.6	58.5	59.5	60.6	61.0	62.0	62.4	62.9	63.6	64.4	65.6	66.0
	13	60.7	61.6	62.0	62.0	62.5	63.0 <sup>c</sup>	63.2	63.3	63.5	64.0	64.5	64.4
	14	60.5	61.5	62.5	63.3	64.0	64.0	64.2	64.4	64.6	65.1	65.6	66.0
	15	60.0	60.4	61.0	62.3	62.3	62.3	62.5	62.0	62.2	62.2	62.8	63.0
	16	58.8	58.8	58.8	59.0	59.6	60.5	61.0	61.3	61.7	62.4	63.1	63.4
	17	58.8	59.5	60.4	61.8	62.3	62.8	63.0	63.4	63.5	64.0	64.5	64.6
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	60.0	61.0	62.2	63.2	64.2	64.6	65.1	65.6	66.0	66.6	66.8	67.2
	20	62.0	63.0	64.0	65.0	66.0	67.0	67.6	68.2	69.2	70.2	71.0	71.5
	21	66.0	66.5	67.3	68.0	69.0	70.0	71.0	71.8	73.0	74.0	74.5	74.8
	22	69.8	70.7	72.0	72.3	72.8	73.5	74.0	74.5	75.0	76.5	76.6	76.9
	23	70.5	70.5	70.7	71.2	71.5	71.5	71.5	71.7	72.0	72.4	72.9	73.6
	24	69.5	69.5	69.2	69.1	69.0	69.2	69.5	69.8	70.5	71.5	72.7	73.5
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	66.0	67.0	67.5	68.4	69.4	69.5	70.0	70.2	71.1	71.9	72.8	73.5
	27	69.5	70.5	71.6	72.5	73.0	74.0	74.8	75.6	76.4	76.8	76.8	76.8
	28	71.5	71.5	71.5	71.5	71.7	72.2	72.2	72.8	73.6	74.4	74.9	75.2
	29	70.3	70.5	70.7	71.0	71.5	72.0	72.5	73.4	73.7	74.1	75.0	75.0
	30	70.5	71.0	72.0	72.5	72.5	73.2	73.8	74.5	75.4	76.2	76.8	77.0
Hourly Means	61.13	61.57	62.10	62.66	63.25	63.80	64.28	64.72	65.25	65.79	66.27	66.49	

<sup>a</sup> Three minutes late.

<sup>b</sup> Four minutes late.

<sup>c</sup> Five minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = '00027.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
838·6	836·0	835·9	835·7	836·0	835·9	835·5	839·1	839·0	838·1	834·7	833·0	836·56
831·9	837·8	840·0	834·0	833·1	827·3	824·7	831·1	829·8	822·8	819·8	832·5	834·90
843·0	817·1	817·1	810·8 <sup>a</sup>	812·3	822·3	—	—	—	—	—	—	826·30
—	—	—	—	—	—	827·7	827·2	832·5	829·7	829·6	830·0	—
827·6	830·6	834·5	834·0	833·9	824·6	829·0	831·9	830·9	831·5	833·7	837·5	829·57
834·4	830·0	834·8	826·7	822·0	826·9	830·4	829·4	829·5	830·2	831·4	836·0	830·08
831·4	824·0	827·9	820·7	813·5	825·9	814·6	825·1	823·7	829·0	825·0	828·3	828·16
831·5	831·2	833·0	833·3	834·8	835·8	831·3	828·1	828·6	829·0	831·1	831·3	830·51
823·6	825·5	824·7	826·9	827·2	828·9	832·8	831·8	831·4	840·8	842·8	827·1	829·30
830·0	843·1	833·1	838·5	839·1	838·5	—	—	—	—	—	—	—
—	—	—	—	—	—	838·5	836·0	837·3	834·4	839·0	830·9	836·45
846·1	831·2	832·8	829·1	830·4 <sup>b</sup>	830·6	836·2	834·7	832·3	833·6	834·7	831·0	835·27
839·1	838·6	841·0	837·9	840·2	838·6	838·0	838·6	838·3	836·7	837·7	836·0	834·58
838·3	836·8	835·8	835·9	839·8	839·8	838·3	839·0	833·8	836·1	838·1	832·0	835·40
843·9	843·1	840·5	842·6	840·8	838·1	839·0	842·3	840·1	841·2	843·0	843·0	841·75
844·0	845·2	846·5	845·0	842·6	843·8	844·5	845·3	845·0	845·9	846·2	848·5	843·29
848·0	846·0	845·0	843·8	844·2	844·9	—	—	—	—	—	—	—
—	—	—	—	—	—	845·0	846·2	847·5	847·0	845·2	848·0	845·57
851·6	847·0	843·2	843·0	844·2	844·0	845·2	847·0	847·2	847·6	847·8	850·0	847·31
847·3	842·9	841·5	841·7	841·9	841·0	841·0	843·3	843·2	842·9	843·3	845·0	845·01
840·9	838·5	839·4	840·2	841·5	838·7	839·9	839·8	840·9	839·2	842·0	843·0	840·16
840·5	842·2	839·8	844·9	846·8	845·0	842·7	843·2	843·2	845·0	842·7	844·4	842·52
848·8	846·9	851·8	849·2	848·1	847·0	847·4	847·2	848·0	848·2	848·3	850·0	846·04
853·5	853·7	852·2	848·5	850·0	850·8	—	—	—	—	—	—	—
—	—	—	—	—	—	846·8	848·0	850·8	851·6	851·1	858·0	850·93
856·5	857·0	855·4	853·6	854·3	854·0	854·2	854·8	853·8	854·2	855·5	856·0	853·25
858·5	854·0	857·8	854·5	854·5	855·8	853·5	855·0	853·8	854·2	854·9	854·0	855·81
855·0	858·8	858·0	858·3	860·0	861·4	863·9	864·8	864·0	858·8	861·1	860·0	858·74
864·5	859·0	863·4	859·0	852·0	858·8	858·8	859·8	859·8	857·0	859·0	860·0	861·03
861·1	853·6	847·2	848·6	845·0	845·8	838·1	835·9	852·9	853·7	854·5	854·5	852·26
843·45	841·22	841·24	839·86	839·55	840·05	839·88	840·95	841·44	841·48	842·01	842·31	841·19
TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
53·7	53·5	53·1	52·8	52·4	52·1	51·5	51·0	50·6	50·4	50·4	49·5	51·65
52·9	52·0	51·8	51·6	51·4	51·6	52·0	52·1	52·1	52·1	52·0	52·0	51·64
56·4	56·6	56·6	56·4 <sup>a</sup>	56·0	57·7	—	—	—	—	—	—	54·88
—	—	—	—	—	—	53·6	53·8	53·8	54·2	54·2	53·8	—
56·2	55·8	55·4	55·2	55·0	54·6	54·6	54·5	54·4	54·4	54·2	54·0	54·72
57·8	57·4	57·2	56·8	56·4	56·1	55·5	55·1	54·7	54·5	54·3	53·6	56·03
60·1	59·7	59·4	59·2	59·0	58·6	58·3	58·2	58·2	57·8	57·4	57·0	58·31
58·6	58·5	58·6	58·6	58·6	58·4	58·7	58·2	58·0	58·4	58·5	58·5	58·09
68·6	68·5	67·6	67·1	66·9	65·7	64·6	64·0	63·4	62·8	62·0	61·5	64·56
60·5	60·1	60·0	59·8	59·5	58·8	—	—	—	—	—	—	—
—	—	—	—	—	—	58·6	58·4	58·0	57·4	57·4	57·0	59·68
66·2	65·6	65·2	64·4	63·5 <sup>b</sup>	63·0	62·4	61·8	61·0	60·8	60·6	60·5	62·46
64·4	64·5	64·4	64·2	63·8	63·4	63·0	62·6	62·2	61·8	61·2	60·8	62·96
66·8	66·8	65·8	65·2	64·5	63·5	62·6	62·4	61·0	60·4	60·0	59·5	63·51
62·8	62·7	62·6	61·9	61·4	61·0	60·6	60·0	59·7	59·4	59·2	59·2	61·39
63·6	63·7	63·4	63·0	62·8	61·8	61·0	60·4	60·0	59·0	58·6	58·2	61·00
65·2	65·4	64·8	64·3	63·6	63·2	—	—	—	—	—	—	—
—	—	—	—	—	—	63·0	62·4	61·6	61·0	60·5	59·5	62·64
67·2	66·9	66·2	66·0	65·7	65·2	65·0	63·8	63·3	63·0	62·5	61·5	64·53
71·4	71·2	70·5	69·6	69·2	68·7	68·2	67·5	67·1	66·7	66·2	66·0	67·79
74·8	74·6	73·8	73·5	73·1	72·6	72·4	72·4	72·0	71·5	70·5	69·5	71·52
76·4	75·5	75·2	75·0	74·4	74·0	73·4	72·6	72·3	71·6	71·4	70·5	73·62
74·1	73·6	73·5	73·2	72·8	72·2	71·7	71·1	70·7	70·4	70·0	69·5	71·78
73·8	73·8	73·3	72·6	72·0	71·5	—	—	—	—	—	—	—
—	—	—	—	—	—	67·6	68·4	67·8	67·6	66·7	66·0	70·17
73·4	73·8	73·5	72·8	72·4	71·8	71·6	71·0	70·5	70·0	69·5	69·0	70·69
76·4	76·2	75·6	75·4	75·2	75·0	74·2	73·8	73·5	73·0	72·7	71·4	74·20
74·9	74·2	74·0	73·7	73·2	72·8	72·5	72·0	71·8	71·3	71·2	70·2	72·70
75·0	74·8	74·5	74·4	74·0	73·5	72·8	72·4	71·8	71·1	70·5	70·5	72·71
77·4	77·2	77·0	76·2	75·6	75·1	74·5	74·4	74·2	74·0	73·4	73·4	74·49
66·48	66·25	65·88	65·50	65·09	64·69	64·00	63·63	63·22	62·88	62·50	62·00	64·14

HORIZONTAL FORCE.														
One Scale Division = '000099 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '00027.														
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .		
JULY.	1	856·8	856·5	852·0	845·9	836·9	835·5	844·4	839·3	848·8	863·8	863·5	858·8	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	875·2	877·1	867·5	863·8	853·8	852·6	855·7	867·3	873·9	884·4	882·3	883·8	
	4	874·8	875·0	873·6	873·4	870·0	866·6	867·0	872·0	878·4	878·3	889·6	886·2	
	5	876·0	873·0	870·4	866·5	865·7	870·0	875·9	883·1	892·5	892·8	891·1	893·0	
	6	885·6	886·0	882·0	878·0	877·2	874·9	877·3	877·6	882·2	884·5	887·1	884·0	
	7	883·0	883·0	880·0	879·0	875·4	878·3	884·5	884·2	886·1	885·3	887·9	892·6	
	8	887·6	887·3	891·3	877·2	867·8	864·4	878·3	884·1	885·3	884·1	889·1	884·0	
	9	—	—	—	—	—	—	—	—	—	—	—	—	
	10	890·0	892·4	876·3	877·6	876·8	870·8	876·9	871·9	884·5	887·9	891·3	891·9	
	11	888·0	882·0	883·9	885·5	878·7	877·0	880·7	884·6	885·0	894·0	891·2	902·7	
	12	895·3	892·5	889·9	888·3	886·3	890·9	896·0	896·0	896·5	897·1	897·1	894·4	
	13	890·0	896·0	893·0	887·3	886·0	888·5	886·0	888·3	890·3	899·6	896·1	884·8	
	14	893·0	885·3	890·6	885·8	885·0	876·5	876·9	881·7	887·9	894·7	899·7	900·2	
	15	895·0	887·3	890·9	891·0	883·4	883·2	882·0	886·1	887·3	890·1	899·6	907·9	
	16	—	—	—	—	—	—	—	—	—	—	—	—	
	17	896·9	894·9	886·1	887·7	892·8	893·8	893·7	895·0	896·6	897·0	896·2	894·3	
	18	901·2	897·9	892·6	886·9	883·9	886·4	892·1	900·1	901·4	904·8	904·2	899·9	
	19	898·9	900·5	898·9	896·1	892·4	890·4	890·4	900·4	908·0	909·4	904·5	907·1	
	20	909·4	908·7	904·8	903·0	896·3	895·8	901·4	905·0	908·0	913·7	915·1	912·8	
	21	909·0	909·0	908·0	905·0	902·3	902·0	906·0	906·4	914·3	912·1	919·7	918·7	
	22	912·0	910·0	910·0	905·0	903·0	910·0	912·0	912·3	911·2	909·8	910·8	905·0	
	23	—	—	—	—	—	—	—	—	—	—	—	—	
	24	910·3	909·0	909·4	910·0	904·8	905·8	905·0	916·4	909·6	918·7	900·3	905·3	
	25	889·3	872·0	867·8	872·9	862·4	865·2	891·2	912·5	927·2	943·3	929·6	924·7	
	26	901·0	899·3	888·9	893·0	891·8	900·8	904·9	916·0	911·9	906·9	905·6	905·0	
	27	902·5	903·5	898·0	894·4	892·5	899·9	902·3	899·3	910·4	919·6	920·0	919·1	
	28	909·3	901·0	905·6	900·0	913·9	915·3	912·8	916·2	920·6	921·2	920·4	908·2	
	29	915·1	914·3	910·0	899·5	899·3	900·8	901·5	904·2	920·9	926·4	916·2	925·3	
	30	—	—	—	—	—	—	—	—	—	—	—	—	
	31	915·0	927·8	923·9	923·0	921·1	919·9	917·9	924·3	927·2	930·6	933·8	931·6	
Hourly Means	894·62	893·13	890·21	887·53	884·60	885·20	888·95	893·24	897·92	901·93	901·62	900·82		
TEMPERATURE OF THE BIFILAR MAGNET.														
JULY.	1	73·5	74·0	75·0	76·2	76·8	77·4	78·2	79·2	79·8	80·4	81·3	81·1	
	2	—	—	—	—	—	—	—	—	—	—	—	—	
	3	68·2	68·8	69·5	69·8	68·4	68·0	68·4	68·5	68·8	68·8	68·7	69·2	69·9
	4	65·5	65·5	65·5	66·9	67·6	68·0	68·5	68·8	69·2	69·5	69·5	69·8	62·6
	5	66·8	66·6	67·6	68·5	68·6	69·5	69·5	69·5	69·5	69·9	70·5	71·0	71·0
	6	65·4	66·0	67·0	67·8	68·5	69·5	69·5	69·7	70·4	70·8	71·5	71·8	71·8
	7	66·3	66·0	66·0	67·0	67·0	68·2	68·5	68·8	69·6	70·5	71·5	72·1	72·1
	8	67·5	68·0	69·0	70·0	70·8	72·0	72·3	72·6	73·5	75·0	75·2	75·6	75·6
	9	—	—	—	—	—	—	—	—	—	—	—	—	—
	10	69·4	69·8	69·8	69·8	70·6	71·2	71·9	72·5	73·0	73·5	73·5	73·5	73·5
	11	65·4	65·4	67·0	67·5	68·1	67·7	67·0	67·5	68·0	67·4	68·4	69·0	69·0
	12	63·0	64·0	65·0	66·0	67·0	67·5	68·2	68·6	69·2	69·8	70·6	71·0	71·0
	13	63·0	64·6	65·0	66·5	67·5	68·5	69·0	69·6	70·2	70·8	71·3	71·5	71·5
	14	66·2	67·0	67·6	68·5	70·0	71·0	71·8	72·4	73·2	74·0	74·5	74·8	74·8
	15	69·5	69·5	69·3	69·2	69·4	69·6	70·5	70·8	71·6	71·8	72·2	72·6	72·6
	16	—	—	—	—	—	—	—	—	—	—	—	—	—
	17	70·0	69·8	69·7	69·5	69·4	69·7	70·4	71·5	72·5	73·5	73·8	73·8	73·8
	18	71·5	71·8	73·8	74·0	74·5	74·8	75·5	76·2	77·0	77·6	78·0	78·6	78·6
	19	71·4	71·2	70·8	71·2	71·5	71·5	71·6	71·6	72·2	72·2	72·3	72·6	72·6
	20	66·0	66·5	67·5	68·1	68·5	68·8	69·0	68·8	69·0	69·3	69·8	70·2	70·2
	21	65·0	65·4	66·3	67·0	67·5	67·6	68·4	68·8	69·5	70·0	70·6	71·2	71·2
	22	66·0	67·0	68·0	69·0	69·7	70·4	71·0	71·8	72·8	73·8	74·5	74·5	74·5
	23	—	—	—	—	—	—	—	—	—	—	—	—	—
	24	71·5	71·4	71·4	71·8	72·4	72·8	73·4	73·6	74·5	75·5	75·8	76·8	76·8
	25	68·6	69·4	70·3	71·5	72·2	72·3	72·2	72·5	73·0	73·6	74·3	74·5	74·5
	26	69·3	69·9	70·9	71·5	72·2	73·0	74·0	74·5	75·4	76·4	76·5	76·5	76·5
	27	71·0	71·6	72·6	73·5	74·0	74·2	74·4	74·5	74·8	74·8	74·8	74·8	74·8
	28	69·6	70·0	71·0	71·7	72·5	73·5	74·5	76·0	76·6	76·8	76·4	76·1	76·1
	29	72·5	72·5	72·3	72·0	72·0	72·0	72·0	72·0	72·0	72·0	72·3	72·4	72·5
	30	—	—	—	—	—	—	—	—	—	—	—	—	—
	31	65·5	66·5	67·0	68·0	68·7	68·8	69·0	69·3	69·6	69·6	69·8	70·2	70·2
Hourly Means	67·98	68·39	69·03	69·71	70·21	70·67	71·10	71·52	72·11	72·60	73·02	73·26	73·26	

HORIZONTAL FORCE.													
One Scale Division = .000099 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = .00027.							
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.	
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
866.0	848.7	847.0	853.3	844.6	849.9	—	867.0	867.6	865.0	873.9	874.0	871.2	855.43
880.5	870.8	875.0	882.0	872.5	872.4	875.4	875.0	873.5	879.0	876.2	876.0	876.0	872.74
887.3	884.9	874.0	878.4	875.0	880.4	871.5	870.9	877.5	878.0	877.9	877.1	877.1	876.58
880.4	880.4	877.2	879.8	880.0	880.6	881.1	882.9	884.2	882.9	881.9	884.9	880.26	880.26
885.8	883.0	884.8	886.9	884.3	884.0	883.9	882.2	881.0	881.2	880.8	881.3	881.3	882.32
879.8	904.5	879.3	863.4	876.0	874.7	883.8	860.7	876.2	882.7	878.2	873.2	873.2	880.49
881.5	875.3	874.4	879.2	878.5	881.5	—	—	—	—	—	—	—	—
—	—	—	—	—	—	884.8	888.1	889.3	892.6	885.9	879.1	879.1	882.11
884.8	879.9	883.6	882.6	886.8	886.2	888.1	887.2	885.2	890.3	885.0	883.3	883.3	883.80
905.5	884.4	891.1	889.5	892.3	892.8	893.0	894.6	893.4	894.1	894.3	895.0	895.0	889.72
895.1	894.9	887.5	883.8	892.8	891.2	892.0	895.5	893.4	893.9	894.2	894.1	894.1	892.86
896.4	896.4	895.8	895.2	887.4	886.4	884.7	895.7	895.0	895.0	896.1	896.0	896.0	891.92
895.6	896.7	890.3	890.7	893.0	883.4	888.5	892.5	893.0	890.6	892.6	893.5	893.5	889.90
898.0	898.6	896.3	893.0	892.4	888.7	—	—	—	—	—	—	—	—
—	—	—	—	—	—	898.1	897.6	903.2	900.7	899.0	899.1	899.1	893.69
895.2	897.0	898.4	898.4	895.9	892.1	896.1	896.8	899.0	897.2	898.3	899.7	899.7	895.38
895.9	894.0	893.3	892.3	893.0	896.9	893.7	895.9	896.6	895.0	897.5	899.5	899.5	895.63
901.3	901.7	901.6	900.6	895.0	893.5	899.9	903.4	905.6	905.9	906.0	906.9	906.9	900.77
910.9	910.6	906.2	905.0	905.9	908.4	906.4	907.4	908.0	910.8	912.6	909.1	909.1	907.30
914.0	912.9	912.6	911.0	905.2	908.1	908.9	908.3	909.7	911.1	907.4	908.0	908.0	909.57
910.0	905.5	904.1	908.0	907.9	908.6	—	—	—	—	—	—	—	—
—	—	—	—	—	—	907.0	907.2	910.2	904.5	905.2	909.0	909.0	908.26
916.1	908.0	902.1	897.8	909.8	909.1	908.6	907.0	892.1	889.5	885.9	881.4	881.4	904.67
894.5	889.8	882.9	872.7	878.6	892.2	895.5	891.5	900.1	896.0	893.0	898.9	898.9	893.49
899.6	894.3	895.0	897.1	898.6	908.9	901.0	890.6	898.1	902.4	898.6	899.0	899.0	900.35
910.6	907.3	897.4	895.7	895.9	907.2	908.8	909.3	909.7	910.3	912.5	911.0	911.0	905.72
910.1	910.8	912.4	910.0	913.7	905.8	905.6	907.8	908.9	909.4	909.9	909.0	909.0	910.76
933.0	917.1	912.1	910.8	912.4	921.0	—	—	—	—	—	—	—	—
—	—	—	—	—	—	912.4	911.6	914.4	918.6	919.4	920.0	920.0	914.01
928.2	928.9	822.3	927.8	920.6	929.8	933.0	925.4	927.8	926.0	926.6	927.0	927.0	926.19
898.31	895.25	892.18	891.73	892.20	893.61	894.97	894.33	895.77	896.60	895.72	895.47	894.00	
TEMPERATURE OF THE BIFILAR MAGNET.													
°	°	°	°	°	°	°	°	°	°	°	°	°	
80.6	80.1	79.6	79.5	79.4	79.3	—	—	—	—	—	—	—	76.13
—	—	—	—	—	—	70.5	70.0	69.4	69.1	68.5	68.2	68.2	76.73
70.4	70.6	70.5	70.0	69.6	69.2	68.5	67.8	67.4	67.1	66.8	65.5	65.5	68.73
69.2	68.8	68.6	68.8	68.4	68.5	68.4	68.2	68.2	68.0	67.6	68.0	68.0	68.13
71.2	71.0	70.5	69.6	69.0	68.7	68.2	68.0	67.2	66.5	66.0	65.5	65.5	68.70
71.8	71.6	70.8	70.2	70.0	69.5	69.1	69.0	68.6	68.5	68.2	66.0	66.0	69.22
72.4	71.9	71.2	71.0	70.6	70.2	69.8	69.3	68.6	68.4	68.0	67.0	67.0	69.16
75.7	75.0	74.2	74.0	72.6	72.2	—	—	—	—	—	—	—	—
—	—	—	—	—	—	71.2	71.0	71.0	70.6	70.0	69.4	69.4	72.02
73.2	72.6	71.8	71.0	70.0	69.4	68.9	68.2	67.3	66.8	66.4	65.8	65.8	70.41
69.4	69.0	68.8	68.2	67.8	67.2	66.4	65.6	64.9	64.0	63.5	63.0	63.0	66.92
71.0	70.8	70.8	69.2	68.5	68.0	67.2	66.4	65.5	65.0	64.4	63.5	63.5	67.51
71.6	71.3	70.5	70.0	69.5	69.1	68.8	68.5	67.6	67.3	67.0	66.0	66.0	68.53
74.8	74.4	74.0	73.6	72.8	72.5	72.0	71.5	71.1	70.7	70.2	70.0	70.0	71.61
72.6	72.6	72.5	72.3	71.8	71.6	—	—	—	—	—	—	—	—
—	—	—	—	—	—	71.6	71.5	71.4	71.2	70.8	70.4	70.4	71.10
73.4	73.0	72.7	72.6	72.3	72.1	71.8	71.5	71.2	71.1	70.8	70.5	70.5	71.52
78.5	78.2	77.3	76.5	76.1	75.2	74.9	74.3	73.8	73.2	72.6	72.0	72.0	75.25
72.6	72.1	71.3	70.9	70.2	69.5	68.6	68.0	67.5	67.0	66.6	65.6	65.6	70.42
70.8	70.8	70.3	69.6	69.0	68.4	67.6	66.8	66.1	65.5	64.8	64.5	64.5	68.15
71.4	71.0	70.4	69.9	69.2	68.6	68.1	67.5	67.2	66.8	66.5	66.0	66.0	68.33
74.2	74.0	73.0	72.8	72.5	72.4	—	—	—	—	—	—	—	—
—	—	—	—	—	—	73.4	73.3	73.2	72.4	72.1	71.9	71.9	71.82
76.8	76.3	75.2	74.1	73.4	72.6	71.8	71.2	70.7	70.2	69.5	68.6	68.6	72.97
74.4	74.1	73.5	73.2	73.0	72.8	72.2	71.6	71.2	70.5	70.0	69.5	69.5	72.10
76.2	75.8	75.2	74.4	74.0	73.6	73.3	72.8	72.2	72.0	71.1	71.1	71.1	73.41
74.8	74.4	73.6	73.1	72.6	71.9	71.6	71.2	70.9	70.4	70.0	69.8	69.8	72.89
76.9	76.1	75.8	75.5	75.2	75.0	74.5	74.3	74.2	74.0	73.4	72.7	72.7	74.26
72.8	72.8	72.4	71.7	70.6	69.8	—	—	—	—	—	—	—	—
—	—	—	—	—	—	68.2	67.6	67.0	66.5	66.0	65.5	65.5	70.72
70.5	70.5	69.7	65.4	66.2	66.0	66.0	66.2	66.4	66.3	65.8	65.0	65.0	67.75
73.35	73.03	72.47	71.81	71.32	70.90	70.10	69.67	69.22	68.81	68.33	67.73	67.73	70.68

HORIZONTAL FORCE.													
One Scale Division = .000099 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah° = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
AUGUST.	1	926.5	927.0	923.5	921.0	920.3	920.5	922.1	928.3	936.1	944.4	943.6	935.6
	2	925.0	921.8	917.0	909.0	907.7	917.0	927.2	935.8	939.1	939.7	939.0	933.2
	3	925.5	926.0	922.6	922.0	517.9	926.0	933.9	935.9	945.2	935.5	931.9	939.0
	4	908.8	906.9	911.3	914.3	912.0	913.8	917.1	930.8	937.4	925.4*	924.3	919.6
	5	925.0	923.0	918.6	913.3	913.5	914.0	918.3	919.8	923.8	923.4	925.1	926.0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	924.8	025.3	919.8	913.1	915.5	920.5	921.5	921.5	924.5	927.0	026.7	930.0
	8	924.0	922.8	920.9	908.3	916.3	916.5	910.4	912.3	913.1	911.8	920.0	924.6
	9	925.9	921.5	910.6	906.5	906.9	905.1	908.8	917.1	920.3	931.0	936.2	940.1
	10	927.0	922.5	915.8	905.5	906.8	913.6	916.9	929.4	930.8	930.9	933.4	933.5
	11	937.3	932.0	921.6	912.8	918.6	921.9	922.3	924.7	943.6	943.3	945.5	934.8
	12	937.0	934.0	920.0	915.1	922.3	922.4	918.9	924.7	929.4	932.7	939.0	932.0
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	934.0	931.3	927.0	924.0	919.0	919.3	925.0	931.1	937.8	930.0	936.5	941.0
	15	935.5	933.3	928.4	925.0	920.5	915.0	918.8	923.9	928.3	933.0	938.7	941.8
	16	936.3	940.3	935.0	927.5	923.6	923.0	927.2	937.5	936.7	942.5	942.4	942.0
	17	940.5	940.0	937.0	930.3	926.0	930.5	936.0	942.3	948.5	947.9	947.0	947.2
	18	946.0	945.5	940.4	937.6	936.3	938.9	945.5	946.2	956.8	957.7	956.5	952.8
	19	949.0	948.0	941.9	941.0	938.0	941.8	944.5	949.7	949.8	949.8	945.1	949.8
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	950.8	947.5	941.3	937.0	938.0	943.5	948.5	953.3	958.5	962.8	958.9	958.3
	22	960.0	952.5	958.5	946.3	945.1	940.5	938.3	961.6	057.4	854.0	985.1	964.2
	23	951.5	948.5	943.7	941.5	935.3	934.2	936.0	940.2	948.1	947.3	951.7	941.6
	24	945.0	947.3	942.8	945.5	939.8	946.5	949.3	950.6	957.1	953.8	951.9	950.9
	25	954.9	951.6	945.4	946.5	940.8	944.8	945.6	952.7	957.0	965.5	958.4	956.6
	26	946.0	945.8	939.6	932.3	928.4	933.0	942.9	953.9	959.2	954.0	953.8	940.1
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	950.0	949.0	943.6	935.8	931.4	930.7	933.9	936.3	945.8	944.4	951.6	952.4
	29	954.1	954.5	949.0	942.0	936.5	934.5	941.0	947.1	951.1	956.8	957.4	955.4
	30	956.6	957.5	953.0	945.5	944.0	941.0	950.0	953.6	958.8	959.5	962.6	955.7
	31	954.0	954.0	948.6	944.0	942.2	946.5	944.6	948.9	956.1	960.1	956.7	957.2
Hourly Means	938.87	937.39	932.48	927.51	926.03	927.70	931.28	937.38	942.62	942.93	945.15	942.79	
TEMPERATURE OF THE BIPOLAR MAGNET.													
AUGUST.	1	65.5	66.0	67.0	68.0	68.4	68.8	68.5	68.2	68.2	68.5	69.0	69.6
	2	65.0	66.0	66.5	67.0	67.6	68.2	67.8	68.2	69.0	70.0	70.2	70.8
	3	65.2	66.0	66.7	68.0	68.6	70.0	70.5	71.0	71.9	72.8	73.4	74.0
	4	67.0	67.5	68.5	70.0	71.0	72.0	72.5	73.4	73.6	74.3*	74.5	74.8
	5	69.4	69.3	69.5	70.0	71.0	72.3	73.4	74.0	74.5	75.0	75.4	75.8
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	71.5	72.0	72.5	73.5	73.8	74.9	75.6	75.3	75.7	75.8	76.0	76.5
	8	71.5	71.5	71.5	71.7	72.0	72.5	73.0	73.4	73.8	74.0	74.5	74.8
	9	69.6	69.5	70.0	70.5	70.5	71.1	71.5	72.3	72.6	72.9	73.1	73.0
	10	69.1	69.5	70.3	71.3	72.0	73.0	73.7	74.4	74.7	75.0	75.2	75.2
	11	69.4	69.8	70.5	71.5	72.2	73.0	73.0	73.4	73.8	74.4	75.1	75.5
	12	70.0	70.0	71.0	71.6	72.8	74.0	75.0	75.4	75.9	76.4	76.6	77.0
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	72.0	72.0	72.0	72.0	72.0	72.0	72.5	73.5	74.5	75.5	76.0	76.6
	15	70.5	71.0	72.0	72.5	73.0	73.5	73.8	73.6	73.7	74.0	74.2	74.1
	16	68.0	68.5	69.5	70.5	71.5	72.5	73.5	74.4	75.0	76.0	76.6	77.0
	17	72.0	72.0	72.0	72.5	72.6	73.4	74.0	74.0	74.5	75.0	75.4	75.4
	18	71.0	70.9	70.8	70.9	71.0	71.4	71.5	71.8	72.2	72.4	72.7	72.7
	19	67.0	67.0	67.3	67.7	68.5	69.5	69.7	70.1	70.4	70.4	70.5	70.5
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	66.0	66.2	67.0	67.7	69.0	69.2	69.5	69.6	69.8	70.2	70.6	71.0
	22	65.0	64.7	65.8	67.0	68.0	69.0	69.5	69.6	70.0	70.4	70.6	71.0
	23	67.0	67.0	67.5	68.6	70.0	70.5	70.6	71.0	71.7	72.2	72.4	72.8
	24	66.0	66.5	67.5	68.5	69.5	70.0	70.4	70.7	71.4	71.8	72.4	72.5
	25	66.0	66.3	66.7	67.5	68.7	70.0	70.5	71.1	72.0	72.7	73.4	73.8
	26	69.2	69.0	69.2	70.0	70.6	72.0	73.4	74.6	75.6	76.4	76.6	77.2
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	71.5	71.5	71.5	72.0	71.9	72.3	72.9	73.6	74.1	74.7	75.3	75.5
	29	70.5	71.0	71.5	72.6	74.0	74.7	75.0	75.5	76.0	76.4	76.5	77.2
	30	70.0	70.5	71.0	72.0	73.5	74.2	75.0	75.7	77.0	78.0	78.8	79.0
	31	74.0	74.0	74.5	75.5	76.5	77.4	78.0	78.5	79.0	79.6	80.3	80.9
Hourly Means	68.85	69.08	69.62	70.39	71.12	71.90	72.38	72.83	73.36	73.88	74.27	74.60	

\* Five minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000099 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '00027.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
932.9	931.5	924.2	925.4	927.5	926.8	925.0	926.0	927.7	927.0	926.9	927.0	928.20
928.4	927.2	926.0	927.5	926.0	926.7	926.2	918.4	920.2	922.6	926.8	929.0	925.69
929.3	931.9	919.1	905.9	919.8	917.2	921.2	917.8	926.4	929.5	910.0	922.3	925.49
914.5	920.5	921.1	919.3	920.8	916.6	921.4	923.3	924.6	919.4	918.1	920.4	919.36
922.2	920.4	922.6	921.0	921.2	916.5	—	—	—	—	—	—	921.23
—	—	—	—	—	—	919.2	920.5	924.6	928.0	923.6	926.0	923.05
925.7	928.7	923.0	918.1	913.7	917.0	923.0	925.8	926.1	927.7	933.2	921.0	917.48
928.3	914.3	908.3	922.1	920.7	918.0	914.6	908.6	922.1	927.9	920.8	912.8	924.17
929.6	929.8	928.2	926.0	927.5	928.0	927.3	931.7	932.2	929.1	930.2	930.3 <sup>b</sup>	927.79
931.8	930.9	928.8	929.6	933.1	931.5	532.7	932.3	936.6	935.4	940.1	938.0	931.34
934.4	934.3	931.8	932.9	931.1	931.6	934.8	935.2	934.7	933.4	929.0	930.5	928.99
930.0	926.4	930.7	927.7	927.4	929.5	—	—	—	—	—	—	932.16
—	—	—	—	—	—	931.7	930.5	934.5	931.7	933.1	935.0	933.33
934.2	937.8	934.9	933.8	933.9	934.0	934.6	931.4	931.7	937.2	934.3	938.0	936.38
935.4	939.1	938.4	935.2	937.1	936.0	938.5	939.0	938.6	941.1	939.0	939.8	938.66
939.8	940.8	936.2	934.0	934.3	936.9	938.9	936.6	941.4	940.1	939.8	940.3	946.33
940.7	938.5	936.6	937.1	934.5	931.8	935.7	934.9	938.5	941.0	042.3	943.0	947.08
948.8	945.0	945.0	944.1	943.2	940.6	941.4	947.1	948.4	949.0	948.5	950.6	951.08
948.3	949.0	945.8	949.1	946.0	947.8	—	—	—	—	—	—	949.44
—	—	—	—	—	—	948.0	949.9	949.3	947.6	949.0	951.8	944.81
954.6	951.7	951.3	950.3	949.8	949.0	950.0	958.2	957.4	955.0	950.2	950.0	949.69
954.3	930.7	920.2	936.0	932.4	954.5	956.6	952.3	954.5	945.9	944.9	940.8	949.48
944.6	936.0	948.6	941.8	949.7	948.4	945.8	947.9	949.2	948.3	946.1	950.0	945.68
952.8	949.9	952.4	950.0	951.2	955.5	952.8	950.6	949.3	949.0	948.5	950.0	946.32
951.3	947.3	950.1	938.0	951.4	947.6	947.9	947.8	949.5	946.7	946.1	949.1	951.36
945.0	943.1	945.1	943.5	951.4	945.8	—	—	—	—	—	—	951.91
—	—	—	—	—	—	947.2	949.6	948.1	948.0	947.4	947.0	948.46
946.8	949.2	946.1	948.5	955.4	951.8	951.0	952.0	951.0	950.6	051.5	953.0	948.77
954.5	953.4	952.4	952.2	952.3	953.8	954.0	955.9	956.0	956.7 <sup>c</sup>	955.7	956.3	68.64
951.7	951.8	948.8	949.4	947.4	949.6	951.3	952.9	950.8	950.8	950.5	950.0	70.22
951.1	946.9	948.0	944.2	938.9	941.8	947.2	945.6	943.2	944.5	948.3	950.5	71.65
939.30	937.26	935.69	935.14	936.21	936.57	937.70	937.81	939.54	939.38	938.29	938.98	72.77
—	—	—	—	—	—	—	—	—	—	—	—	74.08
—	—	—	—	—	—	—	—	—	—	—	—	72.95
—	—	—	—	—	—	—	—	—	—	—	—	71.29
—	—	—	—	—	—	—	—	—	—	—	—	72.58
—	—	—	—	—	—	—	—	—	—	—	—	72.95
—	—	—	—	—	—	—	—	—	—	—	—	74.06
—	—	—	—	—	—	—	—	—	—	—	—	73.62
—	—	—	—	—	—	—	—	—	—	—	—	72.30
—	—	—	—	—	—	—	—	—	—	—	—	73.61
—	—	—	—	—	—	—	—	—	—	—	—	73.50
—	—	—	—	—	—	—	—	—	—	—	—	71.00
—	—	—	—	—	—	—	—	—	—	—	—	68.70
—	—	—	—	—	—	—	—	—	—	—	—	68.51
—	—	—	—	—	—	—	—	—	—	—	—	69.02
—	—	—	—	—	—	—	—	—	—	—	—	70.08
—	—	—	—	—	—	—	—	—	—	—	—	69.70
—	—	—	—	—	—	—	—	—	—	—	—	70.82
—	—	—	—	—	—	—	—	—	—	—	—	73.46
—	—	—	—	—	—	—	—	—	—	—	—	73.13
—	—	—	—	—	—	—	—	—	—	—	—	73.76
—	—	—	—	—	—	—	—	—	—	—	—	75.47
—	—	—	—	—	—	—	—	—	—	—	—	77.64
74.56	74.28	73.76	73.29	72.80	72.33	71.70	71.19	70.83	70.40	69.99	69.46	71.95

<sup>b</sup> Eight minutes late.

<sup>c</sup> Two minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000099 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah: = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.	1	951.0	950.0	444.6	929.8	934.5	943.0	942.6	957.1	956.0	938.0	944.0	948.7
	2	950.2	954.0	947.0	940.9	952.0	949.0	946.0	954.9	958.2	965.2	938.8	951.9
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	949.0	949.7	941.4	941.0	937.5	944.0	946.0	949.4	951.4	952.1	943.6	942.4
	5	950.0	949.8	946.0	941.5	944.5	948.0	949.9	953.9	957.2	958.6	957.8	959.2
	6	961.4	961.3	956.6	952.0	945.8	944.5	947.5	956.2	963.4	969.0	965.0	965.5
	7	963.0	965.0	957.9	953.0	947.9	951.9	956.2	961.9	967.7	969.7	968.4	967.3
	8	966.1	958.3	955.5	954.0	950.5	950.3	957.8	964.0	971.2	972.2	965.7	963.0
	9	971.5	976.0	967.4	947.9	951.5	950.9	969.1	976.1	978.1	981.3	981.7	974.9
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	985.0	986.0	979.0	971.0	968.0	970.0	979.0	984.2	991.7	995.9	987.8	985.9
	12	986.0	984.5	080.3	980.0	976.8	977.0	978.0	984.1	994.0	984.1	989.8	978.6
	13	988.0	987.0	981.4	973.0	973.0 <sup>a</sup>	974.0	977.5	983.6	990.4	995.5	987.0	980.4
	14	989.0	986.0	980.6	973.5	972.5 <sup>b</sup>	979.0 <sup>b</sup>	982.0	994.5	988.4	991.2	086.9	975.9
	15	989.0	985.0	975.0	970.0	976.8	970.0	980.0	981.7	981.1	983.3	983.8	984.3
	16	983.0	979.5	971.2	969.8	970.5	973.0	971.0	974.7	980.7	984.3	982.4	979.8
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	982.5	980.3	972.0	973.0	969.0	965.8	961.3	976.4	973.5	981.5	974.5	977.4
	19	972.0	469.7	972.0	963.0	963.0	961.0	968.0	963.3	073.1	970.7	986.3	977.1
	20	974.0	980.0	978.0	972.2	966.2	961.0	971.3	975.7	973.7	982.8	975.9	981.4
	21	982.1	983.8	977.3	968.3	967.0	964.6	965.8	975.1	967.9	980.0	981.2	985.7
	22	988.0	988.0	984.9	984.5	958.8	976.0	982.0	988.1	965.0	994.1	990.9	982.1
	23	990.3	981.5	986.8	985.0	983.0	982.1	982.8	989.1	994.5	991.3	990.4	987.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	992.0	992.5	986.4	980.1	974.8	973.5	979.6	984.9	994.4	999.6	999.2	998.5
	26	999.5	999.6	996.1	987.5	984.0	979.5	986.0	994.6	999.5 <sup>d</sup>	1003.3	1005.3	990.5
	27	1009.0	1007.0	1003.5	998.0	994.2	992.5	1002.8	998.7	1002.7	1009.2	1008.1	1015.4
	28	1022.0	1014.0	1008.5	1000.7	999.0	997.3	997.3	998.8	1003.1	1005.9	1010.4	1011.0
	29	1018.0	1016.0	1014.1	1111.0	1010.0	1006.2	996.0	997.9	998.3	1002.8	1010.0	1007.7
	30	1013.2	1016.0	993.4	992.5	999.3	997.9	991.3	993.6	997.0	1002.5	1006.2	1010.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	981.72	980.79	975.27	969.74	968.08	968.88	971.82	977.40	980.85	983.23	981.97	980.44	
TEMPERATURE OF THE BIFILAR MAGNET.													
SEPTEMBER.	1	74.8	74.5	74.5	74.5	74.8	75.2	76.0	76.5	77.5	77.5	78.5	78.6
	2	74.7	74.7	74.7	74.5	74.0	75.5	76.1	77.2	78.6	79.0	79.2	79.2
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	77.5	77.0	76.5	76.6	77.3	77.4	78.0	78.6	79.4	80.2	80.5	80.2
	5	73.5	73.0	72.0	72.3	72.5	73.0	73.4	73.6	74.0	74.2	74.6	74.5
	6	70.0	69.3	69.3	69.5	70.0	70.5	71.2	71.4	72.0	72.0	72.2	72.0
	7	70.5	70.0	70.0	70.3	70.5	71.5	72.0	72.2	72.8	73.0	73.0	73.2
	8	69.5	69.3	69.2	69.5	69.8	70.3	71.0	71.7	72.0	72.6	73.2	73.2
	9	65.2	65.5	66.5	66.8	66.6	66.5	66.3	66.1	66.5	67.0	67.5	67.8
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	57.2	58.0	58.6	59.5	60.5	61.5	61.7	62.2	62.4	62.6	62.9	63.3
	12	57.0	57.0	57.6	58.5	59.5	60.5	61.0	61.3	61.9	62.4	62.6	62.8
	13	57.0	57.0	57.6	58.2	59.0 <sup>a</sup>	59.2	59.7	59.8	60.2	60.7	60.5	60.5
	14	69.0	60.0	60.0	59.5	59.5 <sup>b</sup>	59.5 <sup>b</sup>	59.7	60.0	60.2	60.4	60.7	60.4
	15	61.5	61.6	61.6	62.0	62.0	62.5	63.0	63.2	63.5	64.4	65.3	66.0
	16	63.0	63.5	64.5	65.0	65.5	66.6	66.6	66.8	67.2	67.6	68.4	68.6
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	68.6	68.6	69.4	70.6	70.5	71.0	72.0	72.2	73.0	73.0	73.0	73.0
	19	65.6	65.0	66.0	66.6	67.5	68.0	68.4	68.8	69.0	68.8	68.8	68.9
	20	65.0	65.2	66.2	67.0	67.2	67.2	67.2	67.3	67.6	68.2	68.8	68.9
	21	66.5	67.0	68.0	69.5	71.8	72.7	73.8	74.8	76.3	77.4	78.2	77.5
	22	66.5	66.5	67.0	67.5	67.5	67.6	67.3	67.1	67.0	67.0	67.0	66.6
	23	63.5	63.5	63.5	63.8	64.0	64.4	65.5	66.8	68.0	68.8	69.7	70.4
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	67.0	66.5	66.0	66.0	25.5	65.5	65.5	65.5	65.4	65.4	65.4	65.2
	26	61.0	60.5	60.0	60.5	60.5	60.5	60.5	60.4	60.4 <sup>d</sup>	60.6	60.8	60.4
	27	65.5	55.0	54.5	55.0	55.5	56.0	56.5	56.5	56.5	56.5	57.4	57.5
	28	53.0	52.5	52.5	52.5	53.0	53.6	55.0	56.5	57.4	58.2	58.8	58.8
	29	55.0	55.0	55.0	55.5	56.5	57.5	58.5	58.6	59.4	60.2	61.2	61.2
	30	57.0	57.0	57.5	58.0	58.0	59.7	60.5	61.1	61.6	62.2	62.5	62.5
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	64.45	64.33	64.55	64.95	65.38	65.90	66.40	66.78	67.30	67.69	68.10	68.12	

<sup>a</sup> Three minutes late.

<sup>b</sup> Five minutes late.

<sup>c</sup> Seven minutes late.

<sup>d</sup> Twelve minutes late.

HORIZONTAL FORCE.												
One Scale Division = .000099 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = .00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
945.9	934.9	928.3	941.9	945.0	950.4	942.8	938.5	636.3	938.5	938.4	943.8	942.67
942.0	944.9	942.7	949.7	950.0	950.1	—	—	—	—	—	—	948.84
—	—	—	—	—	—	945.8	948.8	945.8	944.5	949.9	949.8	947.00
945.6	948.1	951.2	948.0	951.8	950.7	950.0	941.3	944.8	943.4	949.5	956.0	952.79
958.8	954.4	954.2	957.4	954.0	959.8	958.3	960.6	943.5	951.5	947.1	951.0	960.89
966.9	966.3	966.0	958.2	967.6	955.2	960.9	965.0	967.1	965.3	968.2	966.5	963.32
965.3	965.7	966.0	965.7	964.5	963.8	962.2	966.1	968.3	967.4	988.0	966.3	962.58
900.4	961.9	963.1	961.1	960.8	960.5	967.1	961.6	968.2	970.7	971.2	966.8	973.39
977.8	976.8	978.5	977.1	975.3	976.2	—	—	—	—	—	—	982.72
—	—	—	—	—	—	981.5	979.5	973.6	972.7	984.9	981.0	982.14
980.0	983.9	985.0	981.2	984.8	981.7	978.5	984.5	985.9	986.0	983.2	984.0	983.49
978.0	979.5	982.0	983.8	980.1	969.8	980.2	980.0	985.4	985.0	984.9	989.5	985.16
981.8	980.8	984.1	983.8	984.9	986.9	986.6	986.6	986.0	985.8	986.2	979.5	980.09
983.9	988.0	987.2	986.5	983.5	986.0	987.3	987.1	988.0	688.5	989.3	989.1	977.33
982.0	977.8	978.0	980.0	975.6	978.6	979.0	978.8	979.8	980.0	981.5	982.0	973.40
973.9	977.0	979.2	976.0	969.5	971.2	—	—	—	—	—	—	974.08
—	—	—	—	—	—	976.5	979.8	980.2	987.2	981.0	981.5	976.27
977.0	975.3	972.2	971.2	977.2	969.0	970.8	968.8	974.8	971.5	974.5	972.1	980.71
975.7	976.4	979.7	978.6	978.0	976.0	978.8	978.0	977.7	979.0	981.4	979.5	987.46
982.0	980.9	980.2	974.4	977.6	978.8	983.7	978.0	976.7	978.4	973.3	974.3	989.25
986.8	985.8	990.0	992.0	993.8	990.1	981.2	980.7	980.0	981.9	985.4	990.5	992.08
980.5	988.8	991.5	990.1	989.8	989.6	995.1	992.1	993.9	991.7	991.5	992.0	1000.12
990.4	990.7	990.5	990.0	990.5	990.2	—	—	—	—	—	—	1003.07
—	—	—	—	—	—	989.9	990.1	994.3	994.0	994.3	992.5	1005.11
997.8	997.7	995.0	995.2	996.0	995.6	995.0	997.0	994.8	995.2	999.0	998.5	1004.18
1004.1	1002.7	997.0	999.5	998.6	1003.2	1008.9	1008.5	1010.5	1010.0	1011.7	1011.5	998.90
1012.5	1008.1	989.7	998.2	1003.3	995.5	987.2	989.4	1004.2	1008.0	1009.5	1017.0	978.92
1006.5	1000.7	998.0	1000.9	1002.3	1003.0	1006.0	1005.2	1004.6	1004.8	1007.7	1015.0	978.05
997.1	998.4	1002.5	993.2	992.3	992.6	999.9	1004.6	1008.0	1006.6	1010.9	1006.2	977.45
999.1	983.9	982.0	998.9	996.9	998.0	—	—	—	—	—	—	978.41
—	—	—	—	—	—	995.1	998.9	997.0	999.5	1003.5	1008.0	978.60
—	—	—	—	—	—	—	—	—	—	—	—	977.79
—	—	—	—	—	—	—	—	—	—	—	—	978.78
—	—	—	—	—	—	—	—	—	—	—	—	978.83
—	—	—	—	—	—	—	—	—	—	—	—	979.59
—	—	—	—	—	—	—	—	—	—	—	—	980.27
—	—	—	—	—	—	—	—	—	—	—	—	981.77
—	—	—	—	—	—	—	—	—	—	—	—	982.46
—	—	—	—	—	—	—	—	—	—	—	—	977.96

TEMPERATURE OF THE BIFILAR MAGNET.												
78.6	78.2	77.8	77.4	77.0	76.5	76.5	76.5	76.2	76.0	76.0	75.0	76.44
79.2	79.0	78.7	78.4	78.0	78.0	—	—	—	—	—	—	77.47
—	—	—	—	—	—	79.3	79.0	78.6	78.2	78.0	77.5	77.14
79.5	78.5	78.0	77.0	66.5	76.0	75.3	75.0	74.7	74.2	74.0	73.5	72.57
74.2	73.5	73.1	72.9	72.2	71.8	71.5	71.2	70.4	70.2	70.0	70.0	71.02
72.0	71.8	71.8	71.6	71.6	71.6	71.4	71.0	70.8	70.5	70.5	70.5	71.38
73.2	72.7	72.5	72.0	71.8	71.5	71.0	70.2	70.0	70.0	69.7	69.5	70.03
73.0	72.4	71.5	70.8	70.0	69.0	68.5	67.8	67.5	66.9	66.4	65.7	64.45
67.4	66.6	66.2	65.6	65.2	64.8	—	—	—	—	—	—	60.42
—	—	—	—	—	—	59.5	59.5	59.0	58.5	58.2	58.0	59.88
63.3	62.8	62.0	61.5	61.0	60.0	59.5	58.8	58.4	58.0	57.5	57.0	59.50
63.0	62.2	61.8	61.0	60.2	59.6	59.0	58.5	58.0	57.5	57.2	57.0	60.20
60.4	60.2	60.2	60.0	59.7	59.7	59.9	59.4	59.2	59.8	60.2	60.0	63.85
60.2	59.9	60.0	59.8	59.6	59.8	60.2	60.4	60.9	61.2	61.5	61.3	67.12
66.4	66.0	65.5	65.2	64.8	64.6	64.5	64.1	64.0	63.8	63.4	63.5	70.02
68.4	68.0	67.5	67.2	66.8	66.0	—	—	—	—	—	—	67.24
—	—	—	—	—	—	69.2	69.2	69.0	69.0	68.8	68.6	67.45
72.4	71.7	71.0	70.4	70.2	68.6	68.2	67.5	67.2	66.8	66.2	66.0	72.31
68.6	68.4	68.2	67.5	67.4	67.0	66.5	66.1	66.0	55.7	65.5	65.5	65.87
68.5	68.2	68.3	68.2	68.0	68.0	67.8	67.6	67.4	67.2	66.9	66.8	67.60
76.8	75.5	74.5	73.4	73.0	72.4	71.3	71.0	69.6	68.8	68.1	67.5	64.52
66.2	65.8	65.5	65.4	65.0	64.4	64.3	64.0	64.2	64.0	64.0	63.5	58.93
70.9	70.5	70.5	70.0	70.0	69.8	—	—	—	—	—	—	55.78
—	—	—	—	—	—	69.2	69.2	68.2	67.3	67.4	67.4	55.76
65.0	64.8	64.4	64.2	63.9	63.5	63.1	62.8	62.5	62.2	61.6	61.5	58.59
59.7	58.8	58.5	58.2	57.8	57.1	57.0	56.6	56.4	56.4	56.2	55.5	60.60
57.2	57.2	57.0	56.8	56.5	56.2	55.4	54.5	54.3	54.0	53.6	53.5	—
58.8	58.2	57.8	57.3	56.8	56.4	56.0	55.4	55.0	54.7	55.0	55.0	—
61.2	60.8	60.5	60.2	59.8	59.7	59.3	58.6	58.5	58.4	58.0	57.5	—
62.2	62.0	62.0	61.4	61.4	61.2	—	—	—	—	—	—	—
—	—	—	—	—	—	61.7	61.5	61.0	61.0	60.5	60.0	—
—	—	—	—	—	—	—	—	—	—	—	—	—
67.93	67.45	67.11	66.67	66.32	65.89	65.58	65.21	64.88	64.63	64.40	64.11	66.01



HORIZONTAL FORCE.													
From 1st to 9th. One Scale Division = .000099 parts of the H. F. }												Change in the magnetic moment of the Bar for 1° Fah°. = .00027.	
From 11th to 31st. One Scale Division = .000087 parts of the H. F. }													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	483.1	480.1	475.3	477.6	471.9	474.3	476.7	473.1	481.1	482.3	477.9	480.3
	3	466.4	485.1	478.7	474.1	476.0	473.7	476.5	478.1	473.8	485.1	485.1	485.1
	4	492.6	489.3	487.1	479.1	485.6	486.6	482.6	486.3	485.9	485.6	486.3	486.6
	5	490.8	502.6	487.0	486.0	479.6	463.2	473.1	480.7	479.5	469.8	486.2	486.1
	6	485.1	486.3	480.8	476.1	470.1	470.6	474.1	479.3	483.1	485.1	478.9	475.4
	7	485.1	478.1	472.7	464.1	458.1	460.6	466.6	468.6	477.9	479.3	482.0	484.8
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	493.1	488.6	484.0	477.3	470.5	466.6	468.6	480.8	486.2	488.7	490.5	493.3
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	491.0	490.0	485.0	477.7	471.5	471.0	476.0	476.2	477.5	482.5	489.0	491.5
	12	490.0	487.5	485.8	483.5	479.8	476.0	479.3	476.5	478.2	479.0	476.5	479.6
	13	488.8	491.5	492.1	481.0	481.0	480.0	479.0	481.4	483.5	488.5	492.4	493.8
	14	498.5	496.5	497.9	495.6	492.0	487.9	486.4	490.4	489.6	485.4	497.0	488.0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	489.5	496.5	495.3	481.3	483.0	482.5	491.0	480.4	499.4	496.2	489.1	495.0
	17	495.8	488.0	459.0	493.0	490.5	484.0	491.6	591.8	500.8	499.0	497.3	497.0
	18	480.0	480.0	496.0	498.8	500.0	496.3	497.5	501.6	499.3	497.0	494.2	488.4
	19	495.0	493.5	490.8	492.4	495.6	495.4	493.7	496.1	492.6	488.7	487.9	492.5
	20	497.5	491.0	492.0	490.4	489.5	484.0	482.0	477.9	478.9	484.3	491.5	490.1
	21	488.3	487.5	484.6	480.0	476.2	476.0	478.2	480.2	484.9	488.0	491.2	489.6
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	505.0	503.5	499.0	493.0	490.3	490.0	491.6	498.4	504.3	508.1 <sup>a</sup>	507.0	503.2
	24	504.0	503.0	502.0	502.0	499.8	498.2	497.5	497.1	499.8	500.0	502.0	497.8
	25	503.0	500.5	498.6	493.0	489.5	492.0	495.8	495.8	498.6	501.8	501.6	496.9
	26	490.8	503.0	503.3	495.8	484.0	476.6	479.8	474.5	489.2	500.0	488.7	491.9
	27	500.3	490.0	496.9	491.5	486.5	485.5 <sup>b</sup>	486.0	488.8	495.0	497.6	500.2	500.0
	28	500.5	506.0	503.6	495.9	487.5	483.8	484.6	489.5	494.1	496.5	499.8	502.5
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	504.0	505.0	495.0	496.0	491.0	495.0	490.5 <sup>c</sup>	492.8	495.5	492.0	498.1	503.5
	31	512.5	512.0	507.4	501.8	500.3	494.9	491.4	492.6	493.9	499.6	504.3	502.8
Hourly Means	493.23	493.40	490.00	487.08	483.99	481.79	483.60	485.16	488.90	490.40	491.79	491.83	
TEMPERATURE OF THE BILIFAR MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	60.5	60.5	61.0	61.0	61.2	61.2	61.2	61.3	61.8	62.3	62.6	62.7
	3	57.8	57.6	57.6	58.0	58.4	58.6	59.0	59.0	58.8	59.8	58.8	59.0
	4	54.5	54.5	55.0	55.5	56.0	56.6	57.0	57.0	57.5	57.7	58.3	58.5
	5	53.5	53.8	54.8	56.0	56.5	57.0	57.2	57.6	58.4	59.4	60.0	59.9
	6	55.6	56.0	56.5	57.0	58.0	58.5	59.5	59.9	61.0	61.5	61.6	61.5
	7	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.4	60.4	60.6	60.6
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	52.8	52.5	52.5	53.0	53.5	54.0	54.0	54.3	55.0	55.4	55.7	55.6
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	56.5	56.5	56.5	56.5	56.5	56.5	57.0	57.4	57.6	57.8	57.7	57.7
	12	57.5	57.2	57.5	58.5	58.7	59.0	59.0	58.9	59.1	59.4	59.8	60.0
	13	53.6	53.5	53.5	53.7	54.5	55.0	55.5	56.1	56.5	56.7	56.9	56.8
	14	52.0	52.0	53.0	53.5	53.0	53.4	53.7	54.2	54.2	54.0	54.0	53.7
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	49.0	49.0	49.0	49.0	50.0	50.5	51.0	51.5	51.9	52.0	52.4	52.6
	17	51.5	51.5	51.1	51.5	51.9	52.0	52.5	52.5	52.8	53.0	53.0	53.0
	18	51.5	51.0	51.0	51.0	51.5	52.0	52.9	52.9	53.0	53.3	53.6	53.8
	19	53.8	53.2	54.0	54.5	55.0	55.0	55.2	54.9	54.5	55.7	56.0	56.4
	20	54.0	53.8	53.5	54.0	54.3	55.0	56.0	56.4	57.0	57.5	58.4	58.4
	21	58.0	57.8	58.0	58.0	57.9	58.0	58.1	58.1	58.0	58.0	57.7	57.4
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	47.6	47.4	48.2	49.0	49.6	50.2	50.7	51.0	51.5	52.2 <sup>a</sup>	53.0	52.9
	24	47.5	47.5	46.5	47.5	48.8	50.0	50.5	51.2	51.5	52.4	53.0	53.0
	25	49.5	49.5	49.5	50.0	50.5	51.5	51.5	51.7	51.8	52.4	52.6	52.2
	26	48.5	48.0	47.5	48.0	49.0	49.4	49.5	50.0	50.4	50.6	50.5	50.3
	27	48.5	47.6	47.0	46.8	47.0	47.5 <sup>b</sup>	47.7	47.5	48.0	48.1	48.4	48.4
	28	47.2	47.0	47.5	48.0	48.6	49.5	49.6	50.2	50.6	51.4	51.4	51.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	46.5	46.0	46.0	46.0	46.5	46.9	47.0 <sup>c</sup>	47.1	47.3	47.8	48.2	48.0
	31	45.0	44.8	45.0	45.8	45.8	46.4	47.0	47.3	47.5	47.0	47.5	47.0
Hourly Means	52.52	52.35	52.49	52.89	53.33	53.77	54.11	54.34	54.64	55.01	55.27	55.22	

<sup>a</sup> Nine minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Four minutes late.

HORIZONTAL FORCE.												
From 1st to 9th. One Scale Division = .000099 parts of the H. F.						From 11th to 31st. One Scale Division = .000087 parts of the H. F.						Daily and Monthly Means.
Change in the magnetic moment of the Bar for 1° Fah°. = .000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
464.4	477.1	476.4	476.6	475.5	473.0	472.3	474.3	462.7	469.7	475.8	464.6	474.84
482.1	482.3	481.5	482.0	482.3	479.1	485.2	485.1	482.1	485.8	489.3	493.1	481.15
488.4	488.7	488.0	492.1	475.7	475.0	471.8	472.7	472.9	472.8	481.2	485.8	483.28
485.2	485.1	470.6	465.7	468.8	472.4	478.6	480.4	481.8	482.6	485.1	486.1	480.29
477.0	481.3	479.1	474.4	468.3	476.9	474.8	486.5	486.1	486.6	485.1	485.1	479.42
485.1	485.1	480.1	480.3	481.5	485.4	—	—	—	—	—	—	—
—	—	—	—	—	—	483.9	489.6	487.7	496.5	494.1	488.3	479.81
493.3	493.9	493.1	492.6	491.5	491.7	491.3	492.1	493.3	488.4	492.6	490.8	487.20
—	—	—	—	—	—	—	—	—	—	—	—	—
490.0	488.4	488.8	489.2	488.8	490.6	489.8	489.5	490.0	489.5	489.0	490.0	485.52
480.9	481.0	476.2	482.0	486.0	484.0	483.8	482.9	487.5	488.2	490.8	489.0	482.67
489.5	489.4	488.8	489.0	486.8	479.3	489.8	485.5	487.3	488.9	497.4	505.0	487.90
482.5	471.0	485.5	484.8	485.5	488.2	—	—	—	—	—	—	—
—	—	—	—	—	—	486.1	482.8	490.0	495.0	489.8	490.8	489.05
493.9	492.3	496.8	497.0	495.0	498.0	496.5	496.0	491.2	491.3	486.6	497.5	492.14
481.0	484.0	484.8	489.1	488.8	490.5	495.7	495.6	488.5	498.5	500.5	485.0	490.41
490.4	492.4	493.3	484.3	491.5	475.0	491.0	492.9	491.6	493.5	495.0	496.4	492.35
493.0	492.6	494.8	486.1	496.0	475.0	475.9	479.1	481.6	485.1	486.0	490.0	489.56
487.9	486.0	488.2	480.1	485.4	488.9	487.2	488.1	488.5	489.4	488.5	489.5	487.37
491.6	491.5	490.2	491.2	492.8	493.8	—	—	—	—	—	—	—
—	—	—	—	—	—	499.4	497.6	499.6	495.6	498.6	500.0	489.44
502.3	501.8	501.2	500.5	498.6	498.5	497.8	502.2	504.6	505.0	504.9	503.6	500.60
497.8	499.5	501.0	500.9	499.0	496.9	496.6	493.7	489.0	489.7	502.6	501.5	498.81
497.8	498.9	501.7	500.0	502.0	502.1	498.1	497.3	498.6	495.9	500.7	496.6	498.20
498.9	494.1	494.7	495.8	492.6	491.8	490.0	498.8	499.2	500.7	500.2	503.5	493.25
500.9	501.2	499.7	499.5	498.4	500.6	500.8	500.0	501.1	500.5	502.0	503.0	496.92
503.8	501.1	502.0	502.0	503.4	502.4	—	—	—	—	—	—	—
—	—	—	—	—	—	500.9	502.1	504.6	507.8	503.2	504.0	499.23
498.4	499.0	500.1	500.0	498.7	502.3	498.0	501.1	503.9	501.1	504.2	508.0	498.88
501.9	502.3	499.3	500.1	499.3	496.9	496.7	503.9	499.9	497.5	501.9	504.0	500.72
490.32	490.40	490.24	489.40	489.29	488.33	489.28	490.79	490.53	491.82	493.80	494.05	489.56

TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
62.5	62.1	61.5	61.0	60.5	60.0	59.8	59.2	58.8	58.6	58.4	58.0	60.74
58.2	57.8	57.2	57.0	56.6	56.4	56.2	55.7	55.0	55.1	54.8	54.5	57.33
58.4	57.8	57.4	57.2	56.5	56.0	55.7	55.0	55.0	54.6	54.5	54.0	56.26
59.7	59.2	58.8	58.7	58.4	58.0	57.6	57.4	57.2	57.0	56.8	56.0	57.45
61.2	61.0	61.0	60.8	60.8	60.6	60.6	60.5	60.5	60.4	60.4	60.5	59.79
60.6	60.8	61.0	61.0	60.7	60.5	—	—	—	—	—	—	—
—	—	—	—	—	—	54.8	54.8	54.2	53.7	53.5	53.0	58.94
55.5	55.5	55.5	55.6	55.6	55.6	55.5	55.5	54.6	54.0	53.7	53.4	54.51
—	—	—	—	—	—	—	—	—	—	—	—	—
58.0	58.0	57.7	57.6	57.5	57.8	57.8	58.2	58.2	58.0	57.8	57.6	57.43
60.0	59.2	58.5	58.2	57.5	56.8	56.3	55.6	55.0	54.8	54.3	54.2	57.71
56.2	55.6	55.5	55.4	55.0	54.5	54.0	53.6	53.5	53.3	53.0	52.5	54.77
53.5	53.2	53.0	52.8	52.5	52.0	—	—	—	—	—	—	—
—	—	—	—	—	—	48.5	48.5	48.6	48.4	48.2	48.6	52.02
52.4	52.5	52.6	52.0	51.6	51.5	51.5	51.3	51.2	51.7	52.0	51.5	51.24
52.5	52.4	52.0	51.6	51.4	51.0	51.0	51.4	51.6	51.5	51.2	51.5	51.89
54.2	54.0	54.5	54.5	54.5	54.5	54.5	54.6	54.2	54.2	53.8	54.0	53.29
56.0	55.4	54.6	54.0	53.7	53.5	53.3	53.1	53.3	53.4	53.5	54.0	54.42
58.2	58.0	58.0	58.0	58.0	58.0	58.0	58.2	58.2	58.0	58.0	58.0	56.87
56.6	56.0	55.5	55.0	55.0	54.6	—	—	—	—	—	—	—
—	—	—	—	—	—	49.5	49.2	49.0	48.7	48.5	48.0	55.02
52.7	52.5	51.3	50.5	50.2	50.0	49.5	49.0	48.6	48.0	48.0	47.7	50.05
52.8	52.7	52.2	51.7	51.0	50.4	50.0	49.5	49.4	49.4	49.2	49.5	50.30
51.6	51.2	51.0	50.5	49.8	49.4	49.0	49.0	47.8	47.9	48.8	48.8	50.30
50.1	50.0	49.6	49.4	49.2	49.0	48.7	48.6	48.6	48.8	48.8	48.5	49.21
48.5	48.5	48.5	48.8	48.4	48.0	48.6	48.2	48.0	47.7	47.4	47.4	47.94
50.2	50.0	49.4	49.0	48.7	48.6	—	—	—	—	—	—	—
—	—	—	—	—	—	46.5	46.5	46.8	47.0	47.0	46.5	48.68
47.6	47.2	47.0	46.8	46.0	46.4	46.2	45.3	45.1	45.2	45.1	45.0	46.51
46.8	46.5	46.4	46.2	46.3	46.0	45.9	45.8	45.5	45.2	44.8	44.6	46.11
54.96	54.68	54.39	54.13	53.82	53.56	52.76	52.50	52.32	52.22	52.06	51.89	53.55

New adjustment on the 10th.

F

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah. = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
NOVEMBER.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	505.0	509.5	505.5	505.5	501.9	501.4	500.0	500.3	501.5	504.2	504.0	507.6
	2	508.5	510.5	508.5	506.0	508.1	502.4	501.1	496.8	499.8	504.1	503.7	493.9
	3	504.0	507.0	500.8	496.5	498.5	499.3	498.7	497.8	495.7	501.8	506.2	507.0
	4	505.5	510.0	511.0	508.0	507.3	506.2	502.5	507.6	509.0	514.1	512.2	511.6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	525.0	521.0	515.3	511.3	513.4	508.1	507.4	511.7	515.9	516.0	516.8	517.9
	7	516.0	514.0	509.3	504.5	496.5	501.0	502.0	497.0	508.2	509.9	512.2	511.0
	8	512.0	513.0	508.0	510.0	503.0	508.8	507.4	510.0	509.3 <sup>a</sup>	508.2	507.8	511.0
	9	512.5	509.3	502.8	498.3	500.6	500.5	500.5	501.4	507.4	509.7	510.5	511.9
	10	512.0	508.5	505.6	501.5	498.7	497.3	501.8	502.1	504.7	507.3	508.9	508.2
	11	506.7	507.8	503.6	502.8	501.0	500.0 <sup>b</sup>	498.0	498.5	503.1	505.9	506.8	509.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	519.0	516.0	515.4	507.5	484.0	491.0	502.0	503.5	508.6	498.6	509.1	509.1
	14	516.8	516.5	516.0	507.0	506.4	507.8	508.8	510.3	513.1	517.3	521.4	493.7
	15	521.0	516.0	514.6	506.0	508.0	510.5	509.0	509.3	510.1	512.0	516.6	518.2
	16	513.5	513.0	509.1	505.0	506.0	505.3	506.5	501.8	501.7	499.4	501.0	500.7
	17	509.0	508.0	504.0	502.0	504.0	501.3	502.6	505.0	503.4 <sup>a</sup>	503.2	504.5	508.8
	18	507.5	504.0	500.4	497.9	497.9	498.5	500.2	506.1	508.5	509.4	508.9	508.1
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	512.3	510.0	506.6	503.0	501.1	502.0	508.0	509.0	513.0 <sup>a</sup>	514.0	514.9	513.6
	21	511.0	509.5	506.0	502.0	498.9	498.0	498.6	501.5	501.0	502.7	504.6	506.1
	22	509.3	506.0	505.4	504.8	504.1	502.8	504.5	509.0	513.2	516.1	515.6	516.8
	23	514.0	513.0	508.0	505.0	508.3	507.2	512.0	515.0	513.0 <sup>c</sup>	511.6	512.8	513.4
	24	511.8	505.0	510.0	505.5	498.0	500.0	502.3	502.0	504.7	502.8	504.8	506.2
	25	504.0	502.3	497.8	493.9	490.7	492.4	493.8	497.7	502.3	504.2	505.7	506.3
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	522.0	522.5	520.0	516.0	512.0	518.0	506.0	509.8	515.2	517.5	522.2	523.0
	28	526.5	527.0	526.0	522.0	518.0	511.8	507.0	508.9	514.1	519.0	519.3	521.2
	29	520.3	518.0	518.7	512.8	513.0	512.3	511.5	510.9	510.7	516.5	517.0	518.0
	30	518.5	520.0	521.6	520.0	517.3	513.2	514.0	514.2	515.5	511.3	512.8	516.2
Hourly Means	513.22	512.21	509.62	505.95	503.72	503.73	504.08	505.28	507.80	509.11	510.78	510.33	
TEMPERATURE OF THE BIFILAR MAGNET.													
NOVEMBER.	°	°	°	°	°	°	°	°	°	°	°	°	
	1	44.1	44.0	44.5	44.3	44.3	44.5	44.8	45.0	45.0	45.4	45.5	45.5
	2	46.8	46.8	46.5	46.5	46.9	47.1	47.4	48.0	47.9	47.7	48.1	47.8
	3	45.5	45.2	45.0	45.0	45.5	45.9	46.0	46.4	46.8	46.4	46.4	46.2
	4	44.0	44.0	44.4	45.5	45.5	45.5	45.5	45.4	45.6	45.6	45.3	45.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	37.5	37.5	37.2	38.0	38.5	39.5	40.2	40.6	41.4	42.0	42.4	42.6
	7	42.5	43.2	43.0	43.5	43.5	44.0	44.5	45.0	45.4	45.6	45.5	45.2
	8	45.0	44.8	44.8	44.8	44.8	45.0	45.5	45.5	45.8 <sup>a</sup>	46.0	45.8	45.8
	9	46.0	45.5	45.5	45.5	45.5	46.0	46.4	46.6	47.0	47.2	47.6	47.0
	10	47.1	47.0	46.9	47.0	47.0	47.5	48.0	48.0	48.2	48.6	49.2	49.2
	11	48.8	48.5	48.5	48.5	48.5	48.5	49.0	49.1	49.3	49.7	49.8	49.5
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	41.5	41.5	41.0	41.0	41.3	41.8	42.0	42.6	43.2	43.6	43.6	43.0
	14	40.0	40.0	40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.6	44.0	43.8
	15	41.5	41.4	41.0	41.0	41.5	42.0	42.5	42.8	42.8	43.4	43.6	44.0
	16	46.6	47.0	47.5	47.5	47.5	48.0	48.5	49.6	50.3	50.8	51.2	51.3
	17	48.0	47.4	46.5	46.5	46.8	47.5	47.5	47.7	47.6 <sup>a</sup>	47.5	47.3	47.5
	18	49.5	49.5	49.5	49.5	49.5	50.0	50.0	50.0	50.2	50.2	50.2	49.6
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	45.1	45.0	44.2	45.0	45.7	46.1	47.0	47.5	48.1 <sup>a</sup>	48.5	49.3	49.0
	21	47.5	47.5	47.5	47.8	48.5	48.5	49.0	49.4	49.5	49.5	49.5	50.0
	22	47.0	47.0	47.0	47.0	47.0	46.6	46.9	47.2	47.4	47.6	47.3	47.0
	23	45.0	45.0	45.0	45.0	45.3	45.8	46.5	46.9	47.1 <sup>c</sup>	47.3	47.5	47.5
	24	51.0	51.5	51.6	51.6	51.7	51.5	52.0	52.0	52.5	53.2	53.4	53.0
	25	53.2	52.6	52.4	52.5	52.2	51.8	51.6	51.6	52.0	52.4	52.5	51.6
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	39.0	39.4	39.4	38.6	38.6	38.7	39.5	39.8	40.6	41.5	42.2	42.0
	28	39.0	38.6	38.8	40.0	40.5	41.4	42.0	42.4	42.6	42.6	42.8	42.7
	29	43.0	43.0	42.7	43.0	43.0	43.4	43.5	43.7	43.9	44.9	45.4	45.4
	30	43.5	43.0	42.6	43.0	43.2	43.4	43.4	43.7	43.8	43.8	43.8	44.2
Hourly Means	44.91	44.84	44.73	44.93	45.13	45.44	45.82	46.12	46.42	46.72	46.89	46.75	

<sup>a</sup> Four minutes late.

<sup>b</sup> Seven minutes late.

<sup>c</sup> Three minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah'. = '000234												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 506·8	Sc. Div. 503·2	Sc. Div. 505·2	Sc. Div. 501·0	Sc. Div. 499·1	Sc. Div. 499·0	Sc. Div. 517·6	Sc. Div. 507·9	Sc. Div. 505·5	Sc. Div. 503·7	Sc. Div. 505·5	Sc. Div. 508·5	Sc. Div. 504·56
485·6	482·5	495·6	498·1	497·9	487·3	489·4	495·2	489·6	498·0	500·0	500·5	498·46
507·0	505·9	504·2	502·1	503·0	503·2	503·6	501·8	503·0	504·3	505·5	510·0	502·79
509·2	509·7	509·5	509·0	506·8	505·1	—	—	—	—	—	—	510·63
—	—	—	—	—	—	514·5	513·8	516·6	518·7	518·2	519·0	514·99
516·1	515·2	515·8	516·2	516·0	513·0	513·9	514·5	514·2	514·8	515·0	515·3	514·99
512·5	511·1	513·2	509·9	509·2	506·4	510·2	510·4	511·3	511·9	512·0	512·0	508·82
508·6	502·3	505·0	511·0	502·7	504·2	497·7	502·0	503·4	505·9	504·0	504·0	506·64
510·5	510·1	509·9	510·0	510·6	511·0	510·1	510·0	507·8	504·5	502·9	501·0	506·83
509·2	506·4	504·8	503·2	501·3	502·0	502·8	502·8	504·0	506·0	505·8	506·8	504·65
510·0	508·4	507·5	506·3	505·9	505·2	—	—	—	—	—	—	—
—	—	—	—	—	—	510·0	509·5	510·8	505·1	507·6	512·0	505·90
510·0	510·2	505·2	502·2	504·0	510·3	511·6	512·3	512·6	512·4	513·3	514·0	507·58
506·4	514·1	512·8	514·2	512·3	512·2	513·2	512·6	514·4	515·2	516·5	518·5	512·40
516·5	513·9	505·9	511·6	515·0	515·2	515·2	512·5	513·7	510·0	508·3	514·0	512·63
506·2	504·4	505·8	502·4	502·6	501·0	505·0	501·0	502·6	504·6	505·5	505·0	504·55
507·0	506·0	506·6	506·5	505·0	503·8	504·9	504·0	502·8	505·1	505·9	508·0	505·06
508·9	507·2	507·0	507·0	505·5	505·9	—	—	—	—	—	—	—
—	—	—	—	—	—	509·8	510·2	510·8	501·3	513·8	514·9	506·24
512·0	513·3	514·0	512·1	508·3	503·3	509·3	511·0	507·0	511·2	509·0	511·0	509·54
505·7	506·6	506·2	506·8	505·8	505·5	501·0	505·4	505·0	507·3	507·5	509·0	504·65
517·8	515·8	512·8	510·0	508·2	506·8	505·2	508·8	510·5	510·6	511·9	512·3	509·93
514·5	514·2	514·5	513·5	511·9	509·8	510·0	509·8	510·2	512·0	513·1	512·0	511·62
504·1	498·0	498·0	498·1	501·1	500·7	502·4	504·3	502·8	501·0	502·8	504·0	502·93
505·0	505·1	505·0	505·0	504·0	507·5	—	—	—	—	—	—	—
—	—	—	—	—	—	516·1	517·0	519·5	521·2	522·5	519·4	505·77
523·0	521·8	521·4	520·0	518·3	518·0	517·1	519·8	522·0	519·6	523·8	526·3	518·97
521·2	522·4	520·7	520·5	519·2	518·5	518·0	518·8	520·1	520·0	519·2	521·0	519·18
513·1	516·3	501·2	509·2	508·3	508·1	508·3	511·8	514·6	510·7	515·0	517·0	513·07
515·5	515·8	515·4	515·0	514·0	510·9	515·2	512·5	514·4	515·0	511·8	520·1	515·43
510·09	509·23	508·58	508·50	507·54	506·69	508·94	509·22	509·58	509·62	510·63	512·14	508·61

TEMPERATURE OF THE BIFILAR MAGNET.												
45·5	45·4	45·6	45·5	45·5	45·8	45·8	46·2	46·6	46·5	46·5	46·5	45·35
47·8	47·8	47·8	47·8	47·5	47·2	46·8	45·9	45·7	45·5	45·5	45·5	47·01
46·8	46·6	46·1	46·2	46·1	45·8	45·7	45·5	45·4	45·0	44·6	44·4	45·77
44·4	44·3	43·9	43·8	43·5	43·4	—	—	—	—	—	—	—
—	—	—	—	—	—	38·0	38·0	37·4	37·4	37·3	37·3	42·92
42·8	43·0	42·6	42·2	42·0	42·0	42·2	42·4	42·4	42·5	42·5	42·5	41·10
45·1	45·1	44·9	45·0	44·8	44·9	45·2	45·5	45·6	45·6	45·4	45·4	44·72
46·4	46·8	46·7	46·6	46·4	46·4	46·5	46·3	46·1	45·9	46·1	46·0	45·82
46·6	46·3	46·4	46·4	46·2	46·2	46·2	46·4	46·5	46·6	46·8	47·0	46·39
49·0	48·8	49·2	49·0	49·0	49·3	49·8	49·6	49·5	49·4	49·0	48·8	48·50
49·7	49·8	49·0	48·6	48·0	47·2	—	—	—	—	—	—	—
—	—	—	—	—	—	41·4	41·5	41·5	41·6	41·6	41·5	47·05
42·5	42·2	42·0	41·7	41·5	41·2	41·1	40·8	40·6	40·4	40·2	40·0	41·68
43·8	43·5	43·0	42·8	42·2	41·4	41·2	40·9	40·9	41·1	41·5	41·5	41·90
44·2	44·0	44·0	44·2	44·2	44·2	44·0	43·8	44·7	45·8	46·4	46·5	43·48
51·3	51·3	51·1	50·6	50·2	50·0	49·7	49·6	49·4	49·2	48·6	48·4	49·38
48·2	48·5	49·0	49·4	49·8	49·6	49·8	49·5	49·2	49·5	49·5	49·5	48·30
49·5	49·4	49·0	48·4	48·0	47·5	—	—	—	—	—	—	—
—	—	—	—	—	—	45·2	45·0	45·2	45·4	45·5	45·3	48·38
49·0	48·6	48·4	48·6	48·6	48·5	48·0	47·7	48·0	48·2	47·9	47·7	47·49
49·6	49·3	49·3	48·9	48·7	49·2	49·2	48·0	47·5	47·2	47·0	47·2	48·55
47·2	47·0	47·0	47·0	46·8	46·5	46·2	46·0	46·0	45·6	45·4	45·1	46·70
47·6	47·8	48·0	48·6	48·8	48·6	48·6	49·2	49·6	50·0	50·6	50·6	47·58
52·8	52·6	52·3	52·2	51·8	51·7	51·9	52·0	52·5	52·8	53·0	53·2	52·24
51·4	50·7	50·2	49·5	49·2	48·8	—	—	—	—	—	—	—
—	—	—	—	—	—	39·5	38·9	38·8	38·7	39·0	39·0	48·34
41·6	40·8	40·8	39·8	39·6	39·4	39·5	39·2	39·0	38·7	38·7	39·0	39·81
42·7	42·5	42·5	42·5	42·5	42·5	43·0	43·0	42·6	42·6	42·6	42·5	41·87
45·6	45·6	45·4	45·0	44·6	44·5	44·5	44·4	44·4	44·2	43·8	43·6	44·19
44·2	44·0	44·0	44·0	43·5	43·9	44·1	44·5	44·3	44·8	45·2	45·0	43·87
46·74	46·60	46·47	46·32	46·12	45·99	45·12	44·99	44·98	45·01	45·01	44·96	45·71

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
DECEMBER.	1	518.3	517.5	513.3	513.0	502.4	498.9	498.0	499.5	506.1	510.0	506.8	511.6
	2	517.0	512.6	498.3	508.5	517.5	512.4	508.5	506.3	510.8	508.5	509.9	511.5
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	520.0	520.2	518.5	515.0	509.8	507.8	507.6	511.9	512.9	513.1	515.4	516.1
	5	517.0	518.0	519.0	517.9	514.8	509.3	509.0	512.1	513.4	514.4	516.5	516.0
	6	521.2	520.0	524.3	523.5	525.1	520.8	517.1	518.2	518.0	517.2	519.0	509.7
	7	517.0	517.0	516.1	513.8	512.0	510.4	508.5	510.9	513.9	514.9	516.2	517.3
	8	519.0	520.0	520.0	522.1	512.0	506.0	506.5	497.6	501.8	495.0	502.4	509.3
	9	515.0	515.5	511.4	514.0	514.0	510.5	503.5	508.8	508.6	509.7	515.3	518.0
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	521.6	521.0	518.9	518.0	510.5	500.5	506.3	509.0	498.7	517.8	519.6	517.0
	12	519.6	515.0	509.1	501.0	509.0	510.9	508.8	511.8	509.7	517.1	520.6	516.3
	13	528.0	529.8	529.1	526.3	524.5	521.5	522.8	510.1	515.0	515.4	525.1	521.3
	14	525.5	524.5	519.0	523.8	522.0	514.5 <sup>a</sup>	513.5	514.1	514.9	512.7	518.7	522.5
	15	516.0	516.5	515.0	509.5	511.0	509.0 <sup>a</sup>	505.0	504.6	505.0	509.1	511.9	515.8
	16	519.0	518.0	520.0	519.0	518.0	512.0	506.5	507.1	509.2	512.6	516.0	518.1
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	525.0	525.0	527.0	526.5	524.0	516.0	513.0	512.0	513.4	514.0	518.7	523.0
	19	522.8	521.5	523.0	524.0	523.0	522.0	519.6	517.7	516.8	517.9	520.5	521.2
	20	522.0	524.8	524.0	524.0	519.5	516.3	511.5	514.0	516.0	515.5	516.7	515.1
	21	515.2	517.5	516.0	513.2	511.8	509.7	508.9	509.0	513.9	516.7	512.8	510.7
	22	515.9	517.0	516.6	515.0	511.5	509.3	511.5	513.3	517.2	521.8	520.4	518.2
	23	517.5	517.5	515.3	511.0	504.0	500.5	502.5	507.8	518.0	521.2	520.2	519.0
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	522.0	524.0	523.0	518.8	512.0	507.0	503.0	508.5	512.0	516.1	520.4	522.0
	27	518.0	522.0	518.1	518.0	513.0	497.3	491.9	494.0	506.0	511.9	513.1	513.9
	28	516.7	514.5	503.6	516.5	510.0	500.4	495.0	495.8	500.8	505.7	507.9	507.3
	29	518.0	519.8	518.7	518.5	516.0	510.5	509.0	506.3	509.1	503.5	512.6	517.7
	30	520.5	523.5	520.9	522.4	519.0	513.8	510.2	513.4	515.4	517.8	518.9	519.6
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	519.51	519.71	517.53	517.33	514.66	509.89	507.91	508.55	511.02	513.18	515.82	516.33	
TEMPERATURE OF THE BIFILAR MAGNET.													
DECEMBER.	1	45.0	44.7	44.5	44.7	44.7	44.8	45.0	45.0	45.0	45.4	45.4	
	2	46.5	46.2	46.0	46.0	45.5	45.5	46.0	46.2	47.3	47.5	47.2	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	41.0	41.8	40.0	41.7	42.3	42.5	43.0	43.8	43.6	43.8	44.0	44.4
	5	44.3	44.1	44.0	43.6	43.5	43.5	43.5	43.0	42.9	42.9	42.9	42.8
	6	41.0	41.3	41.0	41.0	41.0	42.0	42.0	42.4	42.4	42.2	42.2	41.8
	7	44.4	44.2	44.0	43.6	43.4	44.0	44.4	44.7	45.0	45.0	45.4	45.0
	8	44.5	44.5	44.0	43.6	43.6	43.6	44.0	44.0	43.8	43.6	43.6	44.0
	9	44.5	44.2	44.0	43.8	44.0	44.0	44.5	44.8	44.8	44.6	44.8	44.6
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	39.6	40.0	40.6	41.0	41.5	42.2	42.5	42.7	43.2	43.7	44.0	44.0
	12	40.6	39.8	38.5	38.5	39.0	39.5	39.0	39.0	38.5	38.5	38.5	38.2
	13	32.5	32.5	32.6	33.0	33.6	34.5	35.5	36.0	37.0	37.8	38.4	38.1
	14	38.5	38.5	38.5	38.8	40.0	40.6 <sup>a</sup>	41.0	41.5	42.0	42.5	42.9	43.5
	15	46.0	46.0	46.0	45.2	45.0	46.0 <sup>a</sup>	46.4	46.5	46.8	46.8	47.0	47.4
	16	45.5	45.5	45.2	45.0	45.0	45.5	45.6	45.6	45.7	46.2	46.5	46.5
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	42.5	42.5	42.5	42.5	43.0	43.5	44.0	44.5	44.5	44.5	44.5	44.2
	19	43.7	43.5	43.0	43.0	43.3	44.0	44.5	44.8	44.6	45.0	45.2	45.0
	20	44.3	44.2	44.0	44.0	44.5	45.0	45.5	46.0	46.4	46.4	46.8	47.5
	21	49.4	49.4	49.2	48.8	48.5	48.5	48.8	49.2	49.6	50.0	50.2	50.2
	22	47.5	47.0	46.6	46.4	46.5	47.0	47.5	48.0	48.2	48.4	48.5	48.1
	23	46.6	46.5	46.0	45.5	45.4	45.4	45.4	45.4	45.4	45.6	45.8	46.2
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	42.0	42.0	41.6	41.5	41.4	41.4	41.5	42.0	42.9	43.6	43.8	44.0
	27	47.4	47.5	47.5	47.8	48.4	48.5	48.5	48.5	48.5	48.7	48.8	48.8
	28	47.3	47.0	47.0	46.5	46.5	46.5	47.0	47.6	47.8	48.2	48.4	47.5
	29	43.5	43.0	42.5	42.0	42.0	43.0	43.5	43.5	43.6	43.6	43.5	43.5
	30	41.5	41.2	41.5	41.5	42.5	42.5	42.8	42.6	42.5	42.2	42.8	42.6
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	43.58	43.45	43.24	43.16	43.36	43.75	44.05	44.29	44.47	44.67	44.85	44.82	

<sup>a</sup> Two minutes late.

<sup>b</sup> Three minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 513·9	Sc. Div. 511·6	Sc. Div. 5 2·2	Sc. Div. 515·9	Sc. Div. 514·8	Sc. Div. 513·7	Sc. Div. 508·6	Sc. Div. 504·4	Sc. Div. 506·1	Sc. Div. 506·0	Sc. Div. 507·8	Sc. Div. 508·0	Sc. Div. 509·10
512·2	503·8	505·9	507·1	504·2	505·5	—	—	—	—	—	—	511·32
514·9	512·1	512·6	513·0	513·1	512·2	517·0	519·0	520·0	517·3	518·5	519·3	514·25
516·0	515·0	515·0	515·9	516·2	517·9	515·3	515·0	515·8	516·5	517·5	515·8	516·35
516·9	517·9	519·0	517·0	512·5	509·5	518·7	520·1	522·0	520·8	517·4	521·0	517·78
516·9	515·9	514·7	514·8	511·5	512·0	513·0	517·0	517·8	516·3	518·2	517·5	514·36
510·9	508·5	511·0	512·1	515·5	508·8	512·2	513·0	514·5	515·8	517·3	518·0	510·30
517·3	514·5	514·3	512·3	508·7	513·8	—	—	—	508·6	514·3	515·5	—
—	—	—	—	—	—	507·1	511·0	517·5	—	—	—	512·63
511·1	505·6	504·6	511·5	518·8	513·5	514·0	515·6	514·5	516·6	516·4	518·0	513·30
522·0	517·9	517·1	522·1	520·0	521·4	520·0	520·0	510·0	524·3	519·9	524·9	516·48
524·5	524·1	520·9	526·7	522·3	521·3	523·8	521·8	527·9	525·5	526·6	524·4	523·28
521·6	521·8	521·2	519·0	518·3	517·7	516·4	516·2	516·0	516·1	516·1	516·5	518·44
512·2	511·2	511·2	512·4	511·8	513·3	513·2	515·8	516·0	514·7	517·0	518·0	512·30
516·7	516·2	514·8	516·0	514·2	515·0	—	—	—	—	—	—	—
—	—	—	—	—	—	519·2	520·8	520·2	522·2	522·3	524·0	516·55
521·3	520·7	520·2	517·2	519·6	516·2	515·2	514·7	517·7	519·0	520·2	520·5	519·17
519·9	519·0 <sup>b</sup>	518·0	517·5	518·4	520·0	518·5	516·1	520·6	519·8	515·8	520·0	519·73
514·3	513·3	511·3	510·3	510·4	514·8	512·8	512·5	512·8	514·2	515·0	515·0	515·67
511·8	512·2	511·6	511·9	512·2	511·7	511·7	512·6	513·0	515·5	515·0	516·0	512·94
516·2	514·2	513·8 <sup>b</sup>	511·0	511·8	511·5	513·0	513·0	514·2	514·8	515·2	517·0	514·73
519·5	517·8	517·5	516·0	515·3	514·5	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	519·2	517·8	518·0	519·1	519·2	521·5	515·41
522·5	522·2	520·3	518·0	510·1	509·0	512·8	513·0	515·7	516·9	515·0	517·0	515·89
512·1	511·4	509·5	505·0	506·7	508·6	505·0	507·5	507·5	508·6	511·0	511·5	509·23
502·3	500·0	510·4	511·0	511·5	510·8	511·0	512·3	513·5	512·7	513·5	515·0	508·26
518·5	518·5	517·4	513·8	515·2	516·7	519·9	521·2 <sup>d</sup>	518·2	528·6	517·8	522·8	515·76
520·7	520·9	518·9	516·8	513·9	514·7	—	—	—	—	—	—	—
—	—	—	—	—	—	525·3	528·0	527·7	529·9	528·0	528·0	520·34
516·25	514·65	514·54	514·57	513·88	513·76	514·85	515·21	516·86	516·79	517·07	518·73	514·94

TEMPERATURE OF THE BIFILAR MAGNET.												
45·4	45·4	45·4	45·6	46·0	46·5	47·0	46·7	46·7	46·8	47·2	47·0	45·63
47·0	46·6	46·2	45·7	45·2	44·6	—	—	—	—	—	—	—
—	—	—	—	—	—	40·0	40·0	40·0	40·5	40·5	40·5	44·75
44·9	44·7	44·4	44·6	44·4	44·6	44·4	44·2	44·5	44·6	44·6	44·6	43·60
42·6	42·4	42·0	41·8	41·2	40·6	40·4	40·4	40·4	40·8	41·2	41·0	42·32
41·6	42·0	42·4	42·0	42·2	42·2	42·8	43·0	43·4	43·9	44·4	44·4	42·28
44·9	44·9	45·2	45·0	45·0	45·0	45·0	44·6	44·6	44·9	45·0	44·5	44·65
44·8	45·2	45·2	45·6	45·6	44·8	44·4	44·0	44·7	44·6	44·5	44·6	44·37
44·6	44·0	43·6	43·0	42·6	42·2	—	—	—	—	—	—	—
—	—	—	—	—	—	36·2	36·5	37·4	38·2	39·0	39·3	42·47
44·5	44·5	44·5	44·5	44·2	44·4	44·2	43·5	43·2	42·5	41·6	41·0	42·82
38·4	38·2	37·6	36·5	35·6	35·4	35·2	35·2	34·8	34·2	33·7	33·0	37·31
37·6	37·6	38·1	38·4	38·8	38·9	38·5	38·4	38·4	38·8	39·0	38·2	36·76
44·2	44·2	44·0	44·2	44·5	44·6	45·0	44·6	44·6	45·2	45·6	45·6	42·69
46·8	46·6	46·4	45·7	45·2	45·2	45·3	45·5	45·5	45·5	45·4	45·5	45·99
46·7	46·6	46·2	46·0	46·0	46·0	—	—	—	—	—	—	—
—	—	—	—	—	—	41·5	41·5	41·6	42·0	42·2	42·5	44·86
44·2	44·3	44·2	44·0	43·8	43·6	43·4	43·4	43·2	43·2	43·0	43·5	43·60
45·0	44·9 <sup>b</sup>	44·9	44·8	44·6	44·5	44·5	44·4	44·2	44·2	44·5	44·0	44·34
48·0	48·5	49·0	49·0	49·0	49·6	49·6	49·4	49·2	49·0	49·4	49·4	47·24
50·2	49·4	48·8	48·2	48·0	47·7	47·6	48·0	48·2	48·5	48·2	48·0	48·86
48·1	47·7	47·4 <sup>b</sup>	47·2	47·2	47·4	47·5	47·5	47·2	47·2	47·2	46·5	47·41
46·5	46·5	47·0	47·4	47·0	47·0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	41·2	41·2	41·5	41·8	42·0	42·0	45·01
44·6	45·1	45·5	45·5	45·2	45·8	46·2	46·4	46·6	46·7	46·8	47·0	44·13
49·2	48·8	48·4	48·0	48·0	48·0	47·9	47·5	47·0	47·0	47·4	47·7	48·07
47·0	46·0	45·6	45·2	45·2	45·2	45·2	45·2	45·4	45·4	44·6	44·0	46·30
43·8	43·8	43·8	43·8	43·5	43·6	43·6	42·7 <sup>d</sup>	42·0	41·8	41·6	41·5	43·03
42·0	41·6	41·5	40·7	40·5	40·3	—	—	—	—	—	—	—
—	—	—	—	—	—	35·8	35·8	36·0	36·0	36·0	36·0	40·35
44·90	44·78	44·69	44·50	44·34	44·31	43·30	43·18	43·21	43·33	43·38	43·26	43·95

<sup>c</sup> Christmas-day.

<sup>d</sup> Four minutes late.

VERTICAL FORCE.													
One Scale Division = '000093 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JANUARY.	2	88·8	87·2	87·9	87·5	86·6	87·8	89·4	89·4	87·9	86·9	86·9	
	3	85·3	86·4	87·6	87·0	86·3	86·2	88·3	87·0	87·0	86·0	86·4	86·4
	4	88·4	89·0	89·8	89·2	87·9	88·1	89·4	89·2	88·6	90·3	87·4	87·1
	5	83·3	83·3	83·1	82·3	81·8	81·4	82·0	82·0	80·9	80·2	78·9	79·5
	6	77·9	78·2	78·7	78·2	77·0	76·3	76·3	77·0	77·2	76·5	76·6	75·7
	7	71·2	71·1	71·6	71·2	70·8	70·9	71·5	69·9	70·0	70·5	70·4	69·1
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	80·9	81·5	81·5	81·4	81·5	81·5	80·4	79·6	79·4	78·9	77·2	77·2
	10	76·7	76·0	76·0	75·8	75·6	75·0	75·8	75·8	76·6	76·6	76·6	75·2
	11	73·3	73·8	71·8	72·3	72·5	72·5	73·4	74·4	75·4	76·0	75·7	74·5
	12	73·1 <sup>a</sup>	73·1	74·0	73·7	73·7	74·1	74·9	75·6	75·3	75·9	75·9	75·7
	13	72·3	72·0	72·0	72·2	72·3	72·3	72·5	72·6	72·4	72·1	73·0	72·6
	14	76·8	76·8	77·0	77·2	76·5	77·1	77·9	77·9	77·5	77·5	77·9	78·0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	80·0	80·0	79·2 <sup>a</sup>	79·3	79·2	79·2	79·2	79·2	80·0	79·9	79·5	79·4
	17	80·4	80·5	80·4	81·3	79·6	79·3	79·3	78·7	78·3	77·8	77·0	76·6
	18	74·5	75·4	75·4	74·1	73·6	72·6	72·4	71·2	70·0	68·8	67·6	67·1
	19	63·8	62·8	62·1	60·8	61·0	61·7	62·2	62·9	63·8	63·9	63·7	63·9
	20	64·6	64·7	63·9	63·7	63·3	63·7	64·5	64·5	64·5	65·1	65·0	63·9
	21	64·7	66·7	66·4	62·4	62·6	62·1	62·1	63·2	62·3	62·2	61·4	60·1
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	72·9	72·9	72·7	72·7	73·2	73·2	72·9	74·1	74·1	74·1	74·0	73·9
	24	71·0	71·8	72·0	72·1	71·7	72·1	71·7	72·2	72·7	73·1	73·1	72·6
	25	73·5	73·2	75·0	72·1	72·2	73·6	75·0	75·2	74·7	77·7	78·2	78·2
	26	83·7	85·0	85·3	85·7	85·3	85·0	85·0	83·3	82·3	81·8	81·8	81·8
	27	77·3	76·0	76·2	75·8	75·1	74·2	72·6	72·3	71·5	72·6	74·5	74·8
	28	69·4	71·3	72·3	72·3	72·6	72·6	72·7 <sup>a</sup>	75·9	76·1	75·2	75·6	76·7
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	79·9	79·9	78·1	79·5	78·8	77·6	77·2	76·1	76·4	75·4	75·4	74·1
	31	72·9	73·4	73·2	73·3	73·3	74·4	74·0	74·6	73·9	72·4	71·8	71·8
	Hourly Means	76·02	76·23	76·28	75·89	75·54	75·56	75·87	75·91	75·72	75·71	75·44	75·11
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
JANUARY.	2	33·0	32·4	34·4	34·8	35·7	36·4	37·0	37·8	38·1	38·4	38·4	38·9
	3	36·9	36·2	36·0	35·8	36·2	36·5	36·6	37·1	37·4	37·8	38·0	37·3
	4	34·4	34·5	34·2	34·2	34·2	35·0	34·4	34·7	35·4	35·8	36·4	36·4
	5	39·8	40·0	40·1	40·8	40·8	41·6	42·5	41·4	41·7	42·2	42·6	42·6
	6	42·7	42·9	42·7	42·7	42·8	43·5	44·2	44·6	45·0	45·4	45·4	45·5
	7	47·9	47·9	48·0	48·0	48·2	48·2	48·6	49·4	49·4	49·3	49·4	50·0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	40·6	40·7	40·6	40·0	40·0	40·5	41·2	41·9	42·3	43·0	43·9	43·6
	10	44·8	44·9	44·9	44·5	44·5	44·7	45·2	45·4	45·4	45·6	46·0	46·0
	11	46·8	46·4	46·0	46·4	46·0	46·0	46·0	46·2	46·4	46·4	46·8	47·7
	12	47·0 <sup>a</sup>	46·9	46·6	46·6	46·2	46·1	46·0	46·0	46·2	46·4	46·0	46·0
	13	47·2	47·6	47·7	47·6	47·3	47·2	47·5	47·9	47·9	48·0	47·4	47·4
	14	44·7	44·5	44·3	43·9	43·4	43·4	43·2	43·4	43·9	43·9	43·5	43·4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	41·4	41·4	41·6	41·2	40·9	40·9	41·0	41·2	41·3	41·7	41·4	42·0
	17	41·5	41·6	41·4	42·0	42·0	41·0	41·8	42·4	43·0	43·4	44·0	44·4
	18	45·4	45·3	45·4	45·0	45·4	46·2	46·9	48·0	49·0	49·5	49·2	51·0
	19	53·8	54·4	55·2	56·0	55·2	54·5	54·2	54·2	54·1	54·4	54·9	54·9
	20	53·4	54·0	53·6	53·1	53·2	53·1	53·1	53·0	54·0	53·6	53·4	53·4
	21	53·0	53·3	53·6	54·5	53·8	53·9	54·1	54·2	54·7	55·2	56·0	56·5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	47·0	47·0	47·0	46·5	46·6	46·8	45·9	46·2	46·2	46·4	46·8	47·0
	24	48·7	48·4	48·2	47·5	47·2	47·2	47·4	47·2	47·1	47·0	47·4	47·5
	25	47·0	47·4	48·8	47·2	46·8	46·0	45·6	45·0	44·4	43·8	43·0	42·9
	26	37·5	37·3	38·3	37·5	37·6	37·7	38·2	39·0	39·4	40·2	40·0	40·0
	27	43·4	43·9	44·0	44·5	44·3	44·5	45·2	45·9	46·7	46·2	45·6	45·8
	28	47·0	46·6	46·4	46·0	45·7	45·9	46·4	46·2	46·0	46·6	46·8	46·5
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	41·5	41·4	41·4	41·0	41·4	42·3	43·0	43·8	44·4	45·2	45·5	45·4
	31	47·2	47·1	46·6	46·2	45·8	46·0	46·6	46·6	46·4	47·4	47·6	47·8
	Hourly Means	44·37	44·38	44·50	44·37	44·28	44·44	44·68	44·95	45·22	45·49	45·59	45·77

<sup>a</sup> Five minutes late.

VERTICAL FORCE.												
One Scale Division = '000093 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah. = '00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
87.8	87.7	84.4	85.3	84.2	79.7	82.6	83.3	84.0	85.2	86.0	85.0	86.22
86.7	86.7	87.4	88.3	88.3	88.2	87.5	88.7	87.8	89.2	89.5	89.2	87.39
87.3	86.9	86.5	86.2	85.1	84.5	84.4	83.9	83.9	83.9	83.8	83.3	86.84
79.2	78.0	76.8	76.1	75.7	76.0	77.0	77.4	78.0	78.7	77.8	78.4	79.49
75.2	74.9	74.4	74.1	74.1	73.5	72.8	73.0	73.0	72.7	72.5	71.8	75.32
69.0	69.8	69.8	69.8	69.8	70.1	—	—	—	—	—	—	73.26
—	—	—	—	—	—	81.9	82.9	82.9	81.2	81.9	80.9	78.74
77.7	77.4	78.0	77.9	77.9	77.9	77.2	77.1	77.1	77.0	76.9	76.7	75.13
73.8	74.6	74.6	75.1	75.3	74.7	74.7	74.0	73.9	73.9	73.7	73.1	73.56
72.9	74.0	73.7	73.4	73.3	73.3	73.3	73.0	73.0	74.8	72.6	72.6	74.42
75.2	75.1	74.8	74.8	74.8	73.9	73.9	73.7	73.7	73.7	73.7	73.7	73.64
72.7	72.7	73.6	73.4	74.9	76.1	76.0	75.9	75.8	75.8	75.8	76.4	78.40
78.0	78.0	78.6	78.6	78.4	78.1	—	—	—	—	—	—	79.55
—	—	—	—	—	—	81.6	79.9	79.9	81.3	80.9	80.1	77.56
79.4	79.4	79.4	80.0	80.0	80.0	80.0	79.5	79.0	79.3	79.3	79.3	68.55
76.2	76.1	76.0	76.3	76.6	77.0	76.7	76.7	76.1	75.6	74.6	74.3	63.37
67.4	66.7	65.8	64.3	63.7	64.6	64.6	65.2	65.0	65.0	65.5	64.6	64.43
63.0	63.0	63.6	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.8	65.1	64.79
63.9	63.9	63.9	65.2	65.3	65.3	65.3	65.0	63.8	64.4	64.5	64.5	73.12
59.4	59.4	59.5	60.2	61.0	61.1	—	—	—	—	—	—	73.10
—	—	—	—	—	—	73.1	72.9	72.8	73.1	73.1	73.1	77.53
75.0	75.4	75.5	76.6	72.0	72.1	72.5	72.9	71.7	69.8	70.3	70.3	81.85
72.9	73.8	74.7	75.6	75.6	73.6	74.0	73.2	74.4	73.5	73.5	73.5	73.52
75.1	75.1	75.1	74.8	78.5	82.1	82.1	82.4	84.0	84.0	84.6	84.3	75.74
81.4	81.0	80.8	80.9	80.9	80.7	80.1	79.7	79.2	78.2	77.8	77.8	75.52
73.1	72.8	72.3	72.8	73.9	73.1	72.6	73.0	73.0	71.5	71.5	71.9	73.46
77.0	77.0	75.5	75.0	75.0	74.9	—	—	—	—	—	—	74.83
—	—	—	—	—	—	79.8	79.8	80.0	80.4	80.4	80.3	74.75
74.4	74.6	75.0	74.4	73.2	73.2	73.6	73.6	72.9	72.9	72.9	73.3	71.8
71.8	69.6	70.6	70.6	71.0	72.7	72.7	76.0	76.1	77.3	77.3	78.4	75.97
74.83	74.75	74.63	74.76	74.72	74.63	75.93	76.03	75.97	76.02	75.97	75.86	75.56

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
38.9	39.0	39.0	39.4	39.3	39.0	38.8	39.1	38.5	38.2	38.0	38.0	37.52
37.6	37.2	36.8	36.1	36.0	35.7	35.7	35.7	35.6	35.2	34.8	34.4	36.36
36.8	37.2	37.7	38.2	38.6	38.8	39.2	39.2	39.2	39.2	39.2	39.7	36.77
43.0	44.0	44.6	44.7	44.8	44.6	44.4	44.1	43.6	43.2	43.2	42.9	42.63
45.5	46.0	46.1	46.2	46.2	46.2	46.8	46.6	46.7	47.2	47.2	47.8	45.25
50.2	49.7	49.6	49.4	49.3	49.3	—	—	—	—	—	—	46.79
—	—	—	—	—	—	40.0	40.0	40.0	40.2	40.4	40.5	42.72
43.6	43.8	43.9	43.6	43.6	43.6	44.0	44.2	44.0	44.2	44.2	44.2	45.96
46.8	47.0	47.0	47.2	47.0	46.8	46.6	46.4	46.4	46.4	46.6	46.9	42.86
48.2	48.0	48.2	47.7	47.5	47.4	47.2	47.4	47.6	47.4	47.4	47.6	46.35
46.1	46.3	46.5	46.4	46.9	45.5	44.5	46.9	47.0	46.7	46.7	47.0	46.64
47.8	47.6	47.0	45.7	45.4	45.4	45.3	45.2	45.0	44.8	44.7	44.8	42.83
43.4	43.2	43.3	43.2	43.2	43.2	—	—	—	—	—	—	41.50
—	—	—	—	—	—	40.2	40.3	40.3	40.5	40.6	41.0	43.59
41.7	41.6	41.6	41.8	41.8	41.8	41.6	41.6	41.9	41.8	41.4	41.5	49.95
44.6	45.0	45.2	45.0	44.8	44.4	44.4	44.8	44.7	44.8	44.5	45.4	54.30
51.7	52.0	52.7	53.5	54.0	53.3	52.9	52.5	52.2	52.0	52.2	53.4	53.25
54.6	54.8	54.7	54.0	54.0	54.0	53.7	53.6	53.6	53.6	53.6	53.4	52.84
53.4	53.4	53.2	53.2	53.0	52.8	52.8	52.7	53.2	53.1	53.0	53.4	47.24
56.8	56.5	56.4	56.1	55.5	55.0	—	—	—	—	—	—	47.36
—	—	—	—	—	—	46.9	46.5	46.4	46.4	46.4	46.5	42.82
46.8	46.6	46.6	47.0	48.0	48.0	48.1	48.0	48.3	48.9	49.0	49.0	40.08
47.5	47.4	47.2	47.2	47.5	47.7	47.5	47.0	46.7	46.7	46.7	46.8	46.00
42.4	42.0	41.7	40.4	40.4	39.6	39.6	39.9	39.2	38.5	38.2	37.9	44.99
40.6	40.9	40.9	41.2	41.2	41.2	41.4	41.4	42.0	42.4	42.9	43.2	41.63
46.6	46.6	46.8	46.5	46.9	47.0	47.0	46.8	47.0	48.0	47.5	47.2	46.32
46.4	46.4	46.4	46.2	46.0	46.0	—	—	—	—	—	—	45.94
—	—	—	—	—	—	41.0	40.9	41.0	40.9	41.0	41.5	46.02
45.5	45.8	45.5	45.9	46.0	46.1	46.2	46.4	46.7	47.0	46.8	47.0	46.03
48.0	48.5	48.2	48.4	48.0	47.0	46.2	45.4	44.2	43.2	42.2	41.2	45.93
45.94	46.02	46.03	45.93	45.96	45.75	44.69	44.72	44.65	44.63	44.55	44.70	45.07



VERTICAL FORCE.													
One Scale Division = .000093 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
FEBRUARY.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	77.4	79.5	79.3	82.2	81.1	83.4	82.2	80.7	82.1	82.1	80.5	81.1
	2	85.8	85.8	—	79.4	81.5	82.7	82.4	82.6	82.6	82.1	81.5	80.2
	3	81.8	82.4	82.3	81.7	81.3	80.1	80.1	79.6	79.9	78.6	77.8	76.2
	4	76.2	77.0	77.6	77.0	76.5	75.9	74.7	73.4	72.3	71.1	69.9	68.7
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	82.7	82.7	—	82.7	81.6	82.8	83.1	83.4	84.9	85.3	89.0	88.0
	7	88.5	88.2	88.9	89.5	88.7	88.4	90.3	89.0	87.7	86.1	85.2	85.5
	8	83.3	84.1	85.4	83.2	83.2	82.4	82.6	82.2	82.3	81.3	81.2	81.2
	9	84.3	84.4	84.3	84.8	83.4	82.8	82.3	82.3	82.3	81.9	81.5	81.5
	10	83.6	83.2	82.9	82.2	81.2	81.2	81.7	82.0	83.6	83.3	83.7	81.7
	11	75.6	75.8	76.3	76.0	76.6	77.3	77.7	77.5	77.5	77.9	78.5	79.5
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	86.6	86.9	86.9	83.7	85.0	84.7	84.7	84.1	84.6	84.6	84.6	85.4
	14	84.9	85.0	84.4	87.6	88.1	86.6	87.6	88.4	89.8	90.2	90.5	88.5
	15	87.6	87.2	87.4	86.1	85.0	85.3	85.3	85.1	85.6	85.5	85.5	83.3
	16	85.0	84.8	88.0	76.2 <sup>b</sup>	80.8	81.9	82.5	82.7	84.5	83.7	81.9	81.1
	17	88.6	89.9	89.6	90.3	87.8	87.7	87.6	86.1	85.7	84.6	83.6	83.6
	18	90.6	91.0	91.1	89.7	89.3	88.2	87.3	85.9	85.4	84.2	82.3	82.4
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	88.0	88.0	87.5	74.4	80.8	81.2	81.5	81.1	79.8	79.8	79.1	80.4
	21	82.8	82.8	81.4	81.1	81.1	79.4	77.9	77.5	76.6	76.9	76.9	76.4
	22	76.6	77.2	77.6	77.6	77.6	77.2	76.5	76.5	78.0	78.0	78.1	78.6
	23	84.1	83.2	86.5	82.8	81.7	82.5	82.4	82.4	82.7	82.1	80.1	80.1
	24	82.6	83.6	85.5	81.1	79.9	75.5	78.8	83.0	82.6	82.3	81.6	81.5
	25	74.3	73.1	74.7	74.8	73.6	73.2	72.9	72.8	73.0	72.6	72.4	72.9
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	79.0	79.1	80.0	79.7	78.7	78.7	77.7	76.6	75.7	75.6	74.5	75.2
28	75.6	76.2	75.3	75.8	74.5	73.0	73.1	72.6	72.6	72.6	73.2	73.6	
Hourly Means	82.73	82.96	83.31	81.65	81.63	81.34	81.37	81.15	81.33	80.93	80.55	80.28	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
FEBRUARY.	1	40.4	39.7	39.7	39.0	38.3	38.6	39.2	39.8	39.7	40.0	40.0	
	2	37.4	37.0	—	38.0	37.6	37.7	38.0	38.1	38.2	39.0	39.8	40.4
	3	39.8	39.9	39.5	39.4	39.8	40.0	40.2	40.8	41.0	41.4	42.2	42.6
	4	43.6	43.0	42.7	42.6	42.4	43.0	44.0	44.9	45.4	46.4	46.9	47.4
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	39.0	38.7	—	36.8	36.6	36.8	37.0	37.4	37.4	37.3	37.3	36.8
	7	33.6	33.1	32.2	32.1	32.2	33.0	33.2	34.0	35.0	36.0	36.9	36.9
	8	38.3	38.4	38.8	38.0	38.0	38.6	39.0	39.4	39.9	40.1	40.0	40.0
	9	38.0	37.8	37.4	37.0	37.0	37.3	38.1	39.0	39.4	39.8	40.4	39.4
	10	37.8	37.8	37.7	37.2	37.5	37.6	37.7	37.9	38.1	38.3	39.0	39.8
	11	43.6	43.4	42.9	42.4	41.7	41.3	41.3	41.3	41.2	41.2	41.2	41.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	35.0	34.9	36.2	36.3	36.0	36.2	36.8	37.8	38.2	38.7	38.5	39.0
	14	36.0	35.4	35.2	34.2	33.6	33.9	34.0	34.0	34.5	35.0	35.4	36.0
	15	35.9	35.9	35.5	35.7	36.2	37.0	37.2	38.0	38.3	38.2	38.4	39.4
	16	37.8	37.7	43.3	40.4 <sup>b</sup>	38.8	38.5	38.6	39.0	39.2	39.6	39.8	40.0
	17	33.0	32.2	39.6	33.2	32.7	33.7	34.4	35.6	36.6	37.0	38.0	38.2
	18	32.6	32.7	32.2	32.6	32.6	33.4	34.7	35.8	36.6	38.0	39.0	39.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	34.8	34.4	35.2	36.4	37.4	37.7	38.2	39.0	39.6	40.0	40.1	40.0
	21	39.3	39.6	39.8	39.2	39.4	40.0	40.4	41.6	42.0	42.3	42.4	42.7
	22	42.8	42.4	42.1	41.6	41.6	42.0	42.4	42.0	41.8	42.0	41.9	41.7
	23	37.6	37.4	38.7	37.9	38.1	38.0	38.2	38.4	38.7	38.9	39.6	40.0
	24	35.3	35.0	35.0	35.2	36.0	37.0	38.2	38.6	39.4	40.2	41.0	41.8
	25	45.6	45.8	45.5	45.0	44.4	44.6	45.2	45.7	45.8	46.2	46.6	46.4
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	41.5	41.2	41.1	40.2	40.4	41.2	41.7	42.4	42.8	43.4	43.8	43.4
	28	43.4	43.2	44.2	43.4	44.0	45.0	45.4	45.6	45.6	45.5	45.2	45.0
Hourly Means	38.42	38.19	38.84	38.08	38.01	38.42	38.88	39.42	39.77	40.19	40.56	40.71	

Seven minutes late.

VERTICAL FORCE.												
(One Scale Division = '000093 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fabt. = '00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Meas.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
81.0	81.0	80.8	83.8	83.5	83.5	84.9	84.3	84.8	85.7	85.0	85.8	82.32
79.9	80.6	80.6	80.7	80.9	81.2	81.1	81.1	82.1	82.1	81.6	81.6	81.75
76.0	76.1	76.2	76.4	75.2	75.2	75.8	75.8	76.6	76.6	76.6	75.8	78.09
69.3	71.2	71.7	75.5	75.1	73.6	—	—	—	—	—	—	75.74
—	—	—	—	—	—	82.6	81.6	81.7	81.7	81.7	81.8	86.11
87.5	87.5	87.5	87.7	88.3	88.3	88.3	88.2	87.7	88.2	87.9	87.3	86.78
86.4	86.4	86.4	86.8	88.3	87.1	83.8	84.7	84.8	84.8	83.9	83.3	82.82
82.9 <sup>a</sup>	82.5	82.5	82.5	82.2	82.7	82.6	83.1	83.1	83.1	83.9	84.2	82.73
82.2	82.3	82.5	82.5	82.5	82.6	80.9	80.9	81.9	83.4	84.0	84.0	80.83
81.7	81.7	80.8	80.3	79.6	79.6	78.3	78.5	78.5	77.9	76.9	75.8	81.36
80.2	81.3	81.3	81.3	82.1	82.1	—	—	—	—	—	—	83.99
—	—	—	—	—	—	91.3	90.2	90.5	89.9	88.5	87.7	87.68
85.4	87.1	87.1	86.3	85.6	86.1	77.3	71.4	76.8	81.7	84.6	84.5	82.55
88.2	87.9	87.8	88.3	87.8	88.5	88.1	86.1	86.9	87.7	87.8	87.6	87.32
82.2	81.7	78.5	79.0	79.1	79.1	78.9	78.9	78.7	78.7	78.7	78.7	86.50
81.1	82.0	82.4	83.4	83.4	83.4	83.4	84.6	84.3	84.2	88.0	91.0	82.00
83.9	85.5	86.2	87.3	87.9	87.8	87.6	87.7	88.5	89.3	89.4	89.5	77.89
82.3	82.8	84.3	86.4	87.3	86.5	—	—	—	—	—	—	79.39
—	—	—	—	—	—	84.0	84.1	87.1	87.9	88.0	87.9	82.41
83.4	82.6	82.7	81.8	81.6	81.4	81.9	81.9	82.4	82.4	81.8	82.5	77.90
76.0	76.0	76.0	76.0	76.2	76.7	76.7	77.1	77.1	77.1	77.1	76.6	74.32
78.6	78.6	80.1	80.1	81.5	81.8	80.9	82.5	83.0	83.0	83.0	82.8	76.42
79.6	79.8	77.2	85.0	84.4	85.1	84.8	85.1	84.9	84.0	77.5	79.8	74.80
80.4	77.3	78.7	74.0	73.5	68.5	70.4	72.6	73.2	74.2	74.3	74.4	—
71.2	72.6	72.4	72.7	73.0	72.5	—	—	—	—	—	—	—
—	—	—	—	—	—	77.2	78.2	78.0	78.0	78.6	78.9	—
76.6	75.9	75.5	74.6	74.6	74.6	74.6	76.2	76.7	75.4	74.8	75.1	—
73.6	73.9	74.7	75.5	75.5	76.3	76.3	75.7	75.3	75.3	77.4	77.6	—
80.40	80.60	80.58	81.16	81.21	81.01	81.32	81.27	81.86	82.18	82.13	82.26	81.47

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
40.0	40.0	39.4	39.0	38.2	37.0	37.6	37.5	37.2	36.7	36.7	37.1	38.78
40.4	40.0	39.9	40.0	40.0	39.9	39.3	39.2	39.0	39.2	39.1	39.7	39.00
43.0	43.2	43.2	43.2	43.5	43.5	43.8	43.6	43.6	43.4	43.4	43.8	41.99
47.6	47.2	47.0	46.8	46.4	46.0	—	—	—	—	—	—	43.69
—	—	—	—	—	—	38.2	38.2	40.0	39.8	39.6	39.5	36.10
36.4	36.0	35.2	34.7	34.2	34.2	34.4	34.8	35.2	35.0	34.9	34.3	35.69
36.6	37.0	37.2	37.2	37.0	37.4	37.6	37.2	37.2	37.7	38.0	38.2	39.14
39.8 <sup>a</sup>	39.8	39.6	39.6	39.4	39.6	39.5	39.6	39.0	38.6	38.0	38.4	38.86
39.4	39.5	39.4	40.0	39.8	39.5	39.2	39.0	39.2	39.0	39.0	39.0	39.70
39.8	40.3	40.9	41.0	41.4	41.4	41.4	41.2	41.2	41.6	42.4	43.7	39.31
41.0	40.0	40.0	39.8	39.6	39.0	—	—	—	—	—	—	37.36
—	—	—	—	—	—	32.6	32.6	33.0	33.6	34.4	35.4	35.19
39.2	39.0	38.5	38.3	37.6	37.6	37.3	37.2	37.2	37.2	37.0	37.0	38.13
36.7	36.5	36.4	36.2	35.7	34.3	35.2	35.2	35.4	35.2	35.0	35.6	38.38
39.8	40.2	39.7	39.4	39.2	38.9	38.8	38.9	39.2	39.0	38.4	38.0	35.50
40.0	39.8	40.0	39.2	38.6	38.0	38.0	36.6	35.9	35.0	33.8	33.4	35.64
38.2	37.4	37.4	37.0	36.4	35.9	35.6	34.8	34.2	33.9	33.3	33.6	38.82
39.4	39.4	38.8	38.2	37.7	37.4	—	—	—	—	—	—	41.80
—	—	—	—	—	—	34.0	34.0	34.1	34.1	34.2	34.7	40.77
40.6	40.5	40.3	40.2	40.2	40.0	40.0	39.6	39.2	39.4	39.6	39.4	38.15
43.1	43.3	43.6	43.2	43.0	42.6	42.8	42.4	42.4	42.4	42.6	43.0	41.49
41.4	41.0	40.4	40.0	40.0	39.4	39.2	39.0	38.6	38.4	38.4	38.3	44.69
40.0	39.8	39.2	39.2	38.6	38.2	37.7	37.2	36.5	36.2	35.2	35.2	42.74
43.0	43.6	44.3	45.5	45.8	46.2	46.4	46.2	45.8	45.4	45.4	45.4	43.98
47.6	46.5	46.4	46.0	45.9	46.0	—	—	—	—	—	—	—
—	—	—	—	—	—	41.2	41.3	41.2	41.3	41.2	41.2	—
43.3	43.4	43.9	43.8	43.8	43.7	43.6	43.4	43.3	43.4	43.4	43.6	—
44.9	44.7	44.5	43.9	43.6	43.2	43.0	42.9	42.8	42.6	42.2	41.8	—
40.88	40.75	40.63	40.47	40.23	39.95	39.02	38.82	38.77	38.67	38.55	38.72	39.37

<sup>a</sup> Two minutes late.

VERTICAL FORCE.													
One Scale Division = .000094 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	78.4	78.8	77.5	78.8	78.8	78.8	79.3	79.8	79.7	80.1	80.4	81.4
	2	83.9	85.5	83.8	82.9	82.2	81.4	81.4	81.3	81.1	79.9	79.9	80.5
	3	85.3	85.3	84.9	84.7	83.0	82.1	82.1 <sup>a</sup>	79.5	79.3 <sup>b</sup>	79.5	79.1	79.5
	4	83.4	83.8	83.6	82.2	80.8	80.1	79.5	79.1	78.0	77.1	78.3	78.9
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	89.0	89.7	88.9	87.9	86.6	85.9	85.6	85.8	86.0	85.9	86.9	86.9
	7	80.6	84.6	84.6	84.7	82.4	82.2	84.4	85.9	84.0	82.6	80.3	80.5
	8	84.9	84.8	83.8	83.2	81.4	80.4	79.4	79.2	78.8	77.7	77.0	77.0
	9	77.4	77.9	77.2	76.6	75.3	74.5	73.6	74.0	72.9	72.7	71.7	70.9
	10	77.7	78.2	77.2	77.1	76.6	76.2	77.0	76.6	75.6	75.2	74.8	75.1
	11	72.6	72.9	72.2	71.9	72.0	71.3	72.3	71.7	72.6	72.6	71.2	71.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	78.7	78.9	80.6	79.9	77.2	77.9	76.1	74.1	72.8	73.5	72.2	72.9
	14	80.6	81.2	81.3	80.8	79.6	79.6	80.8	80.3 <sup>c</sup>	80.3	78.5	77.7	76.8
	15	77.0	77.0	77.7	78.4	76.7	76.7	76.4	75.8	75.8	74.7	75.4	74.7
	16	79.9	80.7	80.4	80.2	78.5	77.9	77.4	76.4	75.8	75.8	76.8	75.7
	17	81.3	81.8	82.0	81.5	80.1	78.4	79.7	77.3	77.6	76.8	76.4	77.8
	18	81.7	81.7	81.6	81.3	79.6	77.8	77.5	77.5	78.3	78.3	78.6	78.7
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	82.6	82.6	83.3	82.8	80.3	80.3	79.9	79.8	79.5	78.3	76.9	77.8
	21	80.7	81.2	81.2	80.8	78.7	78.2	77.9	77.7	79.1	79.4	78.5	78.0
	22	77.1	79.6	78.7	79.6	77.3	76.7	75.9	75.6	75.0	76.4	75.4	74.9
	23	79.2	81.4	81.6	82.3	80.7	79.7	79.8	80.8	82.5	81.1	81.2	83.4
	24	84.4	84.4	84.2	82.1	79.3	78.3	78.0	78.0	76.7	75.1	76.3	75.8
	25	80.7	81.0	80.5	79.7	77.0	75.2	75.2	74.9	74.8	73.5	73.5	75.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	81.0	81.1	81.3	80.4	79.8	79.8	80.4	79.7	79.7	79.9	80.2	79.8
	28	77.2	76.6	76.3	76.0	74.3	72.6	69.1	70.5	68.6	70.6	71.3	71.3
	29	77.0	76.1	76.1	74.5	74.4	72.4	70.4	71.4	73.5	76.8	78.7	75.7
	30	75.9	77.6	77.2	75.7	74.2	73.2	72.4	72.6	72.3	72.3	71.7	71.8
	31	76.3	76.3	76.2	75.4	74.8	74.5	75.0	75.9	76.7	77.2	77.3	77.5
Hourly Means	80.17	80.77	80.51	80.05	78.58	77.86	77.65	77.45	77.30	77.09	76.95	77.02	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
MARCH.	1	41.2	40.5	40.9	40.1	40.1	40.0	40.0	40.0	40.0	40.0	39.3	39.6
	2	36.3	36.0	36.2	36.4	36.8	37.4	37.4	37.8	38.4	38.4	39.0	39.4
	3	36.0	36.4	36.0	36.2	36.6	37.4	38.5 <sup>a</sup>	38.9	39.5 <sup>b</sup>	39.8	40.0	40.0
	4	37.4	37.1	37.4	38.4	38.8	39.4	39.8	40.4	41.3	41.9	42.3	42.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	33.2	32.8	33.1	33.5	34.2	34.6	35.2	35.9	36.2	37.2	38.1	38.8
	7	39.4	38.2	37.4	37.7	38.0	39.1	39.2	39.4	39.8	40.8	41.0	41.1
	8	38.4	38.3	38.2	38.2	39.2	40.0	40.4	40.8	41.2	41.8	42.6	42.6
	9	41.7	41.5	42.4	42.6	43.0	43.5	44.2	44.6	45.6	46.2	46.4	46.9
	10	42.2	42.1	42.0	41.9	42.0	42.2	42.6	42.9	43.4	43.5	44.2	44.4
	11	46.4	45.9	46.2	45.5	45.4	45.5	45.9	46.4	46.2	46.6	47.0	47.3
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	41.4	41.4	41.1	40.9	42.0	42.5	43.4	44.2	45.0	45.4	45.8	45.7
	14	40.9	40.2	39.4	39.0	40.0	40.5	40.8	41.0 <sup>c</sup>	41.2	41.8	42.2	43.2
	15	43.6	43.2	42.7	42.4	43.0	43.2	43.7	44.2	44.4	44.7	44.5	45.0
	16	40.9	40.3	40.2	40.2	40.3	40.8	41.9	43.0	44.0	43.9	44.0	44.4
	17	39.3	39.0	38.9	39.9	39.9	41.0	42.0	42.8	43.4	43.6	43.9	43.5
	18	39.2	39.1	39.2	40.0	40.2	40.9	41.3	41.6	41.6	41.6	41.6	41.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	39.0	38.8	38.4	38.2	38.7	39.2	40.0	40.2	41.0	42.2	42.8	42.6
	21	39.8	40.0	40.0	40.0	40.6	41.2	41.4	41.6	42.0	42.0	42.4	42.4
	22	41.5	40.8	40.4	40.6	41.3	42.0	43.0	43.5	43.8	43.9	44.4	44.7
	23	40.2	40.0	39.7	39.4	39.7	39.7	39.5	39.5	39.7	39.9	40.1	39.2
	24	36.8	37.2	38.0	38.7	39.4	40.0	40.2	40.6	41.4	42.5	43.0	43.0
	25	39.7	39.6	39.6	39.8	41.3	42.0	42.2	42.6	43.3	44.2	44.4	43.4
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	39.6	39.4	39.5	39.4	39.4	39.7	40.0	40.2	40.4	40.5	40.5	40.5
	28	42.0	42.0	42.4	42.6	43.0	43.8	45.0	46.0	46.7	47.0	46.6	46.4
	29	41.7	41.9	43.0	43.2	43.4	43.8	45.4	46.4	47.2	47.8	47.8	48.0
	30	43.2	43.1	43.6	44.0	44.5	45.2	46.0	46.5	47.2	48.0	48.2	47.6
	31	44.0	43.7	44.1	43.7	43.6	43.2	43.2	43.2	43.0	42.9	42.4	42.4
Hourly Means	40.19	39.94	40.00	40.09	40.53	41.03	41.56	42.01	42.48	42.89	43.13	43.15	

<sup>a</sup> Two minutes late.

<sup>b</sup> Five minutes late.

<sup>c</sup> Three minutes late.

VERTICAL FORCE.												
One Scale Division = '000094 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
81.9	81.1	81.1	81.9	81.8	81.8	81.8	82.1	82.1	82.9	83.0	82.9	80.68
81.4	81.4	81.7	82.0	82.0	83.0	83.5	83.8	84.5	85.7	85.9	85.4	82.67
79.5	79.9	80.0	80.0	81.3	81.3	81.6	82.0	82.0	82.3	82.3	82.4	81.62
80.2	81.1	81.9	82.3	83.7	83.7	—	—	—	—	—	—	—
—	—	—	—	—	—	81.6	80.1	80.7	84.2	88.6	89.0	81.75
90.8	97.2	97.4	95.9	90.2	84.1	77.5	72.6	76.6	82.5	80.6	78.3	86.20
80.5	80.5	80.5	81.4	83.0	83.6	83.3	83.1	83.5	84.7	85.0	84.1	82.92
77.3	78.0	76.8	76.8	76.6	76.6	76.6	77.2	77.2	77.5	77.5	76.8	78.98
70.7	71.9	72.4	74.5	75.7	75.7	75.9	76.6	76.6	76.6	77.2	76.6	74.80
75.9	75.9	76.5	76.5	74.2	74.2	73.1	73.1	72.9	73.3	72.9	72.6	75.35
72.1	72.3	73.9	73.9	72.6	72.6	—	—	—	—	—	—	—
—	—	—	—	—	—	82.5	76.1	69.7	71.3	74.9	78.2	73.11
74.4	75.4	76.1	75.0	77.8	80.2	77.2	73.9	73.6	78.5	79.4	79.3	76.48
76.5	76.8	76.8	76.8	75.1	75.8	77.0	77.0	76.6	75.7	75.7	76.5	78.07
74.4	75.2	75.7	75.7	75.7	76.2	75.7	76.8	77.1	77.5	78.6	79.2	76.42
74.7	73.4	73.4	75.1	75.9	76.4	77.1	79.1	79.5	80.4	80.9	81.6	77.62
79.8	84.8	85.8	82.0	79.3	79.7	79.7	79.7	79.7	80.3	80.3	81.7	80.15
78.7	79.3	83.9	85.3	84.5	87.7	—	—	—	—	—	—	—
—	—	—	—	—	—	80.6	80.6	80.6	80.6	81.5	81.4	80.72
79.2	79.5	80.2	80.7	80.7	80.7	79.7	79.6	79.6	79.6	79.6	79.6	80.12
78.3	78.7	79.3	79.3	79.3	78.8	77.7	77.3	78.4	78.4	78.4	78.1	78.89
74.5	75.5	76.5	77.0	76.1	76.7	75.5	74.8	74.4	76.3	77.3	78.0	76.45
83.4	83.4	83.4	83.1	83.1	83.0	85.3	85.3	85.3	85.4	85.4	84.4	82.68
77.3	78.1	79.3	79.3	80.0	79.9	80.5	80.5	80.8	80.8	80.8	80.6	79.60
76.2	77.2	77.9	78.4	78.7	79.3	—	—	—	—	—	—	—
—	—	—	—	—	—	81.2	81.5	81.6	81.5	81.1	81.2	78.20
79.3	79.3	79.3	79.3	79.7	79.0	78.5	77.6	77.6	77.6	77.6	77.2	79.38
71.4	71.2	71.2	72.3	72.7	73.8	73.8	74.2	75.4	75.2	75.9	76.4	73.25
73.3	74.7	75.8	75.8	75.8	74.9	73.6	73.9	74.9	75.2	75.2	75.8	74.83
73.1	73.3	73.2	73.5	72.6	69.9	74.5	75.4	75.7	75.7	75.7	75.7	73.97
77.7	77.1	76.9	76.9	76.1	76.4	76.5	76.4	76.4	76.4	76.4	76.4	76.36
77.50	78.23	78.77	78.91	78.67	78.70	78.58	78.16	78.26	79.12	79.48	79.61	78.56
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
38.4	38.6	38.4	39.0	38.8	38.8	38.8	38.6	38.2	37.8	37.2	36.9	39.22
39.2	39.2	39.0	38.9	38.5	38.0	37.3	36.8	36.2	36.0	35.5	35.8	37.50
40.0	40.0	40.0	40.0	38.0	37.8	38.7	39.2	39.0	39.0	38.5	38.0	38.48
41.4	40.5	40.0	39.8	39.4	39.0	—	—	—	—	—	—	—
—	—	—	—	—	—	33.0	33.2	33.7	33.6	33.4	33.4	38.19
38.7	38.2	38.0	37.7	37.1	37.0	37.1	38.0	38.2	38.2	39.1	39.8	36.46
41.4	41.2	41.2	40.8	40.2	40.0	39.8	39.2	38.7	38.2	38.0	38.1	39.50
42.5	42.6	43.0	43.0	43.2	43.3	43.0	42.8	42.6	42.4	42.1	42.0	41.42
47.2	46.5	46.0	45.4	44.4	44.2	43.9	43.4	43.2	43.0	43.0	42.6	44.22
44.6	44.8	44.9	45.1	45.2	45.4	45.6	45.9	46.0	46.0	46.2	46.7	44.16
47.4	47.6	47.4	47.2	47.0	46.2	—	—	—	—	—	—	—
—	—	—	—	—	—	40.0	40.0	40.2	40.6	41.2	41.5	45.03
45.4	45.1	44.6	44.6	44.0	43.4	43.0	42.7	42.4	42.3	41.6	41.6	43.31
43.6	43.5	43.5	43.4	43.4	43.3	42.9	42.8	42.8	43.2	43.3	43.6	42.06
45.1	44.6	44.4	44.2	44.2	43.8	43.4	43.2	42.7	42.3	42.0	41.4	43.58
44.8	44.8	45.7	45.2	44.2	43.6	43.2	42.2	41.4	40.4	40.2	39.7	42.47
43.0	42.8	42.9	42.7	42.2	41.8	41.6	41.3	41.0	40.5	40.0	39.6	41.52
40.6	40.5	40.4	40.2	40.0	38.8	—	—	—	—	—	—	—
—	—	—	—	—	—	39.8	40.0	39.7	39.3	39.1	39.2	40.20
42.2	42.2	41.8	41.4	41.4	41.1	40.6	40.4	40.0	39.9	39.8	39.9	40.49
42.1	41.4	41.2	41.0	40.8	41.0	41.4	41.4	41.4	41.4	41.4	41.7	41.23
44.9	45.7	45.6	44.9	44.8	44.4	43.8	43.6	42.2	41.6	41.4	40.4	43.05
39.1	39.0	38.7	37.9	37.4	37.0	36.6	37.0	36.7	36.2	36.3	36.6	38.55
42.2	41.2	40.6	40.2	39.9	39.9	40.0	40.0	39.8	39.5	39.7	39.6	40.14
42.9	42.0	41.4	41.0	40.4	39.9	—	—	—	—	—	—	—
—	—	—	—	—	—	39.2	39.0	38.9	39.2	39.8	39.8	41.07
40.5	40.1	40.0	39.9	39.6	40.2	40.4	40.8	41.0	41.2	41.2	41.6	40.23
46.3	46.4	46.6	46.2	45.6	45.0	44.4	44.2	43.6	42.9	42.2	41.8	44.53
47.7	47.6	47.4	47.2	46.6	46.2	46.4	45.4	45.0	44.4	43.8	43.4	45.45
47.2	46.8	46.6	46.2	45.5	45.0	44.4	44.2	44.0	44.0	44.3	44.2	45.40
42.4	42.5	42.5	42.8	43.0	43.0	42.9	43.2	43.0	43.0	43.0	42.8	43.06
42.99	42.79	42.66	42.44	42.03	41.74	41.16	41.06	40.80	40.60	40.49	40.43	41.51

VERTICAL FORCE.													
One Scale Division = .000094 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
APRIL.	1	77.0	77.0	77.0	76.2	75.0	72.8	72.8	71.9	72.0	71.3	71.4	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	77.7	76.9	76.0	74.3	72.3	70.5	69.7	68.3	68.8	68.8	67.3	66.9
	4	74.3	74.0	78.2	73.6	72.6	71.5	70.7	70.7	70.8	72.1	72.3	72.5
	5	71.6	71.3	69.6	67.3	64.7	63.6	69.0	72.5	76.7	78.7	89.0	87.2
	6	60.2	61.5	60.2	61.1	62.3	63.4	63.4	63.6	65.5	66.2	70.7	70.3
	7	71.5	70.9	70.4	68.2	67.0	66.9	69.6	68.3	70.2	72.8	71.6	71.1
	8	69.4	69.1	67.9	67.4	65.4	63.8	63.8	73.5	74.1	73.7	73.3	69.7
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	74.3	75.6	75.6	73.7	72.4	71.7	71.4	70.6	71.7	72.6	70.8	70.6
	11	74.5	73.1	72.3	70.5	68.6	68.0	67.2	67.7	67.8	69.1	69.1	67.4
	12	71.2	70.0	68.4	66.9	64.8	63.7	63.7	65.2	64.9	63.9	63.9	67.0
	13	69.0	67.7	66.0	65.8	64.4	65.6	64.5	64.5	65.7	66.2	67.3	68.4
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	63.0	63.6	63.8	63.7	63.5	61.1	61.0	62.3	61.7	61.7	60.4	60.8
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	68.6	66.6	66.5	64.9	63.5	63.5	64.4	64.5	64.8	65.2	65.4	65.7
	18	67.4	67.4	68.3	69.1	69.1	68.4	68.0	67.2	69.6	69.3	69.3	69.9
	19	69.6	69.6	69.6	69.6	68.6	67.7	67.4	66.6	65.7	65.9	65.4	65.6
	20	60.7	61.0	61.0	60.8	61.1	60.5	60.6	61.4	60.8	60.7	60.5	59.2
	21	63.2	61.0	59.7	57.9	57.2	56.3	55.0	54.4	55.1 <sup>b</sup>	54.5	53.5	53.5
	22	57.4	56.8	56.1	55.5	53.5	52.1	52.1	52.8	53.5	54.8	54.7	55.0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	53.3	52.8	51.4	51.0	51.0	51.0	52.4	52.9	52.3	52.9	52.8	51.8
	25	56.3	55.2	55.3	55.4	54.2	52.7	52.8	53.5	54.4	53.6	54.1	53.4
	26	56.3	56.1	56.2	55.3	53.4	52.4	52.4	52.9	52.9	52.4	52.6	52.4
	27	55.2	55.2	54.3	54.4	54.6	54.6	55.0	55.8	56.3	56.1	55.8	55.4
	28	56.7	56.3	54.4	52.8	51.3	50.6	52.0	51.0	49.9	48.9	47.5	47.6
	29	55.2	55.3	56.0	56.0	56.4	57.1	57.1	57.6	59.0	59.4	58.6	58.6
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	65.57	65.17	64.76	63.81	62.79	62.06	62.33	62.90	63.51	63.78	64.05	63.80
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
APRIL.	1	42.1	41.8	42.5	42.4	43.2	44.2	44.6	45.5	46.2	46.4	46.9	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	41.5	41.5	42.3	43.0	44.3	45.6	46.6	48.1	49.2	50.0	50.8	51.4
	4	45.2	45.1	45.2	45.0	45.2	45.9	47.6	47.2	46.8	46.6	46.7	46.6
	5	46.0	46.1	47.2	48.2	49.3	50.0	50.6	51.0	51.6	52.2	52.4	52.8
	6	51.2	50.8	51.4	52.1	52.3	52.8	53.0	53.0	53.0	52.6	52.6	53.0
	7	47.2	47.3	47.5	47.8	48.4	48.8	49.2	49.7	49.9	50.2	50.6	50.4
	8	49.1	49.2	49.5	49.2	50.7	51.2	52.6	52.4	52.7	53.2	53.2	53.4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	45.3	44.8	45.1	45.4	46.4	46.6	47.2	47.4	47.9	48.4	49.2	49.2
	11	46.9	47.0	47.0	48.2	49.2	50.0	49.8	50.2	50.6	50.9	51.2	52.2
	12	48.9	49.5	50.0	50.4	51.2	52.4	53.2	54.2	55.0	56.0	56.7	57.2
	13	50.8	51.6	52.0	51.6	51.7	52.0	52.2	52.8	52.8	53.0	52.7	52.6
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	53.0	53.0	53.0	53.2	53.7	54.8	55.6	56.0	56.7	57.4	58.0	58.2
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	50.0	50.8	51.2	52.4	53.0	53.2	53.2	53.4	53.4	53.4	53.4	53.1
	18	50.2	49.4	49.2	49.2	49.0	48.6	48.4	48.5	48.5	48.4	48.4	48.4
	19	47.4	47.4	47.2	47.2	47.4	48.0	48.8	49.6	50.2	50.6	50.9	51.1
	20	54.0	53.6	53.4	53.2	53.2	53.7	54.2	54.6	55.0	55.3	55.0	56.2
	21	52.4	52.6	53.5	55.0	56.1	56.5	57.2	57.9	58.3 <sup>b</sup>	59.1	59.4	60.0
	22	57.1	57.2	57.3	58.0	58.4	59.0	59.2	59.4	59.2	59.0	59.0	59.0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	59.4	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.3	60.5	60.6	60.9
	25	58.0	57.7	57.6	57.6	58.0	58.2	58.5	58.7	58.7	59.2	59.3	59.3
	26	57.0	56.7	56.6	56.7	57.2	57.8	58.2	58.9	59.2	59.7	60.2	60.0
	27	58.0	57.4	57.2	57.0	56.7	56.7	57.0	58.9	59.2	59.7	59.7	59.1
	28	57.3	57.2	58.0	58.8	59.4	60.0	60.0	60.7	62.5	62.8	63.5	63.3
	29	59.0	58.2	57.5	57.0	56.5	56.3	56.2	56.2	55.2	55.2	55.2	54.8
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	51.12	51.07	51.31	51.61	52.10	52.60	53.05	53.44	53.77	54.09	54.37	54.56

<sup>a</sup> Good Friday.

<sup>b</sup> Three minutes late.

VERTICAL FORCE.												
One Scale Division = .000094 parts of the V. F.												Change in the magnetic moment of the Bar for 1° Fah°. = .00007.
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 72.4	Sc. Div. 72.7	Sc. Div. 72.7	Sc. Div. 72.7	Sc. Div. 73.2	Sc. Div. 73.5	Sc. Div. —	Sc. Div. —	Sc. Div. —	Sc. Div. —	Sc. Div. —	Sc. Div. —	Sc. Div. —
—	—	—	—	—	—	76.9	76.7	76.7	77.3	77.3	78.0	74.40
60.6	60.5	65.6	66.4	67.0	68.4	70.1	70.2	71.4	72.3	72.0	72.2	69.76
72.8	72.3	71.9	72.8	72.8	71.9	71.9	72.	72.0	72.0	71.6	70.7	72.42
89.6	92.5	68.8	76.1	69.8	67.7	63.2	57.3	56.4	43.3	46.7	49.0	69.23
76.0	75.5	79.7	67.8	68.4	55.9	62.9	67.3	70.0	69.9	70.8	70.4	66.79
71.2	68.2	68.8	70.7	61.9	63.0	64.8	65.0	63.2	62.8	68.8	69.3	68.18
68.8	69.7	70.5	68.5	68.5	68.2	—	—	—	—	—	—	—
—	—	—	—	—	—	72.5	70.4	70.4	70.4	70.4	72.6	69.67
70.6	70.6	70.6	70.8	70.5	70.5	70.5	71.4	71.6	69.7	69.4	71.8	71.63
66.9	65.9	66.1	66.1	65.9	65.8	66.4	65.2	66.4	66.0	67.5	70.3	68.08
67.2	67.3	67.5	61.5	59.9	57.0	56.7	65.1	65.1	66.4	66.4	63.7	64.89
68.9	68.3	67.6	67.0	67.2	67.0	—	—	—	—	—	—	—
—	—	—	—	—	—	57.7	58.8	60.2	59.3	58.9	59.6	64.82
61.1	60.6	60.8	60.8	60.8	61.0	—	—	—	—	—	—	—
—	—	—	—	—	—	65.7	66.4	67.2	66.4	67.7	68.6	63.07
65.7	66.0	68.9	67.5	70.6	66.4	62.5	67.2	66.2	65.5	65.8	66.9	65.95
70.4	70.7	70.0	70.0	70.0	68.6	69.4	69.4	69.6	69.6	69.6	69.6	69.16
65.1	64.4	63.3	62.3	60.5	60.1	55.8	57.4	58.8	58.6	60.3	61.0	61.12
58.0	58.0	58.5	58.0	58.0	58.8	59.6	60.5	61.1	61.3	62.6	63.2	60.25
53.0	53.0	53.1	53.2	53.6	54.8	56.0	56.0	55.7	55.9	56.4	56.9	55.79
55.4	56.0	56.0	56.0	56.0	56.4	—	—	—	—	—	—	—
—	—	—	—	—	—	53.6	53.4	50.7	53.3	53.3	53.3	54.49
51.9	51.5	51.9	51.9	52.4	52.2	53.2	53.2	53.2	54.0	54.3	55.2	52.52
53.4	54.4	54.4	54.7	55.3	54.5	55.0	56.3	56.6	57.3	56.4	56.3	54.81
52.1	51.6	51.9	52.0	52.0	51.8	51.9	51.7	51.6	51.4	53.8	53.8	52.95
53.3	53.5	52.9	53.9	53.9	54.0	53.7	53.6	54.6	55.2	55.8	56.3	54.73
47.1	47.1	47.1	47.1	47.1	48.5	49.2	49.8	50.5	50.2	51.8	53.3	50.33
59.6	58.8	59.3	59.7	60.0	60.8	—	—	—	—	—	—	—
—	—	—	—	—	—	63.6	64.4	64.4	65.0	65.1	65.8	59.70
63.80	63.71	63.25	62.81	62.30	61.53	61.78	62.45	62.65	62.21	63.03	63.66	63.24

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
46.4	46.6	46.5	46.4	45.9	45.5	—	—	—	—	—	—	—
—	—	—	—	—	—	43.6	43.0	42.4	42.4	42.0	41.8	44.40
52.0	51.7	51.6	50.9	50.0	49.4	48.4	48.0	47.2	46.5	46.2	45.7	47.58
46.7	46.6	46.5	46.6	46.4	46.6	46.6	46.5	46.5	46.4	46.3	46.0	46.28
53.0	53.5	53.4	53.2	52.7	52.5	52.2	52.2	52.0	52.0	51.7	51.6	51.14
53.0	52.7	52.0	52.7	52.7	53.0	52.2	51.0	50.0	49.2	48.5	47.9	51.78
50.2	50.2	50.3	49.9	49.6	49.6	49.2	49.2	49.2	49.3	49.1	49.0	49.24
52.8	52.4	52.2	52.1	51.7	51.7	—	—	—	—	—	—	—
—	—	—	—	—	—	46.7	46.2	46.2	45.7	45.4	45.5	50.21
49.4	49.2	49.2	49.2	49.2	49.2	48.7	48.2	47.7	47.4	47.4	47.1	47.70
53.0	53.4	53.0	52.3	52.3	52.1	52.1	51.2	50.6	50.0	49.6	49.2	50.50
57.4	57.2	56.9	56.6	55.8	55.2	54.7	54.0	53.2	52.4	52.2	51.8	53.84
52.4	52.6	52.5	52.5	52.2	52.0	—	—	—	—	—	—	—
—	—	—	—	—	—	53.4	53.5	53.5	53.2	53.2	52.9	52.49
58.2	58.2	58.1	57.9	57.3	57.0	—	—	—	—	—	—	—
—	—	—	—	—	—	52.6	52.0	51.4	50.8	50.6	50.2	54.87
53.0	52.5	52.3	52.2	52.0	51.6	51.6	51.4	51.2	51.2	51.0	50.7	52.13
48.2	48.2	48.2	48.2	48.2	48.2	47.9	47.4	47.4	47.4	47.4	47.4	48.35
50.8	51.2	51.7	52.3	53.1	53.4	54.3	54.6	54.0	54.2	54.2	54.2	50.99
56.7	56.8	56.3	56.4	56.2	55.6	55.2	54.5	53.8	53.4	53.2	52.8	54.68
60.0	60.0	60.0	59.6	58.8	58.9	58.9	58.2	58.1	57.7	57.3	57.2	57.61
58.4	58.3	58.0	57.9	57.6	57.3	—	—	—	—	—	—	—
—	—	—	—	—	—	60.0	59.8	59.8	59.8	59.8	59.8	58.68
60.7	60.2	60.2	60.3	60.2	60.1	59.8	59.7	59.5	58.6	58.3	58.2	59.89
59.2	59.0	58.4	58.2	57.9	57.3	57.3	57.4	57.4	57.0	57.2	57.2	58.10
60.0	60.3	60.2	59.7	59.7	59.5	59.5	59.6	59.4	59.0	58.8	58.4	58.85
59.4	59.7	59.7	59.2	59.0	59.0	59.2	58.4	58.2	58.0	57.8	58.0	58.19
63.5	63.5	63.2	62.6	62.3	62.0	61.6	61.3	61.0	59.8	59.8	59.6	61.00
54.2	54.2	54.1	54.0	53.8	53.4	—	—	—	—	—	—	—
—	—	—	—	—	—	50.3	50.2	50.1	49.8	49.5	49.8	54.20
54.52	54.51	54.35	54.20	53.94	53.75	53.17	52.81	52.49	52.13	51.94	51.75	53.03

VERTICAL FORCE.													
One Scale Division = $\cdot 000094$ parts of the V. F.      Change in the magnetic moment of the Bar for $1^{\circ}$ Fah $^{\circ}$ = $\cdot 00007$ .													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MAY.	1	66.5	66.8	66.4	65.0	64.8	65.3	66.3	70.4	66.7	63.2	65.5	65.8
	2	67.3	66.5	66.4	66.8	66.8	67.3	67.2	66.2	69.3	66.4	66.2	66.2
	3	66.0	63.4	63.3	61.9	57.4	58.2	57.9	57.0	57.5	57.8	57.0	56.5
	4	60.6	60.6	60.3	60.3	59.4	59.1	58.0	57.4	58.6	58.8	59.8	61.5
	5	64.9	64.0	62.5	61.1	60.2	60.2	60.2	61.9	62.8	62.5	62.5	62.3
	6	65.0	64.4	63.9	63.0	61.6	59.4	58.6	58.7	61.1	62.0	80.9	104.1
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	59.0	59.0	60.3	60.3	60.3	59.3	58.5	57.9	58.6	57.7	58.3	58.9
	9	61.0	61.3	60.2	59.0	58.0	57.7	57.0	58.0	58.0	58.8	59.6	56.8
	10	59.3	57.9	56.5	53.8	56.5	57.3	56.5	57.7	59.4	58.4	57.8	58.7
	11	57.6	57.1	55.8	54.6	52.4	52.4	51.5	51.8	51.4	51.1	50.7	51.5
	12	53.1	53.1	52.9	51.5	51.1	49.8	48.0	47.7	49.0	49.2	49.0	49.8
	13	53.4	54.4	53.5	51.9	50.5	49.2	47.8	47.3	47.2	46.2	46.0	46.1
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	47.5	46.8	44.4	41.3	39.3	38.7	39.3	38.8	40.2	43.4	42.0	42.5
	16	44.2	46.6	46.9	45.9	45.5	44.0	43.2	43.5	44.9	45.8	47.5	47.2
	17	54.3	52.7	51.6	50.3	49.5	50.2	50.2	50.2	51.0	52.2	53.9	54.7
	18	59.6	59.6	56.9	55.6	53.9	52.9	53.4	53.8	54.2	54.2	53.2	53.3
	19	53.2	53.2	56.4	55.3	53.4	52.0	52.6	53.1	53.2	53.9	54.3	54.0
	20	60.5	58.8	57.1	56.1	54.2	53.3	52.1	52.0	52.9	53.2	53.0	57.4
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	56.0	56.0	56.0	54.2	52.0	51.7	51.4	51.8	52.3	52.1	52.7	53.4
	23	55.4	54.1	53.3	51.7	49.6	48.9	48.6	47.6	49.3	50.6	51.4	51.8
	24	56.9	56.0	54.9	54.9	53.1	52.9	53.0	52.4	52.4	52.1	51.4	50.4
	25	56.3	54.8	52.8	51.0	51.0	51.0	50.5	50.9	52.0	51.2	50.4	50.8
	26	54.8	54.8	54.8	52.6	51.5	51.5	50.4	51.0	52.1	55.1	57.4	55.9
	27	53.0	53.1	52.8	52.8	52.1	51.7	51.0	51.4	52.1	54.2	53.3	52.6
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	57.1	56.0	54.5	53.3	52.5 <sup>a</sup>	51.0	49.2	50.4	50.6	51.6	51.3	52.3
	30	54.7	54.6	53.6	52.5	51.1 <sup>b</sup>	51.1	51.1	51.5	53.7	55.4	55.5	55.9
	31	60.9	60.3	59.1	58.9	57.4	57.4	57.7	57.5	58.8	58.8	59.3	59.7
Hourly Means	57.71	57.26	56.56	55.39	54.26	53.83	53.38	53.63	54.42	54.66	55.55	56.67	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
MAY.	1	49.4	49.4	49.7	49.9	50.3	49.6	49.3	49.6	49.1	49.3	48.4	48.6
	2	49.0	49.4	49.7	48.9	48.5	48.0	48.1	49.0	50.0	50.2	50.4	51.0
	3	49.4	50.5	50.4	51.6	52.9	53.3	54.1	54.3	55.0	55.3	56.0	56.1
	4	53.0	52.8	52.8	52.7	52.7	52.7	53.0	53.0	53.1	53.3	53.5	53.2
	5	50.0	50.2	51.0	51.4	51.4	51.2	51.1	51.0	50.8	51.0	51.4	51.6
	6	49.7	49.7	49.7	50.1	50.3	51.2	52.0	53.0	53.3	54.2	55.0	55.4
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	55.4	55.4	55.7	55.7	56.0	56.2	56.5	57.0	57.6	57.8	58.0	57.9
	9	55.2	55.2	56.0	57.0	57.3	57.6	57.8	58.0	58.2	57.8	59.0	59.0
	10	57.0	57.0	57.0	57.5	57.7	58.0	58.2	58.3	58.7	58.9	58.9	58.6
	11	57.6	58.2	59.0	59.1	59.4	60.0	60.2	60.6	60.9	61.1	61.5	61.6
	12	59.0	59.3	59.4	60.0	60.5	60.6	60.8	61.5	61.9	62.5	62.9	63.0
	13	60.0	59.5	60.0	60.5	60.7	61.5	62.0	62.9	63.3	64.0	64.5	64.8
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	62.5	63.3	63.8	64.7	65.5	66.0	66.5	66.3	66.6	66.7	67.1	67.5
	16	63.0	63.0	63.2	63.4	63.5	63.5	63.5	63.2	63.3	63.5	63.9	64.2
	17	58.0	58.2	58.4	59.0	59.0	59.0	59.0	59.8	60.0	60.1	60.0	60.0
	18	55.7	56.0	56.2	57.2	57.8	58.0	58.1	58.2	58.3	58.6	58.9	59.1
	19	55.0	55.0	55.4	56.0	56.4	57.0	57.4	58.0	58.2	58.7	58.9	59.0
	20	54.2	54.4	55.0	56.2	57.0	57.7	58.2	58.6	59.0	59.4	60.0	60.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	57.2	57.0	57.0	57.5	58.0	58.1	58.2	58.6	59.0	59.2	59.2	59.1
	23	57.2	58.0	58.2	58.2	59.0	59.2	59.4	59.4	59.8	60.1	60.2	60.0
	24	56.5	56.7	57.2	57.7	58.0	58.2	58.5	59.0	59.5	60.0	60.5	61.2
	25	56.7	57.2	57.7	58.7	59.2	59.4	60.0	60.0	60.0	60.0	60.5	60.8
	26	57.7	57.5	57.3	57.7	58.0	58.0	58.3	59.2	59.2	59.3	59.4	59.7
	27	59.2	59.0	59.0	58.9	59.0	59.0	59.1	59.5	59.6	59.6	59.5	60.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	56.2	56.5	57.5	58.2	59.0 <sup>a</sup>	59.5	59.4	60.0	60.1	60.2	60.4	60.8
	30	58.0	58.0	58.4	59.2	59.4 <sup>b</sup>	60.0	60.0	59.3	59.1	58.2	57.3	57.2
	31	53.5	53.0	53.2	53.1	53.0	53.0	53.0	53.0	53.1	53.2	53.2	53.2
Hourly Means	55.75	55.90	56.22	56.67	57.02	57.24	57.47	57.79	58.03	58.27	58.46	58.61	

<sup>a</sup> Three minutes late.<sup>b</sup> Five minutes late.

VERTICAL FORCE.												
One Scale Division = '000094 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
68·0	66·6	66·3	66·2	66·3	67·6	67·3	67·3	67·7	67·3	67·5	67·3	66·59
65·7	63·3	63·2	62·9	63·2	63·1	63·5	65·3	64·6	64·9	66·0	66·0	65·60
56·8	57·4	57·7	58·9	58·9	58·9	58·9	59·0	59·5	59·9	60·2	60·6	59·19
61·5	61·5	62·1	62·5	62·8	62·4	63·5	63·6	63·4	63·4	64·7	65·3	61·30
62·7	63·1	63·0	63·4	64·1	63·8	64·3	64·1	64·1	64·4	64·1	65·0	62·97
108·3	83·1	66·9	60·4	63·6	71·5	—	—	—	—	—	—	—
—	—	—	—	—	—	50·7	55·7	59·3	60·5	55·8	53·7	66·34
61·0	59·6	61·4	61·1	60·9	59·8	51·6	51·6	51·6	57·4	62·5	62·3	58·70
56·4	5·1	56·1	56·2	55·6	55·9	52·1	52·1	52·5	53·1	57·9	59·3	57·03
59·7	59·3	59·4	54·5	54·2	56·2	55·3	51·4	53·1	56·3	57·0	56·9	56·80
51·5	51·5	52·1	52·4	52·7	52·8	52·6	51·6	53·6	53·6	53·6	53·0	52·87
50·5	50·5	50·5	47·6	44·5	47·9	49·1	51·0	51·9	52·1	52·0	52·0	50·16
45·8	46·6	46·1	46·1	46·5	46·1	—	—	—	—	—	—	—
—	—	—	—	—	—	45·9	45·9	46·8	47·2	47·5	47·5	47·98
42·3	42·1	42·1	43·2	41·3	43·7	40·3	40·5	40·5	45·6	41·9	40·8	42·02
47·7	47·7	47·4	48·1	45·4	44·4	43·8	46·3	47·9	51·0	52·2	53·9	46·71
54·7	53·7	53·7	53·7	53·7	53·9	51·8	52·2	56·1	57·7	59·1	59·6	53·36
53·2	53·2	52·7	54·0	54·7	55·5	55·3	55·3	55·4	57·0	57·0	53·3	54·88
53·8	53·8	53·6	53·6	53·7	53·7	55·5	56·4	56·8	56·5	58·8	60·5	54·64
52·4	51·3	51·0	51·1	51·1	52·4	—	—	—	—	—	—	—
—	—	—	—	—	—	52·7	52·9	53·3	53·6	54·5	55·9	53·87
53·2	53·5	53·5	53·5	53·6	53·6	53·7	53·9	54·3	54·6	54·6	55·4	53·63
54·7	52·5	52·5	52·1	53·2	53·5	54·1	55·1	55·5	56·1	56·8	57·5	52·62
49·2	49·5	48·4	49·9	50·7	51·9	52·5	52·5	52·6	54·3	54·8	55·7	52·60
49·7	49·7	49·7	50·7	50·7	51·3	51·3	51·5	51·9	52·8	53·7	54·8	51·69
56·9	58·1	58·2	54·7	52·4	49·7	50·0	50·0	50·0	50·7	51·8	52·3	53·20
53·4	53·7	52·3	52·2	53·5	53·5	—	—	—	—	—	—	—
—	—	—	—	—	—	52·0	50·0	47·9	50·6	54·4	58·9	52·60
50·3	49·6	49·6	49·8	50·6	42·2	43·6	50·8	50·4	51·5	55·3	56·1	51·23
56·9	57·2	56·2	57·2	57·3	57·0	58·1	58·5	58·5	59·8	60·5	62·2	55·84
59·9	60·1	60·3	60·5	60·8	61·1	61·3	61·4	61·7	62·5	63·4	63·5	60·10
56·79	55·71	55·04	54·69	54·67	54·94	53·73	54·29	54·85	56·09	56·95	57·38	55·35
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
49·0	49·2	49·4	49·2	48·7	48·9	48·9	48·9	48·5	48·5	48·8	48·5	49·13
51·2	51·7	52·0	52·0	51·7	51·9	52·0	50·4	50·0	49·8	49·4	49·2	50·15
56·1	55·6	55·4	55·0	54·6	54·3	54·0	53·8	53·4	53·2	53·2	53·0	53·77
52·8	52·4	52·2	51·7	51·1	51·0	50·7	50·3	50·0	49·6	49·6	49·8	51·96
51·2	51·1	50·9	50·4	50·2	50·4	50·2	50·0	49·8	49·2	49·8	49·9	50·63
56·1	56·4	56·4	57·2	56·9	57·3	—	—	—	—	—	—	—
—	—	—	—	—	—	56·5	56·4	56·4	56·1	55·7	55·7	54·20
58·0	57·8	57·4	57·4	57·2	57·0	56·6	56·0	55·8	55·4	55·2	54·8	56·57
59·0	59·0	59·2	59·0	58·8	58·4	58·0	58·2	57·6	57·2	57·1	57·0	57·82
58·2	58·2	58·2	58·1	58·1	58·0	57·9	57·7	57·7	57·6	57·5	57·3	57·93
61·6	61·5	61·5	61·3	61·0	60·5	60·0	60·0	59·8	59·2	59·0	58·9	60·15
63·0	62·5	62·5	62·3	62·0	61·5	61·3	61·0	61·0	61·0	60·5	60·0	61·25
64·9	64·7	64·7	64·0	64·0	63·7	—	—	—	—	—	—	—
—	—	—	—	—	—	64·7	63·7	63·5	63·3	63·0	62·5	62·93
67·9	68·0	67·8	67·1	66·5	65·7	65·2	65·1	64·3	63·5	63·2	62·5	65·55
64·3	64·0	63·7	62·6	61·5	60·8	60·6	59·9	59·3	59·0	58·5	58·0	62·22
60·0	60·0	59·2	59·5	59·0	58·4	57·8	56·3	55·3	55·3	55·2	55·0	58·40
59·2	59·2	59·2	59·1	58·5	58·0	57·4	57·2	57·0	56·5	56·0	55·2	57·69
59·0	59·0	58·8	58·3	58·2	57·4	56·8	56·2	55·8	55·4	54·5	53·7	57·00
60·0	60·0	60·5	60·2	59·8	59·4	—	—	—	—	—	—	—
—	—	—	—	—	—	59·2	59·0	58·4	58·0	57·7	57·2	58·30
59·1	59·0	58·8	58·6	58·4	58·0	58·0	58·2	58·0	58·0	57·6	57·4	58·22
60·0	59·8	59·8	59·8	59·4	58·6	58·2	57·6	57·0	56·6	56·2	55·7	58·64
61·5	61·5	61·5	61·0	60·2	59·8	59·2	59·0	58·3	57·8	57·3	57·0	59·05
61·2	60·8	60·7	60·3	60·0	59·6	59·3	59·2	58·9	58·6	58·2	58·0	59·37
59·5	59·1	59·5	60·0	61·0	61·3	62·0	62·5	61·5	60·0	59·7	59·3	59·45
59·6	59·5	59·2	59·0	58·7	58·4	—	—	—	—	—	—	—
—	—	—	—	—	—	59·2	58·8	58·2	57·9	57·2	56·2	58·89
61·5	61·5	61·4	60·9	60·5	60·0	60·0	59·4	59·0	58·3	57·8	57·0	59·38
56·8	56·2	56·0	56·0	55·6	55·0	54·2	53·5	53·3	53·1	52·7	52·2	56·61
53·0	52·8	52·5	52·2	52·0	51·5	51·2	50·7	50·2	50·0	49·8	49·4	52·20
58·66	58·54	58·46	58·23	57·91	57·59	57·37	57·00	56·59	56·23	55·94	55·57	57·31



VERTICAL FORCE.													
One Scale Division = .000094 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JUNE.	1	65.5	64.1	63.0	61.0	59.9	59.5	59.4	59.9	59.6	59.6	60.5	
	2	61.1	61.9	61.2	60.9	60.9	61.2	60.7	60.6	60.9	59.9	60.9	61.3
	3	62.5	62.4	62.0	60.9	60.1	57.4	56.1	56.7	56.7	57.1	56.9	57.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	60.4	60.4	60.7	60.5	60.0	58.1	56.6	56.8	57.6	57.7	57.7	57.8
	6	60.1	59.5	59.5	58.6	57.4	56.9	54.9	54.3	54.8	55.2	55.3	55.2
	7	57.6	57.3	55.9	55.0	53.3	52.5	52.5	52.7	52.6	51.5	53.8	56.6
	8	56.1	55.0	55.0	54.3	53.2	53.5	53.8	54.9	54.0	55.3	56.0	56.0
	9	53.6	52.9	52.0	49.8	46.3	44.3	42.3	42.5	42.5	42.1	42.1	41.4
	10	43.5	44.1	46.0	47.0	45.3	46.5	47.8	48.7	50.0	50.0	52.5	53.6
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	52.3	52.3	52.0	50.3	49.7	48.3	48.3	47.7	47.0	47.0	47.8	47.0
	13	45.4	46.4	46.4	47.0	47.7	45.3 <sup>c</sup>	45.3	47.8	46.2	46.2	46.2	47.6
	14	49.2	48.2	47.2	46.2	45.8	45.8	45.8	45.5	45.5	45.8	45.5	44.5
	15	48.5	47.7	47.2	45.8	45.8	45.8	45.1	45.9	46.9	46.5	46.4	46.8
	16	50.7	50.7	50.5	48.5	47.4	46.5	46.9	48.1	47.8	47.4	48.1	48.1
	17	50.3	50.8	49.4	48.0	48.5	44.8	45.8	45.9	47.4	47.6	46.1	45.5
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	45.8	46.1	45.5	44.6	43.0	42.2	42.2	42.0	42.4	43.1	43.5	42.8
	20	45.7	45.2	43.9	42.0	40.1	37.9	37.2	37.2	37.8	37.4	36.8	36.5
	21	40.7	40.7	39.5	38.2	37.3	36.3	35.5	34.5	32.7	32.1	31.0	29.5
	22	34.9	33.5	32.9	31.6	30.3	29.3	28.8	29.2	27.8	27.6	27.7	28.0
	23	33.8	33.8	32.5	32.1	32.1	32.1	32.3	32.2	32.2	31.9	31.4	30.8
	24	35.8	35.8	36.0	36.0	36.0	36.0	35.5	34.6	33.8	33.9	33.7	32.4
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	38.0	38.5	37.5	36.5	36.5	34.3	33.3	33.3	33.4	33.7	33.7	32.4
	27	34.8	32.8	32.8	31.7	30.5	28.3	26.9	26.1	24.7	24.4	24.7	25.0
	28	31.7	31.7	31.8	31.8	30.6	30.4	30.4	29.4	29.2	28.6	28.0	28.3
	29	32.1	33.1	32.9	32.0	31.0	31.0	30.5	30.2	31.4	30.9	30.9	29.4
	30	34.3	32.3	31.0	29.2	28.4	28.0	28.3	29.4	29.2	29.0	31.0	32.5
Hourly Means	47.09	46.82	46.32	45.37	44.50	43.55	43.17	43.29	43.25	43.10	43.36	43.34	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
JUNE.	1	49.2	49.3	49.5	50.2	50.3	50.8	51.2	51.7	52.2	52.9	53.2	53.2
	2	49.2	49.2	49.4	49.7	50.0	50.5	51.2	51.7	52.1	52.4	52.9	52.9
	3	52.0	51.7	52.0	52.7	53.3	54.0	55.0	55.3	55.6	56.0	56.0	56.2
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	54.0	53.7	53.7	53.7	53.7	54.0	54.7	54.7	54.9	55.2	55.5	55.6
	6	54.0	54.2	54.2	54.5	55.4	56.0	56.7	57.0	57.3	57.8	57.7	57.8
	7	55.3	55.5	55.7	56.4	57.1	57.7	58.0	59.0	59.2	59.5	59.8	59.7
	8	57.4	57.4	57.5	57.8	57.7	57.7	57.7	57.9	58.0	58.0	58.0	58.2
	9	58.7	59.1	59.5	60.0	61.0	62.3	63.2	64.1	65.0	66.0	66.3	66.7
	10	61.0	60.5	60.5	60.2	60.2	60.6	60.5	60.7	60.7	60.6	60.5	60.5
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	58.2	58.7	59.5	60.0	60.3	60.7	61.0	61.7	62.3	63.0	63.7	64.3
	13	61.5	61.5	61.5	61.5	61.7	62.0 <sup>c</sup>	62.3	62.5	62.7	63.1	63.3	63.4
	14	61.5	61.5	61.8	62.5	62.7	63.0	63.3	63.5	63.6	63.7	64.2	64.5
	15	60.0	60.0	60.5	61.4	61.4	61.4	61.5	61.5	61.5	61.8	62.0	62.1
	16	59.0	59.0	59.0	59.2	59.5	60.0	60.2	60.4	60.6	61.1	61.6	62.0
	17	59.4	59.8	60.2	60.5	61.0	61.5	61.7	62.4	62.5	62.6	63.0	63.3
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	61.0	61.2	61.5	62.5	63.0	63.3	63.7	64.0	64.7	65.1	65.3	65.5
	20	62.5	62.5	63.2	64.0	64.7	65.5	66.2	66.7	67.5	68.5	69.0	69.4
	21	66.0	66.2	66.5	67.2	67.7	68.5	69.5	70.3	71.0	71.8	72.7	73.1
	22	69.9	70.3	71.1	71.4	71.8	72.5	72.8	73.3	74.3	74.8	75.3	75.3
	23	70.5	70.5	70.5	70.7	70.7	71.0	70.7	70.8	71.1	71.5	71.8	72.5
	24	69.5	69.3	69.3	69.1	69.0	69.1	69.4	69.5	70.0	70.5	71.3	71.9
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	66.0	66.3	66.7	67.5	68.0	68.5	68.7	69.3	69.6	70.2	71.0	71.8
	27	69.3	70.0	70.5	71.5	72.0	72.6	73.3	74.3	74.8	75.1	75.2	75.4
	28	71.3	71.3	71.2	71.3	71.5	71.6	71.7	72.3	72.7	73.1	73.5	73.5
	29	70.3	70.0	70.3	70.4	70.7	71.3	71.6	72.3	72.5	73.0	73.7	73.7
	30	70.2	70.5	71.0	71.7	71.7	72.5	72.8	73.3	73.8	74.5	75.0	75.5
Hourly Means	61.42	61.52	61.78	62.22	62.54	63.02	63.41	63.85	64.24	64.68	65.06	65.31	

<sup>a</sup> Three minutes late.

<sup>b</sup> Four minutes late.

<sup>c</sup> Five minutes late.

VERTICAL FORCE.												
One Scale Division = '000094 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 60·7	Sc. Div. 60·4	Sc. Div. 60·3	Sc. Div. 60·3	Sc. Div. 60·5	Sc. Div. 60·7	Sc. Div. 61·4	Sc. Div. 62·4	Sc. Div. 63·3	Sc. Div. 63·2	Sc. Div. 61·1	Sc. Div. 61·1	Sc. Div. 61·17
62·2	62·6	63·0	63·9	63·9	63·8	64·2	63·5	61·7	53·3	53·9	59·4	61·12
62·2	60·9	60·4	60·6 <sup>a</sup>	53·3	54·3	—	—	—	—	—	—	58·77
—	—	—	—	—	—	60·8	56·7	56·6	59·2	59·6	59·6	58·72
58·1	57·8	57·8	58·8	58·6	56·6	59·6	59·6	59·6	59·2	59·2	60·1	58·72
55·0	54·9	55·9	54·8	56·5	57·0	57·0	56·7	56·9	56·9	57·7	58·9	56·66
57·5	55·9	55·9	52·9	52·1	51·9	48·1	46·5	48·5	48·4	53·1	56·4	53·27
54·8	54·0	53·9	53·8	51·4	51·5	50·5	49·6	49·7	53·6	53·7	53·7	53·64
41·1	41·9	41·5	41·8	41·8	43·7	44·2	44·4	44·7	46·3	45·5	42·9	44·65
53·6	53·4	52·5	45·0	47·1	47·5	—	—	—	—	—	—	—
—	—	—	—	—	—	50·5	47·6	48·9	46·1	48·7	45·3	48·38
46·6	48·1	43·7	45·0	44·0 <sup>b</sup>	42·0	39·5	45·6	46·4	46·7	47·7	47·7	47·20
46·9	46·7	45·4	44·5	44·5	44·8	44·3	43·9	45·5	45·6	46·5	48·2	46·11
43·5	43·6	43·4	43·9	44·2	44·7	41·5	42·0	46·1	47·1	48·7	48·8	45·52
47·0	47·9	47·8	47·4	47·5	47·5	47·5	48·9	49·7	49·9	49·3	50·7	47·44
47·1	47·3	46·6	46·4	46·7	47·2	47·5	48·5	48·5	50·7	50·7	50·9	48·28
44·3	44·0	44·0	44·5	45·1	45·7	—	—	—	—	—	—	—
—	—	—	—	—	—	45·3	46·3	46·8	46·8	47·4	48·6	46·58
42·6	42·6	42·3	42·4	43·3	43·9	43·5	44·6	44·8	45·1	46·3	46·3	43·79
36·5	36·8	36·8	36·7	33·2	34·9	38·4	38·8	38·8	38·8	39·6	40·5	38·65
30·8	30·5	30·6	29·2	29·7	30·7	29·4	28·9	29·9	29·2	32·1	35·3	33·10
28·1	28·7	28·4	28·9	28·1	28·5	28·7	30·9	31·9	32·1	32·1	33·8	30·08
30·0	30·8	30·9	31·0	31·5	32·3	32·2	32·2	32·9	33·5	34·2	35·5	32·26
32·0	31·2	31·2	31·3	31·8	32·2	—	—	—	—	—	—	—
—	—	—	—	—	—	29·1	35·3	35·4	35·7	38·6	39·4	34·28
31·5	30·8	30·8	31·0	31·4	31·4	31·5	31·5	31·3	33·6	34·6	35·4	33·58
26·4	26·9	26·9	27·2	27·4	27·5	27·5	28·2	28·8	29·5	30·3	31·2	28·35
28·8	29·0	29·0	29·0	28·7	29·1	29·5	31·1	28·1	28·8	30·4	32·2	29·82
29·4	27·4	28·4	29·9	31·0	30·8	30·6	30·6	30·9	31·9	33·1	34·3	30·99
31·3	29·4	29·4	30·0	29·0	29·0	24·2	25·7	28·1	28·9	30·0	29·9	29·48
43·38	43·20	42·92	42·70	42·40	42·66	42·56	43·08	43·61	43·85	44·82	45·62	43·91

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
53·1	53·2	53·1	52·8	52·6	52·2	52·0	51·8	51·0	50·6	50·4	49·7	51·51
52·5	52·2	52·2	52·0	51·6	51·8	52·0	51·9	52·2	52·1	52·2	52·0	51·50
56·0	56·0	56·2	56·2 <sup>a</sup>	56·2	56·2	—	—	—	—	—	—	—
—	—	—	—	—	—	53·8	53·9	54·0	54·2	54·2	54·0	54·61
55·6	55·6	55·5	55·4	55·2	54·8	55·0	54·9	54·8	54·8	54·8	54·2	54·75
57·7	57·4	57·4	57·2	56·9	56·7	56·2	56·2	55·8	55·3	55·1	54·6	56·21
59·7	59·3	59·2	59·2	59·2	59·0	58·8	58·9	58·6	58·2	58·0	57·4	58·27
58·4	58·4	58·5	58·7	58·7	58·6	59·1	58·7	58·7	58·7	58·7	58·7	58·22
66·7	66·8	66·6	66·3	66·1	65·7	64·4	64·0	63·5	62·7	62·3	61·4	63·68
60·4	60·2	60·1	60·0	60·0	59·4	—	—	—	—	—	—	—
—	—	—	—	—	—	59·1	59·0	58·8	58·3	58·1	57·8	59·90
64·5	64·3	63·9	63·6	63·2 <sup>b</sup>	62·6	62·3	61·7	61·0	60·6	60·9	61·0	61·79
63·5	63·5	63·5	63·5	63·3	63·0	62·7	62·3	61·9	61·7	61·5	61·0	62·43
65·0	65·0	64·8	64·4	63·9	63·6	62·8	62·7	62·0	61·0	60·3	59·5	62·95
62·1	62·1	62·1	61·5	61·5	61·3	60·9	60·3	59·9	59·7	59·7	59·2	61·06
62·4	62·5	62·5	62·3	62·1	61·5	60·8	60·3	60·2	59·8	58·9	59·0	60·58
63·5	63·5	63·5	63·5	63·0	62·7	—	—	—	—	—	—	—
—	—	—	—	—	—	62·5	62·0	61·4	60·8	60·3	60·2	61·87
65·5	65·5	65·4	65·1	65·0	64·6	64·0	63·6	63·2	63·0	62·3	62·0	63·75
69·5	69·3	69·0	68·7	68·4	68·2	67·7	67·2	66·7	66·5	66·0	66·0	66·79
73·2	73·2	73·3	73·5	73·0	72·7	73·2	73·2	72·5	72·9	72·7	70·0	71·00
75·1	74·6	74·5	74·4	73·8	73·4	73·0	72·7	72·1	71·5	71·3	70·5	72·90
72·7	72·5	72·5	72·4	72·2	71·8	71·5	71·0	70·5	70·2	69·8	69·5	71·20
72·0	72·3	72·1	71·6	71·5	71·0	—	—	—	—	—	—	—
—	—	—	—	—	—	68·9	68·4	67·6	67·4	66·5	65·8	69·72
72·3	72·5	72·3	72·7	72·1	71·9	71·4	70·5	70·3	69·7	69·3	69·0	69·90
75·3	75·0	74·7	74·5	74·0	74·0	73·7	73·5	73·5	72·8	72·5	71·5	73·29
73·5	73·2	73·2	73·0	73·0	72·5	72·0	71·7	71·5	71·2	70·8	70·5	72·13
73·7	73·7	73·5	73·5	73·3	72·9	72·5	72·2	71·8	71·0	70·5	70·5	72·04
75·5	75·5	74·7	75·2	74·8	74·4	74·0	74·3	74·2	74·0	73·5	73·3	73·58
65·36	65·28	65·17	65·05	64·79	64·48	64·01	63·73	63·37	63·03	62·72	62·24	63·68

VERTICAL FORCE.													
One Scale Division = .000094 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
JULY.	1	30.3	29.6	29.0	27.9	25.5	25.1	24.4	23.4	23.8	23.9	22.9	22.3
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	35.5	35.7	34.0	32.6	34.1	37.1	39.5	39.5	38.6	40.7	41.1	43.4
	4	41.3	42.0	42.0	41.1	39.2	39.0	39.4	39.2	40.6	41.6	40.8	39.9
	5	40.5	39.8	39.8	39.4	38.5	37.6	38.3	38.4	38.1	37.6	37.4	37.4
	6	40.5	40.8	40.3	39.2	38.3	37.4	38.0	38.6	39.0	38.6	37.7	36.7
	7	40.9	40.9	40.9	39.9	38.1	36.5	36.0	35.2	35.6	37.2	38.6	37.7
	8	37.3	36.5	33.5	32.3	32.2	33.9	33.7	34.2	34.2	32.6	33.2	32.3
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	33.1	33.2	32.2	33.6	33.8	33.6	33.1	33.8	34.6	36.0	35.9	35.6
	11	38.4	38.4	38.3	38.5	36.7	37.5	37.5	37.3	37.7	39.2	40.0	41.6
	12	44.5	43.4	42.7	42.7	41.1	38.4	38.4	37.7	38.5	38.0	37.5	36.8
	13	41.2	39.8	39.8	39.6	38.1	36.9	36.2	35.1	35.8	36.5	36.4	36.2
	14	35.6	35.6	37.8	36.6	35.2	32.6	32.3	32.8	33.7	33.3	33.0	32.8
	15	33.9	34.3	34.3	34.3	33.9	33.1	33.1	33.5	33.4	33.4	33.3	33.5
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	33.1	33.4	33.3	33.2	33.3	32.4	32.0	32.0	31.9	30.4	30.6	31.0
	18	30.4	30.2	29.2	28.2	27.7	27.5	26.6	24.7	23.4	24.0	24.4	23.5
	19	30.1	30.7	30.8	30.0	30.1	30.8	30.7	30.3	29.9	29.7	30.3	30.4
	20	34.1	33.5	33.2	32.7	31.7	31.5	32.0	32.5	33.2	33.6	33.1	32.5
	21	35.5	34.8	34.6	34.4	33.6	33.6	33.4	33.9	33.2	33.1	33.6	33.3
	22	35.0	34.5	33.4	33.2	31.9	31.6	31.1	31.1	30.6	30.2	30.4	30.4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	30.5	31.5	30.9	29.9	27.9	27.9	26.4	27.7	28.0	31.5	34.8	36.2
	25	1.5	-1.3	9.2	12.9	23.7	27.1	35.6	38.1	49.0	53.9	48.1	49.5
	26	31.5	30.5	29.5	29.6	28.6	27.1	25.9	26.1	25.1	24.0	24.8	26.0
	27	30.6	29.7	28.3	27.6	26.3	26.5	27.1	27.8	28.2	29.2	29.4	29.7
	28	31.4	31.4	30.5	29.2	28.7	27.1	26.2	24.9	24.7	24.7	26.9	28.7
	29	27.8	27.8	28.7	28.7	29.4	29.0	29.2	30.0	31.8	32.0	30.7	32.0
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	33.4	35.8	34.5	33.5	32.2	31.8	32.0	31.6	31.6	31.7	33.1	33.8
Hourly Means	33.77	33.56	33.49	33.11	32.68	32.41	32.62	32.67	33.24	33.72	33.77	34.05	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
JULY.	1	73.4	73.5	74.0	74.8	75.5	76.1	76.6	77.5	78.3	78.8	79.3	79.5
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	68.3	68.5	69.0	69.3	67.3	67.8	68.3	68.3	68.5	68.5	68.5	69.0
	4	65.7	65.5	65.5	66.2	67.0	67.3	67.5	67.7	68.3	68.5	68.6	68.5
	5	66.5	66.6	67.0	67.6	68.0	68.5	68.5	68.5	68.5	68.6	69.2	69.5
	6	65.5	65.8	66.5	67.0	67.5	68.0	68.4	68.7	69.0	69.3	69.8	70.3
	7	66.0	66.0	65.7	66.2	66.3	67.0	67.5	67.8	68.3	69.0	69.7	70.3
	8	67.8	67.7	68.5	68.9	69.7	70.3	70.7	71.2	71.5	73.8	73.3	74.5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	69.5	69.7	69.7	69.7	69.8	70.2	70.9	71.4	71.9	72.0	72.3	72.3
	11	66.0	66.2	66.3	66.6	67.0	67.0	66.5	67.0	67.3	67.0	67.3	67.8
	12	63.5	63.5	64.5	65.3	65.6	66.5	66.9	67.5	67.8	68.2	68.7	69.3
	13	63.5	64.5	65.0	65.7	66.5	67.3	68.0	68.1	68.5	69.1	69.5	69.7
	14	66.3	66.5	67.0	67.8	68.5	69.3	70.2	71.0	71.5	72.2	72.8	73.2
	15	69.5	69.3	69.0	69.0	68.8	69.1	69.5	70.0	70.5	70.7	70.9	71.2
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	69.8	69.5	69.3	69.2	69.0	69.3	69.6	70.4	71.1	72.0	72.5	72.5
	18	71.0	71.7	72.4	72.8	73.0	73.5	74.0	74.5	75.3	75.8	76.2	76.5
	19	71.3	70.8	70.5	70.8	70.7	71.0	70.7	70.7	71.1	71.2	71.2	71.4
	20	66.9	66.8	67.2	67.4	67.6	68.0	68.2	68.3	68.3	68.5	68.8	69.0
	21	65.0	65.5	66.0	66.5	66.6	66.8	67.3	67.7	68.3	68.5	69.0	69.4
	22	66.5	66.8	67.4	68.0	68.5	69.0	69.6	70.5	71.4	72.2	72.5	72.7
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	71.2	71.0	71.0	71.0	71.5	72.0	72.3	72.5	73.0	73.5	74.3	74.7
	25	68.7	69.2	69.7	70.8	71.9	71.9	71.7	71.7	72.1	72.5	72.9	73.2
	26	69.5	69.7	70.3	71.0	71.5	72.0	73.0	73.5	74.1	75.0	75.0	75.0
	27	71.0	71.5	72.0	73.0	73.0	73.4	73.5	73.5	73.5	73.5	73.5	73.6
	28	69.6	69.6	70.3	71.0	71.6	72.3	73.3	74.5	75.0	75.3	75.0	74.8
	29	72.4	72.4	72.0	71.7	71.5	71.5	71.5	71.5	71.5	71.5	71.7	71.8
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	66.5	66.5	66.7	67.5	67.7	68.2	68.4	68.6	68.7	68.7	68.8	69.0
Hourly Means	68.11	68.24	68.56	69.03	69.29	69.74	70.10	70.48	70.90	71.30	71.59	71.88	

VERTICAL FORCE.												
One Scale Division = '000094 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 23·2	Sc. Div. 25·1	Sc. Div. 24·7	Sc. Div. 21·6	Sc. Div. 20·0	Sc. Div. 23·4	—	—	—	—	—	—	Sc. Div. 26·79
—	—	—	—	—	—	29·1	31·9	32·9	32·8	35·1	35·1	37·30
42·0	40·3	39·1	34·9	35·1	34·0	33·7	36·4	34·0	35·9	37·5	40·4	38·93
40·2	40·0	39·1	37·9	37·2	33·4	33·9	35·5	36·4	37·1	38·0	39·4	38·18
36·7	37·0	36·1	36·5	36·9	37·9	38·1	38·2	38·1	38·5	38·5	41·1	37·41
36·4	35·9	35·0	34·4	34·6	35·5	35·9	36·0	35·8	36·4	37·3	39·5	36·39
36·9	39·3	43·6	38·8	37·4	35·6	27·2	24·8	29·6	33·5	32·9	36·3	—
31·2	31·5	31·1	30·7	30·9	29·5	—	—	—	—	—	—	31·13
—	—	—	—	—	—	31·7	25·0	23·2	25·7	22·9	27·8	—
35·0	36·6	37·1	36·0	35·6	35·3	33·7	34·9	35·7	35·9	38·5	38·5	35·05
41·2	40·2	39·0	38·7	38·8	39·6	40·4	40·8	41·6	42·7	43·3	44·6	39·67
36·8	35·9	35·9	36·3	36·3	37·5	38·1	38·5	39·4	40·4	41·3	41·3	39·06
36·1	35·8	35·0	35·0	34·6	36·3	36·7	36·9	37·2	37·9	36·9	36·9	36·95
32·5	31·2	30·9	31·7	30·4	30·4	31·2	31·2	30·7	31·8	31·9	33·9	32·88
35·7	33·3	31·3	32·7	32·7	32·7	—	—	—	—	—	—	—
—	—	—	—	—	—	32·0	31·3	32·4	31·5	30·5	31·9	33·08
31·3	31·3	31·0	30·1	31·1	30·7	31·6	31·6	31·6	31·6	32·1	32·1	31·78
23·7	23·8	23·7	24·6	24·6	23·9	23·8	25·8	26·2	27·0	27·6	29·5	26·00
30·4	30·6	29·5	28·7	28·9	28·8	30·0	30·5	31·3	31·7	31·9	33·8	30·41
32·4	32·4	32·3	32·8	33·2	32·6	33·0	33·3	33·3	35·1	35·6	36·7	33·18
32·9	32·9	32·8	32·8	32·5	32·6	33·1	33·8	33·5	32·3	34·0	35·0	33·55
29·9	29·5	29·4	29·5	29·6	29·8	—	—	—	—	—	—	—
—	—	—	—	—	—	28·1	28·1	27·7	28·8	28·9	28·9	30·48
32·3	26·1	26·1	26·0	27·6	28·6	29·2	30·1	27·4	17·9	17·5	6·1	27·42
35·4	42·6	42·6	27·9	14·7	27·9	29·1	26·7	25·0	27·9	29·1	31·5	29·49
27·1	27·5	28·8	28·8	27·9	23·9	26·8	22·0	22·7	22·7	30·1	30·6	26·98
30·6	29·8	30·8	25·4	27·7	30·6	29·6	29·3	29·9	30·7	31·3	31·4	29·06
28·3	26·6	25·7	17·8	22·3	24·2	24·8	25·4	26·0	26·2	26·9	27·4	26·50
31·8	31·0	31·1	32·1	32·1	30·2	—	—	—	—	—	—	—
—	—	—	—	—	—	27·0	28·5	31·0	33·0	33·8	33·9	30·52
33·1	33·1	32·1	34·9	36·4	35·3	36·0	35·7	35·5	33·6	36·3	38·5	33·98
33·20	33·05	32·84	31·41	31·12	31·55	31·68	31·62	31·85	32·25	33·07	33·93	32·78

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
79·3	79·0	78·5	78·7	78·8	78·9	—	—	—	—	—	—	—
—	—	—	—	—	—	70·1	70·1	69·5	69·3	69·0	68·5	75·29
69·5	69·7	69·5	68·5	69·1	68·9	69·1	68·5	68·3	68·2	68·2	66·0	68·53
68·4	68·1	68·7	68·9	68·9	69·1	69·0	68·7	68·7	68·5	68·3	67·5	67·88
69·7	69·8	69·7	69·3	68·7	68·7	68·3	68·0	67·3	67·0	65·5	65·6	68·11
70·3	70·3	70·3	69·9	69·7	69·5	69·6	69·5	69·0	68·8	68·5	67·4	68·69
70·5	70·5	70·5	70·5	70·5	70·3	70·0	69·7	68·8	68·5	67·9	67·0	68·52
74·5	73·5	73·5	73·5	72·5	72·1	—	—	—	—	—	—	—
—	—	—	—	—	—	71·3	72·0	72·3	72·2	71·7	70·5	71·56
72·2	71·5	71·3	70·9	70·3	69·5	69·3	68·1	67·2	66·6	66·4	66·4	69·96
68·0	67·8	68·0	67·7	67·3	66·7	66·1	65·6	64·8	64·1	63·5	63·0	66·44
69·3	69·3	69·1	68·5	68·2	67·6	67·0	66·3	65·5	65·0	64·5	64·0	66·73
70·0	69·7	69·5	69·3	68·8	68·5	68·3	68·2	67·7	67·3	66·8	66·0	67·73
73·2	73·0	73·0	72·7	72·5	72·0	71·7	71·3	71·2	70·6	70·1	70·0	70·73
71·5	71·7	71·5	71·5	71·2	71·0	—	—	—	—	—	—	—
—	—	—	—	—	—	71·3	71·3	71·0	70·7	70·5	70·1	70·45
72·2	72·0	72·0	71·7	71·5	71·5	71·3	71·0	70·7	70·5	70·5	70·7	70·82
76·6	76·5	76·3	76·0	75·7	75·0	74·8	74·3	73·8	73·0	72·5	72·0	74·30
71·3	71·0	71·0	71·5	70·9	70·7	70·1	69·3	68·7	68·2	67·9	66·5	70·35
69·3	69·3	69·5	69·1	68·7	68·5	67·5	67·0	66·3	65·6	65·0	64·5	67·72
69·7	69·6	69·4	69·2	68·8	68·5	68·0	67·5	67·0	66·7	66·5	66·0	67·65
72·6	72·5	72·2	72·0	71·7	71·5	—	—	—	—	—	—	—
—	—	—	—	—	—	72·8	72·7	72·5	71·9	71·6	71·7	70·87
74·7	74·7	74·4	73·5	73·0	72·4	71·7	71·2	70·8	70·0	69·5	68·7	72·19
73·2	73·2	73·2	74·8	73·3	73·0	73·0	72·5	71·3	70·6	70·3	69·5	71·76
75·0	74·8	74·3	73·8	74·0	73·8	73·5	73·0	72·6	72·3	71·7	71·0	72·89
73·6	73·5	73·1	72·5	72·5	71·7	71·5	71·0	70·8	70·4	70·0	69·6	72·30
74·9	75·0	75·2	75·0	5·0	74·5	74·3	74·0	74·0	73·7	73·2	72·5	73·48
72·0	72·0	71·7	71·4	70·5	69·8	—	—	—	—	—	—	—
—	—	—	—	—	—	68·0	67·5	67·0	66·5	66·0	66·5	70·41
69·5	69·5	69·2	68·0	67·5	67·0	66·0	66·3	66·2	66·4	65·8	65·0	67·57
71·96	71·83	71·72	71·40	71·14	70·80	70·14	69·79	69·35	68·94	68·52	67·93	70·11

VERTICAL FORCE.													
One Scale Division = '000094 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
AUGUST.	1	38.5	37.0	36.4	35.3	34.7	34.7	34.9	34.6	34.4	34.2	33.3	
	2	38.0	37.3	35.7	34.4	34.2	34.2	34.2	34.3	33.8	33.8	33.1	32.0
	3	36.9	35.9	34.5	32.7	31.3	30.2	31.8	29.7	30.1	29.3	29.7	31.6
	4	25.3	23.2	28.5	28.9	28.9	28.7	29.3	29.3	29.6	29.6 <sup>a</sup>	31.7	32.0
	5	31.9	32.3	32.2	31.9	31.0	29.6	30.3	29.8	29.6	30.0	29.2	29.2
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	29.4	28.5	28.1	26.3	24.1	23.1	23.1	23.1	23.7	23.7	23.9	23.8
	8	24.1	23.2	25.5	24.9	26.1	27.5	27.5	27.8	29.0	29.1	28.4	27.2
	9	30.9	30.9	28.9	30.4	30.4	30.2	30.2	29.8	29.8	29.1	28.9	29.5
	10	30.6	30.6	29.9	27.5	27.1	26.9	24.5	25.6	26.0	27.0	26.8	25.9
	11	29.7	28.7	28.2	26.4	28.1	27.3	27.3	28.2	28.2	27.3	28.8	26.7
	12	28.1	27.9	26.6	26.6	25.5	23.7	22.9	22.6	23.7	24.2	24.2	23.3
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	26.9	26.9	25.6	25.6	25.6	26.5	26.5	25.8	26.4	25.8	25.7	25.3
	15	27.8	27.8	26.5	24.4	23.9	23.9	24.4	24.7	25.3	26.5	25.8	26.6
	16	31.7	30.4	29.1	27.0	26.3	26.3	25.4	24.7	24.2	23.2	21.7	21.6
	17	26.1	26.2	26.3	25.3	23.6	22.9	23.2	23.7	24.7	24.1	24.6	24.0
	18	27.3	27.3	27.3	26.8	26.1	26.4	27.1	27.8	27.8	27.2	27.0	26.7
	19	31.4	31.4	31.2	31.2	29.4	28.4	28.4	28.0	28.6	29.1	29.4	29.5
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	33.3	32.2	31.4	30.9	29.6	30.2	30.9	30.7	30.5	30.1	30.1	30.0
	22	30.6	28.7	29.3	29.5	30.2	27.4	28.1	30.0	31.2	31.2	36.5	30.0
	23	32.5	32.5	30.9	30.5	29.8	29.8	29.8	28.7	28.7	28.9	29.9	31.4
	24	32.1	31.3	32.4	31.4	29.4	29.4	28.7	27.9	27.6	27.8	27.5	27.4
	25	32.9	32.2	31.3	30.5	29.4	27.6	27.2	26.9	26.9	26.5	26.1	26.3
	26	28.0	28.4	27.9	26.4	26.5	26.1	24.5	23.4	23.6	23.2	23.2	21.4
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	26.2	26.2	26.6	25.8	25.8	24.7	22.6	23.3	23.7	23.5	23.5	22.8
	29	27.0	26.2	25.2	24.2	22.9	19.1	18.2	20.9	21.4	21.5	21.0	20.3
	30	26.5	25.9	24.7	22.9	21.9	20.7	20.7	20.2	19.8	18.5	18.3	17.1
	31	19.6	20.5	20.5	19.1	17.4	17.4	17.4	17.4	18.0	18.0	18.0	14.9
Hourly Means	29.75	29.24	28.91	28.03	27.38	26.77	26.63	26.63	26.87	26.76	26.93	26.29	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
AUGUST.	1	65.5	65.7	66.3	67.0	67.5	67.5	67.5	67.4	67.6	67.6	68.1	68.5
	2	65.0	65.6	66.0	66.5	66.8	67.2	67.1	67.5	68.0	68.5	68.9	69.2
	3	65.3	65.8	66.5	67.3	67.5	68.5	69.3	69.7	70.4	71.2	71.7	72.0
	4	67.0	67.5	68.0	68.7	69.6	70.5	71.3	72.0	72.2	72.7 <sup>a</sup>	72.9	73.2
	5	69.0	69.0	69.0	69.4	70.0	70.9	71.7	72.5	73.2	73.5	74.0	74.6
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	71.0	71.4	72.0	72.5	73.0	73.5	74.5	74.4	74.5	74.7	74.9	75.0
	8	71.8	71.3	71.0	71.5	71.5	72.0	72.5	72.8	73.0	73.3	73.5	73.7
	9	69.7	69.5	69.8	70.0	70.5	70.6	71.0	71.3	71.7	72.1	72.1	72.1
	10	69.0	69.5	69.5	70.5	71.0	72.0	72.5	73.2	73.5	73.6	74.0	74.0
	11	69.5	69.5	70.0	70.6	71.0	71.7	72.3	72.5	72.8	73.3	73.6	74.0
	12	70.0	70.0	70.7	71.0	71.6	72.5	73.5	73.9	74.3	74.7	75.0	75.4
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	71.5	71.5	71.5	71.5	71.5	71.5	71.8	72.5	73.0	73.8	74.3	74.6
	15	70.5	70.8	71.3	71.5	72.0	72.4	72.5	72.7	72.7	73.1	73.2	73.2
	16	67.8	68.5	69.0	70.0	70.5	71.5	72.4	73.0	73.5	74.3	75.0	75.3
	17	71.6	71.5	71.5	72.0	72.2	72.5	73.0	73.0	73.5	73.8	74.3	74.1
	18	70.7	70.6	70.5	70.5	70.5	70.7	70.8	71.2	71.5	71.7	71.7	71.7
	19	67.0	67.0	67.0	67.4	67.7	68.5	68.8	69.3	69.5	69.5	69.6	69.6
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	65.5	66.0	66.5	67.0	67.5	68.0	68.3	68.5	68.7	69.0	69.2	69.5
	22	64.2	64.5	65.3	66.0	66.8	67.3	68.4	68.5	68.6	69.2	69.3	69.5
	23	67.0	66.4	67.4	68.3	68.7	69.4	69.5	70.0	70.3	70.7	70.9	71.3
	24	66.5	66.5	67.0	67.7	68.4	68.7	69.1	69.5	70.0	70.4	70.7	71.0
	25	66.0	66.0	66.5	67.0	67.7	68.5	69.2	70.0	70.5	71.1	71.9	72.3
	26	69.5	69.5	69.5	69.9	70.3	70.8	72.1	73.3	74.1	74.9	75.3	75.5
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	71.5	71.3	71.2	71.6	71.3	71.5	72.2	72.6	73.1	73.5	74.0	74.3
	29	70.5	70.5	71.0	71.6	72.5	73.4	73.7	74.2	74.5	75.0	75.0	75.3
	30	70.0	70.0	70.5	71.5	72.3	73.0	73.6	74.3	75.3	76.0	76.5	77.0
	31	73.5	73.5	73.7	74.6	75.3	76.2	76.8	77.0	77.3	77.6	78.2	78.5
Hourly Means	68.74	68.85	69.19	69.74	70.19	70.77	71.31	71.73	72.12	72.55	72.88	73.13	

<sup>a</sup> Five minutes late.

VERTICAL FORCE.												
One Scale Division = '000094 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
32.2	32.4	31.4	31.9	31.7	32.0	31.8	31.8	32.0	35.8	35.8	37.8	34.12
31.4	31.4	30.6	31.5	32.0	32.0	32.0	32.3	34.1	35.6	36.2	37.7	33.83
29.7	29.7	30.3	29.2	22.3	24.8	25.6	25.8	24.3	27.6	17.7	17.7	28.68
34.4	31.1	29.4	29.3	29.0	29.3	29.3	29.0	25.7	24.8	24.9	30.9	28.84
26.0	26.0	25.9	26.7	26.7	23.2	—	—	—	—	—	—	28.37
—	—	—	—	—	—	26.9	27.1	25.8	25.8	25.8	27.9	—
24.0	24.4	25.1	26.4	25.0	17.0	21.0	25.1	25.1	25.4	23.6	24.5	24.48
27.6	29.1	26.4	21.6	23.3	17.1	16.7	14.7	18.1	22.6	28.3	28.9	24.78
28.6	28.6	28.4	28.0	28.2	28.3	29.2	29.4	28.3	29.0	29.8	31.8 <sup>b</sup>	29.41
26.4	24.8	24.9	25.1	26.0	25.9	26.5	26.5	26.6	27.1	24.1	28.9	26.72
25.3	24.7	24.4	24.1	24.1	24.4	26.2	26.2	23.7	24.4	23.8	28.2	26.43
23.4	23.4	19.8	22.1	23.7	23.6	—	—	—	—	—	—	—
—	—	—	—	—	—	21.1	21.1	21.1	25.3	25.7	26.9	24.02
23.6	23.1	22.8	22.8	23.3	23.3	23.3	24.2	24.4	21.5	24.4	27.6	24.87
25.9	25.9	25.6	24.6	25.7	26.6	27.0	26.6	28.0	27.3	28.1	30.0	26.20
21.4	20.7	21.5	22.6	22.2	23.3	23.1	22.3	23.1	23.2	24.5	25.2	24.36
23.1	22.3	22.7	22.9	22.9	23.3	24.2	24.7	25.0	25.3	26.0	26.7	24.32
26.5	26.5	26.5	27.0	27.5	28.5	29.4	29.2	29.9	29.7	29.7	31.4	27.77
29.2	29.3	29.2	29.0	29.3	30.0	—	—	—	—	—	—	—
—	—	—	—	—	—	30.8	31.1	31.7	31.9	32.4	33.3	30.13
28.6	28.6	28.6	28.0	28.0	28.3	30.2	30.7	29.9	28.8	28.3	30.8	29.95
32.1	38.8	36.2	27.7	29.1	19.0	18.9	18.3	18.1	23.7	30.4	32.5	28.90
29.3	29.0	26.1	28.2	22.5	25.0	27.5	28.2	27.9	29.3	29.8	32.1	29.10
27.7	27.3	27.6	28.0	28.1	26.4	27.0	29.5	29.7	29.5	27.7	30.3	28.82
25.5	23.5	22.7	21.5	22.3	23.8	24.2	20.4	20.5	21.9	23.3	26.2	25.82
22.2	20.8	21.2	22.0	23.0	22.9	—	—	—	—	—	—	—
—	—	—	—	—	—	22.7	23.1	23.1	24.1	24.1	24.9	24.03
21.3	21.4	21.7	20.5	20.5	21.4	22.4	23.2	23.2	24.3	24.5	25.1	23.51
20.4	20.2	20.1	20.1	21.0	21.0	22.3	22.4	22.5	23.6 <sup>c</sup>	23.8	24.2	22.06
17.2	16.2	16.7	17.3	18.0	18.3	17.1	18.8	18.6	18.6	19.0	19.4	19.68
14.4	14.8	14.9	14.6	14.6	16.0	17.0	14.7	14.7	15.1	17.8	18.2	16.88
25.83	25.70	25.21	24.91	24.81	24.25	24.94	25.05	25.00	25.97	26.28	28.12	26.51

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
69.0	69.0	69.0	68.8	68.7	67.8	67.4	67.0	66.0	65.5	65.0	64.3	67.24
69.4	69.4	69.5	69.0	68.5	67.8	67.0	66.5	66.4	66.3	65.8	65.5	67.39
72.0	72.0	72.0	71.7	71.8	71.0	70.2	69.5	69.2	68.5	68.2	67.4	69.53
73.3	73.3	72.8	72.3	71.7	71.3	70.7	70.5	70.3	70.0	69.7	69.4	70.87
73.9	74.0	73.5	73.2	73.0	72.5	—	—	—	—	—	—	—
—	—	—	—	—	—	72.7	72.3	71.9	71.6	71.3	71.0	71.99
74.6	74.4	74.2	74.2	74.0	73.9	73.5	73.1	72.9	72.2	72.1	72.0	73.44
73.8	73.9	73.9	75.0	74.5	74.1	73.2	72.8	72.3	71.5	70.8	70.3	72.67
72.2	72.2	72.0	72.0	71.5	71.2	70.8	70.5	70.1	69.9	69.7	69.2 <sup>b</sup>	70.90
74.0	73.6	73.5	73.3	73.1	72.7	72.3	72.0	71.5	70.8	70.3	69.5	72.04
74.2	74.3	74.4	74.1	73.8	73.5	72.6	72.4	72.0	71.4	71.0	70.6	72.30
75.5	75.5	75.5	75.0	74.5	74.2	—	—	—	—	—	—	—
—	—	—	—	—	—	73.2	73.0	72.7	72.5	72.1	71.8	73.25
74.8	75.1	75.2	74.9	74.2	74.0	73.7	73.0	72.5	72.0	71.5	70.5	72.93
73.2	73.0	73.0	72.5	72.0	71.7	71.2	71.1	70.3	70.7	69.7	69.0	71.80
75.4	75.8	75.5	75.1	74.9	74.5	73.9	73.5	73.2	72.8	72.5	72.3	72.92
74.1	74.2	73.9	73.7	73.5	73.1	73.0	72.6	72.4	72.0	71.6	71.4	72.85
71.7	71.5	71.5	71.2	70.8	70.0	69.4	69.1	68.7	68.5	68.2	67.5	70.42
69.6	69.6	69.3	69.3	68.7	68.4	—	—	—	—	—	—	—
—	—	—	—	—	—	68.0	67.8	67.3	66.9	66.5	65.5	68.24
69.6	69.5	69.3	69.0	68.8	68.5	67.7	67.3	66.7	66.4	65.8	64.8	67.80
69.6	71.0	71.0	71.0	70.3	70.2	70.3	70.2	70.0	69.0	68.0	67.5	68.57
71.4	71.5	71.4	71.2	70.7	70.4	69.7	68.5	68.1	67.9	67.5	66.5	69.36
71.0	71.1	70.6	70.1	69.7	69.3	68.8	68.7	68.1	67.9	67.7	66.5	68.96
72.3	73.3	73.7	73.9	72.7	72.8	72.5	72.0	71.3	71.5	71.5	70.7	70.62
75.5	75.7	75.5	75.2	74.2	74.0	—	—	—	—	—	—	—
—	—	—	—	—	—	72.8	72.7	72.7	72.5	72.2	72.0	72.90
74.4	74.5	74.3	74.0	73.3	73.3	72.9	72.5	72.1	71.9	71.5	71.0	72.66
75.1	75.1	74.7	74.1	73.7	73.3	73.0	72.6	72.0	72.0 <sup>c</sup>	71.5	71.0	73.14
77.0	77.5	77.0	76.7	76.4	76.0	75.7	75.5	75.3	74.8	74.6	74.2	74.61
78.5	78.5	78.4	77.3	77.2	77.0	77.0	77.0	76.5	76.0	75.5	75.5	76.52
73.15	73.28	73.13	72.88	72.45	72.09	71.60	71.25	70.83	70.48	70.07	69.51	71.33

<sup>b</sup> Eight minutes late.

<sup>c</sup> Two minutes late.

VERTICAL FORCE.													
One Scale Division = .000094 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.	1	19.9	19.9	19.9	17.9	18.1	19.3	19.3	19.6	21.9	20.1	20.2	19.3
	2	11.9	19.1	19.2	18.9	20.2	20.2	18.8	19.4	18.2	18.9	21.0	21.9
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	16.9	17.7	17.1	15.7	14.1	15.8	15.6	14.9	14.9	15.6	17.1	17.7
	5	19.7	19.9	20.9	20.9	20.9	21.5	20.7	20.6	21.4	22.4	23.9	23.9
	6	24.8	25.1	26.3	25.1	25.1	25.1	24.2	24.1	24.1	24.1	24.0	24.1
	7	23.9	24.4	24.4	23.9	23.2	23.2	23.2	23.2	23.2	23.2	22.9	22.4
	8	24.5	24.1	24.4	24.3	23.4	24.2	24.7	24.7	25.0	25.0	24.3	24.3
	9	30.2	28.3	27.0	27.0	27.9	27.6	28.8	28.4	30.7	31.4	33.5	31.5
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	41.9	38.5	38.1	37.6	36.7	36.6	36.6	36.8	37.1	37.7	38.1	38.8
	12	41.9	42.1	40.8	39.8	39.1	39.1	39.1	38.5	38.8	38.4	40.0	38.6
	13	41.6	36.9	40.4	39.4	39.6 <sup>a</sup>	39.6	39.5	39.5	39.3	40.3	39.7	40.0
	14	38.9	38.9	38.9	38.7	37.3 <sup>b</sup>	36.7 <sup>b</sup>	38.4	39.1	39.8	39.8	39.5	39.7
	15	37.1	37.1	36.7	35.4	34.8	33.6	33.6	33.6	34.0	34.0	33.5	32.8
	16	34.2	33.9	32.5	31.8	31.8	30.8	30.9	30.9	30.9	30.8	29.5	30.2
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	25.5	24.9	24.2	24.2	24.2	23.9	21.9	22.8	22.8	22.7	23.1	25.6
	19	23.4	24.9	28.2	28.2	26.6	25.2	25.2	26.7	28.5	27.4	33.8	30.6
	20	22.9	31.1	29.1	28.7	28.7	28.9	29.3	29.3	29.0	29.0	29.6	29.1
	21	27.0	27.5	26.3	25.0	22.6	21.5	19.8	19.2	18.5	18.6	18.4	17.3
	22	26.2	26.2	26.6	25.6	25.6	26.6	26.6	27.4	28.4	30.3	30.3	33.1
	23	31.9	31.9	32.4	31.1	31.1	31.1	31.1	30.0	29.5	28.7	27.9	27.0
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	26.9	28.0	28.5	28.1	29.5	29.5	31.5	31.9	32.4	31.8	31.4	31.1
	26	36.1	36.1	37.9	34.2	34.8	35.5	35.9	35.9	37.2	37.6	37.9	38.2
	27	43.2	44.2	44.1	41.8	40.6	40.9	41.2	42.5	42.2	42.6	42.9	42.0
	28	38.1	42.9	44.2	44.6	43.9	42.3	41.6	41.6	42.0	42.0	41.5	41.9
	29	43.7	43.7	43.7	43.8	42.1	40.7	40.7	41.5	41.4	40.4	40.0	39.5
	30	41.0	40.3	39.2	39.2	38.1	36.8	36.5	35.4	35.4	35.8	35.9	36.6
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	30.51	31.06	31.19	30.42	30.00	29.85	29.80	29.90	30.25	30.33	30.77	30.66	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
SEPTEMBER.	1	74.5	74.5	74.5	74.5	74.5	74.8	75.4	76.0	76.2	76.5	77.0	77.1
	2	74.5	74.5	74.5	74.4	74.0	74.5	75.5	76.3	77.3	78.0	78.0	78.0
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	77.0	76.4	76.4	76.4	76.5	76.5	77.0	77.5	78.0	78.4	78.7	78.7
	5	73.5	73.0	71.7	71.7	72.0	72.4	72.5	72.8	73.5	73.3	73.3	73.3
	6	70.0	69.3	69.0	69.5	69.5	70.0	70.4	70.5	70.7	71.0	71.4	71.2
	7	70.5	70.0	69.5	70.0	70.0	70.4	70.7	71.2	71.5	71.8	72.0	71.9
	8	69.2	69.0	68.8	69.0	69.5	69.6	70.3	70.7	71.0	71.4	71.9	72.0
	9	65.5	65.5	65.7	66.3	66.2	66.1	65.8	65.8	65.6	66.0	66.5	66.5
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	58.2	58.2	59.2	59.4	60.0	60.2	60.5	60.8	61.1	61.3	61.4	61.5
	12	57.0	57.4	58.0	58.7	59.2	59.8	60.2	60.4	60.5	60.8	61.0	61.3
	13	57.7	58.0	58.1	58.2	58.7 <sup>a</sup>	59.2	59.2	59.7	60.0	60.2	59.6	59.6
	14	59.7	59.5	59.5	59.5	59.5 <sup>b</sup>	59.3 <sup>b</sup>	59.5	59.5	59.5	59.8	60.0	60.0
	15	60.7	60.7	60.7	61.0	61.3	61.5	61.7	62.3	62.6	63.1	64.0	64.5
	16	62.7	63.0	63.7	64.0	64.4	64.7	65.2	65.7	65.7	66.3	66.5	66.8
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	68.3	68.0	68.6	68.8	69.3	69.8	70.3	70.5	71.1	71.3	71.5	71.5
	19	66.0	65.0	65.5	65.7	66.2	66.7	67.3	67.5	67.7	68.0	67.7	67.7
	20	65.0	65.0	65.5	66.2	66.3	66.3	66.3	66.4	66.7	67.0	67.3	67.5
	21	66.6	66.9	67.5	68.5	70.3	71.1	72.0	72.7	74.1	74.7	75.5	75.2
	22	66.5	66.5	67.0	67.0	67.0	66.7	66.7	66.7	66.6	66.6	66.5	66.0
	23	63.5	63.3	63.3	63.5	63.5	63.8	64.5	65.5	66.3	67.3	67.7	68.5
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	67.0	66.3	66.0	65.5	65.3	65.3	65.0	65.0	65.0	65.0	64.8	64.6
	26	61.0	60.5	60.3	60.7	60.5	60.4	60.3	60.3	60.2	60.6	60.6	59.8
	27	56.0	55.4	55.2	55.4	55.7	56.1	56.2	56.3	56.3	56.2	56.6	57.2
	28	53.7	53.2	53.0	53.0	53.4	54.2	55.2	56.2	56.4	57.0	58.0	57.9
	29	55.4	55.2	55.2	55.8	56.2	56.8	57.7	58.2	58.8	59.2	59.6	60.0
	30	57.7	57.7	58.0	58.2	58.7	59.0	59.8	60.2	60.6	60.9	61.1	61.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	64.52	64.31	64.40	64.65	64.91	65.20	65.58	65.95	66.27	66.60	66.85	66.90	

<sup>a</sup> Three minutes late.

VERTICAL FORCE.												
One Scale Division = '000094 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah. = '00007.						
12 <sup>b</sup> .	13 <sup>b</sup> .	14 <sup>b</sup> .	15 <sup>b</sup> .	16 <sup>b</sup> .	17 <sup>b</sup> .	18 <sup>b</sup> .	19 <sup>b</sup> .	20 <sup>b</sup> .	21 <sup>b</sup> .	22 <sup>b</sup> .	23 <sup>b</sup> .	Daily and Monthly Means.
Sc. Div. 19.5	Sc. Div. 21.4	Sc. Div. 21.2	Sc. Div. 15.3	Sc. Div. 15.3	Sc. Div. 15.5	Sc. Div. 17.0	Sc. Div. 16.3	Sc. Div. 14.5	Sc. Div. 14.8	Sc. Div. 15.0	Sc. Div. 10.4	Sc. Div. 18.01
18.9	18.2	18.2	16.4	16.4	15.3	—	—	—	—	—	—	17.13
—	—	—	—	—	—	13.4	13.3	12.8	12.8	11.9	16.4	16.02
17.7	17.7	16.9	16.0	16.3	16.3	15.8	12.6	12.9	13.0	16.4	19.7	20.84
23.3	22.1	22.1	22.3	23.9	23.0	22.7	17.9	15.8	14.3	17.4	18.7	23.78
23.8	23.3	23.3	22.9	20.1	21.4	23.1	22.8	23.0	23.0	23.9	23.9	22.88
22.4	22.7	21.2	21.2	21.2	21.2	21.8	21.8	22.6	22.8	24.6	24.5	24.64
23.8	23.3	23.5	24.4	23.7	22.5	25.0	23.6	26.6	26.7	26.7	28.6	31.20
30.6	30.0	30.1	30.4	30.4	30.4	—	—	—	—	—	—	38.25
—	—	—	—	—	—	36.0	36.2	35.3	33.5	36.3	37.2	39.36
37.1	37.0	37.0	37.0	37.6	38.5	37.5	39.2	39.4	39.7	41.6	41.9	39.26
39.1	38.6	36.5	38.7	38.9	35.3	40.2	40.0	40.0	40.2	40.5	40.5	38.62
40.0	40.0	39.2	39.2	38.7	38.9	38.8	38.8	38.6	38.0	37.5	38.7	33.93
40.2	39.9	39.3	38.8	38.7	38.4	38.4	38.4	37.4	37.8	37.0	36.9	29.33
32.6	32.0	32.7	33.0	33.0	33.9	33.2	33.2	33.4	33.4	33.4	34.2	23.74
29.1	29.1	29.1	29.1	29.1	29.0	—	—	—	—	—	—	26.92
—	—	—	—	—	—	26.8	26.5	25.8	24.5	22.4	25.5	27.09
26.4	25.6	25.6	22.0	15.2	23.0	25.3	25.3	27.9	25.5	20.2	21.9	20.02
27.5	28.3	27.9	27.9	27.8	28.0	28.7	29.1	26.7	22.3	21.3	21.9	29.13
28.2	26.3	26.4	25.8	26.9	26.6	21.4	18.9	26.2	26.7	24.6	27.5	27.80
19.8	20.2	19.2	19.2	17.8	7.6	16.3	19.0	17.9	19.0	19.0	23.7	31.10
32.4	30.8	30.2	30.5	30.5	30.5	29.0	28.8	29.1	30.5	31.9	31.9	38.25
25.7	25.3	24.8	24.1	24.8	25.8	—	—	—	—	—	—	41.31
—	—	—	—	—	—	24.9	24.8	25.7	25.9	25.7	25.9	42.36
30.5	31.0	31.0	31.0	31.6	31.8	31.8	32.8	33.1	33.1	34.4	33.6	40.20
37.8	38.1	39.1	39.6	39.8	39.9	39.9	40.9	40.9	40.9	41.9	41.9	36.68
41.9	43.0	44.8	44.5	40.9	42.0	39.8	27.8	41.9	42.0	38.1	38.1	30.35
41.3	42.5	42.7	40.7	41.6	42.3	42.7	43.5	43.1	42.7	43.3	43.7	30.30
39.6	39.6	38.4	39.5	39.4	39.9	40.0	37.5	33.8	38.6	38.7	38.7	29.92
40.0	41.7	41.0	34.2	36.2	35.6	—	—	—	—	—	—	—
—	—	—	—	—	—	33.4	33.6	34.7	33.7	33.0	33.0	—
30.35	30.30	30.05	29.37	29.07	28.95	29.34	28.56	29.20	29.05	29.10	29.96	29.92

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
77.3	76.9	77.1	77.2	76.8	76.4	76.2	76.0	76.0	76.0	75.8	75.2	75.93
78.0	78.0	78.2	78.0	77.8	77.6	—	—	—	—	—	—	76.89
—	—	—	—	—	—	78.5	78.5	78.4	78.3	77.6	77.0	76.48
78.0	77.5	77.3	77.0	76.2	75.7	75.2	75.0	74.6	74.0	74.0	73.5	72.29
73.1	73.0	73.2	72.8	72.4	72.2	72.0	71.3	71.3	70.7	70.0	70.0	70.53
71.2	71.0	71.0	71.0	71.2	71.3	70.9	70.9	70.7	70.4	70.2	70.5	70.90
71.8	72.0	72.4	71.8	71.5	71.3	71.2	70.8	70.3	70.0	69.6	69.5	69.60
71.9	71.5	71.3	70.5	70.0	69.2	68.4	68.0	67.5	67.0	66.6	66.0	64.19
66.3	65.7	65.6	65.5	65.0	64.7	—	—	—	—	—	—	59.99
—	—	—	—	—	—	60.0	60.0	59.5	59.0	59.0	58.8	59.49
61.6	61.5	61.5	61.5	61.0	60.4	60.0	59.1	58.5	58.2	57.6	57.0	59.32
61.5	61.2	60.8	60.6	59.8	59.5	59.0	58.6	58.0	58.2	58.1	58.1	59.86
59.6	59.5	59.6	59.5	59.4	59.5	59.5	59.8	59.5	59.8	60.0	59.8	62.94
60.0	60.0	60.0	59.8	59.5	59.5	59.7	60.2	60.4	60.5	60.7	61.0	66.23
64.5	64.2	64.5	64.3	64.2	64.0	63.8	63.5	63.5	63.5	63.2	63.2	69.28
67.1	67.1	66.9	66.5	66.0	65.8	—	—	—	—	—	—	66.69
—	—	—	—	—	—	68.7	68.7	68.6	68.5	68.4	68.5	67.19
71.3	71.0	70.5	70.2	68.7	68.9	68.0	67.5	67.5	67.2	66.5	66.3	71.32
67.7	67.8	67.5	67.2	67.2	67.0	66.4	66.0	66.0	65.8	65.5	65.5	65.64
67.4	68.0	68.7	68.5	68.5	68.5	68.5	69.0	68.1	67.5	67.4	67.0	66.86
75.0	74.5	73.7	73.0	72.5	71.9	71.0	70.5	69.6	69.0	68.3	67.5	64.25
65.7	65.5	65.5	65.5	65.0	64.7	64.3	64.0	64.0	64.0	64.0	63.5	59.34
69.0	69.2	69.4	69.0	69.0	69.0	—	—	—	—	—	—	56.01
—	—	—	—	—	—	69.1	69.2	68.3	67.7	67.5	67.5	55.88
64.5	64.3	64.2	64.1	63.5	63.3	63.0	62.6	62.2	62.0	62.0	61.6	58.33
59.8	59.5	59.0	59.2	59.0	58.2	58.0	57.8	57.2	57.2	57.0	57.0	60.26
57.0	57.2	57.0	57.0	56.8	56.3	56.0	55.3	55.2	55.0	54.7	54.2	—
58.2	58.0	57.8	57.7	57.2	56.7	56.3	56.0	55.4	55.5	55.5	55.7	—
60.0	60.0	60.0	60.0	59.7	59.5	59.5	59.0	58.8	58.8	58.4	58.2	—
61.0	61.0	61.0	61.0	60.8	60.5	—	—	—	—	—	—	—
—	—	—	—	—	—	61.8	61.5	61.5	61.2	61.0	61.0	—
66.87	66.73	66.68	66.48	66.10	65.83	65.58	65.34	65.02	64.81	64.56	64.35	65.60

<sup>b</sup> Five minutes late.



VERTICAL FORCE.												
One Scale Division = '000094 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah° = '00007.												
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—
	2	34·2	35·5	35·2	34·7	34·4	34·2	33·9	33·9	35·1	35·0	34·7
	3	32·8	37·5	37·2	36·5	36·9	36·8	36·9	36·9	37·8	37·8	38·2
	4	43·5	43·1	41·2	40·7	40·7	40·1	38·8	38·8	39·7	40·0	40·0
	5	38·2	41·3	43·6	38·6	40·7	38·4	39·8	40·0	41·1	42·0	39·4
	6	39·9	41·3	40·7	39·4	37·9	37·2	37·2	37·5	37·1	36·5	36·2
	7	36·9	36·9	36·6	36·6	36·4	36·4	36·4	36·8	36·9	36·5	36·6
	8	—	—	—	—	—	—	—	—	—	—	—
	9	43·6	45·9	45·9	44·8	42·9	41·3	41·3	42·5	42·7	42·4	42·4
	10	43·2	45·4	43·1	42·1	41·4	40·7	40·7	41·2	41·6	41·6	41·6
	11	41·4	41·4	41·4	41·4	40·5	40·5	39·9	39·4	39·4	39·9	39·9
	12	39·3	40·3	40·8	37·9	36·6	35·1	35·6	36·0	37·0	37·0	37·4
	13	42·5	44·1	44·4	42·7	41·0	40·0	40·0	40·1	40·7	40·9	41·3
	14	44·4	45·5	44·5	43·4	43·3	41·9	41·9	42·8	43·9	44·3	46·1
	15 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	16	—	—	—	—	—	—	—	—	—	—	—
	17	—	—	—	—	—	—	—	—	—	—	—
	18	—	—	—	—	—	—	—	—	—	—	—
	19	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—
	21	—	—	—	—	—	—	—	—	—	—	—
	22	—	—	—	—	—	—	—	—	—	—	—
	23	—	—	—	—	—	—	—	—	—	—	—
	24	—	—	—	—	—	—	—	—	—	—	—
	25	—	—	—	—	—	—	—	—	—	—	—
	26	—	—	—	—	—	—	—	—	—	—	—
	27	—	—	—	—	—	—	—	—	—	—	—
	28	—	—	—	—	—	—	—	—	—	—	—
	29	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—
	31	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	39·99	41·52	41·22	39·90	39·39	38·55	38·52	38·82	39·42	39·49	39·48	39·55

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
	°	°	°	°	°	°	°	°	°	°	°	°
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—
	2	61·0	61·2	61·4	61·0	61·0	61·0	61·0	61·0	61·2	61·5	61·7
	3	58·6	58·2	58·2	58·6	59·0	59·0	59·0	59·0	59·0	59·0	59·0
	4	55·2	55·2	55·4	55·7	56·2	56·6	56·7	57·2	57·3	57·5	57·8
	5	54·2	54·7	55·8	56·5	56·4	57·0	57·0	57·4	58·0	58·8	59·0
	6	56·7	56·5	56·7	57·1	57·7	58·2	59·0	59·2	59·7	60·0	60·3
	7	60·3	60·3	60·3	60·0	60·0	60·0	60·0	60·0	60·0	60·0	60·4
	8	—	—	—	—	—	—	—	—	—	—	—
	9	54·1	53·4	53·2	53·5	53·7	54·0	54·4	54·6	55·1	55·2	55·5
	10	54·0	53·2	54·2	54·7	55·0	55·4	55·7	55·8	56·1	56·2	56·5
	11	56·7	56·7	56·5	56·5	56·5	56·5	57·0	57·2	57·4	57·5	57·6
	12	57·7	57·5	57·5	58·5	59·0	59·0	59·0	59·0	59·2	59·3	59·3
	13	54·5	54·2	54·3	54·3	54·7	55·0	55·3	55·9	56·0	56·0	56·5
	14	52·7	52·7	53·3	53·7	53·4	53·8	54·0	54·4	54·2	54·2	54·2
	15 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—
	16	—	—	—	—	—	—	—	—	—	—	—
	17	—	—	—	—	—	—	—	—	—	—	—
	18	—	—	—	—	—	—	—	—	—	—	—
	19	—	—	—	—	—	—	—	—	—	—	—
	20	—	—	—	—	—	—	—	—	—	—	—
	21	—	—	—	—	—	—	—	—	—	—	—
	22	—	—	—	—	—	—	—	—	—	—	—
	23	—	—	—	—	—	—	—	—	—	—	—
	24	—	—	—	—	—	—	—	—	—	—	—
	25	—	—	—	—	—	—	—	—	—	—	—
	26	—	—	—	—	—	—	—	—	—	—	—
	27	—	—	—	—	—	—	—	—	—	—	—
	28	—	—	—	—	—	—	—	—	—	—	—
	29	—	—	—	—	—	—	—	—	—	—	—
	30	—	—	—	—	—	—	—	—	—	—	—
	31	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	56·31	56·15	56·40	56·68	56·88	57·12	57·34	57·56	57·77	57·93	58·15	58·12

<sup>a</sup> The Vertical Force Magnet removed for temperature experiments.



January 18th and 19th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		124.2	125.0	126.0	127.8	128.6	129.0	129.0	128.3	128.0	128.0	125.7
5	0		124.8	125.0	126.0	128.0	128.6	129.9	129.8	128.7	128.0	127.3	126.0
10	0		124.4	125.0	126.0	127.9	128.4	130.0	129.7	128.7	128.0	127.0	126.2
15	0		125.0	125.0	126.0	127.8	128.2	130.0	129.3	128.8	127.9	127.5	127.0
20	0		124.7	125.0	126.0	127.6	129.0	130.0	129.1	128.1	128.0	127.3	127.0
25	0		124.7	125.0	126.0	127.8	129.0	129.9	128.9	128.2	127.9	126.9	128.0
30	0		124.9	125.0	126.3	127.4	128.0	129.8	128.9	128.0	127.8	126.8	128.3
35	0		124.5	125.0	126.3	127.4	127.8	129.4	128.2	128.0	128.6	127.0	128.3
40	0		124.9	125.6	126.7	127.4	128.4	129.4	128.1	128.2	127.6	127.2	128.2
45	0		124.6	125.6	127.0	128.0	129.0	129.3	128.1	128.2	127.7	127.8	128.1
50	0		124.4	125.2	127.0	128.4	129.2	128.8	128.3	128.0	127.8	127.0	129.0
55	0		124.8	125.7	127.3	128.5	129.3	129.2	128.3	128.0	127.9	126.0	128.5
			One Scale Division = .000074 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		472.4	468.0	463.0	463.0	462.0	459.0	460.1	460.2	462.5	462.6	463.0
7	0		473.6	468.6	462.5	463.8	462.1	459.5	459.0	460.1	462.3	462.0	463.5
12	0		473.0	467.0	462.2	463.4	462.4	459.4	460.2	460.8	462.0	461.9	465.2
17	0		472.2	466.0	462.0	463.6	462.9	459.6	460.0	461.9	462.1	462.0	465.2
22	0		470.0	464.4	462.0	463.3	463.2	460.4	460.0	462.9	462.8	463.0	465.0
27	0		468.7	463.0	463.0	464.0	463.6	460.1	459.7	463.0	462.7	463.0	465.0
32	0		469.8	461.5	463.0	464.0	462.9	460.0	460.0	463.0	463.0	463.5	465.5
37	0		470.2	461.0	464.0	463.8	462.1	459.9	459.2	462.5	463.0	464.1	465.0
42	0		470.4	461.0	463.0	462.8	460.9	459.9	459.5	462.1	463.6	464.0	464.0
47	0		469.0	461.0	462.7	462.0	461.6	459.2	459.7	462.0	463.0	463.5	464.0
52	0		468.0	461.0	463.0	462.1	461.1	459.4	460.0	462.0	462.8	462.5	463.7
57	0		468.1	461.0	463.0	462.1	460.5	460.7	460.5	462.1	462.4	463.2	462.2
Thermometer			52.0	52.5	52.5	52.8	53.1	53.3	53.2	52.6	52.1	52.0	51.6
			One Scale Division = .000093 parts of V. F.					VERTICAL FORCE.					
M.	S.												
3	0		67.6	67.1	67.4	66.7	65.8	64.3	63.7	64.6	64.6	65.2	65.0
8	0		67.6	67.1	67.4	66.5	65.8	64.0	63.4	64.6	64.9	64.9	65.0
13	0		67.6	67.1	67.0	66.4	65.8	64.1	63.4	—	64.9	65.7	65.0
18	0		67.6	67.2	67.0	66.4	65.8	64.1	63.4	64.8	64.9	65.7	65.0
23	0		67.1	67.2	67.0	66.4	65.8	64.1	63.5	64.8	64.9	65.7	64.7
28	0		67.1	67.1	67.0	66.3	65.5	64.1	63.5	64.8	64.9	65.7	64.7
33	0		67.1	66.7	67.0	66.3	65.4	64.0	63.5	64.5	65.5	65.4	64.7
38	0		67.0	66.5	67.0	66.3	65.4	63.9	64.2	64.5	65.0	65.4	64.7
43	0		66.7	66.5	67.0	65.9	65.0	63.8	64.2	64.5	65.1	65.4	65.0
48	0		66.7	66.5	67.0	65.8	64.9	63.7	64.3	64.5	65.1	65.3	65.0
53	0		67.1	66.5	66.7	65.8	64.9	63.6	64.3	64.5	65.2	65.1	65.0
58	0		67.1	66.5	66.7	65.8	64.6	63.9	64.4	64.5	65.2	65.1	65.0
Thermometer			49.2	51.0	51.7	52.0	52.7	53.5	54.0	53.3	52.9	52.5	52.2
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.	Light cir. and haze overspreading the sky. Partially clouded with cir.-cum. and cir. .5 clear in zenith, remainder light cir. and haze. Partially clouded with cir.-cum. and cir. Partially clouded round horizon; .7 clear. [horizon; .5 clear. Partially clouded; light cir.-cum. in zenith; cir.-strat. round Light cir.; .6 clear, fair. .9 clear; cir. with haze round horizon; fair. .2 clear, remainder overcast. .3 clear, remainder clouded: cir., cir.-cum. and haze. Clouded; cir.-cum. and haze. Partially clouded with light cir. and haze.					
18	10	0	29.980	43.7	38.8	—	0.0						
	11	0	29.969	38.2	35.4	—	0.0						
	12	0	29.961	34.6	31.6	—	0.0						
	13	0	29.960	34.8	32.0	—	0.0						
	14	0	29.946	35.0	32.3	—	0.0						
	15	0	29.945	37.7	34.4	—	0.0						
	16	0	29.927	37.0	33.3	—	0.0						
	17	0	29.909	38.7	33.8	—	0.0						
	18	0	29.911	38.9	34.0	—	0.0						
	19	0	29.879	34.2	30.4	—	0.0						
	20	0	29.861	34.0	31.2	—	0.0						
	21	0	29.841	34.0	31.4	—	0.0						

MAGNETICAL OBSERVATIONS.												January 18th and 19th.	
DECLINATION.												Angular Value of one Scale Division = 0'.721.	
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
128.0	127.3	127.4	127.4	128.0	130.5	133.6	132.3	129.5	126.8	123.2	122.4	122.0	
127.6	127.5	127.3	127.6	128.2	130.7	133.3	132.0	129.2	126.4	123.1	122.3	122.0	
128.0	127.0	127.5	127.9	128.7	131.0	133.0	131.3	129.0	126.0	122.8	122.2	122.0	
128.9	127.1	127.0	127.6	128.7	131.1	133.1	131.0	128.3	125.8	122.8	122.2	122.1	
129.0	126.5	126.2	127.6	129.1	131.2	132.8	131.5	128.6	125.8	122.4	122.2	122.2	
128.8	125.6	126.7	128.2	129.3	131.0	132.8	131.3	128.4	125.2	122.2	122.2	122.3	
129.0	127.3	127.0	128.2	129.3	131.1	132.7	131.1	128.8	125.0	122.4	122.2	122.8	
128.2	127.0	127.4	128.5	129.5	132.0	132.9	130.9	128.0	124.8	122.4	122.1	122.8	
128.0	127.0	127.5	128.3	129.8	132.2	132.7	131.0	127.8	124.2	122.2	122.0	123.0	
127.9	127.0	127.0	127.9	129.9	132.4	133.0	130.8	127.5	124.0	122.2	121.9	123.1	
127.2	127.0	127.0	127.8	129.7	132.5	133.0	130.1	127.1	123.8	122.4	122.0	123.0	
128.0	127.1	127.1	127.9	130.0	133.0	132.8	129.9	127.1	123.5	122.5	122.0	123.0	
HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
461.2	463.5	467.3	465.5	464.1	458.4	457.1	450.7	439.5	436.7	436.6	446.2	454.9	
462.0	463.0	465.6	464.8	463.7	458.2	457.5	449.7	439.7	436.9	437.1	448.0	454.4	
462.0	463.0	467.4	465.4	463.6	459.0	457.0	448.2	440.5	435.8	437.2	449.0	454.6	
463.0	462.6	468.0	464.9	463.6	459.1	456.6	447.0	438.5	437.0	437.8	449.0	456.0	
463.0	464.4	466.3	464.4	463.3	459.6	456.1	449.2	438.5	438.7	439.6	449.0	456.4	
462.7	464.3	465.5	464.5	463.3	458.8	455.2	445.2	439.1	437.7	440.6	449.2	455.6	
462.5	465.4	465.0	463.8	462.7	458.9	452.7	444.8	439.4	438.4	442.2	451.0	454.4	
462.0	466.0	465.1	465.0	462.7	458.7	453.3	444.3	438.0	438.0	441.5	450.6	455.3	
462.5	465.4	465.8	465.4	461.5	458.5	452.5	443.4	438.2	438.1	442.2	451.7	456.1	
463.0	466.7	465.5	465.3	460.7	458.8	451.6	442.2	436.2	437.6	443.4	452.2	456.1	
463.0	467.1	465.7	465.4	460.2	457.6	451.9	441.5	437.2	436.7	444.7	453.5	457.1	
463.4	467.4	466.0	465.7	458.7	457.9	452.0	441.0	437.6	436.8	445.6	451.8	457.8	
51.6	52.0	53.2	53.6	54.4	55.5	56.0	54.7	54.2	53.9	54.0	54.0	54.3 <sup>a</sup>	
VERTICAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fah. = .00007.	
65.0	65.5	64.6	63.8	62.8	62.1	60.8	61.0	61.7	62.2	62.9	63.8	63.9	
65.0	65.5	64.6	63.8	62.8	61.8	60.8	61.0	61.9	62.2	62.9	63.8	63.9	
65.0	65.5	64.6	63.6	62.8	61.8	60.5	61.0	61.9	62.4	62.9	63.9	64.3	
65.4	65.5	64.4	63.6	62.5	61.8	60.5	61.0	61.9	62.4	63.1	64.0	64.1	
65.4	65.8	64.0	63.6	62.4	61.9	60.5	60.9	61.9	62.9	63.1	64.0	64.2	
65.4	65.1	63.9	63.3	62.3	61.5	60.3	60.9	62.2	62.9	63.1	64.2	64.2	
65.4	65.0	63.7	63.3	62.3	61.5	60.0	60.9	62.2	62.8	63.4	64.2	63.4	
65.4	65.0	63.7	63.3	62.3	61.2	60.0	60.9	62.2	62.8	63.4	64.2	63.4	
65.4	65.0	63.9	63.2	62.1	61.1	60.1	60.9	62.2	62.7	63.4	64.2	63.4	
65.4	65.0	63.8	63.2	62.1	60.9	60.1	60.9	62.2	62.7	63.4	64.2	63.9	
65.4	64.6	64.0	63.1	62.1	60.9	60.1	61.5	62.5	62.7	63.6	64.2	63.7	
65.5	64.7	64.1	63.1	62.1	60.8	60.7	61.4	62.5	62.9	63.6	64.2	63.7	
52.0	52.2	53.4	53.8	54.4	55.2	56.0	55.2	54.5	54.2	54.2	54.1	54.4 <sup>a</sup>	
<sup>a</sup> At 19 <sup>h</sup> 10 <sup>h</sup> Thermometer of H. F. 54°·5; of V. F. 53°·7.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
18	22	0	29.824	36.6	33.4	—	0.0	Clouded, cir.-cum. and haze.					
	23	0	29.826	35.7	33.0	—	0.0	Overcast with cir.-strat. and haze.					
19	0	0	29.811	36.1	33.0	—	0.0	Densely overcast.					
	1	0	29.813	37.4	34.2	—	0.0	Densely overcast.					
	2	0	29.816	37.4	33.5	—	0.0	Clouded with cir.-cum., cir.-strat. and haze.					
	3	0	29.813	38.4	34.5	S. by W.	0.0	Clouded with cir.-cum. and haze.					
	4	0	29.812	37.8	34.4	—	0.0	Clouded with cir.-cum. and haze.					
	5	0	29.806	39.5	35.6	—	0.0	Clouded with cir.-cum. and haze.					
	6	0	29.774	39.9	36.2	S. S. W.	0.5	Light cir.-cum. and haze covering the sky.					
	7	0	29.764	41.8	37.9	S. S. W.	0.5	Overcast with cir.-cum., cir.-strat. and haze.					
	8	0	29.743	42.2	38.4	S. W. by S.	0.5	Overcast with cir.-cum., cir.-strat. and haze.					
	9	0	29.744	42.0	38.3	S. W. by S.	0.5	Clouded with cir.-strat. and haze.					
	10	0	29.742	41.7	38.0	S. W. by S.	0.5	Clouded with cir.-cum., strat. and haze.					

February 24th and 25th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		126.2	126.5	130.7	138.8	129.0	129.0	132.0	157.4	140.6	127.0	127.5
5	0		126.6	126.2	134.5	138.0	129.6	128.7	132.0	154.0	136.6	127.4	128.0
10	0		126.7	126.1	138.4	137.6	130.0	128.9	131.9	143.6	133.1	127.4	127.9
15	0		126.7	126.1	146.5	136.0	130.1	129.0	131.0	130.3	131.0	127.5	127.6
20	0		127.0	126.0	155.8	133.0	131.0	129.8	129.9	122.6	127.4	127.2	127.2
25	0		127.0	128.5	156.0	132.0	130.6	130.0	128.5	121.2	127.6	127.0	127.2
30	0		127.0	131.4	154.0	132.0	130.0	129.7	128.5	120.8	128.1	127.5	127.5
35	0		126.9	132.0	150.8	131.0	130.0	130.0	128.8	123.5	128.5	127.0	128.0
40	0		127.0	131.4	147.0	129.9	129.4	129.9	130.4	128.3	127.5	127.0	128.0
45	0		126.8	131.0	145.7	129.9	129.5	130.4	138.1	134.4	126.8	127.0	128.0
50	0		126.2	130.5	143.2	129.7	129.4	130.0	146.2	138.8	126.9	127.0	128.0
55	0		126.3	131.0	140.0	129.3	129.0	131.0	154.1	140.9	127.0	127.3	128.0
			One Scale Division = .000099 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.		— <sup>a</sup>	—	—	—	—	—	—	—	—	498.1	502.5
7	0		—	—	—	—	—	—	—	—	—	—	—
12	0		—	—	—	—	—	—	—	—	—	—	—
17	0		—	—	—	—	—	—	—	—	—	—	—
22	0		—	—	—	—	—	—	—	—	—	—	—
27	0		—	—	—	—	—	—	—	—	—	—	—
32	0		—	—	—	—	—	—	—	—	—	—	—
37	0		—	—	—	—	—	—	—	—	—	—	—
42	0		—	—	—	—	—	—	—	—	—	—	—
47	0		—	—	—	—	—	—	—	—	—	—	—
52	0		—	—	—	—	—	—	—	—	—	—	—
57	0		—	—	—	—	—	—	—	—	—	—	—
Thermometer			°	°	°	°	°	°	°	°	°	45.6	45.5
			One Scale Division = .000093 parts of the V. F.					VERTICAL FORCE.					
M.	S.		81.6	81.5	80.4	77.3	78.7	74.0	73.5	68.5	70.4	72.6	73.2
8	0		81.5	81.8	80.8	77.2	77.9	73.9	73.4	63.2	70.4	72.6	73.2
13	0		81.2	81.4	81.5	77.6	77.4	73.5	73.6	63.6	70.4	72.8	74.2
18	0		80.8	81.4	80.7	78.3	77.9	73.2	73.6	59.6	71.0	72.8	74.2
23	0		80.5	82.0	80.4	79.6	76.5	73.1	73.6	57.7	71.0	72.8	74.2
28	0		80.7	81.6	80.0	80.4	76.0	72.8	73.6	58.6	72.1	72.8	74.2
33	0		80.7	81.6	79.3	80.4	75.8	72.7	73.6	58.9	72.4	72.8	74.2
38	0		80.9	81.7	78.5	80.6	75.8	72.7	73.2	59.6	72.4	72.8	74.2
43	0		80.8	81.7	78.4	80.6	75.0	73.2	77.5	66.5	72.6	73.2	74.2
48	0		80.8	81.5	78.1	80.4	74.8	73.3	71.4	67.1	72.6	73.2	74.2
53	0		80.8	81.4	77.8	80.1	74.4	73.4	69.7	68.6	72.6	73.2	74.2
58	0		81.5	81.4	77.5	—	74.3	73.2	68.5	69.4	72.6	73.2	74.2
Thermometer			41.0	41.8	43.0	43.6	44.3	45.5	45.8	46.2	46.4	46.2	45.8
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
24	10	0	29.337	27.2	24.0	—	0.0	Densely clouded; cir.-cum. and cir.-strat.					
	11	0	29.338	26.9	22.2	—	0.0	Densely clouded; cir.-cum. and cir.-strat.					
	12	0	29.348	25.8	21.7	—	0.0	Densely clouded; cir.-cum. and cir.-strat.					
	13	0	29.351	25.4	21.7	—	0.0	Densely overcast.					
	14	0	29.353	24.7	20.9	—	0.0	Densely clouded.					
	15	0	29.346	24.0	20.7	—	0.0	Densely clouded.					
	16	0	29.337	25.0	22.0	—	0.0	Densely clouded.					
	17	0	29.330	24.0	20.7	—	0.0	Densely overcast.					
	18	0	29.326	23.0	19.9	—	0.0	Densely overcast.					
	19	0	29.342	22.8	19.6	—	0.0	Densely overcast.					
	20	0	29.323	23.2	19.9	—	0.0	Densely overcast.					
	21	0	29.309	23.0	19.5	—	0.0	Densely overcast.					

MAGNETICAL OBSERVATIONS.													February 24th and 25th.	
DECLINATION.												Angular Value of one Scale Division = 0'.721.		
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div. 127.8	Sc. Div. 128.0	Sc. Div. 128.2	Sc. Div. 126.8	Sc. Div. 129.0	Sc. Div. 131.6	Sc. Div. 129.9	Sc. Div. 127.4	Sc. Div. 124.7	Sc. Div. 123.7	Sc. Div. 123.7	Sc. Div. 124.5	Sc. Div. 125.6		
127.7	127.3	128.0	126.7	128.7	130.9	129.2	127.1	124.6	124.0	123.8	124.3	125.6		
128.0	127.9	127.4	126.0	129.6	131.0	129.5	126.5	125.0	124.0	123.6	124.7	125.3		
128.0	127.9	128.0	126.0	129.7	130.4	129.0	127.7	123.7	123.9	123.7	124.5	125.1		
128.0	128.0	128.0	126.2	129.6	130.2	129.2	125.4	124.3	123.9	123.8	124.7	125.0		
128.0	128.0	128.0	126.0	129.8	130.4	128.8	125.8	124.8	124.0	123.2	126.1	125.1		
128.0	128.0	128.1	128.1	129.7	130.7	129.0	126.8	124.6	124.0	124.0	124.9	125.2		
128.0	127.7	128.4	127.1	130.0	130.6	128.5	126.5	123.9	123.5	124.6	125.0	126.0		
128.0	127.6	128.3	127.6	130.3	130.8	127.9	126.5	124.3	123.5	124.1	125.0	126.0		
128.0	127.0	128.9	128.9	130.5	130.0	127.7	125.9	124.4	123.5	124.1	125.1	125.9		
128.0	128.0	128.0	128.8	131.2	129.5	128.0	125.3	124.0	123.7	125.0	125.5	126.1		
128.0	127.9	127.2	128.5	131.8	129.9	127.6	125.4	123.8	123.3	124.7	125.6	125.8		
HORIZONTAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fah°. = .00027.	
510.0	512.8	517.9	517.7	521.8	525.0	525.9	524.5	529.5	530.0	539.3	539.0	548.7		
—	512.1	517.8	517.4	522.3	524.4	525.9	525.6	530.0	530.8	538.4	540.8	546.3		
—	512.5	517.9	517.9	522.8	525.0	526.1	524.6	528.6	531.5	537.6	543.5	551.1		
—	512.0	518.4	518.5	522.8	525.2	525.8	527.0	529.5	535.0	538.0	540.8	550.1		
—	512.8	519.2	520.3	521.6	524.5	526.0	525.4	531.9	533.3	538.3	541.2	550.0		
—	514.0	519.5	519.1	522.0	524.6	525.1	524.1	531.3	534.5	538.6	539.5	547.8		
—	515.1	520.1	521.2	524.1	525.2	524.9	525.6	530.2	535.0	539.3	539.2	547.2		
—	515.0	520.6	520.6	523.0	525.1	525.4	526.1	529.8	534.3	540.0	538.2	545.9		
—	517.1	520.2	520.2	523.5	525.7	525.0	528.3	531.0	537.5	539.2	539.0	547.4		
—	514.2	520.3	521.2	523.4	526.0	525.0	527.0	530.7	537.0	537.8	539.8	549.4		
—	517.1	520.6	522.4	524.1	525.1	525.8	527.3	531.3	537.3	539.6	541.4	549.0		
—	516.9	517.8	522.0	524.6	525.1	526.0	529.8	531.2	537.9	539.7	543.6	547.2		
45.5	45.2	44.9	45.2	45.0	44.5	43.9	43.8	44.0	45.2	45.6	46.0	46.2 <sup>b</sup>		
VERTICAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fah°. = .00007.	
74.2	74.3	74.4	74.3	73.1	74.7	74.8	73.6	73.2	72.9	72.8	73.0	72.6		
74.2	74.2	74.4	74.3	73.2	74.7	74.8	73.6	73.2	72.8	72.8	73.4	72.6		
74.2	74.3	74.4	74.3	73.4	75.0	74.8	73.8	72.9	72.8	73.1	73.4	72.9		
74.2	74.3	74.4	74.3	74.4	75.0	74.5	73.8	73.7	72.8	73.1	72.6	72.9		
74.2	74.4	74.4	74.3	74.3	75.0	74.7	73.8	73.5	72.3	73.1	72.6	72.6		
74.3	74.4	74.4	73.9	74.8	75.0	74.7	73.4	73.0	72.6	73.1	72.5	72.5		
74.3	74.4	74.4	73.5	74.5	75.0	74.6	73.4	73.0	72.6	72.9	72.3	72.5		
74.3	74.3	74.4	73.8	74.5	75.0	74.6	73.4	73.0	72.6	72.5	72.7	72.7		
74.3	74.5	74.4	73.8	74.5	75.0	74.6	73.3	73.0	72.6	72.3	72.6	72.3		
74.3	74.1	74.4	73.8	74.5	75.0	73.6	73.2	73.0	72.6	72.5	72.1	72.8		
74.3	74.4	74.4	73.8	74.6	75.0	73.7	73.2	73.0	72.6	72.5	72.1	72.8		
74.3	74.4	74.4	73.8	74.7	75.0	73.7	73.2	73.0	72.6	72.5	72.1	72.4		
45.4	45.4	45.4	45.6	45.8	45.5	45.0	44.4	44.6	45.2	45.7	45.8	46.2 <sup>b</sup>		
<sup>a</sup> A new adjustment of the instrument on the 24th day.						<sup>b</sup> At 25 <sup>d</sup> 10 <sup>h</sup> the thermometer of H. F. 46 <sup>d</sup> .8; of V. F. 46 <sup>d</sup> .6.								
METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.						
D.	H.	M.		Dry.	Wet.	Direction.	Force.							
24	22	0	29.311	23.2	19.8	—	lbs. 0.0	Densely overcast.						
	23	0	29.293	23.3	19.9	—	0.0	Densely overcast.						
25	0	0	29.295	24.1	21.1	S. W.	0.5	Densely overcast; cir.-strat. and haze.						
	1	0	29.295	23.8	20.9	S. W.	0.5	Overcast; cir.-strat., cir.-cum. and haze.						
	2	0	29.285	23.6	21.0	S. W.	0.5	Overcast; cir.-strat., cir.-cum. and haze.						
	3	0	29.282	23.9	21.5	S. W. by S.	1.0	Partially overcast; cir.-strat., cir.-cum. and haze.						
	4	0	29.265	25.4	23.2	S. S. W.	1.0	Partially overcast; cir.-cum. and cum.-strat.; .1 clear.						
	5	0	29.248	28.2	26.0	S. S. W.	1.0	Partially overcast; cir.-cum. and cir.-strat.; .1 clear.						
	6	0	29.233	30.7	28.2	S. S. W.	1.0	.1 clear in N.; remainder overcast; light cir.-cum. and haze; fair.						
	7	0	29.196	32.3	29.4	S. S. W.	1.0	.3 clear in N. W.; remainder clouded; light cir.-cum. and haze; fair.						
	8	0	29.182	33.8	31.4	S. S. W.	1.0	Overcast with strat., cir.-strat. and haze.						
	9	0	29.199	34.3	31.3	S. W.	1.0	Overcast with cir.-strat. and dense haze; particles of snow falling.						
	10	0	29.224	32.4	30.6	W. S. W.	1.0	Uniformly overcast with cir.-cum., cir.-strat. and haze.						

March 22nd and 23rd.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	121.0	124.7	125.7	128.0	137.0	130.3	131.4	128.3	125.4	123.6	128.3
5	0	121.2	124.7	126.0	128.1	135.0	129.4	130.0	128.3	126.6	123.0	129.3
10	0	121.3	124.5	125.8	132.3	134.0	132.1	130.0	128.5	125.8	122.9	130.5
15	0	121.9	124.6	125.9	137.4	133.0	132.4	129.0	128.0	125.4	122.0	130.5
20	0	122.7	125.0	126.3	140.1	131.2	131.0	129.2	128.0	126.4	123.0	130.0
25	0	122.8	125.0	126.3	141.0	130.1	131.0	129.5	128.0	126.5	124.2	131.2
30	0	123.2	125.7	126.2	139.1	130.8	132.0	129.5	128.0	127.0	124.2	131.8
35	0	123.9	125.1	126.3	139.6	130.6	133.5	130.1	127.4	127.0	125.5	130.7
40	0	123.9	125.0	126.8	138.0	130.8	134.0	129.2	127.4	127.1	126.3	130.4
45	0	123.6	125.4	126.8	139.1	131.9	133.2	128.6	127.0	127.0	127.4	129.6
50	0	124.2	125.5	126.1	141.4	131.0	132.4	128.5	127.0	126.7	128.3	128.3
55	0	124.5	125.4	126.6	139.4	131.0	131.8	128.7	127.1	124.3	128.1	130.1
		One Scale Division = .000099 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0	680.4	684.6	677.0	674.3	660.0	670.1	673.3	674.8	676.0	683.4	684.6
7	0	680.2	684.8	679.1	668.3	661.0	670.4	673.0	675.0	677.7	683.7	684.4
12	0	679.2	683.3	679.7	661.9	662.5	674.0	673.9	674.8	679.3	684.9	679.6
17	0	680.1	683.1	681.0	660.0	663.0	674.0	673.6	675.0	680.0	683.8	683.6
22	0	679.9	681.9	683.3	660.0	664.0	673.0	675.8	675.7	680.0	684.7	681.8
27	0	680.8	683.4	683.2	661.1	665.2	671.5	675.0	676.7	678.8	684.7	682.1
32	0	681.2	681.1	683.4	661.1	668.0	672.3	674.9	677.5	677.8	682.5	685.7
37	0	680.3	680.2	682.9	660.4	668.7	674.0	674.8	678.3	677.8	684.8	684.3
42	0	684.9	678.5	683.5	661.3	669.0	675.0	674.5	678.6	676.9	681.9	683.6
47	0	689.7	677.4	680.9	659.0	670.0	675.4	674.5	678.9	675.9	683.7	686.5
52	0	685.4	677.8	678.6	659.0	670.0	674.0	674.6	678.7	676.9	683.6	684.6
57	0	684.3	677.5	673.7	659.0	670.0	673.8	675.0	678.6	680.2	685.0	683.3
Thermometer		44.8	45.4	45.5	45.5	45.2	44.8	44.2	43.6	43.3	42.5	41.6
		One Scale Division = .000094 parts of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	75.4	74.9	74.5	75.3	76.5	77.0	76.1	76.7	75.5	74.8	74.4
8	0	75.4	74.9	75.1	75.1	76.7	77.0	76.2	76.7	75.5	74.7	74.1
13	0	74.8	74.9	75.1	75.1	76.7	77.0	76.2	76.7	75.6	74.7	74.3
18	0	74.8	74.5	75.1	75.8	76.7	76.4	76.2	76.7	75.1	75.0	74.7
23	0	74.8	74.5	75.1	76.1	77.0	76.4	76.2	76.3	75.1	74.6	75.1
28	0	74.3	74.5	74.9	76.1	77.0	76.5	76.2	76.3	75.1	75.4	75.1
33	0	74.3	74.9	74.8	75.7	77.0	76.5	76.2	76.3	75.1	75.4	75.4
38	0	74.3	74.9	74.8	75.7	77.0	76.5	76.2	76.3	74.4	75.6	75.8
43	0	74.3	74.5	73.8	75.7	77.1	76.5	76.6	76.3	74.4	75.6	75.8
48	0	75.2	74.5	73.8	75.7	76.9	76.4	76.6	76.3	74.1	75.6	76.0
53	0	74.9	74.5	73.8	75.7	77.0	76.4	76.8	76.3	74.1	75.4	76.7
58	0	74.9	74.5	74.4	76.5	77.0	76.4	76.8	76.4	74.3	75.4	76.7
Thermometer		44.4	44.7	44.9	45.7	45.6	44.9	44.8	44.4	43.8	43.6	42.2
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.		Barometer at 32°.	Thermometers.		Wind.		Weather.					
			Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.					
22	10	0	29.162	33.2	29.4	S. by W.	1.0	Cir.-strat. and cir.-cum. generally dispersed over the sky; fair.				
	11	0	29.169	33.0	28.8	W. by S.	1.0	Cir.-cum. and cum.-strat. dispersed generally over the sky; fair.				
	12	0	29.184	27.4	22.4	W. by S.	0.5	Overcast with cir.-strat. and haze.				
	13	0	29.193	23.5	19.6	W. by S.	0.5	Overcast with dense haze.				
	14	0	29.210	21.4	18.6	W.	2.0	Densely clouded.				
	15	0	29.211	20.0	17.8	N. W.	2.0	Densely clouded.				
	16	0	29.219	19.2	17.1	S. W.	2.0	Densely clouded.				
	17	0	29.237	18.2	16.0	S. W.	2.0	Densely overcast.				
	18	0	29.232	16.8	14.9	S. W.	2.0	Densely overcast.				
	19	0	29.246	16.0	13.8	W.	2.0	Densely overcast.				
	20	0	29.277	15.2	13.0	W.	2.0	Densely overcast.				
	21	0	29.277	13.8	12.8	W.	2.0	Densely overcast.				

MAGNETICAL OBSERVATIONS.												March 22nd and 23rd.		
DECLINATION.						Angular Value of one Scale Division = 0'.721.								
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
131.0	125.5	130.5	132.7	133.5	134.0	135.0	132.6	130.0	125.2	121.0	122.7	122.5		
129.5	127.8	130.9	132.1	133.8	134.2	135.0	133.3	128.9	123.2	124.0	122.3	122.4		
127.3	128.9	130.9	132.6	134.4	134.9	133.5	133.4	127.6	123.3	122.0	122.8	122.5		
129.2	129.8	131.0	132.6	134.4	135.0	133.8	132.1	127.0	122.3	122.2	122.3	122.5		
129.0	130.5	131.1	132.2	135.0	134.6	133.2	131.2	126.7	121.8	123.3	122.4	123.0		
127.1	130.6	130.9	132.8	135.1	134.8	133.8	129.8	126.6	121.0	123.5	122.0	123.0		
126.8	130.8	131.0	132.9	135.0	135.7	133.4	129.5	126.3	121.1	123.8	121.9	123.3		
126.4	130.2	130.1	132.4	133.7	135.5	133.8	129.1	126.1	122.5	124.0	121.7	123.0		
124.7	130.8	130.7	131.8	133.6	134.3	133.4	129.5	126.4	121.4	123.1	122.0	123.9		
124.0	130.5	131.9	131.3	133.5	134.0	133.8	129.2	126.8	120.5	122.5	122.0	123.5		
124.0	130.2	132.0	133.0	133.8	135.7	133.1	129.3	126.5	120.3	122.8	122.2	123.9		
123.9	130.4	132.0	133.8	134.4	134.7	133.2	128.7	125.9	120.5	122.7	122.0	123.6		
HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.		
685.1	685.7	688.4	688.1	689.2	684.6	684.3	680.4	673.3	669.8	669.3	684.6	685.7		
685.9	683.7	688.5	688.0	689.3	685.0	683.6	680.9	672.3	668.7	676.0	683.0	686.1		
679.6	687.5	688.1	687.8	690.4	685.0	684.8	681.3	671.8	667.0	670.5	682.7	687.5		
679.6	687.2	687.6	688.3	689.9	685.0	685.0	681.0	671.5	668.7	670.8	683.1	688.0		
680.4	688.8	689.0	687.9	689.2	688.7	684.0	678.6	672.8	666.9	672.7	685.6	690.0		
680.2	686.6	688.5	687.4	688.8	685.6	683.7	678.0	674.0	668.5	677.6	686.2	688.8		
681.7	686.5	689.8	688.9	687.1	683.1	683.5	676.6	676.6	669.9	678.5	685.5	689.0		
682.6	687.0	689.7	688.1	687.0	685.0	682.3	677.1	675.4	668.8	684.7	683.7	689.0		
682.6	687.6	691.0	688.6	687.2	684.7	681.9	680.6	675.6	668.5	680.7	682.8	688.9		
682.6	688.0	690.6	688.3	687.1	682.3	681.6	676.8	677.3	668.2	681.5	684.1	689.2		
684.4	688.3	691.6	688.7	685.5	683.2	681.3	676.0	670.6	671.2	682.5	684.8	688.3		
684.6	688.1	691.5	689.9	684.4	683.1	681.3	673.5	672.1	667.3	684.1	685.4	689.8		
41.2	40.4	39.5	39.1	38.1	37.8	37.8	38.0	38.0	38.2	38.2	38.5	38.7 <sup>a</sup>		
VERTICAL FORCE												Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.		
76.3	77.3	78.0	79.2	81.4	81.6	82.3	80.7	79.7	79.8	80.8	82.5	81.1		
76.3	76.8	78.0	78.9	81.4	81.4	81.7	80.7	79.7	79.8	81.8	81.8	81.1		
75.8	76.7	78.2	78.8	81.4	81.4	82.8	80.5	79.7	80.3	81.8	81.8	81.1		
75.6	77.3	78.0	78.8	81.4	81.9	81.6	80.2	79.7	80.3	82.0	81.8	81.1		
75.6	77.3	78.1	78.7	81.0	81.9	81.6	80.2	79.7	80.3	81.8	82.4	81.1		
75.8	77.2	77.9	80.9	81.0	81.9	82.0	80.2	80.1	80.9	82.4	82.4	81.1		
76.0	77.4	78.3	81.1	81.0	81.9	81.9	80.2	80.2	80.7	82.2	81.7	81.2		
76.2	77.4	78.3	81.1	81.6	81.9	81.8	79.9	80.2	80.7	83.0	81.4	81.2		
76.7	77.6	79.3	81.8	81.6	81.6	81.8	79.9	80.2	81.0	82.1	81.4	81.2		
77.3	77.7	79.4	81.8	81.1	81.6	81.8	79.9	80.2	81.0	82.1	81.4	81.2		
77.3	78.0	79.4	80.2	81.1	81.7	81.7	79.9	79.8	80.7	82.1	81.1	81.2		
77.3	78.1	79.2	80.2	81.6	82.3	80.7	79.9	79.8	80.8	82.5	81.1	81.2		
41.6	41.4	40.4	40.2	40.0	39.7	39.4	39.7	39.7	39.5	39.5	39.7	39.9 <sup>a</sup>		

<sup>a</sup> At 23<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 38<sup>o</sup>.6; of V. F. 40<sup>o</sup>.1.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°		lbs.				
22	22	0	29.286	12.4	12.1	N. N. W.	2.0	Light haze in zenith; densely clouded round horizon.			
	23	0	29.283	11.0	9.5	N. N. W.	2.0	Overcast with cir.-strat. and haze.			
23	0	0	29.293	10.2	8.8	N. N. W.	2.0	Clouded; cir.-cum., cir.-strat. and haze.			
	1	0	29.303	10.4	9.0	N. N. W.	2.0	Clouded; cir.-cum., cir.-strat. and haze.			
	2	0	29.298	11.0	9.7	N. W.	2.0	Clouded with cir.-strat. and haze.			
	3	0	29.296	11.4	10.4	N. W.	2.0	Densely overcast with haze.			
	4	0	29.278	13.4	12.4	N. W.	2.0	Densely overcast with haze; sun breaking through occasionally;			
	5	0	29.268	14.8	13.4	N. W.	10.0	Densely overcast; slight snow. [much.]			
	6	0	29.264	15.7	13.6	N. N. W.	5.0	Densely overcast with cir. haze; snowing slightly; snow drifting very			
	7	0	29.246	15.4	14.2	N. N. W.	5.0	Densely overcast with cir. haze; snowing slightly; snow drifting			
	8	0	29.264	16.0	15.3	W.	2.0	Constant snow. [much.]			
	9	0	29.277	16.3	15.6	W.	5.0	Constant snow.			
	10	0	29.291	14.8	13.6	N. W. b. W.	7.0	Densely overcast; a few particles of snow falling.			



April 19th and 20th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0 <sup>o</sup> 721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		124 <sup>o</sup> 6	125 <sup>o</sup> 0	125 <sup>o</sup> 8	126 <sup>o</sup> 5	125 <sup>o</sup> 7	125 <sup>o</sup> 8	131 <sup>o</sup> 8	128 <sup>o</sup> 4	128 <sup>o</sup> 1	129 <sup>o</sup> 3	128 <sup>o</sup> 0
5	0		124 <sup>o</sup> 5	125 <sup>o</sup> 3	125 <sup>o</sup> 7	126 <sup>o</sup> 2	125 <sup>o</sup> 6	126 <sup>o</sup> 1	131 <sup>o</sup> 7	130 <sup>o</sup> 0	129 <sup>o</sup> 0	129 <sup>o</sup> 8	128 <sup>o</sup> 2
10	0		124 <sup>o</sup> 2	125 <sup>o</sup> 4	126 <sup>o</sup> 0	126 <sup>o</sup> 1	125 <sup>o</sup> 9	126 <sup>o</sup> 2	131 <sup>o</sup> 6	131 <sup>o</sup> 1	129 <sup>o</sup> 2	129 <sup>o</sup> 0	128 <sup>o</sup> 4
15	0		124 <sup>o</sup> 5	125 <sup>o</sup> 3	125 <sup>o</sup> 9	126 <sup>o</sup> 1	125 <sup>o</sup> 7	126 <sup>o</sup> 1	131 <sup>o</sup> 1	131 <sup>o</sup> 3	130 <sup>o</sup> 7	128 <sup>o</sup> 8	128 <sup>o</sup> 5
20	0		124 <sup>o</sup> 5	125 <sup>o</sup> 2	126 <sup>o</sup> 1	125 <sup>o</sup> 8	125 <sup>o</sup> 8	126 <sup>o</sup> 5	131 <sup>o</sup> 0	131 <sup>o</sup> 2	130 <sup>o</sup> 6	128 <sup>o</sup> 5	128 <sup>o</sup> 5
25	0		124 <sup>o</sup> 7	125 <sup>o</sup> 3	125 <sup>o</sup> 9	125 <sup>o</sup> 7	126 <sup>o</sup> 7	126 <sup>o</sup> 2	129 <sup>o</sup> 7	130 <sup>o</sup> 1	130 <sup>o</sup> 6	128 <sup>o</sup> 7	128 <sup>o</sup> 5
30	0		124 <sup>o</sup> 7	125 <sup>o</sup> 3	126 <sup>o</sup> 0	126 <sup>o</sup> 0	126 <sup>o</sup> 0	126 <sup>o</sup> 1	128 <sup>o</sup> 6	130 <sup>o</sup> 0	129 <sup>o</sup> 1	128 <sup>o</sup> 6	128 <sup>o</sup> 4
35	0		124 <sup>o</sup> 8	125 <sup>o</sup> 6	126 <sup>o</sup> 0	126 <sup>o</sup> 0	126 <sup>o</sup> 0	126 <sup>o</sup> 2	127 <sup>o</sup> 9	130 <sup>o</sup> 0	128 <sup>o</sup> 5	128 <sup>o</sup> 2	128 <sup>o</sup> 6
40	0		124 <sup>o</sup> 9	125 <sup>o</sup> 6	126 <sup>o</sup> 1	126 <sup>o</sup> 0	126 <sup>o</sup> 0	126 <sup>o</sup> 4	127 <sup>o</sup> 0	130 <sup>o</sup> 9	128 <sup>o</sup> 5	128 <sup>o</sup> 0	128 <sup>o</sup> 5
45	0		124 <sup>o</sup> 9	125 <sup>o</sup> 7	126 <sup>o</sup> 2	125 <sup>o</sup> 7	125 <sup>o</sup> 9	126 <sup>o</sup> 2	126 <sup>o</sup> 5	130 <sup>o</sup> 8	128 <sup>o</sup> 5	127 <sup>o</sup> 5	128 <sup>o</sup> 5
50	0		125 <sup>o</sup> 0	125 <sup>o</sup> 7	126 <sup>o</sup> 5	125 <sup>o</sup> 9	125 <sup>o</sup> 7	126 <sup>o</sup> 8	126 <sup>o</sup> 4	128 <sup>o</sup> 7	129 <sup>o</sup> 1	127 <sup>o</sup> 5	128 <sup>o</sup> 5
55	0		125 <sup>o</sup> 0	125 <sup>o</sup> 9	126 <sup>o</sup> 6	125 <sup>o</sup> 8	125 <sup>o</sup> 9	131 <sup>o</sup> 1	127 <sup>o</sup> 0	127 <sup>o</sup> 2	129 <sup>o</sup> 5	127 <sup>o</sup> 5	128 <sup>o</sup> 4
			One Scale Division = .000099 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		747 <sup>o</sup> 3	746 <sup>o</sup> 0	745 <sup>o</sup> 6	744 <sup>o</sup> 6	744 <sup>o</sup> 2	742 <sup>o</sup> 6	744 <sup>o</sup> 6	744 <sup>o</sup> 3	746 <sup>o</sup> 2	740 <sup>o</sup> 8	740 <sup>o</sup> 6
7	0		747 <sup>o</sup> 3	746 <sup>o</sup> 0	745 <sup>o</sup> 3	744 <sup>o</sup> 6	744 <sup>o</sup> 1	743 <sup>o</sup> 1	743 <sup>o</sup> 4	743 <sup>o</sup> 0	742 <sup>o</sup> 9	740 <sup>o</sup> 1	740 <sup>o</sup> 9
12	0		746 <sup>o</sup> 6	745 <sup>o</sup> 5	745 <sup>o</sup> 0	744 <sup>o</sup> 3	744 <sup>o</sup> 4	743 <sup>o</sup> 8	743 <sup>o</sup> 1	741 <sup>o</sup> 1	740 <sup>o</sup> 5	738 <sup>o</sup> 5	740 <sup>o</sup> 4
17	0		746 <sup>o</sup> 8	744 <sup>o</sup> 3	744 <sup>o</sup> 8	743 <sup>o</sup> 4	744 <sup>o</sup> 4	744 <sup>o</sup> 4	741 <sup>o</sup> 4	740 <sup>o</sup> 6	737 <sup>o</sup> 7	737 <sup>o</sup> 7	740 <sup>o</sup> 4
22	0		747 <sup>o</sup> 3	744 <sup>o</sup> 8	745 <sup>o</sup> 0	744 <sup>o</sup> 1	744 <sup>o</sup> 6	744 <sup>o</sup> 2	740 <sup>o</sup> 0	739 <sup>o</sup> 8	735 <sup>o</sup> 7	737 <sup>o</sup> 5	740 <sup>o</sup> 4
27	0		746 <sup>o</sup> 2	745 <sup>o</sup> 1	744 <sup>o</sup> 6	743 <sup>o</sup> 9	744 <sup>o</sup> 7	743 <sup>o</sup> 1	739 <sup>o</sup> 1	739 <sup>o</sup> 1	734 <sup>o</sup> 8	737 <sup>o</sup> 8	740 <sup>o</sup> 5
32	0		747 <sup>o</sup> 1	745 <sup>o</sup> 0	744 <sup>o</sup> 1	744 <sup>o</sup> 2	745 <sup>o</sup> 1	743 <sup>o</sup> 1	738 <sup>o</sup> 8	738 <sup>o</sup> 5	734 <sup>o</sup> 4	738 <sup>o</sup> 0	740 <sup>o</sup> 9
37	0		747 <sup>o</sup> 1	744 <sup>o</sup> 9	744 <sup>o</sup> 2	744 <sup>o</sup> 2	744 <sup>o</sup> 8	743 <sup>o</sup> 5	738 <sup>o</sup> 2	740 <sup>o</sup> 4	737 <sup>o</sup> 8	738 <sup>o</sup> 8	740 <sup>o</sup> 2
42	0		747 <sup>o</sup> 0	744 <sup>o</sup> 7	744 <sup>o</sup> 4	744 <sup>o</sup> 4	744 <sup>o</sup> 1	743 <sup>o</sup> 3	739 <sup>o</sup> 7	745 <sup>o</sup> 7	739 <sup>o</sup> 5	739 <sup>o</sup> 6	740 <sup>o</sup> 4
47	0		747 <sup>o</sup> 9	744 <sup>o</sup> 9	745 <sup>o</sup> 0	743 <sup>o</sup> 9	744 <sup>o</sup> 5	743 <sup>o</sup> 2	744 <sup>o</sup> 1	749 <sup>o</sup> 6	739 <sup>o</sup> 8	739 <sup>o</sup> 9	741 <sup>o</sup> 0
52	0		748 <sup>o</sup> 2	745 <sup>o</sup> 5	744 <sup>o</sup> 3	744 <sup>o</sup> 3	744 <sup>o</sup> 5	743 <sup>o</sup> 0	745 <sup>o</sup> 7	749 <sup>o</sup> 1	741 <sup>o</sup> 5	740 <sup>o</sup> 3	739 <sup>o</sup> 6
57	0		747 <sup>o</sup> 4	744 <sup>o</sup> 6	744 <sup>o</sup> 4	744 <sup>o</sup> 3	744 <sup>o</sup> 2	746 <sup>o</sup> 3	745 <sup>o</sup> 9	745 <sup>o</sup> 9	741 <sup>o</sup> 9	740 <sup>o</sup> 4	738 <sup>o</sup> 6
Thermometer			51 <sup>o</sup> 6	51 <sup>o</sup> 5	51 <sup>o</sup> 6	51 <sup>o</sup> 8	52 <sup>o</sup> 2	52 <sup>o</sup> 6	53 <sup>o</sup> 1	53 <sup>o</sup> 9	54 <sup>o</sup> 3	54 <sup>o</sup> 5	54 <sup>o</sup> 2
			One Scale Division = .000094 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		65 <sup>o</sup> 4	65 <sup>o</sup> 6	65 <sup>o</sup> 1	64 <sup>o</sup> 4	63 <sup>o</sup> 3	62 <sup>o</sup> 3	60 <sup>o</sup> 5	60 <sup>o</sup> 1	55 <sup>o</sup> 8	57 <sup>o</sup> 4	58 <sup>o</sup> 8
8	0		65 <sup>o</sup> 4	65 <sup>o</sup> 4	65 <sup>o</sup> 1	64 <sup>o</sup> 2	63 <sup>o</sup> 1	62 <sup>o</sup> 3	60 <sup>o</sup> 7	59 <sup>o</sup> 1	55 <sup>o</sup> 6	57 <sup>o</sup> 4	58 <sup>o</sup> 8
13	0		65 <sup>o</sup> 4	65 <sup>o</sup> 3	65 <sup>o</sup> 1	64 <sup>o</sup> 0	63 <sup>o</sup> 1	62 <sup>o</sup> 3	60 <sup>o</sup> 8	59 <sup>o</sup> 0	55 <sup>o</sup> 6	57 <sup>o</sup> 7	59 <sup>o</sup> 0
18	0		65 <sup>o</sup> 4	65 <sup>o</sup> 2	65 <sup>o</sup> 1	64 <sup>o</sup> 0	63 <sup>o</sup> 0	62 <sup>o</sup> 3	60 <sup>o</sup> 8	59 <sup>o</sup> 0	56 <sup>o</sup> 0	57 <sup>o</sup> 7	58 <sup>o</sup> 6
23	0		65 <sup>o</sup> 4	65 <sup>o</sup> 1	65 <sup>o</sup> 1	64 <sup>o</sup> 0	62 <sup>o</sup> 9	62 <sup>o</sup> 3	60 <sup>o</sup> 8	59 <sup>o</sup> 0	56 <sup>o</sup> 5	58 <sup>o</sup> 1	58 <sup>o</sup> 8
28	0		65 <sup>o</sup> 4	65 <sup>o</sup> 0	65 <sup>o</sup> 1	64 <sup>o</sup> 0	62 <sup>o</sup> 9	62 <sup>o</sup> 3	61 <sup>o</sup> 0	59 <sup>o</sup> 3	56 <sup>o</sup> 9	58 <sup>o</sup> 1	58 <sup>o</sup> 8
33	0		65 <sup>o</sup> 4	65 <sup>o</sup> 0	65 <sup>o</sup> 1	63 <sup>o</sup> 5	62 <sup>o</sup> 9	62 <sup>o</sup> 2	61 <sup>o</sup> 1	59 <sup>o</sup> 6	57 <sup>o</sup> 7	58 <sup>o</sup> 5	58 <sup>o</sup> 8
38	0		65 <sup>o</sup> 4	65 <sup>o</sup> 0	64 <sup>o</sup> 8	63 <sup>o</sup> 5	62 <sup>o</sup> 8	62 <sup>o</sup> 2	61 <sup>o</sup> 3	59 <sup>o</sup> 5	58 <sup>o</sup> 0	58 <sup>o</sup> 5	58 <sup>o</sup> 6
43	0		65 <sup>o</sup> 4	65 <sup>o</sup> 0	64 <sup>o</sup> 8	63 <sup>o</sup> 5	62 <sup>o</sup> 8	62 <sup>o</sup> 2	61 <sup>o</sup> 3	59 <sup>o</sup> 3	57 <sup>o</sup> 7	58 <sup>o</sup> 5	58 <sup>o</sup> 6
48	0		65 <sup>o</sup> 4	65 <sup>o</sup> 0	64 <sup>o</sup> 8	63 <sup>o</sup> 4	62 <sup>o</sup> 8	62 <sup>o</sup> 2	61 <sup>o</sup> 7	57 <sup>o</sup> 6	57 <sup>o</sup> 7	58 <sup>o</sup> 7	58 <sup>o</sup> 6
53	0		65 <sup>o</sup> 4	65 <sup>o</sup> 0	64 <sup>o</sup> 6	63 <sup>o</sup> 3	62 <sup>o</sup> 6	62 <sup>o</sup> 2	61 <sup>o</sup> 2	56 <sup>o</sup> 6	57 <sup>o</sup> 7	58 <sup>o</sup> 7	58 <sup>o</sup> 6
58	0		65 <sup>o</sup> 4	65 <sup>o</sup> 1	64 <sup>o</sup> 6	63 <sup>o</sup> 3	62 <sup>o</sup> 6	61 <sup>o</sup> 0	60 <sup>o</sup> 6	56 <sup>o</sup> 4	57 <sup>o</sup> 4	58 <sup>o</sup> 8	58 <sup>o</sup> 6
Thermometer			50 <sup>o</sup> 9	51 <sup>o</sup> 1	50 <sup>o</sup> 8	51 <sup>o</sup> 2	51 <sup>o</sup> 7	52 <sup>o</sup> 3	53 <sup>o</sup> 1	53 <sup>o</sup> 4	54 <sup>o</sup> 3	53 <sup>o</sup> 8	54 <sup>o</sup> 0
Increasing numbers denote decreasing Westerly Declination, and increasing													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32 <sup>o</sup> .	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
19	10	0	29.812	41.8	39.2	E. N. E.	0.5	Overcast with cir.-strat. and haze.					
	11	0	29.813	41.0	38.6	E. N. E.	0.5	Densely overcast with cir.-strat. and haze.					
	12	0	29.813	40.2	38.0	E. N. E.	0.5	Densely overcast with cir.-cum., cir.-strat., and haze.					
	13	0	29.810	39.9	37.9	E. N. E.	0.2	Densely overcast with cir.-cum., cir.-strat., and haze.					
	14	0	29.816	39.9	37.9	—	0.0	Densely overcast; very dark.					
	15	0	29.803	40.2	38.2	—	0.0	Densely overcast.					
	16	0	29.800	40.4	38.3	—	0.0	Densely overcast; very dark.					
	17	0	29.796	39.5	38.0	—	0.0	Densely overcast; dark.					
	18	0	29.793	38.2	37.2	—	0.0	Partially clear to N. and in zenith; remainder thickly clouded.					
	19	0	29.790	36.8	36.0	—	0.0	Partially clear to N. and W.; remainder densely clouded with					
	20	0	29.794	38.5	37.2	—	0.0	Densely overcast with haze.					
	21	0	29.804	39.4	37.5	—	0.0	Densely overcast with cir.-cum. and haze.					

MAGNETICAL OBSERVATIONS.												
DECLINATION.												April 19th and 20th.
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
128.2	128.1	129.1	131.1	133.4	132.6	129.9	126.9	124.0	123.7	124.4	123.6	123.2
128.0	128.8	129.0	131.3	133.3	132.1	129.6	126.5	124.0	123.4	124.0	124.2	123.2
128.3	129.1	129.0	131.9	134.4	132.3	129.8	125.9	124.0	123.7	123.9	123.6	123.2
127.5	128.9	129.6	131.9	133.7	132.5	129.4	125.0	124.0	123.8	123.9	124.1	123.5
127.6	128.2	130.0	132.5	132.9	132.1	129.0	125.5	123.7	123.8	123.9	124.1	123.9
127.6	128.1	130.1	132.8	133.5	131.5	128.3	124.5	123.8	123.8	123.8	124.0	124.0
127.5	128.0	130.0	134.6	133.0	130.6	127.9	124.5	123.3	124.0	123.7	123.7	124.0
127.8	128.8	130.0	133.8	133.1	130.7	128.0	124.6	123.9	124.0	123.8	123.6	124.0
127.1	128.8	130.1	134.1	133.3	130.5	126.9	124.2	123.5	124.0	123.9	123.3	124.0
127.8	129.2	130.6	134.0	133.4	130.9	127.9	124.1	123.5	124.0	123.7	123.2	124.0
127.9	129.2	130.7	134.2	132.6	130.2	126.9	124.0	123.4	124.0	123.8	123.1	124.0
128.0	129.3	130.9	134.2	132.2	130.0	127.0	124.1	123.2	124.0	123.8	123.0	124.2

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.												
739.8	741.1	740.6	739.7	737.4	734.6	730.2	729.7	732.0	735.0	738.1	740.3	742.0
739.1	741.0	740.1	739.1	736.0	733.4	731.0	730.0	732.0	735.0	738.9	741.1	742.0
739.9	741.0	740.3	740.0	736.9	734.3	729.5	729.5	732.2	734.9	737.2	740.8	742.9
740.0	742.0	740.3	739.1	737.2	733.0	729.1	728.8	733.1	735.2	738.0	741.0	743.8
740.4	740.5	740.4	737.8	735.5	731.6	729.1	729.5	733.2	735.2	737.4	739.3	745.3
740.5	739.9	740.0	739.1	736.0	731.7	729.4	730.0	733.9	735.0	739.4	741.4	744.5
740.9	740.2	739.8	739.5	737.8	731.5	728.9	729.7	734.4	734.8	738.1	740.9	746.0
740.0	740.7	740.1	739.2	736.4	732.7	728.2	729.7	735.0	735.8	738.6	742.0	745.6
739.9	740.6	740.0	739.4	735.9	733.0	729.3	730.5	735.6	736.5	738.8	741.8	744.2
740.0	740.9	739.5	739.3	736.4	731.6	729.7	730.5	735.0	737.0	739.0	742.2	744.1
740.8	741.4	739.9	738.7	736.8	731.7	729.7	730.2	734.7	738.1	741.4	742.0	745.5
741.5	741.0	739.9	738.3	735.5	730.4	729.5	731.1	734.2	737.7	737.9	742.0	745.7

VERTICAL FORCE												
Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.												
58.6	60.3	61.0	60.7	61.0	61.0	60.8	61.1	60.5	60.6	61.4	60.8	60.7
58.9	60.3	60.9	60.7	60.8	60.9	60.8	61.1	60.5	60.6	61.4	60.8	60.4
58.9	60.3	60.9	60.7	60.8	61.1	60.6	61.0	60.4	60.6	61.4	60.8	60.4
59.3	66.3	60.9	60.7	60.8	61.4	60.6	61.0	60.5	60.6	61.3	60.9	60.4
59.3	60.3	60.7	60.5	61.6	60.8	60.9	60.8	60.5	60.6	61.3	60.9	60.8
59.3	60.3	60.7	60.5	61.4	60.8	60.9	60.8	60.6	60.6	61.3	60.9	60.8
59.3	60.8	60.7	60.5	61.2	60.8	60.9	60.8	60.6	60.6	60.6	60.9	60.8
60.0	60.8	60.7	60.5	61.0	60.8	60.9	60.5	60.8	60.6	60.6	60.9	60.8
60.0	60.8	60.7	61.2	60.8	60.9	61.1	60.6	60.7	60.9	61.0	60.9	60.5
60.3	60.8	60.7	60.9	61.2	61.0	61.1	60.4	60.7	60.9	60.5	60.9	60.5
60.3	61.0	60.7	60.9	61.1	60.8	61.0	60.4	60.7	60.9	60.5	60.9	60.5
60.3	61.0	60.7	61.0	61.0	60.8	61.1	60.6	60.7	60.9	60.5	60.7	60.5

Horizontal and Vertical Force. <sup>a</sup> At 20<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 56°.6; of V. F. 55°.0.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.	Densely clouded. .1 clear in E.; remainder densely clouded cir.-cum. and haze. Densely clouded with cir.-strat. and haze. Densely overcast with cir.-strat. and haze. Densely overcast with cir.-strat. and haze. Densely overcast with cir.-strat. and haze. Densely overcast with cir.-cum., cir.-strat., and haze. Partially overcast with cir.-strat. and cir.-cum.; fair. .3 clear; partially overcast with cir. and cir.-strat.; fair. .2 clear; remainder light flexuous cir.; fair. .8 clear; remainder light flexuous cir. in S. .5 clear; remainder light cir. in S. and S.W. .5 clear; light cir. in W; fair.				
19	22	0	29.824	39.4	37.8	—	0.0					
	23	0	29.834	39.0	37.6	—	0.0					
20	0	0	29.844	39.4	38.0	—	0.0					
	1	0	29.882	40.2	38.6	—	0.0					
	2	0	29.880	40.7	39.1	—	0.0					
	3	0	29.893	41.8	39.8	—	0.0					
	4	0	29.909	42.7	40.4	—	0.0					
	5	0	29.868	46.7	44.0	—	0.0					
	6	0	29.870	46.6	44.4	S.	0.5					
	7	0	29.855	48.5	45.4	S.	0.5					
	8	0	29.858	48.8	45.0	S.	0.2					
	9	0	29.863	51.2	47.8	S.	0.2					
	10	0	29.861	52.4	48.6	S.	0.2					

May 26th and 27th.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	118·9	122·9	123·9	124·0	124·2	123·0	121·3	124·8	124·0	125·3	127·1
5	0	115·3	123·1	123·8	123·1	125·1	123·2	121·7	124·8	124·0	125·0	127·0
10	0	113·8	124·0	124·2	121·6	125·9	124·2	123·0	124·5	124·0	125·0	127·0
15	0	115·0	125·0	124·0	120·8	125·5	125·2	123·6	124·4	124·0	125·1	127·2
20	0	112·5	126·0	123·8	120·0	125·3	125·1	124·4	124·5	124·0	125·0	127·9
25	0	111·9	126·8	124·9	120·2	124·9	124·5	124·6	124·7	124·0	125·8	127·6
30	0	113·0	127·1	124·9	121·0	124·6	122·5	124·8	124·8	124·3	126·0	127·8
35	0	115·6	127·0	125·2	122·0	125·3	121·6	125·0	124·1	125·0	126·0	127·8
40	0	118·5	126·2	125·2	123·4	125·5	121·4	124·9	124·0	125·0	126·0	128·1
45	0	120·3	125·9	125·1	123·9	124·9	121·4	124·5	124·0	124·7	126·0	128·2
50	0	121·8	125·1	124·3	123·6	125·1	121·7	124·5	124·0	125·0	126·2	127·6
55	0	122·1	124·7	124·0	123·9	123·9	121·5	124·9	124·0	124·6	126·6	128·0
		One Scale Division = ·000099 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0	819·5	804·7	825·0	813·5	811·0	810·4	814·9	818·9	820·0	819·0	818·8
7	0	832·9	810·6	821·8	812·8	812·8	809·8	815·9	818·8	820·0	820·0	818·5
12	0	845·6	816·6	820·8	812·9	813·5	811·1	817·3	818·5	820·1	820·0	818·0
17	0	840·3	821·9	826·9	811·0	813·6	812·9	816·6	819·8	820·4	819·5	818·1
22	0	829·3	826·8	827·8	809·8	816·5	813·9	816·1	819·1	820·0	819·0	818·0
27	0	819·7	830·3	824·7	808·1	815·4	815·0	815·5	818·8	819·1	818·6	818·0
32	0	810·2	829·1	822·1	806·3	814·3	815·3	816·1	819·9	818·2	818·5	818·5
37	0	801·4	829·6	816·1	806·8	814·8	815·5	816·4	820·9	819·4	819·0	818·0
42	0	795·5	829·8	816·2	809·7	813·1	815·6	816·6	820·9	819·8	819·0	818·0
47	0	797·3	826·3	815·0	810·4	813·0	815·7	817·2	820·9	820·5	819·0	820·0
52	0	795·8	827·2	813·3	810·0	813·3	816·3	817·3	820·8	819·0	818·9	819·1
57	0	796·6	826·9	814·0	810·0	812·5	815·1	818·4	821·0	818·0	819·0	818·5
Thermometer		59·8	59·7	59·3	59·0	59·2	59·4	59·5	59·5	59·7	59·5	59·4
		One Scale Division = ·000094 parts of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	57·4	55·9	56·9	58·1	58·2	54·7	52·4	49·7	50·0	50·0	50·0
8	0	60·7	56·2	56·7	58·1	57·6	54·7	52·3	49·8	49·9	50·0	50·0
13	0	61·3	56·2	56·3	58·9	57·2	54·7	52·3	49·7	49·9	50·0	50·0
18	0	59·8	57·1	57·2	58·9	56·5	54·3	52·0	49·3	50·4	50·0	50·0
23	0	58·9	57·3	57·2	59·2	56·2	53·7	51·7	49·3	50·4	50·0	50·0
28	0	58·5	57·1	57·1	59·5	56·0	53·7	51·7	49·3	50·4	50·0	50·3
33	0	58·0	57·3	56·8	59·4	56·0	53·1	51·7	49·8	50·1	50·0	50·3
38	0	57·1	57·3	56·8	59·3	55·7	53·0	51·1	49·6	50·0	50·0	50·3
43	0	56·6	57·3	57·2	59·3	55·1	53·0	50·9	49·6	50·0	50·0	50·3
48	0	55·9	57·0	57·4	58·7	55·2	52·7	50·7	49·5	50·0	50·0	50·8
53	0	54·9	56·9	57·4	58·6	55·0	52·5	50·2	49·5	50·0	50·0	50·7
58	0	54·9	56·9	57·5	58·4	55·0	52·4	49·9	49·5	50·0	50·0	50·7
Thermometer		59·4	59·7	59·5	59·1	59·5	60·0	61·0	61·3	62·0	62·5	61·5
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.		Barometer at 32°.	Thermometers.		Wind.		Weather.					
			Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.					
26	10	0	29·324	54·1	53·1	E.	0·5	Overcast with cir. and haze.				
	11	0	29·332	53·9	53·1	E.	0·5	Densely overcast. [moderate thunder, passing over from W.				
	12	0	29·322	52·4	51·8	E.	0·5	Densely overcast; smart showers of rain, accompanied with				
	13	0	29·278	53·2	52·5	E.	0·2	Densely overcast and light fog.				
	14	0	29·279	52·5	51·9	E.	0·2	Thick fog. [the horizon, with distant thunder; air close.				
	15	0	29·230	53·6	53·1	—	0·0	Densely overcast; incessant sheet lightning round the whole of				
	16	0	29·278	53·9	53·4	—	0·0	Densely overcast; incessant sheet lightning round the whole of				
	17	0	29·280	54·4	54·2	—	0·0	the horizon, with distant thunder; air close.				
	18	0	29·288	52·0	51·6	—	0·0	Densely overcast; incessant sheet lightning round the whole of				
	19	0	29·310	50·6	50·0	—	0·0	the horizon, with distant thunder; air close.				
	20	0	29·310	52·0	51·4	—	0·0	Densely overcast; incessant sheet lightning round the entire hori-				
	21	0	29·320	53·4	52·4	—	0·0	Densely clouded. [zon; distant thunder; air close; very dark.				
								Densely clouded.				

MAGNETICAL OBSERVATIONS.												May 26th and 27th.	
DECLINATION.						Angular Value of one Scale Division = 0'.721.							
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
128.1	130.1	131.2	133.6	134.1	134.0	130.4	128.0	121.6	118.3	115.9	117.4	120.2	
128.3	129.1	131.1	133.4	134.0	133.3	130.0	128.0	121.3	118.1	115.3	117.0	120.7	
129.0	131.2	132.2	133.5	134.0	132.8	130.0	127.8	120.8	118.0	115.2	117.4	120.8	
129.2	130.6	131.6	133.8	135.0	132.9	129.5	126.0	120.5	117.1	115.8	118.3	121.8	
129.6	130.6	131.6	133.7	134.8	132.3	129.9	126.0	120.3	116.8	115.9	119.0	121.9	
129.8	132.8	132.0	133.7	134.3	131.7	129.1	125.2	120.1	116.2	116.2	119.2	122.0	
130.0	133.7	132.4	134.0	134.9	131.9	127.4	124.1	118.9	116.1	116.4	119.7	122.3	
130.1	131.2	132.7	132.9	134.0	132.0	127.0	123.6	117.2	115.9	116.5	119.7	122.7	
130.8	130.2	132.7	134.0	133.2	132.2	126.9	122.6	118.5	116.1	116.4	119.4	123.1	
130.3	130.1	133.1	134.0	133.8	132.0	126.5	122.7	119.6	116.0	116.8	119.8	123.2	
129.8	131.3	133.1	134.4	133.9	131.9	125.9	122.1	119.5	116.0	116.8	119.8	123.3	
132.1	130.3	133.0	134.3	134.1	130.9	128.0	121.9	119.1	116.1	117.3	119.8	123.9	

HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fah. = .00027.	
819.0	817.8	810.8	809.9	808.9	807.9	803.3	804.3	807.9	815.4	819.0	825.2	823.6	
819.0	816.1	808.7	809.8	808.4	808.2	804.0	804.1	808.5	816.0	818.2	827.3	823.5	
818.7	818.0	811.2	809.7	809.1	807.2	803.7	804.0	809.1	816.2	819.0	829.7	824.5	
819.0	816.8	812.1	809.5	808.9	807.1	803.4	803.9	809.6	816.0	820.1	825.0	822.7	
819.2	813.9	812.2	809.1	808.5	807.5	803.5	802.3	809.9	815.0	822.0	822.1	822.0	
819.0	809.2	811.6	809.2	808.6	807.5	803.1	803.3	810.2	815.0	822.0	820.7	822.5	
819.6	811.1	811.8	809.0	807.9	807.2	804.9	803.5	811.2	815.0	822.2	820.8	823.2	
818.8	812.0	811.1	808.0	808.5	806.2	803.6	804.4	812.4	816.4	822.8	820.5	821.4	
818.9	811.8	810.6	808.8	807.6	805.8	803.7	804.2	814.4	818.0	823.2	820.2	818.7	
818.5	812.0	810.0	808.8	808.1	805.1	804.0	805.1	816.1	819.0	823.0	820.0	818.5	
813.7	812.0	810.1	808.6	808.2	803.0	803.9	806.6	816.1	820.5	823.7	819.3	819.1	
815.3	811.0	810.0	808.7	808.0	803.1	802.8	807.9	815.6	820.0	823.7	819.5	819.9	

VERTICAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fah. = .00007.	
50.7	51.8	52.3	53.0	53.1	52.8	52.8	52.1	51.7	51.0	51.4	52.1	54.2	
50.7	51.6	52.4	53.6	53.1	52.8	52.8	51.6	51.7	51.2	50.8	52.4	54.2	
50.7	51.6	52.9	53.1	53.0	52.8	52.8	51.6	51.6	51.2	50.8	52.4	54.0	
51.0	51.6	52.9	53.0	53.0	52.9	52.8	51.6	51.6	50.8	50.8	51.9	53.9	
51.0	51.6	52.9	53.0	52.9	52.9	52.8	51.5	51.2	50.8	51.8	51.9	53.5	
51.8	51.3	52.9	53.0	52.9	52.9	52.8	51.9	51.2	50.8	51.3	51.9	53.5	
51.4	51.7	53.9	53.1	52.9	52.9	52.8	51.9	51.2	50.8	51.3	52.2	53.5	
51.4	51.8	52.8	53.2	52.9	52.9	52.3	51.5	51.2	50.8	51.9	52.2	53.4	
51.4	51.8	53.2	53.2	53.0	52.7	52.4	51.5	51.2	51.0	51.8	52.4	53.3	
51.5	51.8	53.1	53.2	53.0	52.8	52.4	51.5	51.2	51.0	51.8	52.9	53.3	
50.9	51.8	53.1	53.2	52.9	52.8	52.1	51.5	51.0	51.4	51.6	52.9	53.3	
51.8	51.8	53.1	53.1	52.8	52.8	52.1	51.5	51.0	51.4	52.1	52.9	53.6	

\* At 27<sup>h</sup> 10<sup>h</sup> Thermometer of H. F. 59°.4; of V. F. 59°.5.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°		lbs.	Densely clouded; cir.-cum. and cum.-strat. Densely clouded; cir.-cum., cum.-strat. and haze. Densely clouded; cum.-strat. and haze. Densely clouded; cum.-strat. and haze. Densely clouded; cum.-strat., cir.-cum. and haze. Densely clouded; cum.-strat., cir.-cum. and haze. Densely clouded; cum.-strat. and haze. Densely clouded; cum.-strat. and haze. Clouded; cir.-cum., cum.-strat. and haze. Clouded; cir.-cum., cum.-strat. and haze. Densely clouded; cum.-strat. and haze. Densely clouded; cum.-strat. and haze. Densely clouded; cum.-strat. and haze.			
26	22	0	29.336	51.2	50.2	—	0.0				
	23	0	29.372	54.5	52.4	S. W.	1.0				
27	0	0	29.397	53.8	49.8	S. W.	1.0				
	1	0	29.428	53.1	49.7	S. W.	0.5				
	2	0	29.439	53.5	49.4	S. W.	1.0				
	3	0	29.447	55.5	50.8	W. S. W.	0.5				
	4	0	29.438	56.7	51.1	W. S. W.	1.0				
	5	0	29.445	56.4	50.5	W. S. W.	0.5				
	6	0	29.450	56.6	50.5	W. S. W.	1.0				
	7	0	29.480	56.4	50.6	S. W.	1.0				
	8	0	29.502	56.1	50.1	W. S. W.	1.0				
	9	0	29.522	55.7	49.9	W. S. W.	1.0				
	10	0	29.526	55.5	49.5	W.	1.0				

June 21st and 22nd.			MAGNETICAL OBSERVATIONS.												
Mean Göttingen Time.			Angular Value of one Scale Division = 0'·721.						DECLINATION.						
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .		
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		118·9	120·9	123·2	122·4	122·8	127·0	126·0	125·2	126·9	125·5	125·0		
5	0		118·9	121·3	122·9	122·4	122·8	126·0	126·0	125·1	126·7	126·4	124·8		
10	0		119·2	121·8	122·8	122·2	122·7	125·6	125·1	125·4	126·1	126·6	124·5		
15	0		119·9	121·8	122·8	122·9	123·0	125·2	124·0	125·8	126·4	126·3	125·1		
20	0		120·0	122·0	122·8	122·9	124·7	125·3	124·2	126·0	126·3	126·0	125·2		
25	0		120·0	121·8	122·6	123·0	125·7	126·0	124·8	126·2	126·4	126·1	125·7		
30	0		120·3	122·0	122·8	122·6	125·8	126·3	125·5	126·0	126·5	125·5	125·8		
35	0		120·5	122·2	122·7	122·6	126·0	126·7	125·8	125·9	126·4	125·4	126·2		
40	0		120·7	122·5	122·8	123·0	126·1	126·2	125·5	125·9	126·7	125·4	126·4		
45	0		120·9	122·8	122·4	122·9	127·0	126·2	125·2	126·0	126·8	125·3	126·0		
50	0		121·2	123·0	122·8	123·3	127·6	126·2	125·2	126·1	125·9	125·2	126·2		
55	0		120·8	123·2	122·8	123·0	127·4	125·9	125·5	126·7	125·6	125·0	126·0		
			One Scale Division = ·000099 parts of the H. F.						HORIZONTAL FORCE.						
M.	S.														
2	0		842·8	835·4	840·9	838·5	839·4	840·2	841·5	838·7	839·9	839·8	840·9		
7	0		843·3	839·8	841·7	837·4	839·6	839·9	841·3	837·9	840·0	839·8	841·5		
12	0		844·4	840·6	839·9	837·5	839·2	839·3	841·1	838·5	839·7	839·3	841·2		
17	0		842·8	840·6	840·1	837·8	838·6	839·0	841·0	838·7	839·9	839·8	841·2		
22	0		842·0	838·2	839·7	838·0	839·9	838·8	840·1	839·3	839·7	840·1	841·6		
27	0		841·3	837·1	839·1	839·5	841·0	840·3	840·0	840·0	839·8	840·2	841·2		
32	0		841·2	839·0	838·3	839·7	841·4	841·1	840·0	838·8	839·7	839·5	841·0		
37	0		840·8	839·0	839·6	839·7	841·3	842·4	840·0	838·2	839·5	838·7	840·2		
42	0		841·6	841·6	838·8	839·7	841·8	842·6	839·4	838·5	840·1	839·0	840·0		
47	0		841·0	842·2	838·8	838·5	840·2	841·9	838·8	839·2	840·3	839·0	840·0		
52	0		839·8	842·0	839·5	839·2	839·7	841·2	839·0	838·7	840·0	839·4	840·0		
57	0		836·0	841·2	839·1	839·5	840·5	841·0	838·6	839·1	840·0	839·9	839·8		
Thermometer			74·5	74·8	74·8	74·6	73·8	73·5	73·1	72·6	72·4	72·4	72·0		
			One Scale Division = ·000094 parts of the V. F.						VERTICAL FORCE.						
M.	S.														
3	0		31·0	29·5	30·8	30·5	30·6	29·2	29·7	30·7	29·4	28·9	29·9		
8	0		30·9	30·1	30·6	30·8	30·6	29·2	29·8	30·7	29·4	28·7	29·9		
13	0		31·0	30·3	30·4	30·8	30·2	29·2	30·1	30·4	29·4	28·7	29·9		
18	0		30·7	30·3	30·4	30·8	30·1	29·4	30·3	30·2	29·4	28·7	29·9		
23	0		29·9	30·2	30·5	30·7	30·1	29·4	30·3	30·2	29·5	28·7	29·6		
28	0		30·8	30·6	30·4	29·8	30·1	29·7	30·3	30·2	29·5	28·7	29·6		
33	0		30·1	29·5	30·6	30·8	30·0	29·7	30·3	29·8	29·5	29·4	28·8		
38	0		29·8	30·3	30·9	30·9	29·7	29·5	30·3	29·8	29·5	29·4	28·8		
43	0		30·0	30·6	30·6	30·9	29·1	29·5	30·6	29·6	29·5	29·9	28·6		
48	0		30·0	30·7	30·4	30·9	29·1	29·5	30·6	29·7	29·5	29·9	28·8		
53	0		29·9	30·7	30·7	30·8	29·2	29·5	30·6	29·7	28·9	30·2	28·6		
58	0		29·2	30·4	30·4	30·8	29·2	29·5	30·6	29·7	28·9	30·3	28·6		
Thermometer			72·7	73·1	73·2	73·2	73·3	73·5	73·0	72·7	73·2	73·2	72·5		
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.															
METEOROLOGICAL OBSERVATIONS.															
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.							
				Dry.	Wet.	Direction.	Force.								
D.	H.	M.	In.	°	°		lbs.	Light cir.-strat. and haze round horizon; zenith clear; fair. Unclouded, but hazy; fair. Unclouded; hazy round horizon; fair. Haze and light strat. round horizon; zenith clear; fair. Haze round horizon; remainder clear. Haze round horizon; remainder clear. Clear and unclouded. Clear and unclouded. Clear and unclouded. Clear and unclouded. Clear and unclouded. Clear and unclouded.							
21	10	0	29·712	78·9	72·2	S.	0·5								
	11	0	29·696	77·7	69·7	S.	0·5								
	12	0	29·696	79·2	69·5	S.	0·5								
	13	0	29·694	75·8	66·7	S.	0·5								
	14	0	29·683	70·2	63·8	S.	0·2								
	15	0	29·679	69·4	64·1	—	0·0								
	16	0	29·671	66·9	62·9	—	0·0								
	17	0	29·669	64·7	62·4	—	0·0								
	18	0	29·658	70·7	64·2	S.	0·5								
	19	0	29·663	61·2	59·5	S.	0·2								
	20	0	29·665	59·4	58·0	—	0·0								
	21	0	29·670	58·4	57·4	—	0·0								

MAGNETICAL OBSERVATIONS.													June 21st and 22nd.	
DECLINATION.						Angular Value of one Scale Division = 0.721.								
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.		
126.5	127.2	129.6	130.0	130.8	131.1	130.0	127.6	124.2	121.0	118.3	117.5	118.1		
126.7	127.7	129.7	130.0	130.9	131.0	129.8	126.9	123.8	120.8	118.4	117.5	118.2		
126.5	127.8	129.2	130.0	130.9	130.8	129.3	126.2	123.9	120.5	118.2	117.5	118.5		
126.8	127.9	129.2	130.0	131.0	130.1	129.2	126.2	123.2	120.4	118.2	117.8	118.6		
127.0	128.0	130.0	130.2	131.3	130.3	129.2	125.9	123.1	120.4	118.0	117.8	118.6		
127.0	128.0	129.5	130.2	131.6	130.8	129.2	125.8	123.0	120.2	117.8	117.8	119.0		
127.0	128.0	129.8	130.5	131.8	131.1	128.8	125.8	122.7	120.2	117.8	118.0	119.0		
127.0	128.1	129.5	130.7	136.6	131.1	128.8	125.2	122.2	119.8	117.5	118.0	119.0		
127.2	128.9	129.8	130.7	131.1	131.0	128.5	125.1	121.9	119.5	117.5	118.0	119.1		
127.3	128.8	130.0	130.7	131.0	130.4	128.6	125.1	121.5	119.4	117.5	118.0	119.1		
127.6	129.1	130.0	130.9	131.4	130.2	128.6	124.7	121.2	119.0	117.4	118.0	119.2		
127.5	129.8	129.8	130.9	131.5	130.0	127.9	124.8	121.1	118.8	117.4	118.0	119.6		

HORIZONTAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.	
839.2	842.0	843.0	844.0	843.3	840.9	835.8	835.1	834.9	839.0	843.1	846.2	846.0		
839.5	843.0	843.0	843.7	843.2	840.5	835.6	833.0	835.1	839.1	843.3	846.4	845.9		
839.3	843.0	844.0	843.7	842.8	840.3	835.9	833.0	835.0	839.3	843.9	847.8	845.9		
839.6	843.0	843.1	843.3	842.8	839.9	835.0	833.2	835.2	839.2	844.4	847.1	844.8		
840.0	843.0	843.5	843.6	842.3	839.5	834.7	833.2	836.0	840.0	844.4	847.3	845.0		
840.0	843.0	844.0	843.7	842.1	839.3	834.7	833.8	836.7	840.0	844.8	847.0	845.6		
840.0	843.8	844.0	844.0	842.3	838.7	834.5	833.9	836.5	840.9	845.0	848.0	845.1		
840.0	844.0	844.0	844.0	841.9	837.9	834.4	833.6	837.0	841.8	845.1	848.0	845.0		
841.0	844.0	844.0	844.0	841.5	837.4	834.3	833.8	837.6	842.3	845.3	848.0	845.0		
841.0	843.1	844.0	843.4	841.3	837.1	834.8	834.0	838.0	842.4	845.7	847.5	845.9		
841.7	843.0	844.0	843.6	840.9	836.9	835.1	833.9	838.5	842.4	846.0	847.0	844.6		
842.0	843.0	844.0	843.3	841.0	836.1	834.8	834.6	838.8	843.1	846.7	847.0	844.1		

VERTICAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.	
29.2	32.1	35.3	34.9	33.5	32.9	31.6	30.3	29.3	28.8	29.2	27.8	27.6		
29.5	32.1	35.3	34.9	33.5	32.9	31.4	30.3	29.3	28.5	29.2	27.6	27.6		
29.5	32.5	35.6	34.9	33.3	32.8	31.2	30.3	29.3	28.5	28.9	27.6	27.6		
29.5	32.5	35.6	34.9	33.3	32.8	31.2	30.3	29.3	28.5	28.8	27.6	27.7		
29.5	33.2	35.6	34.9	33.3	32.8	30.9	30.2	29.2	28.7	28.8	27.6	27.8		
30.3	33.2	35.6	34.4	33.3	32.4	30.9	30.1	29.2	28.7	28.6	27.6	27.7		
30.7	34.1	35.6	34.4	33.3	32.4	30.8	29.9	29.2	29.1	28.3	27.6	27.7		
30.7	34.1	35.6	34.4	33.3	32.3	30.6	29.7	29.2	29.1	28.1	27.6	27.7		
31.3	34.6	35.6	34.1	33.0	32.2	30.6	29.5	29.1	29.0	28.1	27.6	27.7		
31.5	34.6	35.6	34.1	33.0	32.1	30.6	29.5	28.8	29.0	28.0	27.6	27.7		
31.5	35.0	35.6	33.6	33.0	31.8	30.3	29.5	28.8	29.0	28.2	27.6	27.7		
31.5	35.3	35.9	33.6	33.0	31.6	30.3	29.3	28.8	29.2	28.2	27.6	27.7		

<sup>a</sup> At 22<sup>h</sup> 10<sup>h</sup> thermometer of H. F. 76°·6; of V. F. 75°·3.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
21	22	0	29.669	56.6	55.6	—	0.0	Unclouded; hazy.				
	23	0	29.677	55.6	55.8	—	0.0	Unclouded; hazy.				
22	0	0	29.683	59.8	59.0	—	0.0	Unclouded; hazy.				
	1	0	29.675	65.0	62.1	S.	0.2	Unclouded; hazy.				
	2	0	29.666	67.6	64.5	S.	0.2	Unclouded; hazy.				
	3	0	29.660	67.9	64.5	S.	0.5	Light cir. in S.; remainder hazy; fair.				
	4	0	29.651	71.9	67.3	S.	0.5	Flexuous cir. scattered; hazy; fair.				
	5	0	29.644	73.7	68.4	S.	0.5	Flexuous cum. along N. horizon; fair.				
	6	0	29.631	73.7	68.4	S.	0.5	Flexuous cum. along N. horizon; fair.				
	7	0	29.598	78.2	71.2	S.	0.5	Flexuous cum. along N. horizon; fair.				
	8	0	29.592	78.8	71.5	S.	0.5	Cir. and cir.-cum. generally round horizon; fair.				
	9	0	29.566	81.6	71.8	S.	0.5	Hazy; light cir. and dense haze round horizon.				
	10	0	29.551	81.4	70.6	S.	0.5	Hazy; light cir. and haze on S. horizon.				

July 19th and 20th. MAGNETICAL OBSERVATIONS.												
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.721.						DECLINATION.				
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	121.0	123.7	125.8	125.9	125.1	125.5	126.5	127.5	125.6	125.0	125.0
5	0	120.8	124.0	125.6	125.9	125.0	125.6	127.1	127.1	125.5	125.0	125.5
10	0	121.0	125.0	125.7	125.8	125.1	125.9	127.8	127.9	125.1	125.0	125.8
15	0	121.3	125.3	126.2	125.5	125.3	126.0	128.4	128.0	124.7	125.0	126.0
20	0	121.8	125.6	126.1	125.4	125.9	126.2	128.8	128.2	125.1	125.2	126.0
25	0	122.1	125.5	126.2	125.4	125.9	126.2	129.2	127.5	125.1	125.0	126.1
30	0	122.7	126.0	125.8	125.6	125.7	126.2	129.4	127.3	125.0	125.1	126.0
35	0	122.8	126.0	125.7	125.6	125.5	125.7	128.1	128.0	125.2	125.0	125.8
40	0	122.9	126.0	125.5	125.4	125.3	126.4	128.8	127.3	125.4	124.1	126.0
45	0	123.0	126.0	125.5	125.6	125.8	126.9	128.4	126.5	125.1	123.5	125.5
50	0	123.0	126.1	125.5	125.1	125.7	127.2	127.5	125.9	125.0	123.8	125.0
55	0	123.3	126.1	125.3	125.0	125.6	126.3	127.6	126.0	125.0	124.0	124.6
One Scale Division = .000099 parts of the H. F. HORIZONTAL FORCE.												
M.	S.	904.5	907.1	901.3	901.7	901.6	900.6	895.0	893.5	899.9	903.4	905.6
7	0	904.1	908.6	901.0	902.0	901.7	900.9	895.9	892.7	900.8	904.0	906.5
12	0	904.6	908.9	901.9	901.9	901.1	901.0	896.0	893.4	901.0	904.3	905.0
17	0	905.1	909.1	902.1	902.5	903.0	900.7	895.3	894.7	901.5	904.8	905.5
22	0	906.4	908.1	901.8	902.3	903.1	900.0	894.3	895.1	902.8	906.6	906.8
27	0	905.9	909.0	901.2	902.7	903.0	901.1	893.8	895.5	902.7	905.3	907.1
32	0	906.2	906.7	900.6	903.2	902.0	901.9	894.8	895.8	902.4	906.8	905.3
37	0	905.9	905.9	900.7	903.0	901.8	900.4	894.2	899.2	903.0	906.1	906.9
42	0	905.9	904.0	900.7	903.7	902.1	899.9	894.0	899.6	903.8	906.3	906.6
47	0	905.2	903.9	900.8	902.6	903.0	900.7	894.8	899.8	903.0	905.8	907.0
52	0	905.0	902.9	901.6	901.4	901.5	898.4	893.4	899.6	902.9	907.0	906.0
57	0	905.8	902.1	901.4	902.1	899.9	897.3	893.2	900.4	903.5	905.6	906.5
Thermometer		72.3	72.6	72.6	72.1	71.3	70.9	70.2	69.5	68.6	68.0	67.5
One Scale Division = .000094 parts of the V. F. VERTICAL FORCE.												
M.	S.	30.3	30.4	30.4	30.6	29.5	28.7	28.9	28.8	30.0	30.5	31.3
8	0	30.3	30.4	30.4	30.6	29.5	28.7	29.3	28.8	30.2	30.5	31.3
13	0	30.3	30.7	30.4	30.6	29.0	28.7	29.3	28.8	30.1	30.5	31.3
18	0	30.3	30.7	30.4	30.6	28.9	28.7	29.3	28.8	30.1	31.1	31.3
23	0	30.3	30.6	30.4	30.6	28.8	28.7	29.3	28.8	30.1	31.1	31.3
28	0	30.5	30.6	34.4	30.6	28.8	28.7	29.1	28.8	30.1	31.1	31.3
33	0	30.5	30.6	30.4	30.6	28.7	28.9	29.1	29.1	30.1	31.1	31.7
38	0	30.5	30.4	30.4	30.6	28.7	28.9	29.1	29.8	30.1	31.1	31.7
43	0	30.5	30.4	30.3	30.6	28.7	28.9	28.8	30.0	30.2	31.3	31.7
48	0	30.5	30.4	30.3	30.1	28.7	28.9	28.8	30.0	30.2	31.3	31.7
53	0	30.4	30.4	30.3	29.8	28.7	28.9	28.8	30.0	30.4	31.3	31.7
58	0	30.4	30.4	30.6	29.8	28.7	28.9	28.8	30.0	30.5	31.3	31.7
Thermometer		71.2	71.4	71.3	71.0	71.0	71.5	70.9	70.7	70.1	69.3	68.7
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
19	10	0	29.603	69.8	55.6	N. by E.	1.0	Clear and unclouded.				
	11	0	29.583	70.7	56.0	N. N. E.	0.5	Clear and unclouded.				
	12	0	29.611	71.0	57.8	N. by E.	0.5	Clear and unclouded.				
	13	0	29.625	65.8	55.1	N.	0.2	Clear and unclouded.				
	14	0	29.638	59.4	51.0	N.	0.5	Clear and unclouded.				
	15	0	29.650	56.2	48.8	N.	0.5	Clear and unclouded.				
	16	0	29.659	54.8	48.0	N.	0.5	Clear and unclouded.				
	17	0	29.662	53.6	47.6	N.	1.0	Clear and unclouded.				
	18	0	29.675	52.8	47.8	N.	0.5	Clear and unclouded.				
	19	0	29.668	51.8	47.8	—	0.0	Clear and unclouded.				
	20	0	29.677	51.4	47.8	—	0.0	Clear and unclouded.				
	21	0	29.679	50.4	47.0	—	0.0	Clear and unclouded.				

MAGNETICAL OBSERVATIONS.													July 19th and 20th.	
DECLINATION.						Angular Value of one Scale Division = 0'.721.								
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.		
124.0	125.7	129.1	131.2	131.3	131.9	130.2	126.8	122.5	118.2	116.2	116.8	118.8		
124.0	126.4	130.0	131.3	131.4	131.9	130.0	126.8	121.5	118.0	115.8	116.9	118.9		
124.0	126.8	130.1	131.1	131.5	132.0	129.4	126.3	121.4	117.8	115.7	117.0	119.1		
124.2	126.9	130.2	131.3	131.7	132.0	128.9	126.2	120.7	117.7	115.8	117.0	119.3		
124.0	127.0	130.3	131.3	131.8	132.0	128.5	126.1	120.5	117.6	115.7	117.0	119.7		
124.3	127.1	131.0	131.3	131.6	132.0	128.1	125.4	120.2	117.0	115.5	117.1	119.9		
124.9	128.0	131.2	131.2	131.4	131.8	127.9	125.2	120.4	117.0	115.9	117.2	120.1		
125.2	127.9	131.2	131.7	131.3	131.7	127.9	124.5	119.3	117.1	116.0	117.8	120.2		
125.1	128.0	132.0	131.9	131.6	131.2	128.0	124.1	119.1	117.0	116.1	118.0	120.7		
125.2	128.2	132.3	131.8	132.1	131.0	127.4	123.6	119.0	116.8	116.2	118.0	121.1		
125.5	128.2	132.3	131.6	132.1	130.9	127.2	123.2	118.4	117.8	116.5	118.2	121.8		
125.9	127.9	131.9	131.9	131.8	130.6	126.7	122.6	118.1	117.6	116.5	118.4	121.9		

HORIZONTAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fahr. = .00027	
905.9	906.0	906.9	909.4	908.7	904.8	903.0	896.3	895.8	901.4	905.0	908.0	913.7		
906.6	906.7	904.9	910.0	908.2	904.3	902.9	896.1	896.6	901.6	905.9	907.9	913.9		
906.5	905.8	905.5	909.8	907.7	903.9	902.5	895.4	896.7	901.0	905.6	909.1	914.1		
906.5	906.4	906.7	909.7	907.3	904.0	902.3	894.9	897.0	902.0	905.3	909.3	914.2		
906.3	905.8	904.7	909.7	907.6	903.2	901.8	894.8	897.7	904.5	906.0	909.0	914.9		
906.9	906.3	907.1	909.7	907.0	902.9	901.1	894.5	898.4	903.8	906.3	909.8	914.7		
906.1	907.2	908.2	909.7	906.9	902.5	900.3	895.0	898.5	904.0	906.5	910.5	914.2		
906.5	907.4	908.6	909.7	906.5	902.4	900.1	895.0	899.0	904.0	907.0	911.0	914.1		
906.3	907.3	907.4	909.7	905.6	901.8	900.0	894.7	899.5	904.8	908.0	911.1	914.5		
905.4	907.0	908.5	909.8	905.5	901.9	898.5	894.6	900.0	905.3	908.0	911.1	915.8		
906.3	909.0	907.8	909.2	905.3	902.2	897.7	895.1	900.3	905.1	908.0	911.4	915.9		
906.3	907.5	909.6	909.2	904.6	902.5	897.0	895.8	900.8	904.9	908.0	912.7	915.1		
67.0	66.6	65.6	66.0	66.5	67.5	68.1	68.5	68.8	69.0	68.8	69.0	69.3		

VERTICAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.	
31.7	31.9	33.8	34.1	33.5	33.2	32.7	31.7	31.5	32.0	32.5	33.2	33.6		
31.7	31.8	33.9	33.8	33.5	33.2	32.6	31.7	31.5	32.0	32.5	33.2	33.6		
31.7	31.8	34.5	33.8	33.5	33.2	32.6	31.7	31.5	32.0	32.8	33.2	33.6		
32.0	32.0	34.4	33.5	33.5	33.1	32.5	31.7	31.5	32.0	32.8	33.4	33.6		
31.7	32.2	34.3	33.5	33.5	33.1	32.3	31.7	31.5	31.8	32.8	33.4	33.6		
31.6	32.2	34.2	33.5	33.5	33.1	32.3	31.7	31.5	32.0	32.9	33.5	33.4		
31.5	32.2	33.7	33.5	33.5	33.1	32.2	31.7	31.5	32.0	33.0	33.5	33.4		
31.5	32.2	34.2	33.5	33.5	32.8	32.2	31.7	31.5	32.1	33.0	33.5	33.4		
31.5	32.3	34.2	33.5	33.5	32.7	32.1	31.6	31.7	32.1	33.0	33.5	33.4		
31.4	33.0	34.5	33.5	33.5	32.7	32.0	31.6	31.8	32.3	33.2	33.5	33.4		
31.8	33.7	34.3	33.5	33.2	32.7	31.9	31.5	31.8	32.1	33.2	33.5	33.2		
31.9	33.7	34.1	33.5	33.2	32.7	31.9	31.5	31.8	32.7	33.2	33.5	33.1		
68.2	67.9	66.5	66.9	66.8	67.2	67.4	67.6	68.0	68.2	68.3	68.3	68.5		

\* At 20<sup>d</sup> 10<sup>h</sup> thermometer of H. F. 69°.8; of V. F. 68°.8.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°		lbs.					
19	22	0	29.702	49.0	45.7	N. N. W.	0.2	Clear in zenith; hazy round horizon.				
	23	0	29.723	45.9	44.2	N. N. W.	0.2	Clear and unclouded.				
20	0	0	29.725	49.3	46.9	—	0.0	Clear and unclouded.				
	1	0	29.735	53.7	49.2	N. by E.	0.2	Clear and unclouded.				
	2	0	29.749	57.6	51.1	N.	0.2	Clear and unclouded.				
	3	0	29.752	59.5	51.2	N.	0.2	Clear and unclouded.				
	4	0	29.744	61.4	52.1	N.	0.2	Clear and unclouded.				
	5	0	29.728	62.8	54.6	S. E.	0.5	Clear and unclouded.				
	6	0	29.714	63.8	57.0	S. E.	1.0	Clear and unclouded.				
	7	0	29.702	65.9	57.9	S.	2.0	Clear and unclouded.				
	8	0	29.694	65.6	58.4	S.	1.0	Clear and unclouded.				
	9	0	29.671	68.1	59.2	S.	1.0	Clear and unclouded.				
	10	0	29.659	71.1	60.8	S.	0.5	Clear and unclouded.				



August 25th and 26th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'·721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		122·2	124·7	125·2	123·9	124·0	130·2	135·0	122·0	123·4	118·7	117·4
5	0		122·1	124·3	125·1	123·7	123·8	134·0	136·0	121·6	122·2	119·7	119·6
10	0		122·6	124·1	124·3	123·3	123·8	135·0	135·1	122·0	122·0	122·1	121·1
15	0		122·8	125·0	124·1	123·1	123·3	135·6	132·6	122·2	121·0	123·0	121·7
20	0		122·9	124·9	123·7	123·9	123·1	135·0	129·6	122·0	121·3	123·8	122·6
25	0		122·9	124·7	124·6	124·0	123·1	134·8	126·9	122·9	121·4	123·0	123·9
30	0		123·1	124·7	124·3	124·0	123·7	135·0	126·8	123·0	122·0	120·2	123·8
35	0		123·2	124·8	124·1	124·0	123·5	135·0	127·6	123·0	123·6	118·0	124·3
40	0		123·6	124·5	124·0	124·0	123·4	134·3	129·0	123·6	126·2	116·8	124·7
45	0		124·0	124·6	124·0	123·8	124·5	134·7	129·0	124·0	127·0	116·2	124·5
50	0		124·6	124·5	123·8	124·1	126·6	134·5	126·6	124·0	125·9	117·0	125·1
55	0		124·3	124·9	123·9	124·0	129·5	134·0	123·5	124·6	121·1	117·3	123·2
			One Scale Division = '000099 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		958·4	956·6	951·3	947·3	950·1	938·0	951·4	947·6	947·9	947·8	949·5
7	0		959·4	961·7	953·2	944·3	950·1	936·9	951·6	946·9	947·5	948·5	949·7
12	0		961·0	959·2	952·5	942·0	949·9	938·4	951·3	945·9	950·6	948·8	949·9
17	0		960·3	954·5	951·2	941·9	950·6	939·6	946·6	945·0	950·6	951·3	949·1
22	0		961·3	950·7	948·2	943·2	950·3	940·9	944·0	945·0	949·9	952·1	948·5
27	0		956·0	950·5	946·8	944·5	950·4	942·9	940·0	945·0	949·5	954·5	948·6
32	0		953·3	950·7	947·6	945·3	950·2	941·1	938·6	945·0	947·9	955·7	946·8
37	0		953·7	951·7	948·6	946·3	951·0	940·0	938·8	944·4	946·4	955·2	947·3
42	0		951·5	953·4	949·3	946·8	951·3	940·9	940·9	944·0	945·8	954·4	948·3
47	0		955·5	952·6	950·6	947·3	947·1	943·4	945·6	944·6	946·8	953·4	946·6
52	0		957·5	951·7	950·2	948·3	945·9	947·9	947·0	945·0	949·7	951·8	948·1
57	0		956·4	951·2	950·0	948·7	940·5	941·4	948·0	946·0	950·4	952·8	947·7
Thermometer			73·4	73·8	73·8	73·8	73·0	72·8	72·5	72·0	71·5	71·2	70·6
			One Scale Division = '000094 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		26·1	25·3	25·5	23·5	22·7	21·5	22·3	23·8	24·2	20·4	20·5
8	0		26·1	27·0	26·1	23·5	22·7	22·0	21·6	23·8	23·5	20·1	20·5
13	0		26·7	25·3	25·8	22·5	22·7	22·0	21·6	23·8	23·6	20·1	20·5
18	0		26·3	25·9	25·8	22·7	22·3	22·1	20·7	23·8	22·9	20·9	20·7
23	0		26·3	25·4	25·8	23·1	22·6	22·7	20·7	23·8	22·9	20·9	20·7
28	0		26·2	25·3	25·7	23·2	22·3	22·9	21·9	23·8	22·9	20·4	21·9
33	0		26·2	25·4	25·6	23·2	22·3	22·9	21·9	24·2	22·9	20·4	21·7
38	0		26·2	25·3	25·6	23·1	22·2	22·9	23·1	24·2	22·4	19·4	21·5
43	0		26·0	25·8	24·8	22·9	21·8	23·5	23·6	24·2	22·2	19·4	21·7
48	0		26·1	25·7	24·3	22·9	21·7	23·5	23·6	24·2	21·9	19·4	21·7
53	0		26·9	25·7	24·2	22·9	21·5	23·5	23·6	24·2	21·9	19·1	21·9
58	0		26·4	25·5	23·7	22·9	21·5	23·5	23·6	24·2	21·1	19·0	21·5
Thermometer			71·9	72·3	72·3	73·3	73·7	73·9	72·7	72·8	72·5	72·0	71·3
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
25	10	0	29·632	74·2	67·6	E. by S	0·5	Clouded; light cir., cir-cum. and haze.					
	11	0	29·641	72·8	68·4	E. by S.	0·5	Overcast; cir. and haze.					
	12	0	29·631	71·1	67·4	E. by S.	0·2	Overcast; light cir., strat. and haze.					
	13	0	29·631	67·8	65·8	—	0·0	Overcast; dense haze.					
	14	0	29·636	64·0	62·7	—	0·0	Overcast; dense haze.					
	15	0	29·639	62·2	61·0	—	0·0	Unclouded but hazy.					
	16	0	29·625	60·8	59·6	—	0·0	Clear and unclouded.					
	17	0	29·625	59·8	58·8	—	0·0	Clear and unclouded.					
	18	0	29·625	58·4	57·8	—	0·0	Clear and unclouded.					
	19	0	29·628	56·9	56·3	—	0·0	Clear and unclouded.					
	20	0	29·630	56·6	56·2	—	0·0	Clear and unclouded.					
	21	0	29·632	56·2	55·5	—	0·0	Zenith clear; hazy round horizon.					

MAGNETICAL OBSERVATIONS.												August 25th and 26th.			
DECLINATION.						Angular Value of one Scale Division = 0'.721.									
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .			
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.		
126.2	127.0	127.3	129.1	133.5	133.8	130.9	124.0	118.9	112.8	112.4	115.0	118.8			
126.2	126.2	128.1	129.0	134.7	134.3	130.8	124.0	118.1	112.7	112.7	115.5	119.0			
127.0	127.1	129.5	129.2	134.5	133.3	130.0	123.6	117.5	112.5	113.1	115.9	120.0			
127.5	125.8	129.7	129.3	134.4	133.8	130.0	123.0	117.0	112.2	113.2	116.2	120.8			
126.8	126.2	129.1	130.6	136.1	133.2	129.4	122.1	116.7	112.2	113.4	116.5	121.0			
126.0	125.1	128.2	131.0	135.8	132.6	129.0	122.0	115.9	111.9	113.6	117.0	121.5			
127.9	124.9	128.3	132.5	135.0	132.2	127.6	121.5	115.8	112.0	113.8	117.0	121.9			
127.4	125.0	127.9	132.7	135.3	132.1	127.0	121.0	115.6	112.0	114.1	117.2	122.1			
127.8	125.4	126.7	132.6	134.7	132.1	126.1	120.6	115.2	112.0	114.3	118.0	122.5			
128.0	125.6	127.3	134.1	134.4	130.6	126.6	120.0	114.3	112.2	114.8	118.0	122.8			
128.3	126.0	127.0	134.0	134.5	129.7	125.0	119.3	114.0	112.6	114.8	118.2	122.9			
126.1	126.3	128.2	134.8	134.5	129.8	125.0	119.0	113.2	112.2	115.0	118.4	123.0			
HORIZONTAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fah. = .00027.									
946.7	946.1	949.1	946.0	945.8	939.6	932.3	928.4	933.0	942.9	953.9	959.2	954.0			
947.4	945.5	948.1	946.0	947.6	938.5	931.5	928.8	934.1	944.0	955.0	959.3	951.0			
947.6	945.6	947.7	946.9	943.7	937.1	931.3	930.0	934.5	945.3	955.4	959.4	951.5			
948.6	943.7	949.0	948.1	943.9	935.9	930.6	930.0	935.1	946.9	955.9	961.6	956.9			
946.4	946.4	948.2	947.2	944.0	936.4	929.9	930.0	935.6	948.1	955.9	961.3	959.2			
945.2	946.2	947.1	948.6	943.7	935.5	928.4	930.0	936.8	948.8	956.4	960.9	959.0			
946.0	947.9	946.2	948.4	943.4	936.0	929.6	930.0	938.0	950.1	956.1	961.3	958.8			
946.2	949.1	943.0	948.9	942.2	936.0	928.9	930.3	938.9	950.3	956.8	961.3	957.0			
944.3	949.0	943.3	947.1	941.4	935.3	928.2	930.9	940.0	951.3	957.6	960.9	957.5			
943.5	949.1	944.6	947.4	941.5	934.1	928.7	930.8	941.0	951.9	958.5	958.3	958.5			
944.8	949.9	943.3	947.6	939.7	934.8	927.8	932.0	940.9	952.2	958.6	956.0	956.2			
941.0	948.2	944.5	947.4	940.0	931.9	928.0	932.5	941.6	952.7	959.3	954.8	955.6			
70.3	70.0	69.5	69.2	69.0	69.2	70.0	70.6	72.0	73.4	74.6	75.6	76.4 <sup>a</sup>			
VERTICAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fah. = .00007.									
21.9	23.3	26.2	28.0	28.4	27.9	26.4	26.5	26.1	24.5	23.4	23.6	23.2			
22.1	23.9	26.1	27.9	28.1	27.6	26.5	26.5	25.8	24.6	23.4	23.6	22.9			
22.4	23.9	26.1	29.3	27.9	27.6	26.5	26.5	25.8	24.1	23.4	23.6	22.9			
22.4	24.5	26.1	29.3	27.6	27.5	26.5	26.7	25.4	24.1	23.4	23.7	23.5			
22.0	24.5	26.2	29.6	27.6	27.5	26.5	26.7	25.4	24.1	23.1	23.7	23.5			
22.2	24.5	26.2	29.0	28.0	27.5	26.5	26.5	25.3	23.8	23.4	23.7	23.8			
22.6	23.9	26.9	29.0	28.0	27.5	26.5	26.5	25.3	23.8	23.4	23.7	23.7			
22.6	26.7	27.0	28.8	27.9	27.5	26.5	26.5	25.3	23.8	23.4	23.7	23.5			
22.5	26.7	27.4	28.8	27.9	27.2	26.5	26.5	25.3	23.5	23.4	23.6	23.5			
22.5	26.7	27.4	28.8	27.9	27.0	26.5	26.2	24.8	23.5	23.4	23.4	24.0			
22.9	26.7	27.4	28.8	27.9	27.0	26.5	26.1	24.8	23.5	23.6	23.2	23.5			
23.1	26.8	28.0	28.8	27.9	26.9	26.5	26.1	24.5	23.5	23.6	23.2	23.2			
71.5	71.5	70.7	69.5	69.5	69.5	69.9	70.3	70.8	72.1	73.3	74.1	74.9 <sup>a</sup>			
* At 26 <sup>d</sup> 10 <sup>h</sup> Thermometer of H. F. 76°·6; of V. F. 75°·3.															
METEOROLOGICAL OBSERVATIONS.															
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.							
				Dry.	Wet.	Direction.	Force.								
D.	H.	M.	In.	°	°		lbs.	Zenith clear; hazy round horizon. [rising from the ground. Cir. and light cir.-cum. in zenith; dense haze round horizon; a mist Bank of well-defined cir.-cum. from W. to N.E. altitude at centre about 55° Cir.-cum. in close arrangement in zenith; remainder cir. and haze. [hazy A clear space in zenith; remainder overcast with cir.-cum. and haze; Unclouded but hazy. Unclouded but hazy. Zenith hazy; cum-strat. and haze round horizon; fair. Generally light haze; light cir.-cum. and haze round horizon; fair. Generally overcast; light cir.-cum. and haze; fair. Overcast; light cir.-cum. and haze; air close; fair. Overcast; cir.-cum. and haze; air close; fair. Overcast; cir.-cum. and haze; fair.							
25	22	0	29.625	56.4	54.8	—	0.0								
	23	0	29.638	55.2	54.5	—	0.0								
26	0	0	29.651	55.6	55.2	—	0.0								
	1	0	29.657	61.0	60.2	—	0.0								
	2	0	29.667	66.0	63.5	—	0.0								
	3	0	29.667	69.7	65.8	—	0.0								
	4	0	29.673	72.4	68.2	—	0.2								
	5	0	29.676	74.2	69.6	S.	0.2								
	6	0	29.674	77.3	71.3	S.	0.2								
	7	0	29.666	80.8	72.3	S. E.	0.2								
	8	0	29.657	80.7	72.3	S. E.	0.2								
	9	0	29.651	81.2	73.3	S. E.	0.2								
	10	0	29.650	81.4	73.4	S. E.	0.0								

September 20th and 21st. MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.721.						DECLINATION.			
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	117.9	123.8	123.4	122.6	121.2	134.6	123.7	123.5	116.7	130.2
5	0	118.3	123.7	123.2	122.5	120.9	135.6	124.2	123.4	117.6	128.7
10	0	119.4	123.6	123.1	122.4	120.3	135.7	125.6	122.6	119.8	127.4
15	0	121.2	123.3	123.0	122.6	123.8	134.5	125.3	122.8	121.0	127.4
20	0	122.4	123.3	122.9	122.9	131.4	133.2	125.0	124.2	121.6	129.2
25	0	122.8	123.0	122.8	122.7	141.0	131.4	125.0	126.2	123.3	130.2
30	0	122.5	123.0	122.4	122.9	149.7	128.3	124.4	126.9	125.3	131.0
35	0	122.4	122.8	122.7	122.3	152.4	126.3	123.9	123.6	127.3	130.0
40	0	122.4	123.1	122.6	122.2	144.1	124.7	123.8	119.9	128.9	128.2
45	0	122.9	123.1	122.9	122.1	138.0	124.1	123.9	117.5	130.2	127.6
50	0	123.0	123.0	122.5	122.0	134.4	123.7	123.3	116.7	131.2	126.6
55	0	123.3	123.2	122.7	121.9	133.0	123.8	123.6	116.5	131.0	125.6
One Scale Division = .000099 parts of the H. F.											
M.	S.	975.9	981.4	982.0	980.9	980.2	974.4	977.6	978.8	983.7	978.0
2	0	974.8	980.7	981.7	979.4	980.5	972.9	976.2	977.4	979.8	977.9
7	0	971.5	980.9	981.3	979.3	981.2	974.2	976.0	978.8	977.0	975.1
12	0	971.8	980.5	981.7	981.0	971.3	974.9	975.8	979.4	978.7	972.0
17	0	972.3	980.9	981.5	983.6	959.6	974.0	974.3	981.5	977.7	970.9
22	0	974.7	980.5	981.8	984.8	953.6	973.6	973.7	986.6	976.5	969.8
27	0	976.7	981.4	981.8	983.6	946.0	973.4	973.6	992.9	979.1	969.9
32	0	976.0	980.6	983.0	982.7	950.2	974.7	974.3	992.8	977.1	970.2
37	0	978.1	981.5	981.8	982.0	967.4	974.5	976.3	989.7	978.3	974.5
42	0	977.1	981.7	982.5	981.5	976.6	975.1	977.2	988.5	979.0	974.5
47	0	977.9	982.0	982.5	981.3	976.9	975.6	979.1	986.1	977.7	976.0
52	0	978.8	982.0	982.6	981.4	978.7	976.2	979.4	984.3	977.9	975.9
57	0										
Thermometer		68.8	68.9	68.5	68.2	68.3	68.2	68.2	68.0	67.8	67.6
One Scale Division = .000094 parts of the V. F.											
M.	S.	29.6	29.1	28.2	26.3	26.4	25.8	26.9	26.6	21.4	18.9
3	0	29.6	28.7	28.1	26.3	26.9	25.8	26.7	26.5	20.6	19.2
8	0	28.7	28.7	28.1	26.3	26.6	26.0	26.6	26.6	19.9	19.8
13	0	28.7	28.6	28.1	26.3	25.6	26.4	26.6	26.6	19.9	19.8
18	0	28.7	28.7	27.8	26.4	25.9	26.8	26.4	26.1	19.9	21.2
23	0	28.7	28.7	27.4	26.4	26.5	26.8	26.3	25.4	20.0	21.3
28	0	29.4	28.4	27.3	26.4	26.5	27.0	26.7	23.9	18.9	21.6
33	0	28.9	28.4	27.1	26.4	27.8	27.0	26.7	22.5	17.9	21.6
38	0	29.1	28.4	27.1	26.4	24.4	27.1	27.0	22.0	17.9	25.2
43	0	29.0	28.4	26.9	26.4	25.8	27.1	27.0	22.1	18.9	25.5
48	0	28.9	28.4	26.7	26.4	26.4	27.0	26.7	21.9	18.9	25.3
53	0	28.9	28.4	26.7	26.4	26.4	26.8	26.6	21.6	18.9	25.7
58	0										
Thermometer		67.3	67.5	67.4	68.0	68.7	68.5	68.5	68.5	68.5	69.0
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.											
METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°		lbs.				
20	10	0	29.800	68.2	65.2	E.	0.2	Light cir. and cir.-strat. generally dispersed; fair.			
	11	0	29.789	64.9	62.9	E.	0.2	Cir.; cir.-strat. and haze generally; fair.			
	12	0	29.771	62.3	61.2	—	0.0	Overspread with cir.; cir.-strat. and haze.			
	13	0	29.768	60.8	60.2	—	0.0	Unclouded but hazy.			
	14	0	29.761	60.4	60.0	—	0.0	Clear and unclouded.			
	15	0	29.751	59.4	58.8	—	0.0	Clear; faint auroral light in N.			
	16	0	29.724	58.5	57.0	—	0.0	Haze round horizon; remainder clear.			
	17	0	29.710	57.6	57.2	—	0.0	Haze round horizon; remainder clear.			
	18	0	29.696	57.4	56.8	—	0.0	Haze round horizon; remainder clear.			
	19	0	29.668	57.4	57.0	—	0.0	Clear and unclouded.			
	20	0	29.659	58.6	58.2	—	0.0	Clear and unclouded.			
	21	0	29.655	58.6	58.2	—	0.0	Clear and unclouded.			

MAGNETICAL OBSERVATIONS.												September 20th and 21st.			
DECLINATION.						Angular Value of one Scale Division = 0'.721.									
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .			
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.		
124.4	131.0	116.5	129.2	133.8	132.0	130.3	126.3	121.4	114.6	114.6	116.9	119.0			
125.0	129.7	116.0	128.3	133.2	132.0	129.3	125.9	121.0	114.2	112.8	116.8	119.1			
125.0	127.6	116.2	129.0	132.5	130.8	130.1	125.5	121.4	114.1	112.4	116.4	119.5			
124.3	126.4	115.8	129.5	132.3	131.0	129.6	124.9	119.9	114.6	112.1	116.7	119.3			
124.2	126.2	118.3	128.5	133.3	131.8	130.9	124.6	119.9	114.8	112.5	117.0	120.0			
123.9	126.3	119.7	128.7	133.7	133.4	130.6	123.8	119.7	114.7	112.1	117.9	119.8			
123.3	126.1	120.5	128.9	133.3	132.7	131.0	122.1	118.9	114.6	110.6	118.8	120.3			
124.9	124.2	123.4	129.9	133.6	131.8	129.0	122.4	118.0	114.0	109.6	118.2	123.9			
127.0	122.6	123.6	129.1	133.6	130.2	127.6	122.1	118.6	114.1	110.0	118.8	124.2			
128.8	121.0	125.6	131.9	132.9	129.9	127.4	121.6	117.5	115.1	112.0	118.7	122.9			
130.3	119.7	127.1	132.8	131.7	129.8	126.9	123.1	117.1	115.8	114.7	119.3	122.0			
130.9	117.1	128.4	131.9	132.4	129.7	126.4	121.9	114.9	115.1	116.1	118.8	122.4			
HORIZONTAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.									
978.4	973.3	974.3	982.1	983.8	977.3	968.3	967.0	964.6	965.8	975.1	967.9	980.0			
978.6	973.7	977.4	981.2	982.4	975.8	968.8	967.4	964.2	968.1	970.1	969.2	980.5			
978.7	974.5	979.4	980.7	983.2	972.9	968.6	966.9	965.0	968.7	968.8	968.1	980.6			
978.7	975.9	979.9	982.2	981.2	971.6	968.4	965.7	964.2	969.8	969.9	971.0	982.7			
980.5	978.0	980.7	982.5	980.0	971.5	968.8	965.1	964.9	970.6	968.2	972.4	983.4			
981.7	977.7	979.9	983.1	980.0	969.1	965.8	963.7	963.9	970.8	971.9	976.1	983.6			
981.2	977.0	970.4	982.0	978.8	970.4	966.8	964.8	961.6	973.8	969.3	976.0	983.8			
979.8	974.1	981.4	986.3	977.9	971.1	965.2	965.1	962.6	974.2	966.4	974.8	983.8			
977.2	972.1	981.1	982.1	977.4	971.8	967.4	965.7	964.7	972.2	964.8	976.5	984.5			
975.0	971.0	980.8	982.5	978.2	973.4	865.3	965.5	964.2	977.7	964.3	980.7	984.8			
973.4	971.7	980.6	981.5	975.1	972.6	865.9	964.1	961.8	980.8	965.0	974.9	984.8			
972.9	972.5	980.5	979.6	976.6	970.5	866.2	963.8	962.6	980.8	967.7	975.4	982.6			
67.2	66.9	66.8	66.5	67.0	68.0	69.5	71.8	72.7	73.8	74.8	76.3	77.4 <sup>a</sup>			
VERTICAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.									
26.7	24.6	27.5	27.0	27.5	26.3	25.0	22.6	21.5	19.8	19.2	18.5	18.6			
26.7	24.9	27.7	27.7	27.5	26.7	25.0	22.1	21.0	20.3	18.8	18.5	18.6			
26.7	26.4	27.8	27.8	27.0	26.3	25.2	22.1	21.0	19.7	19.0	18.5	18.6			
26.7	26.3	27.9	27.8	27.0	26.3	24.3	21.7	21.0	19.6	19.2	18.5	18.6			
27.0	26.7	25.8	28.8	27.0	25.8	24.3	21.6	20.7	19.6	18.7	18.5	18.5			
27.0	26.5	25.8	28.8	27.0	26.0	24.1	22.2	20.7	19.6	19.1	18.5	18.5			
26.5	26.5	25.6	28.8	26.7	26.0	23.6	22.3	20.7	19.6	18.4	18.9	18.5			
26.5	26.5	26.3	28.8	26.8	26.5	23.6	21.6	20.6	19.6	18.4	18.9	18.6			
24.8	26.5	26.4	28.3	26.5	26.0	23.0	21.3	20.4	19.6	18.4	18.7	18.6			
24.7	26.7	26.4	28.4	26.3	26.0	22.8	21.3	20.0	19.6	18.0	18.7	18.6			
24.5	27.2	26.1	28.3	26.3	25.7	22.7	20.9	19.6	20.2	18.6	18.7	18.6			
24.5	27.2	27.0	27.5	26.3	25.1	22.9	21.1	19.8	19.9	18.5	18.6	18.4			
67.5	67.4	67.0	66.6	66.9	67.5	68.5	70.3	71.1	72.0	72.7	74.1	74.7 <sup>a</sup>			
<sup>a</sup> At 21 <sup>d</sup> 10 <sup>h</sup> Thermometer of H. F. 78°·2; of V. F. 75°·5.															
METEOROLOGICAL OBSERVATIONS.															
Mean Göttingen Time.			Barometer at 32°.		Thermometers.		Wind.		Weather.						
					Dry.	Wet.	Direction.	Force.							
D.	H.	M.	In.	°	°			lbs.	Clear and unclouded. Clear and unclouded. Hazy round horizon; remainder clear. Clear and unclouded. Cloudless, but hazy. Clear and unclouded. A few detached cir.-cum. scattered. Detached cir.-cum. scattered about. [fair. Partially clouded with dense well-defined cir.-cum. and cum.-strat; Partially clouded with dense well-defined cir.-cum. and cum.-strat.; fair. Partially clouded with dense well-defined cir.-cum. and cum.-strat.; Generally overcast; very dense cir.-cum. and cum.-strat. [fair. Densely overcast; very dense cir.-cum., cum.-strat. and haze.						
20	22	0	29.647	59.2	58.8	—	—	0.0							
	23	0	29.634	58.5	58.0	—	—	0.0							
21	0	0	29.650	61.4	61.4	—	—	0.0							
	1	0	29.637	65.0	64.8	—	—	0.0							
	2	0	29.621	67.0	67.8	—	—	0.0							
	3	0	29.605	72.8	72.8	S. S. W.	0.5	0.0							
	4	0	29.582	80.7	73.7	S. S. W.	1.0	0.0							
	5	0	29.567	82.6	74.5	S. S. W.	2.0	0.0							
	6	0	29.533	84.2	73.5	S. W.	3.0	0.0							
	7	0	29.516	85.3	73.7	W. by S.	5.0	0.0							
	8	0	29.505	86.3	74.1	W.	5.0	0.0							
	9	0	29.492	84.9	73.3	W.	5.0	0.0							
	10	0	29.530	77.6	72.2	W. by N.	5.0	0.0							

October 18th and 19th.		MAGNETICAL OBSERVATIONS.											
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.						DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	
M.	S.	S. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	124·2	124·3	125·1	124·3	126·5	132·4	139·3	129·2	127·0	123·7	125·0	
5	0	124·0	124·9	125·0	125·0	126·5	134·5	142·1	127·2	126·0	123·6	125·0	
10	0	124·4	125·8	125·6	125·6	126·6	137·6	144·5	127·0	125·0	123·8	125·0	
15	0	124·3	125·5	125·0	125·8	126·8	141·7	145·7	126·9	124·0	124·6	124·7	
20	0	124·8	124·9	125·5	125·2	126·8	144·9	145·4	126·0	123·2	125·6	124·5	
25	0	124·1	125·3	124·3	125·2	126·8	147·1	144·8	125·5	123·4	126·0	124·2	
30	0	124·2	125·7	124·9	125·6	128·0	148·9	142·7	124·7	124·0	125·5	124·8	
35	0	123·7	125·6	124·2	125·7	136·4	149·0	139·2	125·0	124·0	124·9	124·5	
40	0	124·1	124·8	124·3	125·8	137·0	147·1	139·0	125·7	123·8	124·0	124·8	
45	0	124·2	124·8	124·2	126·8	135·1	145·0	137·1	126·3	124·0	124·0	125·2	
50	0	125·2	124·3	124·4	127·0	134·4	143·0	135·1	126·8	124·0	124·0	125·4	
55	0	125·1	125·6	124·6	126·5	133·2	140·5	132·4	127·0	123·8	124·6	126·1	
		One Scale Division = '000087 parts of the H. F.						HORIZONTAL FORCE.					
M.	S.												
2	0	494·2	484·4	490·4	492·4	493·3	484·3	491·5	475·0	491·0	492·9	491·6	
7	0	493·6	489·9	490·8	492·3	492·9	483·2	488·0	476·0	491·9	492·6	490·8	
12	0	496·0	486·3	490·8	493·4	493·4	484·3	485·1	479·6	493·0	493·0	491·4	
17	0	496·6	487·3	492·7	493·5	493·2	489·0	482·5	481·0	493·0	491·1	491·9	
22	0	496·0	485·9	493·9	492·1	493·3	494·5	480·0	483·9	492·9	490·4	491·9	
27	0	493·6	488·0	493·1	492·1	489·7	498·8	477·1	486·9	492·3	490·5	492·4	
32	0	495·2	487·9	491·9	492·4	487·3	504·7	471·8	489·0	492·0	490·6	493·3	
37	0	494·2	489·2	492·0	494·5	487·0	506·5	467·9	490·9	492·2	491·4	493·5	
42	0	490·6	488·8	491·4	493·1	487·6	504·8	468·0	490·0	492·5	491·4	493·0	
47	0	495·1	488·8	492·0	493·1	486·4	501·0	470·1	490·0	492·0	492·1	493·7	
52	0	491·1	490·8	492·5	493·6	486·8	496·7	471·8	489·9	492·5	492·3	492·1	
57	0	487·8	489·7	493·6	493·4	486·4	493·0	475·0	490·6	493·0	492·4	492·6	
Thermometer		53·6	53·8	54·2	54·0	54·5	54·5	54·5	54·5	54·5	54·6	54·2	
VERTICAL FORCE.*													
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.		Thermometers.		Wind.		Weather.				
			In.	°	Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°	°	°	lbs.					
18	10	0	29·312	46·3	42·2	S.W. b. W.	1·0		Uniformly cir.-strat. and haze; dropping rain.				
	11	0	29·303	45·0	40·6	W. S. W.	0·5		Clouded with cum. and cir.-cum.				
	12	0	29·305	43·7	40·3	W. S. W.	0·2		Clouded with cum. and haze.				
	13	0	29·319	42·6	40·0	—	0·0		Densely clouded with cum.-strat. and haze.				
	14	0	29·337	41·8	38·8	—	0·0		Overcast with dense haze.				
	15	0	29·355	40·5	37·8	S.W. b. W.	0·2		Densely overcast; light haze.				
	16	0	29·376	37·8	37·0	—	0·0		Clear and unclouded.				
	17	0	29·410	37·2	35·6	—	0·0		Clear and unclouded.				
	18	0	29·434	34·4	33·6	—	0·0		Cir.-cum. to westward; remainder quite clear.				
	19	0	29·471	35·4	34·4	S.W. b. W.	0·2		Zenith clear; cir.-strat. and haze round horizon.				
	20	0	29·499	34·7	33·6	S.W. b. W.	0·2		Zenith clear; cir.-strat. and haze round horizon.				
	21	0	29·525	34·5	33·5	—	0·0		Zenith clear; cir.-strat. and haze round horizon.				

\* Vertical Force needle removed for temperature experiments.





MAGNETICAL OBSERVATIONS.												November 24th and 25th.	
DECLINATION.						Angular Value of one Scale Division = 0'.721.							
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
126.4	126.2	127.8	128.0	128.2	128.9	128.2	126.0	123.9	121.4	121.7	123.2	124.9	
126.4	126.9	127.5	127.9	128.4	128.5	127.5	125.7	123.4	121.6	121.8	123.3	124.8	
126.4	127.2	127.7	127.9	128.8	128.8	127.1	125.3	123.4	121.7	121.8	123.4	124.8	
126.0	127.2	127.7	127.9	129.1	128.6	127.4	125.2	123.1	121.8	121.9	123.5	124.8	
126.0	127.2	127.6	127.1	129.1	128.4	127.3	124.9	123.0	121.8	122.0	123.5	124.8	
126.0	127.0	127.9	127.5	128.9	128.3	126.9	125.0	122.5	121.7	122.0	123.8	125.0	
126.0	127.4	128.0	127.8	128.9	128.3	127.0	124.9	122.4	121.6	122.1	124.0	124.8	
126.0	127.5	128.0	127.8	129.2	127.9	126.9	124.3	122.2	121.4	122.3	124.3	124.9	
126.1	127.8	128.5	127.6	128.9	128.1	126.1	124.4	122.3	121.4	122.4	124.5	125.0	
126.7	127.9	128.3	127.6	128.4	128.2	126.2	124.3	122.1	121.1	122.4	124.5	125.0	
126.7	127.3	128.6	128.2	129.1	128.5	125.9	124.1	121.9	121.2	122.6	124.6	125.3	
126.2	127.5	128.0	128.2	130.0	128.3	125.7	124.1	121.5	121.4	123.0	124.8	125.4	

HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fah°. = .00027.	
501.0	502.8	504.0	504.0	502.3	497.8	493.9	490.7	492.4	493.8	497.7	502.3	504.2	
501.1	503.0	504.0	503.3	501.7	497.4	493.1	491.0	492.1	493.8	498.1	503.1	505.1	
501.9	503.5	504.0	503.0	501.3	497.0	494.0	491.0	492.8	494.4	498.9	501.9	504.8	
502.0	503.0	504.5	503.4	501.3	497.1	492.6	491.1	492.4	494.7	499.3	502.8	504.6	
502.0	504.0	503.9	503.2	501.5	496.7	492.1	490.5	492.7	495.1	499.9	502.2	504.5	
501.9	502.7	503.8	503.6	500.8	496.3	492.2	491.1	492.3	496.0	499.9	502.0	504.6	
502.0	502.9	503.8	503.2	500.0	496.0	492.2	491.5	493.0	496.9	499.6	503.9	505.2	
502.0	503.0	503.1	503.0	500.3	495.1	491.1	491.1	493.0	497.0	500.3	504.2	504.5	
502.6	503.0	504.0	503.2	500.7	494.9	490.6	491.3	493.6	497.9	500.7	503.4	505.2	
503.0	504.0	503.9	502.8	498.6	494.6	490.9	491.1	494.0	497.7	500.8	503.7	505.6	
503.0	503.5	503.7	502.6	497.1	493.3	490.7	491.2	494.0	497.6	501.5	504.0	505.6	
503.0	504.0	503.4	502.5	498.3	493.0	490.5	491.7	493.9	497.6	502.3	504.5	505.4	

VERTICAL FORCE.												
52.8	53.0	53.2	53.2	52.6	52.4	52.5	52.2	51.8	51.6	51.6	52.0	52.4 <sup>a</sup>

<sup>a</sup> At 25<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 52°·5.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
D.	H.	M.		Dry.	Wet.	Direction.	Force.				
24	22	0	In.	°	°	—	lbs.	Clear, save a few light cir.-cum. in N. and N. W. Clear and unclouded. Clear and unclouded. A few light cir.-cum. scattered about; fair. A few light cir.-cum. scattered about; fair. A few light cir.-cum. scattered about; fair. A few light cir.-cum. scattered about; fair. A few light cir.-cum. scattered about; fair. A few light cir.-cum. scattered about; fair. A few light cir.-cum. scattered about; fair. Clear and unclouded. Clear, save a few detached cir.-cum. in N. E. Clear, save a flexious cir. and cir.-strat. in zenith. Light flexious cir. and cir.-strat., generally dispersed.			
	23	0	29.756	32.4	30.4	—	0.0				
	0	0	29.756	29.8	29.6	—	0.0				
25	0	0	29.764	30.6	30.0	—	0.0				
	1	0	29.804	30.3	28.8	W.	0.2				
	2	0	29.817	31.2	29.4	W.	0.2				
	3	0	29.841	33.4	30.8	W.	0.2				
	4	0	29.861	35.5	32.0	W.	0.2				
	5	0	29.861	36.5	32.5	W.	0.5				
	6	0	29.847	37.5	32.7	W.	0.5				
	7	0	29.847	39.3	34.8	W.	0.2				
	8	0	29.841	40.4	35.4	S. S. W.	0.5				
	9	0	29.841	40.8	35.9	S. S. W.	0.2				
	10	0	29.849	39.9	35.4	S. S. W.	0.5				









**TORONTO, 1843.**

---

**METEOROLOGICAL OBSERVATIONS.**

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	2·473	2·391	2·372	2·352	2·296	2·260	2·206	2·179	2·192	2·213	2·243	2·251
	3	2·589	2·636	2·685	2·713	2·732	2·728	2·732	2·724	2·718	2·737	2·755	2·767
	4	2·773	2·764	2·765	2·751	2·723	2·693	2·660	2·650	2·643	2·639	2·657	2·655
	5	2·555	2·563	2·570	2·580	2·595	2·589	2·569	2·571	2·581	2·613	2·638	2·656
	6	2·686	2·696	2·691	2·675	2·666	2·636	2·589	2·548	2·527	2·512	2·496	2·492
	7	2·380	2·390	2·390	2·421	2·433	2·423	2·424	2·442	2·458	2·496	2·532	2·608
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	2·889	2·886	2·894	2·914	2·908	2·895	2·884	2·856	2·830	2·817	2·840	2·840
	10	2·579	2·501	2·572	2·561	2·561	2·538	2·518	2·498	2·506	2·522	2·557	2·571
	11	2·879	2·877	2·909	2·934	2·940	2·910	2·885	2·870	2·856	2·856	2·857	2·855
	12	2·669	2·673	2·683	2·653	2·608	2·590	2·536	2·528	2·508	2·480	2·458	2·426
	13	2·322	2·309	2·305	2·313	2·313	2·305	2·279	2·271	2·269	2·287	2·295	2·317
	14	2·391	2·399	2·402	2·393	2·390	2·378	2·354	2·347	2·347	2·372	2·387	2·402
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	2·980	3·016	3·066	3·090	3·106	3·120	3·108	3·092	3·098	3·094	3·128	3·116
	17	3·182	3·188	3·210	3·209	3·211	3·207	3·193	3·165	3·156	3·151	3·166	3·162
	18	3·059	3·067	3·077	3·073	3·069	3·056	3·025	3·000	2·988	2·982	2·980	2·969
	19	2·811	2·813	2·816	2·813	2·812	2·806	2·774	2·764	2·743	2·744	2·742	2·744
	20	2·875	2·891	2·901	2·917	2·927	2·923	2·891	2·883	2·880	2·851	2·846	2·826
	21	2·540	2·515	2·494	2·504	2·494	2·470	2·439	2·435	2·434	2·458	2·494	2·521
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	2·383	2·340	2·319	2·300	2·265	2·229	2·177	2·081	2·017	1·933	1·949	1·931
	24	1·869	1·889	1·952	1·982	2·035	2·043	2·061	2·071	2·117	2·169	2·209	2·229
	25	2·135	2·146	2·177	2·210	2·260	2·205	2·358	2·394	2·435	2·490	2·542	2·584
	26	2·874	2·888	2·892	2·916	2·920	2·913	2·880	2·893	2·856	2·832	2·825	2·810
	27	2·636	2·646	2·649	2·677	2·687	2·677	2·678	2·656	2·655	2·655	2·656	2·648
	28	2·588	2·612	2·634	2·648	2·674	2·682	2·672	2·670	2·676	2·692	2·705	2·723
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	2·684	2·680	2·675	2·648	2·628	2·591	2·548	2·520	2·497	2·490	2·465	2·451
	31	2·091	2·107	2·075	2·014	1·975	1·899	1·837	1·787	1·756	1·708	1·672	1·630
Hourly Means	2·6112	2·6109	2·6221	2·6254	2·6242	2·6102	2·5876	2·5729	2·5670	2·5690	2·5805	2·5840	
FEBRUARY.	1	1·948	1·993	2·047	2·060	2·068	2·084	2·087	2·070	2·061	2·074	2·076	2·099
	2	2·564	2·610	2·687	2·717	2·750	2·770	2·767	2·761	2·760	2·769	2·776	2·776
	3	2·643	2·653	2·683	2·678	2·687	2·686	2·662	2·653	2·654	2·665	2·685	2·716
	4	2·798	2·821	2·836	2·844	2·842	2·838	2·832	2·805	2·792	2·794	2·801	2·815
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	2·175	2·169	2·194	2·190	2·175	2·161	2·155	2·154	2·148	2·180	2·204	2·250
	7	2·513	2·526	2·597	2·648	2·678	2·703	2·705	2·601	2·703	2·722	2·745	2·756
	8	2·847	2·849	2·868	2·858	2·852	2·845	2·797	2·777	2·776	2·774	2·784	2·802
	9	2·961	2·982	3·012	3·016	3·029	3·028	3·018	3·011	2·994	2·992	3·004	3·002
	10	2·951	2·941	2·906	2·862	2·795	2·757	2·698	2·629	2·534	2·465	2·399	2·351
	11	2·116	2·190	2·281	2·326	2·375	2·403	2·413	2·433	2·432	2·446	2·452	2·454
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	2·807	2·826	2·878	2·894	2·893	2·888	2·870	2·873	2·859	2·860	2·862	2·874
	14	2·744	2·707	2·716	2·679	2·652	2·632	2·549	2·505	2·474	2·456	2·451	2·447
	15	2·307	2·315	2·315	2·322	2·311	2·308	2·283	2·260	2·257	2·269	2·290	2·317
	16	2·552	2·583	2·620	2·625	2·635	2·624	2·614	2·617	2·632	2·647	2·663	2·679
	17	2·708	2·709	2·735	2·735	2·729	2·719	2·696	2·672	2·664	2·671	2·680	2·691
	18	2·775	2·776	2·822	2·826	2·829	2·820	2·797	2·778	2·762	2·758	2·757	2·760
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	2·498	2·538	2·550	2·550	2·527	2·508	2·499	2·468	2·453	2·458	2·438	2·423
	21	2·218	2·215	2·204	2·184	2·170	2·165	2·157	2·142	2·135	2·147	2·152	2·170
	22	2·217	2·227	2·220	2·234	2·242	2·247	2·255	2·259	2·263	2·289	2·325	2·367
	23	2·499	2·507	2·534	2·549	2·544	2·544	2·543	2·545	2·538	2·529	2·515	2·538
	24	2·450	2·494	2·451	2·448	2·426	2·413	2·409	2·386	2·363	2·348	2·337	2·338
	25	2·295	2·295	2·285	2·282	2·265	2·248	2·233	2·196	2·182	2·199	2·224	2·250
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	2·439	2·450	2·498	2·511	2·543	2·588	2·607	2·604	2·618	2·649	2·666	2·680
	28	2·754	2·771	2·793	2·794	2·797	2·773	2·758	2·735	2·725	2·707	2·678	2·679
Hourly Means	2·5325	2·5478	2·5722	2·5763	2·5756	2·5730	2·5585	2·5389	2·5325	2·5362	2·5402	2·5514	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English Inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
—	—	—	—	—	—	—	—	—	—	—	—	—
2.268	2.288	2.314	2.332	2.328	2.347	2.363	2.395	2.417	2.448	2.503	2.547	2.3324
2.788	2.783	2.798	2.798	2.793	2.787	2.787	2.787	2.783	2.782	2.766	2.766	2.7472
2.654	2.666	2.657	2.656	2.647	2.643	2.611	2.599	2.595	2.581	2.546	2.551	2.6575
2.672	2.688	2.693	2.708	2.717	2.711	2.703	2.699	2.705	2.705	2.684	2.686	2.6438
2.483	2.480	2.466	2.444	2.423	2.413	2.365	2.365	2.375	2.374	2.354	2.357	2.5047
2.634	2.618	2.607	2.597	2.597	2.586	—	—	—	—	—	—	—
—	—	—	—	—	—	2.774	2.800	2.831	2.842	2.854	2.864	2.5834
2.830	2.820	2.792	2.761	2.749	2.745	2.674	2.665	2.643	2.623	2.585	2.581	2.7884
2.607	2.638	2.676	2.725	2.761	2.781	2.793	2.819	2.851	2.859	2.859	2.875	2.6553
2.842	2.834	2.820	2.796	2.787	2.772	2.755	2.743	2.733	2.713	2.695	2.682	2.8250
2.416	2.428	2.396	2.376	2.371	2.367	2.338	2.334	2.334	2.318	2.310	2.322	2.4634
2.335	2.331	2.354	2.368	2.369	2.375	2.375	2.385	2.393	2.389	2.395	2.393	2.3353
2.420	2.452	2.480	2.522	2.604	2.642	—	—	—	—	—	—	—
—	—	—	—	—	—	2.857	2.883	2.903	2.929	2.943	2.950	2.5478
3.116	3.138	3.144	3.144	3.146	3.148	3.144	3.148	3.152	3.174	3.168	3.156	3.1163
3.161	3.164	3.168	3.135	3.135	3.122	3.106	3.094	3.094	3.091	3.082	3.119	3.1530
2.961	2.960	2.946	2.945	2.927	2.909	2.911	2.879	2.861	2.841	2.824	2.826	2.9640
2.760	2.765	2.776	2.794	2.802	2.803	2.805	2.813	2.827	2.841	2.845	2.849	2.7942
2.796	2.797	2.777	2.759	2.731	2.715	2.688	2.652	2.644	2.606	2.580	2.556	2.7880
2.557	2.598	2.621	2.642	2.646	2.647	—	—	—	—	—	—	—
—	—	—	—	—	—	2.538	2.521	2.507	2.473	2.449	2.413	2.5171
1.916	1.921	1.925	1.919	1.914	1.906	1.884	1.878	1.882	1.887	1.883	1.881	2.0300
2.243	2.229	2.224	2.215	2.199	2.187	2.139	2.133	2.110	2.094	2.111	2.121	2.1096
2.604	2.666	2.697	2.701	2.742	2.774	2.781	2.800	2.837	2.840	2.859	2.863	2.5500
2.799	2.787	2.787	2.761	2.713	2.735	2.717	2.680	2.677	2.663	2.656	2.622	2.7957
2.663	2.677	2.647	2.601	2.608	2.597	2.569	2.568	2.566	2.604	2.591	2.559	2.6321
2.739	2.762	2.774	2.784	2.791	2.813	—	—	—	—	—	—	—
—	—	—	—	—	—	2.782	2.784	2.779	2.756	2.717	2.691	2.7145
2.433	2.413	2.380	2.356	2.330	2.314	2.294	2.256	2.256	2.229	2.205	2.171	2.4381
1.621	1.585	1.579	1.587	1.612	1.675	1.731	1.789	1.818	1.847	1.872	1.912	1.7989
2.5892	2.5957	2.5961	2.5933	2.5939	2.5967	2.6016	2.5995	2.6018	2.5971	2.5890	2.5866	2.5961
2.128	2.168	2.209	2.231	2.246	2.270	2.314	2.371	2.417	2.464	2.492	2.524	2.1875
2.770	2.752	2.759	2.755	2.745	2.734	2.711	2.704	2.711	2.692	2.682	2.654	2.7240
2.740	2.754	2.750	2.749	2.768	2.772	2.772	2.764	2.782	2.794	2.790	2.795	2.7206
2.829	2.823	2.795	2.766	2.734	2.716	—	—	—	—	—	—	—
—	—	—	—	—	—	2.063	2.081	2.097	2.105	2.135	2.155	2.6299
2.271	2.276	2.303	2.328	2.346	2.367	2.390	2.414	2.430	2.452	2.474	2.480	2.2786
2.772	2.806	2.812	2.840	2.842	2.848	2.847	2.841	2.847	2.852	2.842	2.848	2.7456
2.827	2.837	2.845	2.862	2.886	2.904	2.904	2.915	2.934	2.941	2.949	2.953	2.8577
3.026	3.046	3.050	3.074	3.078	3.061	3.053	3.047	3.043	3.029	3.003	2.979	3.0224
2.301	2.254	2.175	2.091	2.021	1.939	1.895	1.879	1.921	1.983	2.049	2.068	2.3693
2.475	2.482	2.478	2.487	2.486	2.482	—	—	—	—	—	—	—
—	—	—	—	—	—	2.797	2.791	2.795	2.810	2.820	2.797	2.5009
2.874	2.882	2.876	2.873	2.866	2.868	2.878	2.849	2.836	2.816	2.786	2.752	2.8558
2.447	2.429	2.389	2.391	2.364	2.345	2.324	2.330	2.322	2.324	2.316	2.302	2.4706
2.342	2.362	2.381	2.409	2.420	2.432	2.451	2.466	2.484	2.488	2.496	2.522	2.3670
2.690	2.705	2.719	2.731	2.719	2.714	2.716	2.715	2.712	2.707	2.713	2.720	2.6688
2.699	2.706	2.708	2.740	2.749	2.749	2.754	2.750	2.766	2.763	2.769	2.761	2.7218
2.766	2.760	2.746	2.735	2.716	2.712	—	—	—	—	—	—	—
—	—	—	—	—	—	2.425	2.437	2.458	2.470	2.480	2.490	2.6940
2.417	2.401	2.386	2.366	2.346	2.332	2.308	2.307	2.289	2.278	2.258	2.243	2.4100
2.179	2.205	2.218	2.232	2.246	2.259	2.247	2.229	2.229	2.213	2.213	2.215	2.1977
2.405	2.446	2.472	2.488	2.505	2.514	2.531	2.522	2.510	2.502	2.500	2.498	2.3766
2.552	2.562	2.559	2.569	2.562	2.541	2.528	2.510	2.498	2.461	2.455	2.464	2.5269
2.348	2.351	2.353	2.346	2.337	2.330	2.326	2.332	2.323	2.309	2.311	2.293	2.3676
2.282	2.288	2.308	2.328	2.338	2.366	—	—	—	—	—	—	—
—	—	—	—	—	—	2.447	2.440	2.438	2.403	2.406	2.407	2.3085
2.697	2.715	2.727	2.751	2.773	2.781	2.767	2.767	2.758	2.758	2.764	2.774	2.6619
2.677	2.682	2.671	2.673	2.668	2.650	2.639	2.635	2.631	2.623	2.591	2.580	2.6952
2.5631	2.5705	2.5704	2.5756	2.5734	2.5702	2.5453	2.5457	2.5513	2.5515	2.5539	2.5531	2.5566

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	2.561	2.572	2.573	2.566	2.578	2.567	2.555	2.535	2.533	2.531	2.525	2.535
	2	2.680	2.715	2.759	2.766	2.770	2.783	2.781	2.774	2.777	2.777	2.794	2.812
	3	2.897	2.903	2.913	2.911	2.904	2.898	2.899	2.885	2.880	2.874	2.865	2.880
	4	2.935	2.956	2.985	2.971	2.984	2.958	2.933	2.906	2.889	2.869	2.861	2.857
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	2.902	2.931	2.952	2.956	2.964	2.957	2.959	2.939	2.940	2.944	2.963	2.976
	7	3.045	3.064	3.066	3.073	3.087	3.063	3.040	3.006	2.982	2.971	2.947	2.942
	8	2.796	2.779	2.769	2.758	2.727	2.714	2.682	2.666	2.631	2.631	2.632	2.642
	9	2.834	2.837	2.848	2.880	2.894	2.891	2.893	2.871	2.865	2.840	2.843	2.835
	10	2.489	2.497	2.449	2.411	2.389	2.361	2.344	2.300	2.271	2.242	2.211	2.172
	11	2.381	2.415	2.454	2.513	2.548	2.574	2.598	2.628	2.643	2.679	2.698	2.713
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	2.547	2.543	2.521	2.502	2.489	2.471	2.440	2.403	2.390	2.380	2.368	2.364
	14	2.556	2.552	2.560	2.555	2.554	2.540	2.537	2.500	2.484	2.453	2.435	2.423
	15	2.182	2.231	2.298	2.314	2.340	2.376	2.414	2.438	2.481	2.517	2.553	2.578
	16	2.693	2.704	2.700	2.702	2.690	2.666	2.670	2.633	2.613	2.618	2.596	2.569
	17	2.305	2.291	2.291	2.289	2.274	2.261	2.257	2.246	2.237	2.242	2.241	2.270
	18	2.295	2.305	2.318	2.298	2.300	2.292	2.286	2.285	2.277	2.275	2.283	2.287
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	2.353	2.357	2.393	2.403	2.428	2.431	2.426	2.420	2.420	2.433	2.436	2.452
	21	2.504	2.502	2.508	2.500	2.492	2.483	2.457	2.437	2.419	2.407	2.400	2.397
	22	2.303	2.290	2.272	2.267	2.248	2.221	2.190	2.172	2.169	2.166	2.162	2.169
	23	2.293	2.303	2.298	2.296	2.278	2.268	2.264	2.246	2.264	2.277	2.291	2.318
	24	2.493	2.511	2.520	2.530	2.538	2.541	2.540	2.525	2.519	2.517	2.500	2.502
	25	2.451	2.435	2.413	2.400	2.379	2.369	2.351	2.338	2.326	2.316	2.335	2.377
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	2.854	2.850	2.808	2.755	2.762	2.749	2.714	2.667	2.647	2.598	2.554	2.515
	28	1.826	1.770	1.730	1.684	1.659	1.645	1.635	1.639	1.664	1.698	1.758	1.855
	29	2.495	2.519	2.533	2.543	2.549	2.560	2.546	2.537	2.538	2.539	2.539	2.570
	30	2.914	2.937	2.981	3.020	3.019	3.020	2.977	2.992	2.981	2.962	2.954	2.952
	31	2.753	2.739	2.685	2.693	2.654	2.610	2.594	2.568	2.538	2.528	2.504	2.500
Hourly Means	2.5680	2.5744	2.5780	2.5761	2.5740	2.5655	2.5560	2.5391	2.5325	2.5290	2.5277	2.5356	
APRIL.	1	2.587	2.607	2.639	2.662	2.676	2.682	2.691	2.698	2.707	2.720	2.732	2.764
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	2.938	2.940	2.940	2.954	2.958	2.951	2.931	2.914	2.891	2.871	2.861	2.862
	4	2.780	2.784	2.790	2.780	2.774	2.739	2.729	2.727	2.709	2.694	2.684	2.672
	5	2.606	2.608	2.613	2.613	2.614	2.612	2.601	2.582	2.571	2.563	2.558	2.560
	6	2.590	2.601	2.603	2.603	2.608	2.601	2.591	2.584	2.580	2.580	2.581	2.598
	7	2.684	2.717	2.714	2.717	2.697	2.666	2.634	2.616	2.547	2.516	2.483	2.453
	8	2.089	2.083	2.110	2.085	2.079	2.080	2.072	2.043	2.019	2.010	2.000	2.014
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	2.556	2.578	2.582	2.579	2.585	2.568	2.549	2.533	2.531	2.534	2.556	2.559
	11	2.648	2.666	2.674	2.675	2.658	2.636	2.623	2.612	2.587	2.569	2.553	2.548
	12	2.656	2.662	2.665	2.682	2.685	2.683	2.688	2.679	2.671	2.665	2.667	2.678
	13	2.665	2.673	2.675	2.677	2.686	2.685	2.694	2.690	2.682	2.682	2.674	2.678
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	2.524	2.540	2.538	2.540	2.521	2.510	2.502	2.498	2.487	2.477	2.478	2.474
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	2.720	2.742	2.747	2.740	2.729	2.722	2.718	2.708	2.696	2.671	2.659	2.667
	18	2.700	2.732	2.733	2.749	2.757	2.758	2.769	2.765	2.766	2.766	2.794	2.786
	19	2.824	2.826	2.838	2.842	2.850	2.836	2.818	2.827	2.824	2.803	2.812	2.813
	20	2.844	2.882	2.880	2.893	2.909	2.888	2.870	2.855	2.858	2.863	2.861	2.846
	21	2.878	2.890	2.873	2.877	2.861	2.838	2.811	2.788	2.775	2.746	2.725	2.717
	22	2.639	2.633	2.633	2.606	2.581	2.574	2.550	2.513	2.507	2.466	2.442	2.434
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	2.434	2.446	2.462	2.480	2.494	2.501	2.503	2.509	2.506	2.522	2.530	2.554
	25	2.615	2.642	2.626	2.630	2.608	2.585	2.560	2.562	2.530	2.515	2.492	2.476
	26	2.306	2.291	2.301	2.285	2.266	2.253	2.254	2.262	2.253	2.258	2.255	2.267
	27	2.281	2.322	2.322	2.327	2.341	2.377	2.363	2.382	2.373	2.396	2.415	2.429
	28	2.505	2.503	2.504	2.497	2.489	2.470	2.443	2.434	2.423	2.431	2.456	2.480
	29	2.727	2.756	2.767	2.776	2.758	2.749	2.733	2.727	2.712	2.688	2.661	2.642
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	2.6165	2.6302	2.6345	2.6362	2.6327	2.6235	2.6120	2.6045	2.5919	2.5836	2.5804	2.5821

<sup>a</sup> Good Friday.

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English Inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.555	2.555	2.556	2.576	2.580	2.586	2.588	2.597	2.611	2.619	2.644	2.665	2.5735
2.836	2.856	2.866	2.879	2.893	2.888	2.888	2.898	2.905	2.911	2.905	2.897	2.8254
2.876	2.884	2.895	2.893	2.888	2.894	2.950	2.953	2.953	2.947	2.936	2.920	2.9041
2.850	2.845	2.866	2.877	2.874	2.878	—	—	—	—	—	—	—
—	—	—	—	—	—	2.831	2.843	2.864	2.854	2.858	2.876	2.8925
2.998	3.012	3.007	3.003	3.005	3.015	3.039	3.038	3.018	3.010	3.026	3.036	2.9829
2.928	2.920	2.912	2.921	2.903	2.862	2.862	2.854	2.847	2.819	2.804	2.798	2.9465
2.656	2.680	2.690	2.694	2.704	2.721	2.746	2.759	2.765	2.778	2.788	2.810	2.7174
2.812	2.793	2.776	2.772	2.773	2.765	2.727	2.654	2.646	2.626	2.566	2.537	2.7824
2.148	2.136	2.133	2.125	2.143	2.173	2.187	2.216	2.248	2.280	2.318	2.345	2.2745
2.728	2.752	2.778	2.815	2.841	2.842	—	—	—	—	—	—	—
—	—	—	—	—	—	2.658	2.637	2.614	2.578	2.559	2.553	2.6337
2.384	2.414	2.438	2.465	2.475	2.492	2.505	2.518	2.521	2.525	2.531	2.539	2.4677
2.419	2.402	2.386	2.368	2.332	2.293	2.260	2.228	2.193	2.172	2.162	2.178	2.3976
2.604	2.628	2.659	2.663	2.670	2.673	2.682	2.686	2.693	2.687	2.682	2.704	2.5314
2.567	2.543	2.552	2.512	2.490	2.491	2.456	2.431	2.394	2.362	2.346	2.312	2.5546
2.291	2.296	2.300	2.310	2.302	2.301	2.297	2.289	2.288	2.285	2.289	2.293	2.2810
2.300	2.309	2.317	2.308	2.300	2.295	—	—	—	—	—	—	—
—	—	—	—	—	—	2.345	2.342	2.334	2.335	2.345	2.348	2.3075
2.470	2.496	2.522	2.531	2.531	2.539	2.532	2.525	2.498	2.492	2.492	2.492	2.4613
2.400	2.403	2.413	2.400	2.392	2.380	2.371	2.353	2.341	2.335	2.332	2.309	2.4140
2.134	2.193	2.210	2.211	2.219	2.237	2.232	2.246	2.277	2.277	2.286	2.283	2.2285
2.318	2.328	2.336	2.353	2.351	2.360	2.384	2.397	2.408	2.422	2.448	2.471	2.3322
2.492	2.493	2.501	2.506	2.512	2.504	2.501	2.483	2.465	2.464	2.462	2.449	2.5028
2.403	2.438	2.469	2.504	2.520	2.538	—	—	—	—	—	—	—
—	—	—	—	—	—	2.944	2.936	2.905	2.902	2.882	2.876	2.5336
2.478	2.440	2.394	2.327	2.290	2.209	2.132	2.074	2.019	1.945	1.905	1.873	2.4400
1.921	1.991	2.065	2.106	2.153	2.216	2.239	2.303	2.361	2.402	2.441	2.449	1.9671
2.601	2.625	2.657	2.689	2.709	2.725	2.748	2.783	2.818	2.847	2.873	2.876	2.6425
2.934	2.951	2.945	2.928	2.929	2.911	2.885	2.869	2.849	2.829	2.793	2.757	2.9287
2.477	2.464	2.454	2.444	2.442	2.424	2.440	2.461	2.474	2.504	2.536	2.567	2.5439
2.5419	2.5499	2.5591	2.5622	2.5637	2.5634	2.5714	2.5694	2.5670	2.5632	2.5633	2.5634	2.5580
2.797	2.819	2.837	2.853	2.845	2.848	—	—	—	—	—	—	2.7731
—	—	—	—	—	—	2.887	2.895	2.900	2.894	2.900	2.914	2.8738
2.877	2.871	2.874	2.854	2.829	2.822	2.824	2.828	2.811	2.798	2.789	2.782	2.8738
2.658	2.654	2.654	2.656	2.631	2.625	2.626	2.614	2.606	2.607	2.606	2.594	2.6830
2.570	2.581	2.592	2.592	2.592	2.591	2.586	2.578	2.567	2.575	2.573	2.585	2.5868
2.618	2.633	2.647	2.651	2.661	2.661	2.662	2.665	2.663	2.668	2.677	2.701	2.6261
2.412	2.380	2.360	2.328	2.270	2.225	2.190	2.155	2.123	2.111	2.101	2.091	2.4246
2.014	2.039	2.033	2.034	2.021	2.019	—	—	—	—	—	—	—
—	—	—	—	—	—	2.448	2.456	2.467	2.487	2.516	2.530	2.1562
2.569	2.583	2.599	2.616	2.618	2.623	2.617	2.609	2.611	2.617	2.621	2.653	2.5852
2.549	2.555	2.579	2.603	2.602	2.598	2.605	2.604	2.607	2.606	2.627	2.648	2.6097
2.670	2.669	2.670	2.694	2.689	2.686	2.673	2.653	2.649	2.648	2.651	2.661	2.6706
2.682	2.680	2.686	2.691	2.696	2.696	—	—	—	—	—	—	—
—	—	—	—	—	—	2.541	2.533	2.515	2.513	2.515	2.519	2.6428
2.500	2.522	2.550	2.559	2.582	2.581	—	—	—	—	—	—	—
—	—	—	—	—	—	2.620	2.622	2.627	2.657	2.670	2.673	2.5522
2.724	2.713	2.717	2.699	2.700	2.696	2.689	2.649	2.650	2.643	2.656	2.659	2.6964
2.788	2.811	2.821	2.829	2.829	2.829	2.825	2.810	2.800	2.794	2.806	2.810	2.7841
2.813	2.810	2.816	2.803	2.800	2.796	2.793	2.790	2.794	2.804	2.824	2.834	2.8162
2.848	2.845	2.852	2.852	2.855	2.871	2.866	2.853	2.849	2.852	2.855	2.866	2.8630
2.699	2.697	2.686	2.672	2.676	2.660	2.656	2.635	2.613	2.600	2.611	2.633	2.7340
2.445	2.393	2.375	2.356	2.341	2.323	—	—	—	—	—	—	—
—	—	—	—	—	—	2.339	2.344	2.350	2.372	2.382	2.398	2.4582
2.556	2.574	2.589	2.627	2.619	2.621	2.602	2.600	2.600	2.588	2.594	2.601	2.5463
2.440	2.447	2.420	2.431	2.391	2.385	2.356	2.326	2.298	2.283	2.284	2.292	2.4664
2.269	2.283	2.253	2.255	2.269	2.279	2.253	2.259	2.262	2.257	2.244	2.244	2.2658
2.440	2.452	2.486	2.496	2.509	2.519	2.522	2.504	2.500	2.509	2.503	2.496	2.4277
2.516	2.538	2.569	2.607	2.622	2.637	2.645	2.648	2.651	2.655	2.700	2.704	2.5470
2.619	2.601	2.585	2.579	2.572	2.538	—	—	—	—	—	—	—
—	—	—	—	—	—	2.240	2.241	2.249	2.268	2.271	2.272	2.5721
2.5864	2.5896	2.5938	2.5974	2.5925	2.5887	2.5860	2.5780	2.5734	2.5752	2.5823	2.5900	2.5984



BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	2.296	2.308	2.316	2.331	2.363	2.390	2.405	2.426	2.469	2.478	2.522	2.551
	2	2.867	2.876	2.907	2.916	2.934	2.930	2.924	2.919	2.909	2.904	2.898	2.904
	3	2.948	2.961	2.968	2.960	2.960	2.937	2.920	2.910	2.889	2.871	2.856	2.854
	4	2.855	2.877	2.868	2.898	2.898	2.912	2.919	2.937	2.929	2.926	2.926	2.947
	5	3.061	3.075	3.102	3.068	3.093	3.084	3.048	3.042	3.006	2.984	2.968	2.945
	6	2.735	2.729	2.699	2.664	2.663	2.649	2.615	2.600	2.571	2.546	2.513	2.522
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	2.512	2.514	2.522	2.532	2.536	2.538	2.530	2.521	2.532	2.535	2.557	2.577
	9	2.750	2.768	2.790	2.789	2.796	2.788	2.775	2.777	2.769	2.759	2.764	2.762
	10	2.836	2.850	2.864	2.876	2.879	2.863	2.858	2.846	2.824	2.823	2.826	2.815
	11	2.841	2.850	2.851	2.845	2.844	2.836	2.825	2.807	2.786	2.767	2.774	2.772
	12	2.724	2.723	2.721	2.732	2.731	2.721	2.700	2.673	2.637	2.618	2.585	2.563
	13	2.510	2.510	2.498	2.490	2.481	2.476	2.474	2.462	2.439	2.430	2.428	2.416
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	2.259	2.249	2.234	2.215	2.190	2.171	2.160	2.138	2.128	2.114	2.120	2.134
	16	2.466	2.472	2.478	2.471	2.481	2.477	2.477	2.475	2.475	2.481	2.500	2.534
	17	2.793	2.816	2.837	2.839	2.836	2.828	2.820	2.824	2.824	2.820	2.821	2.828
	18	2.967	2.954	2.965	2.964	2.969	2.954	2.936	2.930	2.907	2.891	2.881	2.856
	19	2.856	2.858	2.852	2.845	2.844	2.830	2.825	2.802	2.789	2.773	2.770	2.758
	20	2.692	2.694	2.693	2.679	2.667	2.656	2.635	2.610	2.585	2.562	2.549	2.526
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	2.237	2.237	2.241	2.235	2.235	2.225	2.224	2.205	2.187	2.173	2.199	2.206
	23	2.226	2.233	2.229	2.214	2.206	2.172	2.159	2.171	2.185	2.193	2.249	2.298
	24	2.490	2.504	2.511	2.529	2.525	2.513	2.498	2.478	2.456	2.453	2.461	2.460
	25	2.627	2.637	2.636	2.624	2.640	2.639	2.626	2.610	2.585	2.587	2.584	2.576
	26	2.461	2.492	2.362	2.425	2.393	2.405	2.376	2.366	2.391	2.346	2.324	2.332
	27	2.397	2.428	2.439	2.447	2.438	2.445	2.450	2.480	2.502	2.522	2.526	2.532
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	2.537	2.541	2.544	2.543	2.540	2.534	2.530	2.507	2.497	2.477	2.470	2.466
	30	2.477	2.469	2.463	2.460	2.441	2.412	2.412	2.448	2.427	2.426	2.418	2.401
	31	2.473	2.490	2.494	2.500	2.504	2.504	2.503	2.506	2.513	2.521	2.521	2.517
Hourly Means	2.6257	2.6339	2.6327	2.6330	2.6329	2.6255	2.6157	2.6063	2.6004	2.5919	2.5930	2.5945	
JUNE.	1	2.632	2.650	2.670	2.676	2.689	2.703	2.702	2.695	2.694	2.690	2.692	2.697
	2	2.785	2.781	2.781	2.765	2.735	2.706	2.662	2.617	2.556	2.555	2.517	2.495
	3	2.271	2.293	2.319	2.360	2.398	2.415	2.433	2.458	2.486	2.502	2.521	2.533
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	2.457	2.469	2.473	2.451	2.461	2.494	2.493	2.488	2.468	2.470	2.484	2.464
	6	2.571	2.574	2.588	2.587	2.596	2.596	2.603	2.606	2.615	2.641	2.653	2.675
	7	2.856	2.885	2.887	2.869	2.890	2.875	2.880	2.881	2.863	2.850	2.861	2.844
	8	2.776	2.776	2.777	2.775	2.790	2.735	2.703	2.671	2.659	2.625	2.611	2.561
	9	2.412	2.422	2.421	2.420	2.414	2.384	2.367	2.331	2.351	2.322	2.274	2.305
	10	2.443	2.475	2.481	2.487	2.497	2.497	2.475	2.463	2.453	2.449	2.433	2.431
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	2.750	2.757	2.762	2.750	2.743	2.730	2.713	2.672	2.660	2.639	2.612	2.588
	13	2.387	2.387	2.372	2.330	2.298	2.277	2.255	2.231	2.226	2.209	2.180	2.176
	14	2.201	2.216	2.224	2.240	2.240	2.237	2.239	2.261	2.278	2.296	2.298	2.509
	15	2.594	2.600	2.605	2.607	2.625	2.625	2.616	2.596	2.584	2.572	2.564	2.565
	16	2.436	2.462	2.475	2.474	2.500	2.526	2.523	2.516	2.518	2.514	2.511	2.521
	17	2.703	2.720	2.734	2.749	2.752	2.763	2.763	2.767	2.757	2.755	2.737	2.732
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	2.776	2.787	2.784	2.784	2.792	2.789	2.781	2.770	2.756	2.740	2.723	2.719
	20	2.827	2.836	2.850	2.859	2.856	2.832	2.839	2.838	2.816	2.793	2.772	2.767
	21	2.825	2.815	2.824	2.823	2.810	2.801	2.790	2.760	2.749	2.736	2.712	2.696
	22	2.683	2.675	2.666	2.660	2.651	2.644	2.631	2.598	2.592	2.566	2.551	2.533
	23	2.547	2.543	2.542	2.542	2.542	2.538	2.510	2.516	2.482	2.457	2.436	2.407
	24	2.365	2.365	2.369	2.349	2.343	2.353	2.335	2.332	2.341	2.338	2.345	2.356
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	2.561	2.561	2.566	2.550	2.549	2.541	2.523	2.506	2.490	2.468	2.455	2.454
	27	2.543	2.553	2.557	2.544	2.545	2.543	2.522	2.511	2.506	2.487	2.475	2.466
	28	2.480	2.480	2.488	2.495	2.495	2.463	2.461	2.448	2.443	2.416	2.408	2.407
	29	2.407	2.406	2.400	2.396	2.396	2.405	2.403	2.396	2.407	2.408	2.405	2.428
	30	2.591	2.604	2.602	2.597	2.587	2.568	2.564	2.580	2.575	2.578	2.555	2.540
Hourly Means	2.5723	2.5805	2.5853	2.5823	2.5844	2.5785	2.5687	2.5580	2.5510	2.5414	2.5302	2.5257	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.567	2.602	2.649	2.681	2.699	2.717	2.734	2.754	2.762	2.778	2.808	2.835	2.5600
2.901	2.912	2.906	2.917	2.924	2.921	2.923	2.926	2.906	2.913	2.927	2.930	2.9122
2.854	2.851	2.853	2.863	2.860	2.843	2.832	2.814	2.814	2.819	2.815	2.831	2.8785
2.945	2.945	2.968	2.977	2.998	2.992	3.012	3.015	3.029	3.057	3.057	3.067	2.9564
2.927	2.908	2.904	2.902	2.880	2.860	2.829	2.815	2.803	2.777	2.757	2.747	2.9410
2.500	2.472	2.498	2.490	2.481	2.478	—	—	—	—	—	—	—
—	—	—	—	—	—	2.485	2.463	2.459	2.480	2.486	2.502	2.5542
2.594	2.613	2.633	2.646	2.658	2.677	2.682	2.691	2.699	2.704	2.717	2.726	2.6019
2.774	2.762	2.788	2.822	2.823	2.815	2.816	2.814	2.807	2.811	2.810	2.822	2.7896
2.827	2.829	2.834	2.831	2.826	2.826	2.824	2.811	2.811	2.809	2.805	2.831	2.8343
2.762	2.760	2.755	2.751	2.744	2.745	2.747	2.726	2.726	2.711	2.723	2.731	2.7783
2.533	2.553	2.548	2.534	2.545	2.538	2.526	2.494	2.483	2.477	2.485	2.515	2.5983
2.422	2.432	2.455	2.456	2.466	2.464	—	—	—	—	—	—	—
—	—	—	—	—	—	2.324	2.310	2.292	2.287	2.275	2.259	2.4190
2.151	2.213	2.273	2.343	2.386	2.429	2.433	2.431	2.435	2.429	2.433	2.450	2.2716
2.567	2.596	2.630	2.651	2.670	2.694	2.701	2.710	2.731	2.739	2.746	2.777	2.5833
2.841	2.859	2.871	2.887	2.891	2.892	2.881	2.896	2.904	2.911	2.940	2.950	2.8587
2.846	2.846	2.840	2.862	2.855	2.852	2.853	2.853	2.852	2.844	2.841	2.843	2.8900
2.763	2.749	2.745	2.725	2.709	2.702	2.699	2.684	2.683	2.683	2.678	2.688	2.7629
2.520	2.500	2.492	2.487	2.479	2.475	—	—	—	—	—	—	—
—	—	—	—	—	—	2.231	2.225	2.214	2.211	2.222	2.232	2.4932
2.212	2.197	2.204	2.206	2.204	2.216	2.206	2.191	2.181	2.179	2.193	2.209	2.2084
2.336	2.363	2.375	2.382	2.398	2.402	2.411	2.424	2.425	2.443	2.456	2.482	2.3097
2.473	2.507	2.532	2.556	2.559	2.556	2.565	2.562	2.570	2.591	2.586	2.614	2.5229
2.566	2.566	2.560	2.542	2.519	2.515	2.519	2.483	2.482	2.452	2.477	2.471	2.5635
2.322	2.278	2.279	2.280	2.278	2.280	2.288	2.310	2.310	2.320	2.336	2.372	2.3469
2.548	2.550	2.581	2.589	2.604	2.608	—	—	—	—	—	—	—
—	—	—	—	—	—	2.525	2.522	2.508	2.504	2.510	2.527	2.5077
2.469	2.473	2.477	2.486	2.490	2.493	2.489	2.488	2.485	2.474	2.475	2.481	2.4986
2.411	2.417	2.414	2.408	2.406	2.413	2.417	2.417	2.417	2.442	2.452	2.463	2.4305
2.537	2.539	2.554	2.568	2.566	2.563	2.552	2.555	2.559	2.574	2.596	2.620	2.5345
2.5988	2.6034	2.6155	2.6238	2.6266	2.6284	2.6113	2.6068	2.6054	2.6081	2.6150	2.6287	2.6149
2.704	2.714	2.736	2.746	2.765	2.767	2.758	2.771	2.766	2.760	2.772	2.777	2.7178
2.479	2.456	2.459	2.447	2.403	2.361	2.329	2.278	2.255	2.253	2.245	2.267	2.5078
2.553	2.539	2.547	2.549	2.549	2.523	—	—	—	—	—	—	—
—	—	—	—	—	—	2.374	2.386	2.394	2.400	2.426	2.447	2.4448
2.478	2.468	2.472	2.508	2.506	2.515	2.523	2.523	2.523	2.537	2.537	2.556	2.4924
2.684	2.690	2.701	2.725	2.733	2.751	2.758	2.761	2.765	2.782	2.816	2.844	2.6798
2.831	2.832	2.850	2.846	2.840	2.821	2.837	2.797	2.783	2.778	2.787	2.792	2.8431
2.528	2.498	2.474	2.448	2.422	2.416	2.408	2.404	2.404	2.398	2.390	2.396	2.5685
2.321	2.351	2.362	2.357	2.356	2.375	2.383	2.412	2.399	2.421	2.421	2.438	2.3758
2.423	2.423	2.431	2.445	2.450	2.455	—	—	—	—	—	—	—
—	—	—	—	—	—	2.710	2.710	2.719	2.725	2.719	2.734	2.5220
2.562	2.553	2.539	2.532	2.517	2.507	2.490	2.466	2.446	2.434	2.417	2.403	2.5934
2.172	2.166	2.172	2.198	2.195	2.191	2.185	2.180	2.174	2.175	2.174	2.190	2.2292
2.314	2.334	2.354	2.415	2.434	2.453	2.468	2.463	2.498	2.510	2.545	2.574	2.3500
2.549	2.543	2.537	2.531	2.522	2.520	2.506	2.469	2.451	2.446	2.444	2.440	2.5463
2.527	2.561	2.565	2.588	2.596	2.606	2.620	2.628	2.633	2.642	2.667	2.695	2.5543
2.726	2.727	2.729	2.762	2.761	2.764	—	—	—	—	—	—	—
—	—	—	—	—	—	2.727	2.726	2.730	2.733	2.741	2.768	2.7428
2.721	2.729	2.735	2.755	2.762	2.733	2.777	2.772	2.761	2.759	2.776	2.795	2.7632
2.767	2.755	2.756	2.760	2.749	2.761	2.772	2.780	2.803	2.814	2.818	2.823	2.8018
2.696	2.694	2.683	2.679	2.671	2.669	2.658	2.663	2.665	2.670	2.669	2.677	2.7265
2.531	2.533	2.544	2.553	2.564	2.561	2.553	2.548	2.537	2.533	2.526	2.528	2.5817
2.406	2.409	2.407	2.421	2.414	2.411	2.399	2.374	2.358	2.342	2.334	2.367	2.4460
2.375	2.395	2.411	2.418	2.427	2.447	—	—	—	—	—	—	—
—	—	—	—	—	—	2.463	2.465	2.507	2.540	2.570	2.561	2.4071
2.461	2.469	2.491	2.494	2.505	2.519	2.522	2.512	2.506	2.515	2.524	2.525	2.5111
2.467	2.469	2.490	2.490	2.488	2.478	2.483	2.482	2.469	2.459	2.462	2.471	2.4983
2.407	2.400	2.390	2.394	2.399	2.402	2.404	2.401	2.391	2.395	2.400	2.401	2.4278
2.440	2.449	2.459	2.490	2.511	2.528	2.539	2.544	2.543	2.539	2.548	2.572	2.4591
2.548	2.557	2.551	2.549	2.539	2.546	2.539	2.517	2.524	2.540	2.550	2.543	2.5602
2.5258	2.5275	2.5325	2.5423	2.5415	2.5431	2.5456	2.5397	2.5386	2.5423	2.5492	2.5609	2.5520

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	2.533	2.547	2.558	2.552	2.543	2.534	2.524	2.498	2.477	2.452	2.441	2.419
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	2.726	2.746	2.747	2.745	2.732	2.729	2.725	2.714	2.704	2.685	2.669	2.659
	4	2.702	2.690	2.684	2.669	2.626	2.612	2.579	2.562	2.551	2.517	2.507	2.499
	5	2.678	2.698	2.713	2.701	2.706	2.711	2.717	2.709	2.701	2.687	2.678	2.674
	6	2.774	2.782	2.779	2.773	2.771	2.770	2.753	2.743	2.713	2.690	2.679	2.672
	7	2.468	2.417	2.386	2.383	2.355	2.374	2.412	2.409	2.413	2.424	2.433	2.436
	8	2.498	2.498	2.504	2.485	2.468	2.462	2.464	2.463	2.464	2.476	2.475	2.471
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	2.349	2.371	2.388	2.386	2.398	2.406	2.412	2.411	2.415	2.420	2.441	2.467
	11	2.676	2.682	2.699	2.705	2.709	2.717	2.719	2.708	2.704	2.701	2.697	2.698
	12	2.871	2.885	2.906	2.919	2.916	2.909	2.903	2.899	2.898	2.893	2.871	2.866
	13	2.906	2.936	2.941	2.938	2.935	2.931	2.922	2.921	2.917	2.906	2.897	2.878
	14	2.851	2.859	2.865	2.855	2.862	2.850	2.832	2.817	2.811	2.743	2.742	2.758
	15	2.725	2.749	2.732	2.700	2.709	2.721	2.715	2.716	2.706	2.702	2.671	2.661
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	2.443	2.421	2.425	2.435	2.399	2.367	2.350	2.350	2.323	2.307	2.334	2.319
	18	2.426	2.426	2.438	2.432	2.442	2.438	2.438	2.429	2.418	2.416	2.432	2.446
	19	2.577	2.600	2.610	2.616	2.620	2.624	2.626	2.618	2.617	2.611	2.603	2.583
	20	2.725	2.735	2.748	2.752	2.744	2.728	2.714	2.702	2.694	2.671	2.659	2.634
	21	2.663	2.671	2.668	2.667	2.661	2.658	2.647	2.632	2.611	2.605	2.597	2.593
	22	2.651	2.649	2.655	2.666	2.664	2.663	2.649	2.640	2.635	2.622	2.620	2.606
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	2.437	2.448	2.452	2.463	2.471	2.488	2.497	2.497	2.512	2.529	2.532	2.539
	25	2.699	2.713	2.720	2.730	2.738	2.725	2.713	2.705	2.698	2.691	2.690	2.680
	26	2.683	2.671	2.655	2.644	2.626	2.622	2.605	2.590	2.561	2.555	2.525	2.519
	27	2.736	2.766	2.785	2.786	2.793	2.797	2.798	2.782	2.758	2.748	2.736	2.714
	28	2.505	2.497	2.496	2.464	2.446	2.411	2.375	2.338	2.321	2.310	2.312	2.337
	29	2.483	2.498	2.534	2.549	2.565	2.585	2.611	2.615	2.615	2.611	2.595	2.589
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	2.672	2.678	2.677	2.675	2.680	2.664	2.673	2.673	2.665	2.655	2.650	2.651
Hourly Means	2.6330	2.6397	2.6448	2.6419	2.6377	2.6345	2.6297	2.6208	2.6116	2.6010	2.5956	2.5911	
AUGUST.	1	2.700	2.702	2.713	2.710	2.711	2.703	2.703	2.688	2.674	2.660	2.645	2.633
	2	2.681	2.692	2.718	2.717	2.707	2.709	2.703	2.684	2.674	2.671	2.664	2.664
	3	2.764	2.778	2.791	2.802	2.813	2.810	2.807	2.809	2.802	2.801	2.804	2.799
	4	2.931	2.939	2.952	2.956	2.961	2.956	2.956	2.948	2.945	2.938	2.938	2.930
	5	2.925	2.929	2.933	2.929	2.917	2.912	2.901	2.889	2.880	2.852	2.841	2.835
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	2.588	2.594	2.591	2.594	2.601	2.588	2.592	2.585	2.575	2.571	2.559	2.567
	8	2.595	2.623	2.633	2.637	2.647	2.648	2.641	2.639	2.636	2.630	2.620	2.610
	9	2.739	2.741	2.747	2.749	2.752	2.738	2.736	2.743	2.725	2.720	2.712	2.705
	10	2.731	2.723	2.721	2.719	2.712	2.705	2.695	2.680	2.664	2.655	2.647	2.641
	11	2.656	2.668	2.667	2.672	2.666	2.659	2.652	2.647	2.637	2.632	2.629	2.624
	12	2.692	2.696	2.696	2.694	2.693	2.682	2.678	2.661	2.642	2.643	2.639	2.624
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	2.329	2.319	2.293	2.255	2.259	2.265	2.259	2.259	2.264	2.283	2.289	2.311
	15	2.518	2.540	2.550	2.558	2.561	2.572	2.583	2.593	2.586	2.572	2.566	2.562
	16	2.591	2.590	2.583	2.582	2.580	2.567	2.552	2.540	2.527	2.516	2.501	2.498
	17	2.453	2.463	2.485	2.495	2.500	2.509	2.509	2.509	2.508	2.495	2.486	2.485
	18	2.610	2.618	2.630	2.638	2.638	2.642	2.642	2.633	2.617	2.623	2.610	2.614
	19	2.759	2.771	2.761	2.761	2.757	2.754	2.747	2.742	2.727	2.719	2.715	2.711
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	2.817	2.833	2.847	2.853	2.854	2.852	2.843	2.833	2.824	2.826	2.819	2.818
	22	2.824	2.844	2.834	2.817	2.810	2.805	2.793	2.781	2.768	2.751	2.746	2.739
	23	2.696	2.705	2.705	2.702	2.701	2.699	2.695	2.678	2.660	2.645	2.639	2.629
	24	2.699	2.707	2.706	2.705	2.708	2.713	2.713	2.711	2.698	2.688	2.683	2.681
	25	2.723	2.729	2.729	2.728	2.712	2.710	2.721	2.688	2.678	2.663	2.652	2.641
	26	2.651	2.657	2.667	2.667	2.673	2.676	2.674	2.666	2.657	2.651	2.650	2.654
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	2.747	2.757	2.767	2.771	2.781	2.787	2.788	2.783	2.782	2.779	2.777	2.775
	29	2.846	2.850	2.858	2.863	2.859	2.856	2.845	2.837	2.824	2.813	2.799	2.792
	30	2.780	2.770	2.776	2.774	2.770	2.762	2.745	2.730	2.708	2.696	2.687	2.678
	31	2.680	2.685	2.682	2.679	2.680	2.668	2.654	2.643	2.622	2.603	2.602	2.593
Hourly Means	2.6935	2.7009	2.7050	2.7047	2.7046	2.7017	2.6973	2.6889	2.6779	2.6702	2.6637	2.6592	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.395	2.382	2.380	2.385	2.385	2.389	—	—	—	—	—	—	2.4663
2.660	2.675	2.673	2.685	2.696	2.699	2.642	2.649	2.659	2.675	2.685	2.710	2.6700
2.499	2.529	2.549	2.556	2.564	2.568	2.705	2.696	2.687	2.686	2.684	2.699	2.7011
2.677	2.689	2.696	2.717	2.721	2.730	2.576	2.580	2.598	2.626	2.633	2.648	2.5885
2.676	2.668	2.674	2.668	2.650	2.643	2.726	2.726	2.727	2.736	2.753	2.762	2.7097
2.458	2.465	2.485	2.500	2.510	2.517	2.625	2.613	2.576	2.558	2.553	2.497	2.6792
2.486	2.502	2.511	2.542	2.550	2.547	2.518	2.521	2.507	2.504	2.498	2.498	2.4538
—	—	—	—	—	—	—	—	—	—	—	—	—
2.483	2.505	2.532	2.560	2.569	2.577	2.394	2.388	2.380	2.354	2.347	2.349	2.4616
2.705	2.716	2.734	2.776	2.782	2.791	2.591	2.614	2.624	2.630	2.645	2.659	2.4952
2.865	2.869	2.864	2.877	2.881	2.898	2.792	2.793	2.814	2.815	2.826	2.857	2.7423
2.864	2.864	2.853	2.862	2.863	2.865	2.903	2.883	2.884	2.886	2.889	2.906	2.8891
2.738	2.760	2.752	2.789	2.770	2.761	2.867	2.865	2.858	2.856	2.857	2.854	2.8898
2.647	2.655	2.659	2.653	2.645	2.637	2.753	2.753	2.746	2.728	2.748	2.739	2.7868
—	—	—	—	—	—	—	—	—	—	—	—	—
2.319	2.317	2.323	2.356	2.352	2.385	2.449	2.439	2.425	2.416	2.412	2.436	2.6242
2.462	2.460	2.476	2.478	2.481	2.485	2.401	2.407	2.373	2.374	2.390	2.396	2.3694
2.611	2.625	2.638	2.650	2.659	2.662	2.490	2.501	2.510	2.515	2.522	2.559	2.4633
2.641	2.641	2.650	2.670	2.669	2.665	2.675	2.668	2.677	2.679	2.702	2.723	2.6364
2.590	2.602	2.603	2.617	2.621	2.631	2.664	2.651	2.651	2.651	2.658	2.656	2.6822
2.598	2.600	2.599	2.600	2.603	2.605	2.630	2.621	2.618	2.616	2.620	2.643	2.6285
—	—	—	—	—	—	—	—	—	—	—	—	—
2.554	2.579	2.598	2.610	2.632	2.635	2.442	2.423	2.422	2.416	2.425	2.439	2.5788
2.676	2.676	2.687	2.691	2.670	2.666	2.641	2.646	2.648	2.653	2.660	2.679	2.5583
2.633	2.577	2.589	2.609	2.620	2.624	2.667	2.665	2.672	2.696	2.695	2.682	2.6935
2.719	2.716	2.701	2.692	2.670	2.635	2.635	2.627	2.640	2.640	2.697	2.716	2.6193
2.357	2.342	2.335	2.349	2.378	2.394	2.621	2.594	2.576	2.550	2.531	2.531	2.6973
2.592	2.594	2.603	2.617	2.620	2.625	2.389	2.390	2.396	2.402	2.434	2.459	2.3932
—	—	—	—	—	—	—	—	—	—	—	—	—
2.651	2.651	2.669	2.673	2.680	2.676	2.622	2.623	2.630	2.638	2.653	2.662	2.5970
—	—	—	—	—	—	2.682	2.681	2.685	2.687	2.691	2.696	2.6723
2.5983	2.6023	2.6090	2.6224	2.6247	2.6273	2.6192	2.6160	2.6147	2.6149	2.6234	2.6329	2.6203
2.632	2.636	2.633	2.651	2.657	2.654	2.654	2.648	2.649	2.642	2.656	2.675	2.6679
2.667	2.665	2.675	2.683	2.683	2.685	2.690	2.687	2.702	2.707	2.719	2.756	2.6918
2.799	2.813	2.822	2.835	2.849	2.860	2.867	2.884	2.889	2.897	2.910	2.919	2.8302
2.918	2.918	2.931	2.936	2.925	2.926	2.912	2.910	2.903	2.906	2.907	2.907	2.9312
2.817	2.815	2.818	2.816	2.810	2.793	—	—	—	—	—	—	—
—	—	—	—	—	—	2.610	2.589	2.579	2.577	2.575	2.577	2.7966
2.577	2.580	2.582	2.585	2.592	2.594	2.600	2.590	2.592	2.593	2.594	2.595	2.5866
2.620	2.629	2.657	2.672	2.689	2.700	2.703	2.704	2.701	2.695	2.708	2.712	2.6562
2.711	2.717	2.724	2.721	2.715	2.715	2.716	2.700	2.699	2.703	2.711	2.740	2.7241
2.637	2.635	2.636	2.642	2.633	2.640	2.635	2.633	2.629	2.626	2.628	2.647	2.6631
2.631	2.647	2.655	2.657	2.653	2.650	2.663	2.654	2.655	2.653	2.666	2.686	2.6533
2.620	2.620	2.617	2.630	2.625	2.621	—	—	—	—	—	—	—
—	—	—	—	—	—	2.430	2.427	2.424	2.378	2.356	2.341	2.5887
2.328	2.347	2.373	2.403	2.412	2.423	2.424	2.435	2.450	2.453	2.467	2.496	2.3498
2.562	2.568	2.573	2.568	2.565	2.561	2.561	2.564	2.568	2.569	2.574	2.585	2.5658
2.498	2.506	2.503	2.481	2.482	2.483	2.452	2.466	2.484	2.477	2.500	2.464	2.5176
2.482	2.488	2.501	2.499	2.498	2.482	2.525	2.538	2.544	2.549	2.569	2.581	2.5064
2.634	2.648	2.669	2.673	2.674	2.692	2.709	2.703	2.701	2.705	2.722	2.734	2.6575
2.709	2.717	2.734	2.742	2.733	2.729	—	—	—	—	—	—	—
—	—	—	—	—	—	2.778	2.776	2.777	2.776	2.780	2.811	2.7494
2.818	2.830	2.843	2.843	2.841	2.843	2.834	2.834	2.822	2.823	2.826	2.824	2.8333
2.739	2.721	2.739	2.730	2.721	2.717	2.718	2.710	2.708	2.677	2.680	2.690	2.7526
2.637	2.645	2.653	2.652	2.656	2.658	2.648	2.647	2.643	2.654	2.659	2.674	2.6658
2.681	2.675	2.693	2.696	2.710	2.715	2.719	2.719	2.724	2.728	2.320	2.715	2.7045
2.631	2.631	2.636	2.639	2.625	2.625	2.625	2.628	2.630	2.632	2.625	2.638	2.6641
2.652	2.656	2.667	2.667	2.677	2.685	—	—	—	—	—	—	—
—	—	—	—	—	—	2.699	2.697	2.683	2.666	2.700	2.710	2.6709
2.775	2.783	2.795	2.803	2.804	2.819	2.821	2.812	2.813	2.811	2.815	2.820	2.7902
2.780	2.786	2.785	2.772	2.768	2.769	2.777	2.766	2.767	2.755	2.764	2.756	2.8036
2.674	2.669	2.673	2.676	2.680	2.680	2.677	2.960	2.658	2.655	2.661	2.668	2.7045
2.600	2.600	2.615	2.629	2.625	2.616	2.621	2.614	2.609	2.603	2.629	2.638	2.6329
2.6603	2.6646	2.6741	2.6778	2.6779	2.6791	2.6692	2.6665	2.6668	2.6633	2.6711	2.6800	2.6799

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	2.651	2.655	2.655	2.665	2.659	2.647	2.633	2.620	2.604	2.590	2.582	2.578
	2	2.588	2.588	2.592	2.583	2.567	2.581	2.562	2.550	2.546	2.543	2.535	2.535
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	2.440	2.453	2.474	2.474	2.482	2.482	2.479	2.474	2.471	2.478	2.482	2.496
	5	2.710	2.719	2.754	2.765	2.771	2.771	2.764	2.749	2.738	2.732	2.732	2.746
	6	2.803	2.819	2.822	2.832	2.839	2.835	2.820	2.822	2.815	2.805	2.797	2.795
	7	2.788	2.788	2.804	2.812	2.814	2.814	2.807	2.801	2.799	2.794	2.794	2.777
	8	2.689	2.677	2.684	2.667	2.643	2.616	2.588	2.571	2.557	2.545	2.549	2.573
	9	2.834	2.844	2.851	2.853	2.851	2.843	2.837	2.831	2.819	2.815	2.818	2.847
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	2.771	2.771	2.777	2.786	2.788	2.781	2.773	2.761	2.744	2.734	2.734	2.738
	12	2.882	2.890	2.900	2.903	2.906	2.894	2.883	2.874	2.867	2.864	2.846	2.846
	13	2.836	2.834	2.830	2.841	2.833	2.808	2.796	2.778	2.775	2.745	2.745	2.729
	14	2.675	2.701	2.709	2.713	2.715	2.701	2.703	2.691	2.673	2.647	2.640	2.620
	15	2.314	2.286	2.258	2.238	2.214	2.231	2.240	2.253	2.271	2.274	2.281	2.296
	16	2.437	2.459	2.467	2.476	2.492	2.484	2.481	2.485	2.470	2.475	2.472	2.474
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	2.563	2.579	2.609	2.623	2.633	2.664	2.658	2.669	2.666	2.680	2.699	2.716
	19	2.934	2.967	2.984	2.985	2.986	2.997	3.016	3.002	3.000	3.000	2.991	2.995
	20	2.972	2.970	2.977	2.969	2.958	2.942	2.904	2.875	2.855	2.822	2.800	2.789
	21	2.650	2.637	2.621	2.605	2.582	2.567	2.533	2.516	2.505	2.492	2.530	2.548
	22	2.836	2.851	2.848	2.848	2.832	2.824	2.807	2.782	2.778	2.748	2.728	2.723
	23	2.572	2.577	2.569	2.559	2.540	2.525	2.496	2.475	2.454	2.448	2.435	2.434
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	2.501	2.502	2.500	2.489	2.503	2.493	2.486	2.476	2.462	2.460	2.480	2.484
	26	2.632	2.662	2.663	2.675	2.689	2.675	2.671	2.687	2.693	2.701	2.711	2.725
	27	2.914	2.939	2.943	2.951	2.929	2.929	2.928	2.908	2.903	2.887	2.882	2.886
	28	2.884	2.888	2.871	2.871	2.856	2.854	2.832	2.829	2.808	2.800	2.795	2.779
	29	2.817	2.841	2.851	2.851	2.843	2.842	2.840	2.825	2.812	2.807	2.803	2.798
	30	2.794	2.802	2.802	2.785	2.775	2.758	2.725	2.695	2.658	2.632	2.610	2.594
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.7110	2.7192	2.7237	2.7238	2.7192	2.7138	2.7024	2.6923	2.6824	2.6738	2.6720	2.6739	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	2.166	2.178	2.178	2.186	2.192	2.192	2.182	2.182	2.186	2.193	2.199	2.202
	3	2.150	2.175	2.186	2.186	2.180	2.172	2.172	2.172	2.186	2.186	2.197	2.229
	4	2.374	2.410	2.432	2.444	2.457	2.454	2.475	2.460	2.478	2.491	2.504	2.534
	5	2.707	2.733	2.756	2.769	2.769	2.766	2.743	2.726	2.703	2.695	2.672	2.652
	6	2.576	2.586	2.576	2.568	2.553	2.532	2.500	2.487	2.463	2.448	2.440	2.428
	7	2.243	2.243	2.231	2.205	2.171	2.152	2.112	2.086	2.070	2.068	2.068	2.054
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	2.371	2.393	2.387	2.381	2.383	2.383	2.372	2.355	2.356	2.356	2.374	2.380
	10	2.481	2.485	2.489	2.500	2.495	2.506	2.494	2.480	2.458	2.447	2.435	2.429
	11	2.422	2.428	2.449	2.443	2.443	2.443	2.441	2.449	2.444	2.449	2.449	2.465
	12	2.480	2.506	2.505	2.505	2.502	2.522	2.529	2.547	2.561	2.593	2.625	2.649
	13	2.656	2.681	2.669	2.669	2.669	2.668	2.659	2.662	2.656	2.658	2.665	2.684
	14	2.812	2.832	2.852	2.863	2.869	2.877	2.861	2.844	2.836	2.824	2.834	2.838
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	2.493	2.513	2.523	2.525	2.524	2.521	2.515	2.510	2.509	2.505	2.504	2.502
	17	2.342	2.342	2.332	2.332	2.332	2.319	2.306	2.298	2.294	2.298	2.304	2.320
	18	2.359	2.379	2.387	2.381	2.368	2.354	2.340	2.318	2.312	2.306	2.312	2.303
	19	2.615	2.650	2.687	2.714	2.727	2.733	2.721	2.715	2.708	2.707	2.707	2.713
	20	2.597	2.561	2.523	2.497	2.455	2.416	2.356	2.320	2.293	2.265	2.245	2.237
	21	2.126	2.189	2.243	2.277	2.311	2.353	2.377	2.393	2.403	2.437	2.470	2.497
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	2.770	2.800	2.820	2.829	2.835	2.835	2.820	2.802	2.794	2.793	2.792	2.779
	24	2.810	2.822	2.823	2.808	2.806	2.794	2.775	2.766	2.742	2.719	2.701	2.694
	25	2.348	2.364	2.378	2.401	2.426	2.459	2.504	2.544	2.562	2.595	2.657	2.698
	26	2.782	2.804	2.796	2.794	2.804	2.793	2.785	2.765	2.743	2.733	2.711	2.701
	27	2.469	2.469	2.453	2.432	2.392	2.380	2.369	2.365	2.347	2.347	2.345	2.345
	28	2.592	2.642	2.683	2.697	2.728	2.723	2.726	2.738	2.737	2.752	2.758	2.768
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	2.736	2.753	2.755	2.767	2.765	2.764	2.752	2.768	2.772	2.788	2.812	2.840
	31	2.974	3.008	3.037	3.042	3.056	3.067	3.035	3.026	3.014	3.020	3.022	3.016
Hourly Means	2.5173	2.5368	2.5442	2.5467	2.5466	2.5453	2.5354	2.5299	2.5257	2.5259	2.5308	2.5368	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.578	2.582	2.581	2.582	2.582	2.592	2.586	2.574	2.555	2.555	2.559	2.561	2.6011
2.535	2.537	2.549	2.557	2.555	2.552	—	—	—	—	—	—	2.5220
—	—	—	—	—	—	2.401	2.397	2.405	2.409	2.421	2.430	2.5438
2.528	2.545	2.564	2.594	2.602	2.605	2.616	2.627	2.637	2.656	2.684	2.708	2.7622
2.748	2.755	2.777	2.780	2.781	2.783	2.786	2.790	2.784	2.782	2.783	2.793	2.8008
2.793	2.799	2.801	2.807	2.797	2.797	2.787	2.770	2.764	2.758	2.766	2.776	2.7709
2.795	2.796	2.768	2.765	2.765	2.767	2.768	2.741	2.705	2.697	2.673	2.669	2.6559
2.586	2.598	2.649	2.658	2.679	2.690	2.711	2.730	2.742	2.759	2.776	2.805	—
2.863	2.890	2.909	2.917	2.924	2.926	—	—	—	—	—	—	2.8309
—	—	—	—	—	—	2.753	2.745	2.741	2.734	2.740	2.756	2.7816
2.745	2.752	2.775	2.789	2.794	2.797	2.799	2.816	2.824	2.827	2.839	2.844	2.8601
2.844	2.842	2.847	2.857	2.841	2.833	2.834	2.836	2.837	2.837	2.844	2.836	2.7427
2.727	2.721	2.705	2.695	2.672	2.677	2.683	2.687	2.696	2.679	2.665	2.669	2.5857
2.598	2.585	2.569	2.545	2.527	2.504	2.489	2.461	2.436	2.416	2.388	2.352	2.3048
2.309	2.333	2.354	2.344	2.343	2.337	2.336	2.342	2.342	2.344	2.378	2.397	—
2.474	2.486	2.499	2.507	2.488	2.471	—	—	—	—	—	—	2.4803
—	—	—	—	—	—	2.468	2.467	2.481	2.485	2.507	2.523	2.7470
2.741	2.791	2.812	2.816	2.831	2.859	2.864	2.874	2.875	2.886	2.906	2.913	2.9922
3.005	3.004	3.002	3.000	2.996	2.996	3.005	3.005	2.999	2.985	2.960	2.980	2.8032
2.771	2.768	2.761	2.751	2.724	2.710	2.696	2.668	2.659	2.655	2.647	2.634	2.6464
2.558	2.601	2.637	2.694	2.721	2.759	2.770	2.778	2.799	2.795	2.801	2.814	2.7232
2.693	2.699	2.695	2.694	2.692	2.685	2.638	2.624	2.600	2.588	2.572	2.572	—
2.433	2.443	2.450	2.455	2.459	2.458	—	—	—	—	—	—	2.4866
—	—	—	—	—	—	2.478	2.489	2.481	2.467	2.487	2.495	2.5271
2.498	2.519	2.543	2.548	2.560	2.571	2.577	2.593	2.594	2.592	2.601	2.618	2.7559
2.733	2.752	2.770	2.805	2.821	2.833	2.848	2.863	2.867	2.884	2.890	2.892	2.8985
2.879	2.875	2.867	2.892	2.892	2.884	2.885	2.867	2.873	2.884	2.877	2.890	2.8113
2.773	2.781	2.781	2.780	2.777	2.762	2.770	2.781	2.795	2.795	2.805	2.805	2.8135
2.794	2.795	2.795	2.797	2.800	2.802	2.800	2.809	2.803	2.811	2.803	2.784	—
2.554	2.536	2.504	2.474	2.445	2.439	—	—	—	—	—	—	2.5212
—	—	—	—	—	—	2.155	2.154	2.154	2.152	2.153	2.158	—
2.6752	2.6840	2.6909	2.6963	2.6949	2.6957	2.6732	2.6726	2.6711	2.6705	2.6748	2.6802	2.6911
—	—	—	—	—	—	—	—	—	—	—	—	—
2.194	2.193	2.194	2.194	2.198	2.189	2.186	2.184	2.175	2.178	2.162	2.152	2.1848
2.238	2.248	2.265	2.291	2.288	2.285	2.279	2.301	2.299	2.300	2.324	2.338	2.2353
2.562	2.574	2.603	2.621	2.617	2.628	2.640	2.644	2.648	2.656	2.668	2.682	2.5440
2.636	2.636	2.647	2.635	2.640	2.632	2.624	2.617	2.605	2.599	2.593	2.568	2.6718
2.416	2.417	2.417	2.409	2.391	2.385	2.359	2.332	2.317	2.295	2.279	2.243	2.4340
2.050	2.054	2.056	2.060	2.137	2.159	—	—	—	—	—	—	—
—	—	—	—	—	—	2.350	2.370	2.355	2.354	2.367	2.367	2.1826
2.388	2.396	2.410	2.426	2.432	2.438	2.442	2.452	2.445	2.456	2.466	2.474	2.4048
2.433	2.445	2.457	2.459	2.455	2.456	2.444	2.430	2.418	2.418	2.414	2.422	2.4563
2.465	2.479	2.485	2.489	2.489	2.487	2.483	2.483	2.475	2.473	2.477	2.480	2.4621
2.659	2.671	2.683	2.689	2.686	2.677	2.682	2.685	2.672	2.666	2.667	2.656	2.6090
2.694	2.709	2.719	2.721	2.734	2.741	2.745	2.750	2.760	2.773	2.795	2.807	2.7060
2.848	2.856	2.861	2.861	2.861	2.850	—	—	—	—	—	—	—
—	—	—	—	—	—	2.519	2.507	2.491	2.483	2.493	2.493	2.7610
2.498	2.496	2.490	2.472	2.461	2.448	2.437	2.422	2.414	2.388	2.369	2.356	2.4748
2.334	2.345	2.351	2.350	2.348	2.343	2.347	2.357	2.363	2.366	2.370	2.363	2.3357
2.305	2.319	2.337	2.355	2.376	2.410	2.434	2.471	2.499	2.525	2.554	2.589	2.3872
2.721	2.730	2.721	2.716	2.708	2.694	2.673	2.669	2.663	2.648	2.638	2.608	2.6911
2.227	2.217	2.217	2.207	2.199	2.183	2.183	2.170	2.154	2.124	2.102	2.094	2.2851
2.509	2.534	2.532	2.546	2.552	2.553	—	—	—	—	—	—	—
—	—	—	—	—	—	2.695	2.705	2.713	2.725	2.730	2.749	2.4841
2.780	2.780	2.809	2.824	2.823	2.825	2.820	2.826	2.818	2.821	2.820	2.820	2.8098
2.681	2.661	2.653	2.640	2.617	2.573	2.541	2.512	2.491	2.457	2.418	2.386	2.6621
2.726	2.749	2.768	2.772	2.799	2.807	2.817	2.825	2.829	2.837	2.811	2.803	2.6450
2.701	2.690	2.661	2.658	2.630	2.620	2.602	2.570	2.562	2.536	2.512	2.489	2.6851
2.359	2.371	2.385	2.421	2.427	2.431	2.449	2.451	2.485	2.499	2.531	2.554	2.4198
2.773	2.777	2.777	2.772	2.762	2.755	—	—	—	—	—	—	—
—	—	—	—	—	—	2.701	2.712	2.724	2.732	2.722	2.724	2.7281
2.868	2.891	2.909	2.911	2.909	2.899	2.907	2.898	2.911	2.927	2.933	2.944	2.8408
3.003	2.985	3.011	3.001	3.001	2.997	2.986	2.992	2.976	2.957	2.938	2.928	3.0038
2.5411	2.5470	2.5545	2.5581	2.5592	2.5563	2.5517	2.5513	2.5485	2.5459	2.5443	2.5419	2.5425

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	2.920	2.882	2.870	2.846	2.846	2.824	2.796	2.756	2.736	2.719	2.704	2.692
	2	2.509	2.529	2.531	2.531	2.524	2.511	2.471	2.445	2.431	2.435	2.431	2.429
	3	2.728	2.757	2.773	2.773	2.789	2.796	2.786	2.781	2.781	2.788	2.808	2.819
	4	2.903	2.929	2.932	2.930	2.930	2.932	2.920	2.909	2.897	2.902	2.916	2.926
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	3.045	3.059	3.067	3.067	3.064	3.040	3.013	2.999	2.977	2.952	2.936	2.940
	7	2.720	2.727	2.736	2.736	2.728	2.725	2.703	2.690	2.679	2.675	2.669	2.659
	8	2.687	2.709	2.738	2.746	2.768	2.782	2.780	2.777	2.794	2.808	2.829	2.837
	9	2.851	2.851	2.869	2.838	2.838	2.807	2.764	2.726	2.711	2.685	2.654	2.628
	10	2.401	2.401	2.415	2.409	2.433	2.454	2.453	2.467	2.469	2.489	2.508	2.524
	11	2.415	2.415	2.379	2.351	2.351	2.343	2.351	2.344	2.356	2.370	2.408	2.430
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	2.567	2.559	2.545	2.545	2.541	2.535	2.522	2.534	2.544	2.578	2.624	2.655
	14	2.986	3.022	3.038	3.046	3.058	3.041	3.050	3.048	3.044	3.041	3.039	3.031
	15	2.825	2.819	2.805	2.781	2.799	2.756	2.711	2.699	2.675	2.666	2.652	2.646
	16	2.637	2.649	2.662	2.670	2.672	2.661	2.661	2.656	2.658	2.674	2.685	2.704
	17	2.860	2.853	2.865	2.837	2.811	2.777	2.747	2.656	2.613	2.571	2.485	2.438
	18	2.401	2.401	2.413	2.417	2.447	2.465	2.475	2.506	2.542	2.576	2.630	2.634
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	2.791	2.811	2.811	2.811	2.810	2.784	2.753	2.730	2.699	2.675	2.649	2.616
	21	2.046	2.038	2.032	2.032	2.052	2.038	2.043	2.049	2.061	2.087	2.103	2.126
	22	2.316	2.354	2.382	2.404	2.436	2.450	2.462	2.486	2.514	2.540	2.569	2.584
	23	2.587	2.579	2.571	2.561	2.541	2.502	2.462	2.418	2.395	2.364	2.342	2.304
	24	2.036	2.070	2.174	2.243	2.294	2.320	2.341	2.351	2.377	2.412	2.460	2.508
	25	2.764	2.804	2.817	2.841	2.861	2.861	2.847	2.847	2.841	2.841	2.849	2.845
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	2.943	2.951	2.975	3.000	3.008	2.998	2.983	2.975	2.946	2.957	2.971	2.970
	28	2.868	2.859	2.859	2.856	2.844	2.814	2.763	2.739	2.701	2.673	2.643	2.627
	29	2.527	2.517	2.539	2.511	2.511	2.517	2.488	2.476	2.473	2.496	2.518	2.544
	30	2.896	2.921	2.952	2.980	2.992	2.984	2.966	2.977	2.985	2.985	2.985	2.978
	Hourly Means	2.6627	2.6718	2.6827	2.6832	2.6903	2.6814	2.6658	2.6554	2.6500	2.6523	2.6564	2.6575
DECEMBER.	1	2.827	2.827	2.821	2.829	2.823	2.821	2.771	2.751	2.735	2.722	2.726	2.720
	2	2.636	2.644	2.658	2.649	2.655	2.643	2.627	2.625	2.616	2.615	2.611	2.619
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	2.544	2.512	2.502	2.491	2.467	2.438	2.402	2.380	2.364	2.378	2.384	2.396
	5	2.621	2.658	2.702	2.737	2.771	2.813	2.833	2.850	2.865	2.885	2.904	2.920
	6	2.873	2.850	2.848	2.812	2.792	2.763	2.729	2.704	2.689	2.661	2.653	2.643
	7	2.474	2.446	2.446	2.426	2.404	2.380	2.348	2.325	2.314	2.324	2.339	2.359
	8	2.476	2.476	2.477	2.469	2.469	2.433	2.397	2.349	2.315	2.296	2.286	2.264
	9	2.294	2.298	2.313	2.327	2.333	2.333	2.333	2.334	2.346	2.368	2.392	2.428
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	2.216	2.240	2.272	2.321	2.354	2.353	2.353	2.368	2.382	2.396	2.421	2.437
	12	2.641	2.680	2.731	2.764	2.796	2.808	2.824	2.838	2.885	2.931	2.981	2.993
	13	3.250	3.263	3.257	3.259	3.242	3.219	3.198	3.163	3.130	3.098	3.091	3.059
	14	2.927	2.927	2.927	2.927	2.926	2.899	2.882	2.881	2.871	2.876	2.896	2.895
	15	2.971	2.979	2.991	3.008	2.992	2.990	2.989	2.983	2.980	2.978	2.976	2.975
	16	2.683	2.683	2.691	2.695	2.711	2.695	2.693	2.674	2.680	2.682	2.680	2.682
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	2.652	2.666	2.692	2.702	2.729	2.748	2.753	2.765	2.777	2.793	2.825	2.827
	19	2.868	2.854	2.876	2.876	2.876	2.842	2.831	2.811	2.787	2.787	2.794	2.794
	20	2.723	2.741	2.761	2.781	2.793	2.793	2.782	2.774	2.773	2.794	2.806	2.825
	21	2.866	2.852	2.852	2.830	2.842	2.814	2.782	2.753	2.739	2.730	2.719	2.711
	22	2.564	2.549	2.556	2.564	2.572	2.561	2.530	2.523	2.517	2.521	2.523	2.527
	23	2.581	2.596	2.598	2.610	2.624	2.610	2.596	2.592	2.588	2.590	2.590	2.588
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	2.649	2.649	2.627	2.617	2.585	2.571	2.525	2.490	2.470	2.453	2.451	2.436
	27	2.484	2.508	2.547	2.575	2.601	2.589	2.581	2.573	2.571	2.571	2.574	2.574
	28	2.454	2.438	2.443	2.443	2.443	2.419	2.395	2.382	2.382	2.385	2.407	2.426
	29	2.566	2.579	2.616	2.645	2.655	2.655	2.638	2.622	2.620	2.624	2.624	2.638
	30	2.665	2.666	2.694	2.720	2.730	2.727	2.700	2.685	2.677	2.675	2.665	2.678
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.6605	2.6632	2.6759	2.6831	2.6874	2.6767	2.6597	2.6478	2.6429	2.6453	2.6527	2.6566	

<sup>a</sup> Christmas Day.



BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.676	2.648	2.624	2.610	2.598	2.578	2.564	2.565	2.547	2.533	2.531	2.515	2.6908
2.453	2.477	2.503	2.531	2.541	2.557	2.564	2.583	2.623	2.664	2.690	2.714	2.5282
2.829	2.837	2.836	2.836	2.836	2.856	2.863	2.875	2.889	2.894	2.892	2.902	2.8218
2.934	2.951	2.981	2.995	3.002	3.010	—	—	—	—	—	—	2.9723
—	—	—	—	—	—	3.088	3.084	3.076	3.071	3.059	3.059	2.9215
2.933	2.919	2.897	2.877	2.862	2.832	2.818	2.798	2.786	2.766	2.742	2.726	2.9215
2.663	2.649	2.639	2.629	2.629	2.621	2.617	2.614	2.622	2.624	2.637	2.659	2.6688
2.856	2.866	2.864	2.872	2.866	2.874	2.872	2.870	2.881	2.881	2.869	2.857	2.8201
2.615	2.599	2.578	2.578	2.540	2.512	2.488	2.462	2.442	2.426	2.420	2.401	2.6368
2.544	2.567	2.574	2.568	2.560	2.560	2.564	2.556	2.530	2.502	2.464	2.427	2.4933
2.462	2.484	2.512	2.542	2.561	2.577	—	—	—	—	—	—	—
—	—	—	—	—	—	2.738	2.718	2.691	2.671	2.639	2.607	2.4881
2.682	2.704	2.735	2.766	2.796	2.822	2.847	2.885	2.905	2.931	2.943	2.958	2.6968
3.027	3.023	3.016	3.008	2.992	2.976	2.956	2.939	2.915	2.891	2.865	2.837	2.9954
2.648	2.647	2.646	2.644	2.642	2.643	2.641	2.637	2.635	2.631	2.636	2.628	2.6880
2.728	2.758	2.778	2.804	2.823	2.825	2.834	2.844	2.848	2.855	2.856	2.856	2.7416
2.403	2.363	2.351	2.350	2.372	2.374	2.377	2.377	2.403	2.407	2.414	2.401	2.5460
2.679	2.699	2.713	2.714	2.734	2.735	—	—	—	—	—	—	2.6239
—	—	—	—	—	—	2.796	2.800	2.800	2.802	2.798	2.796	2.6239
2.568	2.527	2.485	2.435	2.388	2.340	2.295	2.259	2.213	2.164	2.124	2.074	2.5338
2.146	2.166	2.187	2.200	2.218	2.224	2.224	2.251	2.273	2.273	2.284	2.294	2.1436
2.610	2.616	2.624	2.636	2.630	2.619	2.634	2.632	2.624	2.626	2.622	2.599	2.5404
2.280	2.244	2.217	2.182	2.130	2.100	2.068	2.046	2.041	2.026	2.021	2.031	2.2922
2.550	2.573	2.603	2.622	2.652	2.670	2.684	2.693	2.727	2.741	2.756	2.756	2.4839
2.859	2.854	2.852	2.855	2.852	2.849	—	—	—	—	—	—	—
—	—	—	—	—	—	2.865	2.86	2.884	2.887	2.903	2.933	2.8532
2.968	2.973	2.971	2.961	2.950	2.951	2.936	2.926	2.928	2.912	2.904	2.876	2.9555
2.627	2.625	2.625	2.629	2.623	2.619	2.595	2.587	2.573	2.549	2.525	2.525	2.6812
2.585	2.619	2.645	2.673	2.694	2.712	2.729	2.759	2.789	2.821	2.862	2.876	2.6200
2.984	2.964	2.942	2.934	2.932	2.922	2.897	2.889	2.879	2.863	2.841	2.811	2.9358
2.6657	2.6674	2.6692	2.6712	2.6701	2.6676	2.6752	2.6737	2.6740	2.6697	2.6653	2.6584	2.6652
2.724	2.712	2.716	2.701	2.701	2.685	2.678	2.676	2.674	2.670	2.640	2.628	2.7324
2.622	2.638	2.640	2.649	2.657	2.668	—	—	—	—	—	—	2.6275
—	—	—	—	—	—	2.622	2.614	2.614	2.599	2.581	2.559	2.4432
2.399	2.395	2.403	2.399	2.411	2.427	2.433	2.433	2.461	2.503	2.537	2.579	2.4432
2.930	2.938	2.938	2.949	2.949	2.950	2.948	2.948	2.939	2.926	2.908	2.895	2.8653
2.631	2.627	2.623	2.603	2.593	2.583	2.572	2.543	2.543	2.516	2.498	2.482	2.6596
2.379	2.398	2.420	2.434	2.440	2.470	2.472	2.483	2.499	2.496	2.496	2.484	2.4190
2.269	2.268	2.252	2.237	2.225	2.221	2.221	2.221	2.251	2.261	2.271	2.272	2.3198
2.446	2.480	2.493	2.504	2.517	2.535	—	—	—	—	—	—	—
—	—	—	—	—	—	2.345	2.309	2.270	2.243	2.219	2.202	2.3609
2.436	2.450	2.462	2.452	2.452	2.470	2.480	2.493	2.515	2.527	2.565	2.607	2.4176
3.057	3.095	3.131	3.156	3.170	3.196	3.217	3.211	3.231	3.232	3.226	3.241	3.0015
3.053	3.046	3.032	3.009	2.995	2.987	2.977	2.959	2.957	2.949	2.944	2.927	3.0860
2.894	2.923	2.899	2.917	2.927	2.931	2.939	2.947	2.965	2.978	2.976	2.962	2.9205
2.980	2.972	2.962	2.931	2.904	2.864	2.816	2.798	2.760	2.738	2.722	2.701	2.9150
2.676	2.674	2.658	2.658	2.615	2.577	—	—	—	—	—	—	—
—	—	—	—	—	—	2.659	2.653	2.638	2.650	2.644	2.640	2.6663
2.839	2.859	2.883	2.901	2.893	2.880	2.864	2.881	2.886	2.886	2.877	2.864	2.8101
2.798	2.802	2.798	2.793	2.789	2.777	2.751	2.747	2.759	2.755	2.745	2.741	2.8021
2.853	2.868	2.866	2.866	2.878	2.904	2.903	2.899	2.899	2.888	2.876	2.866	2.8297
2.699	2.700	2.668	2.663	2.655	2.647	2.632	2.620	3.618	2.613	2.603	2.580	2.7162
2.533	2.533	2.536	2.530	2.547	2.549	2.546	2.548	2.566	2.575	2.577	2.577	2.5468
2.588	2.588	2.582	2.577	2.575	2.575	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	3.6228
—	—	—	—	—	—	2.748	2.736	2.734	2.699	2.699	2.683	—
2.446	2.449	2.443	2.435	2.432	2.434	2.424	2.420	2.445	2.445	2.457	2.454	2.4920
2.576	2.586	2.583	2.569	2.556	2.535	2.527	2.509	2.494	2.484	2.476	2.454	2.5457
2.454	2.474	2.478	2.482	2.497	2.503	2.513	2.525	2.539	2.551	2.549	2.550	2.4638
2.654	2.656	2.676	2.676	2.666	2.670	2.656	2.663	2.674	2.679	2.672	2.665	2.6454
2.685	2.687	2.689	2.690	2.694	2.698	—	—	—	—	—	—	—
—	—	—	—	—	—	2.890	2.886	2.896	2.888	2.882	2.880	2.7395
2.6648	2.6727	2.6732	2.6712	2.6695	2.6694	2.6733	2.6689	2.6731	2.6700	2.6656	2.6593	2.6659



STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	2	22.7	24.2	25.2	26.9	29.5	30.9	31.0	30.5	29.9	29.2	28.7	28.0
	3	11.6	10.2	9.9	10.9	11.6	12.8	13.2	14.3	15.0	14.8	12.7	11.3
	4	9.7	9.8	10.4	11.5	14.2	17.5	18.6	21.1	21.2	21.8	21.4	21.2
	5	24.3	24.4	24.9	26.2	29.2	32.6	33.1	33.2	33.1	32.5	32.4	31.9
	6	31.4	32.0	31.6	32.2	32.6	34.2	35.4	36.6	37.5	38.1	38.2	38.4
	7	40.2	39.2	39.2	40.7	41.9	42.5	42.5	41.9	42.9	41.8	40.7	38.8
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	21.8	21.5	21.4	24.0	26.2	27.2	29.8	29.8	30.8	29.7	29.2	28.0
	10	32.2	32.3	32.6	33.2	34.2	34.6	34.8	34.7	34.8	35.0	35.0	34.4
	11	27.9	27.2	27.4	29.4	29.7	30.6	32.0	32.2	32.8	32.8	32.3	32.1
	12	30.1	30.2	30.2	30.5	31.2	32.0	32.0	32.0	32.4	33.1	33.1	33.2
	13	33.4	33.3	33.5	33.7	33.7	33.7	33.5	33.2	31.4	28.0	26.7	25.5
	14	25.4	24.6	23.9	23.6	24.0	24.9	25.5	25.5	26.0	25.5	24.5	23.2
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	29.4	27.8	26.3	24.3	23.9	23.6	23.8	23.9	23.8	23.7	23.5	23.6
	17	20.4	20.4	21.6	24.4	26.9	27.7	28.2	28.5	28.1	27.7	26.8	26.4
	18	27.9	27.2	29.6	31.2	36.3	36.8	39.0	40.7	42.0	43.7	43.7	38.2
	19	36.1	37.4	37.4	38.4	37.8	39.5	39.9	41.8	42.2	42.0	41.7	41.6
	20	37.7	37.6	38.4	37.3	38.0	38.7	40.0	38.8	38.8	37.8	39.8	38.8
	21	35.4	34.1	38.2	39.5	42.0	48.0	48.7	48.5	50.2	54.8	53.7	50.5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	28.1	30.6	30.4	30.3	32.4	33.4	34.0	34.6	35.4	35.0	35.5	34.8
	24	33.0	33.2	32.2	30.7	29.4	33.2	34.5	35.5	34.7	34.5	33.7	32.0
	25	30.2	29.5	29.2	28.4	25.7	23.7	21.3	19.7	18.0	17.1	15.7	13.9
	26	3.6	3.0	3.1	4.3	7.4	11.5	13.0	15.5	16.5	17.2	17.8	18.0
	27	27.5	25.4	25.3	25.4	26.2	27.8	28.2	29.8	30.3	30.0	30.0	29.6
	28	25.0	24.8	24.2	24.8	25.8	27.0	29.8	28.6	28.5	28.9	29.2	27.5
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	22.4	20.4	20.7	25.8	28.0	30.8	31.7	33.5	34.1	33.6	31.7	31.0
	31	33.0	33.8	34.8	35.1	35.2	35.3	35.7	36.2	36.2	36.7	36.5	35.8
	Hourly Means	26.94	26.70	26.98	27.80	28.96	30.40	31.12	31.56	31.79	31.73	31.32	30.30
FEBRUARY.	1	17.0	15.7	15.9	16.4	16.5	17.7	17.6	17.6	18.4	19.2	18.0	16.4
	2	0.1	-0.1	1.3	3.0	6.8	11.2	13.2	15.2	18.2	18.6	19.4	18.4
	3	23.0	23.1	23.1	23.2	24.5	25.0	25.8	26.5	26.7	26.5	26.7	25.7
	4	18.2	19.8	21.7	23.7	24.7	27.3	30.8	31.4	30.2	30.5	30.8	28.9
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	13.5	12.2	11.9	12.5	13.2	14.4	16.6	15.7	14.3	13.6	11.7	9.5
	7	8.3	8.4	8.6	9.2	10.7	12.5	13.5	16.2	17.4	17.0	16.8	15.6
	8	10.8	11.2	10.9	11.4	13.4	16.0	17.5	17.6	17.4	18.0	17.6	16.6
	9	6.2	7.7	10.0	13.8	15.4	17.2	19.2	19.7	20.7	20.5	20.2	19.5
	10	18.4	19.0	19.3	21.2	22.2	22.6	23.5	23.4	24.2	25.9	26.6	28.8
	11	32.4	29.0	24.3	22.3	21.5	21.3	21.1	21.4	21.5	22.6	22.4	19.8
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	12.6	12.2	11.7	14.6	15.4	17.0	20.0	20.2	19.8	20.2	19.4	18.4
	14	10.6	10.0	9.8	10.0	9.8	11.0	11.6	12.0	12.2	11.8	11.8	11.5
	15	6.0	6.3	7.0	8.6	11.4	13.2	15.8	17.4	17.8	18.3	16.8	15.4
	16	7.1	6.8	5.5	7.9	10.2	13.5	14.0	14.8	15.0	14.4	13.9	12.5
	17	-8.3	-8.3	-4.4	1.6	7.0	9.7	12.2	13.5	13.8	14.7	12.0	11.0
	18	-7.1	-6.8	-4.5	0.5	6.4	9.5	12.2	13.6	14.8	14.0	14.8	13.5
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	5.8	2.7	7.0	12.4	17.4	19.4	21.5	24.4	24.8	24.0	24.0	23.4
	21	12.9	14.6	17.7	20.8	24.2	26.4	26.4	28.2	27.9	27.3	27.6	26.0
	22	19.5	19.4	20.1	21.1	22.0	22.3	21.3	20.4	20.5	20.2	18.8	17.2
	23	5.1	4.5	8.0	10.8	13.3	14.9	16.3	17.4	19.5	18.8	19.0	18.2
	24	9.1	9.4	11.3	13.6	17.6	19.4	20.8	24.8	27.3	26.2	27.2	26.9
	25	24.1	23.8	23.6	23.9	25.4	28.2	30.7	32.3	33.8	34.3	32.4	32.2
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	21.0	20.0	20.4	21.2	22.2	24.2	24.8	26.7	25.7	25.7	26.1	25.2
	28	20.0	19.8	21.0	22.6	23.7	25.8	28.2	28.5	27.7	26.3	25.2	23.7
Hourly Means	11.93	11.68	12.55	14.43	16.45	18.32	19.77	20.79	21.23	21.19	20.80	19.76	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
27.2	26.9	25.7	24.9	23.5	21.8	19.9	19.4	18.5	16.4	14.4	12.7	24.50
10.5	10.0	11.0	11.8	12.4	12.2	11.5	10.8	10.7	10.6	10.2	10.0	11.67
20.4	20.8	22.2	21.3	19.3	19.8	19.8	20.1	20.4	21.5	22.2	23.8	18.75
32.7	32.0	30.9	28.4	29.2	25.0	24.0	23.5	23.9	24.7	27.8	30.3	28.76
38.5	38.2	38.5	38.9	39.2	39.0	38.8	39.8	40.2	39.4	39.6	40.2	37.02
37.0	36.0	35.4	35.1	35.2	35.3	—	—	—	—	—	—	35.25
—	—	—	—	—	—	24.4	23.8	23.6	23.0	22.6	22.2	—
27.7	27.4	27.7	29.0	29.8	30.2	31.8	32.0	31.4	31.4	31.7	32.1	28.40
33.6	33.4	32.6	32.3	32.8	32.7	32.8	32.5	32.3	31.8	29.8	28.4	33.03
31.5	31.4	31.5	31.4	31.3	31.2	31.0	30.8	30.8	30.6	30.6	30.4	30.79
33.3	33.5	33.3	33.4	33.5	33.8	33.4	33.2	33.2	33.0	33.0	33.2	32.49
24.2	23.7	23.5	22.8	22.2	21.8	21.8	22.4	22.8	23.6	24.2	25.1	27.40
24.4	24.6	24.6	25.4	26.2	26.8	—	—	—	—	—	—	—
—	—	—	—	—	—	24.6	25.9	27.5	28.2	28.8	29.8	25.56
24.2	22.6	22.8	24.7	25.0	25.6	24.3	22.0	21.4	21.5	21.2	20.4	23.89
26.5	26.7	27.2	27.2	27.5	27.6	28.4	28.9	28.8	29.2	29.5	28.3	26.79
34.6	34.8	35.0	37.7	37.0	38.7	38.9	34.2	34.0	34.0	36.6	35.7	36.15
40.8	40.5	41.8	41.2	39.0	37.4	37.4	38.8	39.3	37.4	39.0	40.2	39.52
39.2	37.5	38.2	38.5	38.5	38.5	38.0	37.0	37.5	38.0	37.0	37.0	38.19
47.5	45.5	43.6	41.5	40.2	39.2	—	—	—	—	—	—	—
—	—	—	—	—	—	30.1	30.0	30.3	29.5	28.5	28.3	40.78
34.2	34.5	34.3	34.4	34.0	34.7	35.3	35.0	35.4	35.5	35.5	34.4	33.82
31.2	30.8	31.2	30.9	31.8	32.0	31.0	30.8	30.8	30.6	30.6	30.5	32.03
12.8	11.9	11.0	10.0	9.0	8.4	7.6	7.8	6.2	5.2	4.7	3.8	15.45
19.4	21.8	22.2	23.2	25.3	25.7	23.8	22.7	23.7	26.3	26.0	27.5	17.44
29.3	29.2	29.2	29.7	30.4	28.4	26.8	26.5	26.2	26.4	25.7	25.2	27.85
21.5	19.4	21.4	21.7	22.5	23.0	—	—	—	—	—	—	—
—	—	—	—	—	—	13.0	16.7	18.8	15.5	18.6	21.5	23.24
30.8	31.4	31.5	29.2	30.0	31.2	32.9	34.2	34.4	32.8	33.2	33.0	30.35
33.7	33.4	33.7	33.5	30.0	26.2	23.0	20.7	20.1	19.4	18.6	17.8	30.60
29.49	29.19	29.23	29.16	29.03	28.70	27.09	26.90	27.01	26.75	26.91	26.99	28.84
15.4	12.8	8.8	7.1	6.7	7.1	5.7	2.7	2.2	2.1	2.0	1.0	11.67
16.4	16.4	19.8	20.7	20.4	21.3	21.6	22.0	22.2	22.4	22.6	22.6	15.57
25.3	25.1	25.1	25.0	24.8	24.6	23.5	21.8	16.8	17.2	18.6	18.6	23.59
26.5	24.2	25.4	25.7	25.5	25.6	—	—	—	—	—	—	24.42
—	—	—	—	—	—	21.4	20.8	20.2	19.6	17.8	15.4	—
7.8	7.0	6.4	6.4	6.4	6.0	6.4	6.6	6.5	7.2	7.8	8.0	10.07
14.6	12.6	13.8	13.8	12.8	12.5	11.9	11.7	11.3	11.1	11.0	10.8	12.59
15.5	14.4	13.8	11.8	10.6	10.5	7.9	2.8	4.6	6.0	6.5	6.1	12.04
18.1	16.2	14.9	12.2	11.2	10.5	10.4	11.6	12.5	13.4	16.4	18.2	14.82
30.0	30.8	31.6	32.0	32.6	33.8	36.4	37.4	37.6	37.6	35.3	34.7	28.54
18.6	16.4	16.0	15.2	14.4	14.8	—	—	—	—	—	—	—
—	—	—	—	—	—	13.3	13.4	13.4	13.6	13.6	13.1	18.98
17.6	17.0	15.6	14.3	14.1	13.8	13.4	12.7	13.0	13.0	13.0	11.6	15.44
10.8	10.3	9.8	9.0	7.4	6.9	6.4	6.5	6.3	6.2	6.2	5.9	9.32
13.8	11.9	10.2	8.8	9.7	8.5	8.7	8.6	8.4	7.6	7.8	7.4	11.06
10.4	7.8	5.6	2.4	0.8	-2.6	-5.4	-5.2	-7.2	-6.5	-8.2	-8.5	4.96
8.8	8.0	7.6	5.4	4.9	3.8	3.2	2.7	2.0	1.3	0.8	-3.2	4.99
8.2	8.5	10.1	10.2	9.6	10.3	—	—	—	—	—	—	9.01
—	—	—	—	—	—	17.8	16.8	14.5	13.4	10.4	5.5	—
22.2	20.6	15.2	11.2	10.8	9.1	11.4	12.5	13.0	12.6	13.0	11.2	15.40
25.4	25.5	24.0	21.4	15.6	12.7	14.4	16.0	18.8	20.2	20.2	19.6	24.41
13.6	11.4	9.8	7.2	5.4	3.6	3.0	4.5	4.7	4.4	4.7	7.0	13.42
14.4	8.6	6.4	5.8	6.4	6.5	6.4	6.3	6.7	6.8	7.0	8.6	10.66
25.8	25.4	24.7	24.0	25.0	24.0	23.0	22.8	23.2	23.0	23.2	23.3	21.71
31.7	31.4	31.0	30.8	30.5	30.4	—	—	—	—	—	—	—
—	—	—	—	—	—	26.8	27.0	26.8	25.5	24.6	22.0	28.47
25.0	24.8	24.3	23.6	23.3	22.8	22.6	21.0	20.6	20.4	20.4	20.2	23.01
22.4	21.5	20.4	19.6	18.2	17.4	17.2	16.8	16.5	16.0	13.4	13.6	21.06
18.26	17.03	16.26	15.15	14.46	13.91	13.64	13.32	13.11	13.09	12.84	12.20	15.92

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	14.0	14.4	15.4	17.7	19.0	19.0	20.0	20.3	20.2	20.0	19.4	18.8
	2	7.6	8.1	8.9	10.8	14.2	16.5	17.8	18.7	19.8	20.2	19.6	18.6
	3	10.2	11.0	12.6	15.2	19.8	21.0	21.8	21.2	21.9	21.9	21.7	20.4
	4	3.7	2.4	7.3	15.6	19.7	21.5	22.9	23.8	25.0	25.0	24.9	23.8
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	6.5	7.0	10.3	12.3	16.0	18.9	22.2	23.7	25.4	25.3	25.8	24.4
	7	-1.2	0.7	5.8	13.1	16.1	19.2	21.2	24.4	26.6	26.8	28.3	28.3
	8	21.3	23.5	24.9	25.5	26.6	27.4	27.6	28.3	28.7	28.8	28.5	28.2
	9	19.3	16.6	20.5	21.6	23.8	26.6	29.0	31.3	30.1	31.1	30.5	30.4
	10	30.7	28.9	29.2	30.6	31.1	31.0	31.3	31.8	32.3	32.9	33.1	33.4
	11	31.2	30.6	29.7	28.5	28.9	29.6	30.4	29.8	30.8	30.4	30.4	33.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	30.6	31.2	31.7	32.4	34.8	34.0	34.7	36.0	35.5	35.8	34.9	33.6
	14	15.2	15.3	16.5	17.4	19.0	20.0	22.2	24.4	26.8	29.2	31.6	28.7
	15	25.1	24.2	23.0	23.8	28.2	30.2	31.0	31.6	29.1	28.2	26.7	25.7
	16	10.7	11.4	16.4	20.6	23.1	25.5	27.6	27.9	27.8	26.5	25.9	25.2
	17	21.0	22.0	23.3	25.2	27.9	29.0	31.2	31.7	31.5	31.7	30.5	28.5
	18	20.4	20.6	22.5	23.7	24.8	26.6	27.6	27.8	27.8	27.8	27.0	27.6
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	15.2	17.8	22.0	23.8	25.7	27.4	28.6	28.8	28.8	28.6	26.8	26.8
	21	18.4	18.3	22.2	24.0	24.2	24.4	25.6	27.2	28.2	29.7	28.5	28.1
	22	11.8	13.1	20.7	23.4	26.8	27.9	29.4	30.8	28.0	31.0	33.2	33.0
	23	10.2	10.4	11.0	11.4	13.4	14.8	15.7	15.4	16.0	16.3	14.8	14.4
	24	10.8	12.0	15.0	17.6	20.4	22.5	23.0	23.8	26.0	26.6	26.8	25.2
	25	14.6	19.4	20.4	21.8	23.8	26.0	26.8	26.8	29.8	27.2	25.5	24.3
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	27.0	26.7	26.7	26.8	27.0	26.2	26.8	27.3	27.2	27.6	27.9	27.7
	28	32.2	32.7	33.6	34.3	35.6	36.7	37.7	38.7	37.2	37.0	34.3	33.0
	29	19.9	22.8	26.3	26.7	28.7	30.6	33.3	35.0	35.0	36.0	35.6	34.4
	30	18.9	18.8	20.2	21.2	23.4	26.4	27.8	29.2	30.0	30.2	28.6	28.0
	31	26.1	26.5	27.0	27.2	27.8	28.5	28.6	29.4	29.2	28.6	28.0	27.7
Hourly Means	17.46	18.01	20.11	21.93	24.07	25.46	26.73	27.60	27.95	28.16	27.73	27.08	
APRIL.	1	21.3	22.4	25.2	26.6	28.5	30.7	32.3	32.8	33.5	33.8	35.5	32.2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	16.4	19.5	26.0	31.1	33.9	35.6	37.2	38.5	37.0	38.2	39.7	42.4
	4	28.5	31.3	33.6	34.8	36.3	37.6	36.3	34.8	34.1	34.2	34.4	34.2
	5	29.2	30.0	33.1	36.3	38.8	39.4	39.5	41.5	39.2	38.4	39.6	39.2
	6	29.8	31.9	33.7	34.4	37.6	38.6	41.6	42.3	38.0	37.2	41.3	40.8
	7	26.8	29.0	32.5	34.0	35.3	36.9	39.8	41.2	40.8	40.5	39.8	39.0
	8	40.4	42.1	44.1	44.3	46.0	46.0	46.2	47.8	50.2	48.3	48.9	46.4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	31.9	31.3	31.7	33.8	35.1	38.4	41.1	42.4	44.0	43.4	42.6	44.0
	11	31.6	33.6	37.3	40.0	41.0	42.9	45.3	44.8	47.0	48.8	50.0	51.2
	12	29.4	33.5	38.6	40.8	46.0	48.8	48.8	49.5	51.6	53.1	53.8	54.1
	13	32.8	40.2	42.1	43.6	45.2	45.0	42.3	42.8	45.4	42.4	41.8	42.4
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	41.2	39.6	40.4	41.5	45.5	49.8	53.6	53.2	56.2	55.0	53.7	50.7
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	39.8	41.4	42.4	44.4	45.2	46.0	45.2	44.5	43.8	44.0	42.7	41.7
	18	40.6	36.2	36.4	34.4	34.4	34.6	34.4	34.4	34.9	36.3	36.4	34.8
	19	36.0	36.4	36.6	37.8	39.0	40.8	43.4	42.8	42.2	43.0	41.8	41.0
	20	39.4	40.2	40.7	41.8	42.7	46.7	46.6	48.5	48.8	51.2	52.4	54.4
	21	33.2	38.0	43.6	46.3	48.8	51.3	55.0	56.8	57.8	60.3	60.1	56.8
	22	47.2	50.8	51.6	53.7	54.8	55.4	54.4	52.4	54.2	52.5	53.8	53.9
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	51.4	51.0	51.7	51.8	52.2	52.6	53.7	56.2	57.6	57.3	56.4	54.8
	25	45.0	45.0	46.2	47.8	49.4	49.6	49.4	49.9	52.2	53.0	55.0	50.3
	26	42.4	43.2	43.8	47.0	51.8	54.0	54.8	59.7	60.9	62.1	59.4	59.5
	27	42.2	42.8	43.8	43.8	45.2	46.2	49.6	52.8	55.1	55.4	57.1	59.6
	28	49.6	51.2	53.4	56.4	55.5	57.4	66.0	68.4	70.5	70.0	69.5	68.1
	29	38.4	38.4	39.0	39.4	40.5	41.4	42.4	42.9	43.9	42.7	43.1	42.6
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	36.02	37.44	39.45	41.07	42.86	44.40	45.85	46.70	47.45	47.55	47.87	47.25	

<sup>a</sup> Good Friday.

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
18.0	17.2	16.6	15.8	14.7	14.3	12.3	12.2	11.0	9.7	8.7	7.4	15.67
17.2	15.8	13.8	11.4	11.0	4.2	3.9	4.8	7.5	9.0	9.6	9.8	12.45
19.8	18.7	18.1	17.2	16.2	15.5	13.0	11.6	12.6	10.4	8.6	6.6	16.12
19.2	18.0	16.0	14.5	13.0	12.0	—	—	—	—	—	—	—
—	—	—	—	—	—	10.0	11.2	9.8	10.2	9.6	8.4	15.31
20.4	18.0	15.4	14.0	13.6	11.2	7.8	4.8	7.2	1.9	0.0	-0.6	13.81
22.0	15.8	13.6	11.9	10.3	10.6	8.6	6.6	8.7	9.7	14.2	17.8	14.96
27.8	27.6	27.2	26.4	25.9	23.8	22.8	21.3	20.5	20.8	19.4	20.3	25.13
22.8	17.3	17.9	17.4	17.0	20.2	22.8	27.6	28.8	29.2	30.0	30.4	24.67
33.4	33.5	33.6	33.8	33.6	33.6	33.6	34.2	34.3	34.2	33.7	32.8	32.52
29.6	26.8	25.0	23.2	19.2	15.2	—	—	—	—	—	—	—
—	—	—	—	—	—	30.6	30.2	29.8	30.2	30.4	30.6	28.50
28.0	24.8	22.8	22.2	21.2	19.2	16.8	15.0	13.1	16.2	16.0	11.2	26.32
26.6	26.8	26.2	25.8	26.2	28.5	28.9	29.0	29.5	27.6	26.0	25.0	24.68
25.1	25.0	23.4	18.0	14.4	13.0	14.0	9.2	7.8	8.8	8.8	9.5	20.99
24.5	23.5	23.0	21.4	20.6	19.8	19.2	19.3	19.3	19.5	19.8	20.3	21.62
27.8	27.0	25.2	25.8	24.0	23.6	22.5	21.4	19.9	19.0	18.0	19.8	25.31
25.0	23.0	23.2	22.2	21.8	20.2	—	—	—	—	—	—	—
—	—	—	—	—	—	19.4	18.2	16.9	16.5	15.3	15.4	22.55
25.6	25.2	23.8	22.0	22.4	21.8	21.0	20.4	18.4	17.8	18.2	18.6	23.15
26.5	25.2	24.8	24.4	23.6	23.4	23.0	22.6	21.6	19.6	17.8	13.7	23.54
27.4	23.5	21.4	20.0	19.2	18.2	16.8	16.0	15.2	13.8	12.4	11.0	21.83
13.8	14.2	14.2	14.6	15.2	15.6	15.6	15.0	14.0	12.8	11.7	11.2	13.82
22.2	20.3	19.6	18.1	16.2	16.0	15.8	15.9	16.4	16.8	15.5	15.0	19.06
24.0	23.0	22.1	20.5	19.5	17.4	—	—	—	—	—	—	—
—	—	—	—	—	—	19.0	19.1	19.2	20.5	25.0	26.3	22.59
26.9	26.9	27.0	27.0	27.8	28.4	28.8	29.6	30.0	31.0	30.8	31.7	27.95
31.0	30.2	29.6	29.8	29.6	28.0	27.0	25.6	24.6	22.9	21.8	20.2	30.97
32.8	31.8	31.0	29.8	28.6	27.3	26.2	23.1	21.3	20.6	20.1	19.1	28.17
27.2	27.3	27.6	28.6	26.9	26.9	26.0	26.1	25.8	26.5	26.0	26.3	26.00
27.0	27.6	26.9	25.8	25.0	24.0	23.4	23.2	22.4	22.0	21.7	22.6	26.09
24.87	23.48	22.56	21.54	20.62	19.70	19.59	19.01	18.73	18.41	18.11	17.79	22.36
28.4	27.4	27.2	27.0	26.5	24.4	—	—	—	—	—	—	26.12
—	—	—	—	—	—	20.4	18.8	19.0	18.6	18.4	16.0	—
36.2	30.2	27.5	26.0	26.4	27.0	25.2	23.8	26.0	25.9	27.1	26.8	30.15
33.6	33.2	33.0	33.2	33.2	33.6	33.6	32.5	31.1	28.9	26.9	27.8	32.95
36.8	36.2	35.7	34.4	31.4	32.0	32.2	32.2	31.9	31.2	29.4	29.2	34.87
38.3	35.9	33.6	32.4	29.4	30.5	30.8	30.0	29.4	29.3	28.0	26.5	34.22
38.6	36.6	36.2	35.8	34.4	34.8	34.8	34.6	35.2	35.0	36.8	39.8	36.17
43.6	40.4	37.8	37.0	36.8	37.0	—	—	—	—	—	—	—
—	—	—	—	—	—	33.9	32.8	32.2	32.1	32.0	31.1	40.72
43.6	38.8	37.2	36.6	35.2	34.8	33.4	32.4	31.7	30.0	32.7	31.3	36.56
49.7	45.2	41.2	39.4	38.7	38.0	37.9	31.8	30.4	29.8	28.5	27.8	39.66
46.6	42.5	38.9	37.4	36.5	35.2	34.8	34.6	35.4	36.4	35.4	32.5	41.42
40.2	40.4	39.4	37.6	36.5	35.0	—	—	—	—	—	—	—
—	—	—	—	—	—	44.8	43.7	43.1	41.9	41.1	40.4	41.32
50.3	49.0	49.7	47.2	45.7	45.3	—	—	—	—	—	—	—
—	—	—	—	—	—	40.0	39.0	38.2	37.8	38.5	38.4	45.81
41.2	40.4	40.6	40.0	40.2	40.4	42.8	43.0	42.6	42.4	42.6	41.4	42.43
35.4	35.5	36.2	36.5	36.2	36.2	35.9	35.6	35.5	35.4	35.5	35.6	35.72
40.2	39.9	39.9	40.2	40.4	39.5	38.2	36.8	38.5	39.4	39.4	39.0	39.67
53.3	44.9	41.4	39.0	36.4	35.6	34.8	33.8	34.8	35.0	32.8	31.2	41.93
52.5	50.0	47.5	45.6	44.2	45.2	45.8	44.9	45.6	45.5	45.0	43.2	48.46
45.0	43.7	45.8	45.7	46.6	46.2	—	—	—	—	—	—	—
—	—	—	—	—	—	52.2	52.0	52.5	53.0	52.3	52.2	50.91
53.5	51.8	48.5	47.6	46.8	45.2	44.8	44.0	44.0	44.3	44.2	43.7	50.21
45.7	45.3	45.6	46.0	45.3	46.2	45.4	45.0	44.4	44.0	44.6	43.0	47.22
61.2	58.5	55.5	53.3	51.5	50.0	48.0	47.8	43.2	41.0	41.8	41.8	51.34
55.0	47.0	50.8	52.2	49.2	47.2	47.7	47.0	41.5	40.1	40.3	47.4	48.27
65.0	58.9	56.0	53.7	51.2	49.7	48.1	45.5	44.0	42.5	42.0	39.0	55.48
41.0	38.4	37.4	36.0	35.2	33.0	—	—	—	—	—	—	—
—	—	—	—	—	—	38.4	38.8	39.2	39.2	36.5	36.2	39.33
44.79	42.09	40.94	39.99	38.91	38.42	38.50	37.52	37.06	36.61	36.32	35.89	41.29

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	37.0	38.6	38.8	40.6	41.3	39.6	42.6	43.2	41.7	42.4	41.3	40.8
	2	35.0	37.0	39.8	41.6	43.1	45.1	46.9	49.3	48.6	49.3	52.7	55.2
	3	33.0	39.2	42.6	46.4	48.8	50.4	49.4	53.1	51.2	56.3	53.2	50.8
	4	40.8	40.8	43.8	44.4	43.6	43.6	44.4	44.6	46.0	46.0	45.2	42.3
	5	39.0	40.0	41.2	41.6	40.2	39.8	38.6	38.5	39.9	41.6	43.7	41.9
	6	42.0	43.8	45.7	45.6	45.8	50.0	52.8	54.2	55.7	55.1	56.4	55.8
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	46.0	47.6	49.4	49.6	52.2	53.4	54.4	55.9	54.7	54.8	53.6	53.2
	9	37.4	42.6	47.2	47.6	50.4	51.2	53.6	53.3	56.4	58.9	57.8	57.5
	10	51.2	52.2	53.6	53.6	53.2	53.4	54.2	55.8	57.6	57.2	57.1	55.8
	11	49.6	52.0	52.6	54.6	56.4	58.4	59.0	60.7	61.3	61.7	63.7	66.3
	12	50.2	55.4	60.7	56.4	56.5	59.3	62.1	66.5	68.1	70.0	70.0	66.4
	13	49.6	51.6	55.0	57.8	60.6	63.8	66.4	68.4	71.2	70.5	70.4	70.9
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	58.0	60.6	62.2	65.4	66.6	69.0	63.8	72.1	65.2	70.5	79.9	79.2
	16	52.8	54.6	56.0	58.0	59.6	62.0	62.8	64.6	65.7	67.0	67.5	66.9
	17	39.0	41.0	43.6	47.0	50.4	49.2	54.0	56.8	56.4	55.0	58.2	62.2
	18	38.0	43.0	48.6	48.0	49.0	51.0	53.6	54.9	57.5	59.9	59.8	66.0
	19	44.6	47.6	53.0	56.4	59.4	60.2	60.8	61.6	63.1	60.1	62.6	60.6
	20	41.6	48.4	53.4	54.6	56.6	56.8	58.8	62.5	65.1	66.5	68.5	68.6
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	49.8	53.4	54.4	54.8	56.6	58.0	56.4	57.2	56.8	56.8	54.9	54.9
	23	50.0	53.4	54.6	54.8	58.6	60.8	55.0	54.5	59.3	62.0	59.4	54.7
	24	43.8	47.0	50.8	53.4	55.8	57.8	59.0	63.8	66.8	69.6	71.0	69.4
	25	44.8	48.4	51.2	53.0	53.6	55.6	57.4	57.8	59.4	62.0	62.2	60.2
	26	49.6	50.4	49.8	52.0	51.2	54.4	58.6	59.5	57.5	55.2	54.1	53.9
	27	53.8	53.1	53.5	55.5	56.7	56.4	56.6	56.4	56.1	55.7	55.5	55.5
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	49.4	52.0	52.8	55.0	56.8	57.8	55.6	59.0	57.6	61.6	66.0	67.8
	30	46.6	50.0	53.4	53.8	52.4	53.0	47.6	47.3	43.6	42.0	40.3	41.2
	31	39.6	40.4	41.4	41.8	42.5	42.5	43.9	43.5	44.8	45.4	43.6	44.1
Hourly Means	44.90	47.56	49.97	51.23	52.51	53.80	54.42	56.11	56.46	57.54	58.10	57.87	
JUNE.	1	38.8	41.0	42.2	42.4	45.1	45.6	46.2	47.3	49.1	50.3	47.5	46.1
	2	33.8	40.4	43.0	44.8	46.2	48.2	50.4	48.3	48.0	47.9	48.3	45.2
	3	46.2	49.8	51.4	52.4	52.2	53.2	53.0	51.5	51.3	51.8	51.7	52.1
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	46.8	47.0	47.4	48.0	49.0	49.5	52.0	51.3	50.8	50.6	49.9	49.6
	6	45.4	48.2	49.2	52.1	54.6	55.2	56.4	52.2	54.2	51.1	51.2	52.1
	7	41.0	45.8	49.6	52.7	54.4	56.0	59.4	59.9	60.3	59.7	57.0	56.7
	8	50.4	53.0	53.2	53.0	50.8	49.4	50.5	51.9	53.6	53.8	55.6	57.8
	9	60.8	61.4	62.4	67.8	69.0	69.8	72.0	75.4	71.4	69.7	73.8	72.8
	10	48.0	48.4	49.2	48.6	49.8	51.0	53.0	51.3	51.3	51.9	53.5	52.7
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	49.2	52.2	52.2	56.0	59.0	62.8	65.0	68.2	71.1	73.5	73.7	69.9
	13	50.6	53.6	55.2	58.4	59.0	60.2	61.8	64.1	64.9	68.5	64.2	59.7
	14	54.2	57.2	59.2	61.0	62.8	64.8	66.0	66.6	67.5	68.1	69.4	69.5
	15	45.6	47.4	50.4	52.0	50.6	53.6	55.0	57.6	60.8	59.5	59.8	59.1
	16	50.8	52.6	54.4	57.0	60.0	60.0	60.0	60.7	62.6	62.9	65.5	66.6
	17	51.8	54.6	57.8	59.4	62.0	61.8	63.6	64.9	64.3	64.0	68.2	69.0
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	50.6	54.0	55.8	58.4	61.4	64.0	66.2	67.3	69.5	67.3	65.7	71.3
	20	54.8	59.2	61.4	63.8	67.0	70.0	72.3	74.0	77.2	74.4	74.8	75.7
	21	62.4	64.6	65.3	67.4	71.0	73.7	75.5	76.8	79.5	80.4	78.9	77.7
	22	59.8	65.0	67.6	67.9	71.9	73.7	73.7	78.2	78.8	81.6	81.4	78.2
	23	64.2	65.0	66.6	66.6	68.2	69.8	73.2	68.5	70.2	78.8	78.0	77.3
	24	62.6	63.3	64.6	65.2	63.6	65.2	66.5	71.4	73.1	76.0	80.1	80.9
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	58.0	61.6	62.2	65.4	68.0	66.0	71.4	71.0	75.8	78.2	80.5	80.2
	27	64.0	67.0	68.2	70.2	73.0	76.2	78.4	80.8	79.2	80.0	81.5	80.2
	28	65.4	67.4	68.8	69.3	72.6	72.2	71.3	77.7	78.0	78.4	78.1	75.9
	29	64.0	66.4	68.8	70.0	72.0	74.6	74.8	74.5	74.1	75.3	79.8	73.8
	30	61.0	66.4	67.4	69.2	71.5	73.3	75.8	78.8	80.0	81.4	78.2	80.2
	Hourly Means	53.08	55.87	57.44	59.19	60.95	62.30	63.98	65.01	66.02	66.73	67.17	66.55

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
40.5	39.2	37.8	37.0	36.6	35.9	36.7	37.0	37.5	35.0	33.2	32.4	38.61
51.7	45.3	43.7	41.7	38.5	37.0	31.0	31.0	30.2	30.4	29.8	30.1	41.00
47.8	43.6	42.4	42.5	41.2	39.6	39.5	39.4	38.6	38.3	38.9	38.8	44.38
40.5	40.1	39.3	38.7	38.2	38.0	37.9	37.6	37.0	36.6	37.0	37.8	41.01
41.2	40.9	41.7	42.4	42.5	42.3	40.5	39.5	38.4	38.0	40.5	41.4	40.64
55.4	51.6	49.8	42.3	42.1	41.2	—	—	—	—	—	—	—
—	—	—	—	—	—	50.0	47.8	47.6	47.4	46.2	45.4	48.74
52.7	50.1	46.4	43.9	42.5	40.8	40.2	39.8	37.8	37.2	35.0	33.2	46.85
53.4	51.2	48.3	47.2	48.8	48.6	46.9	46.0	50.2	49.4	50.2	50.4	50.19
50.4	48.7	47.7	47.0	47.1	47.5	47.4	46.8	47.2	46.5	47.4	47.6	51.09
64.6	58.8	51.9	48.9	47.3	45.4	44.5	44.8	43.8	45.6	46.8	47.4	53.59
57.6	56.2	55.4	53.5	50.6	51.6	50.8	50.2	49.7	48.6	49.5	49.2	56.88
69.8	63.9	59.0	59.5	55.6	55.3	—	—	—	—	—	—	—
—	—	—	—	—	—	60.9	61.4	53.9	53.2	53.7	56.2	60.78
77.5	69.0	63.5	59.8	58.7	57.2	56.6	56.0	50.3	50.7	50.7	51.8	63.10
64.7	56.7	50.2	46.6	44.4	42.9	42.0	40.8	39.8	38.4	37.5	36.0	53.23
57.5	52.1	45.9	42.7	41.5	39.8	40.2	39.1	35.8	32.4	31.2	32.0	45.96
64.8	54.2	47.2	43.1	41.7	43.0	43.2	43.0	42.7	41.0	40.7	42.6	49.02
57.8	51.4	45.8	43.2	41.3	39.5	39.2	39.0	38.5	35.4	34.8	35.2	49.63
61.7	55.8	49.0	46.2	43.8	41.2	—	—	—	—	—	—	—
—	—	—	—	—	—	47.8	45.4	46.6	46.7	45.8	46.6	53.25
51.8	50.3	50.5	50.3	50.8	50.7	50.1	48.9	48.8	48.4	47.4	48.0	52.50
53.3	53.5	49.2	45.0	43.6	43.8	42.6	41.3	42.9	42.6	42.3	42.2	50.81
67.2	59.6	55.0	51.3	49.8	48.7	47.6	46.5	45.1	44.7	42.4	41.2	54.47
57.5	54.2	52.2	51.5	50.3	50.1	51.7	53.0	51.0	52.2	50.4	49.4	53.71
52.4	53.2	52.5	53.6	53.9	54.4	52.0	50.6	52.0	53.4	51.2	54.5	53.33
55.4	54.9	53.9	51.8	49.4	44.5	—	—	—	—	—	—	—
—	—	—	—	—	—	51.7	50.8	49.2	48.4	48.0	48.4	52.97
62.2	59.1	53.3	53.8	51.9	49.6	48.0	46.6	43.7	43.1	42.7	40.0	53.60
41.2	41.3	39.8	38.7	40.1	39.2	38.5	37.5	36.3	36.2	36.5	36.0	43.02
43.2	42.3	39.6	39.4	36.9	36.0	35.6	36.2	37.2	37.4	37.6	37.6	40.52
55.33	51.75	48.56	46.73	45.52	44.59	44.93	44.30	43.40	42.86	42.50	42.64	49.73
49.4	45.7	45.1	39.6	34.0	33.0	30.8	30.5	29.4	29.0	28.8	30.8	40.32
43.0	42.4	42.2	41.5	40.9	41.2	41.5	41.7	42.2	42.7	43.2	44.0	43.79
51.7	50.9	49.1	49.2	48.7	47.2	—	—	—	—	—	—	—
—	—	—	—	—	—	50.5	50.0	49.2	48.6	47.8	47.2	50.28
48.8	48.0	47.5	46.7	45.4	44.9	45.1	44.4	44.0	44.0	44.1	44.4	47.47
51.4	49.3	47.9	46.3	43.7	43.1	42.9	42.8	40.0	37.5	35.8	38.4	47.54
55.6	54.4	52.1	51.3	50.5	50.3	49.5	48.6	47.2	46.4	44.6	45.4	52.02
57.2	55.2	53.4	52.7	50.7	49.4	54.4	58.0	58.3	57.2	55.5	59.2	53.92
70.7	68.7	64.6	59.9	59.0	56.3	55.7	55.2	50.6	49.4	47.8	47.2	62.97
51.7	50.6	49.6	49.0	48.5	47.8	—	—	—	—	—	—	—
—	—	—	—	—	—	52.4	48.3	47.7	48.0	46.3	44.8	49.73
61.9	56.9	54.7	53.2	50.4	50.2	50.7	50.9	50.0	49.6	49.0	48.2	57.44
70.1	66.7	60.2	59.5	57.2	56.8	54.6	53.9	52.8	53.2	52.3	52.0	58.73
70.0	66.2	60.8	58.1	52.7	49.8	48.1	47.7	45.1	44.0	41.5	40.0	57.93
56.2	54.5	51.9	50.7	50.7	51.0	51.2	51.2	51.1	51.0	50.5	50.0	52.97
64.7	60.0	57.6	56.4	55.7	53.2	52.2	51.3	50.6	49.7	49.5	49.6	56.82
69.5	66.4	56.5	54.9	53.7	53.4	—	—	—	—	—	—	—
—	—	—	—	—	—	48.5	48.0	46.8	45.5	44.6	45.2	57.27
68.3	64.2	60.7	56.8	55.5	54.4	52.2	50.7	50.2	49.6	48.7	49.6	58.85
71.5	69.5	66.5	66.5	65.7	62.3	60.3	59.1	59.4	59.8	59.0	58.0	65.92
79.2	75.8	70.2	69.4	66.9	64.7	70.7	61.2	59.4	58.4	56.6	56.6	69.26
78.9	75.1	72.7	71.5	66.2	64.0	62.2	62.5	61.1	60.2	60.4	61.6	69.76
77.6	73.5	69.0	64.9	63.9	62.8	60.4	59.7	61.9	61.9	63.4	61.8	67.80
81.2	77.1	67.2	61.9	59.7	57.7	—	—	—	—	—	—	—
—	—	—	—	—	—	54.0	53.5	52.8	52.0	53.9	54.8	64.93
81.4	75.4	70.8	64.2	64.6	64.2	63.7	62.7	63.7	59.8	59.4	59.2	67.81
75.4	74.1	72.7	69.7	69.0	65.5	66.7	67.0	66.8	65.7	65.0	64.0	71.68
69.1	68.5	67.1	64.6	64.2	63.9	63.5	62.7	62.1	61.2	61.5	62.0	68.56
75.7	74.8	69.2	66.2	65.8	63.2	60.7	58.7	58.5	56.5	55.5	56.2	67.88
80.4	73.5	72.2	69.5	67.5	66.0	65.4	65.2	64.4	64.2	63.8	63.8	70.80
65.79	62.98	59.67	57.47	55.80	54.47	54.15	53.29	52.51	51.76	51.10	51.31	58.94

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	67.4	70.8	72.6	75.2	76.2	77.5	80.8	82.7	84.6	86.4	86.2	84.7
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	50.4	54.4	56.2	57.2	57.8	59.9	62.3	65.1	62.2	65.8	68.6	69.2
	4	52.4	56.4	60.2	65.2	65.2	66.4	68.2	69.2	68.7	70.0	66.2	70.9
	5	57.8	59.6	60.8	62.2	62.6	63.0	65.6	67.0	66.5	68.5	71.5	74.0
	6	55.8	60.2	64.8	67.4	66.5	67.0	68.2	70.5	74.6	76.6	77.2	79.9
	7	56.4	57.4	59.0	60.4	67.4	70.2	69.4	71.2	72.9	74.7	76.4	78.2
	8	61.0	65.2	69.6	73.0	76.4	78.0	78.6	78.9	81.1	81.6	81.0	80.5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	60.6	64.4	65.9	67.7	69.9	70.3	71.0	74.8	76.1	72.6	72.4	68.2
	11	59.0	62.0	56.8	58.5	61.4	62.8	64.0	64.8	67.1	66.7	68.9	67.2
	12	47.0	54.8	57.2	60.8	64.8	67.2	69.8	72.4	74.0	73.0	74.7	77.2
	13	51.0	58.4	60.2	63.8	66.8	68.6	70.2	72.1	73.3	75.3	74.1	74.2
	14	57.2	61.6	64.8	68.4	72.6	74.7	78.4	81.1	83.2	80.7	75.9	74.6
	15	63.0	63.2	64.0	65.0	66.3	67.6	71.0	74.1	72.5	71.0	70.1	73.1
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	63.2	63.5	64.7	63.4	65.1	69.4	73.6	75.4	78.4	77.0	71.5	71.4
	18	66.5	70.0	71.8	71.4	72.5	74.6	77.6	81.0	83.5	83.6	84.2	83.8
	19	62.3	62.2	61.3	61.2	63.5	64.8	65.4	66.6	68.0	68.7	69.8	70.7
	20	49.3	53.7	57.6	59.5	61.4	62.8	63.8	65.9	65.6	68.1	71.1	74.3
	21	48.0	56.2	60.0	60.8	64.2	67.0	70.6	71.8	73.5	74.7	75.6	75.1
	22	57.6	62.6	64.0	66.0	68.6	71.2	75.0	78.5	80.6	79.7	79.9	78.1
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	64.6	66.0	69.0	69.8	70.8	72.5	73.2	75.5	76.5	76.4	77.2	77.5
	25	59.2	61.7	63.1	65.6	66.8	69.5	71.1	73.2	75.0	76.1	77.1	75.4
	26	58.6	63.4	67.0	70.2	72.0	76.1	78.4	76.5	83.6	79.5	77.8	72.8
	27	63.4	65.0	66.8	68.8	70.0	71.0	70.2	72.0	71.5	71.5	72.0	74.7
	28	60.8	62.0	65.4	67.5	70.6	74.0	78.0	80.1	80.4	75.2	74.8	73.6
	29	63.8	62.8	62.5	63.6	64.6	64.4	64.8	64.7	64.3	65.2	66.0	67.0
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	47.4	57.8	61.3	64.4	67.5	66.6	66.7	66.9	68.1	69.7	70.3	72.6
Hourly Means	57.83	61.36	63.33	65.27	67.37	69.12	71.00	72.77	74.07	74.17	74.25	74.57	
AUGUST.	1	52.0	56.8	59.6	62.4	63.8	64.5	65.5	66.3	68.0	70.2	70.5	72.0
	2	48.0	53.0	59.8	62.4	64.2	65.4	67.6	69.8	71.6	73.4	76.2	72.1
	3	52.6	58.4	62.6	65.2	67.8	71.0	73.2	74.6	77.7	78.8	79.3	80.2
	4	57.6	62.8	66.6	70.0	71.4	74.0	75.0	76.4	77.0	77.7	77.3	78.0
	5	64.6	66.0	68.0	71.6	75.0	77.0	77.2	77.8	75.4	76.4	77.0	78.2
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	65.0	68.6	72.0	73.6	74.4	77.8	74.6	76.0	78.2	71.1	71.9	71.4
	8	63.4	66.0	67.6	70.0	71.6	73.6	72.8	73.8	74.2	75.0	75.8	73.4
	9	54.0	57.2	61.0	65.2	67.5	69.6	71.6	72.7	73.2	73.1	71.1	70.4
	10	60.0	64.0	67.4	70.0	71.8	73.8	75.6	77.5	75.3	75.9	77.1	72.7
	11	61.0	62.2	64.6	67.8	70.2	72.2	73.8	73.2	76.0	76.7	78.0	79.3
	12	60.8	63.0	69.4	73.2	76.6	79.2	78.0	79.3	79.5	79.8	81.9	79.4
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	68.4	68.8	68.8	68.0	69.2	69.2	73.0	75.5	79.0	77.0	80.4	80.9
	15	59.2	62.6	65.8	68.8	69.4	70.4	70.5	72.5	70.8	77.0	72.7	71.9
	16	57.0	61.4	65.6	68.2	70.4	73.0	76.0	78.6	79.6	80.8	81.4	81.3
	17	65.0	66.6	67.2	70.6	72.0	74.2	72.6	73.5	75.7	76.2	77.2	75.7
	18	61.4	62.6	63.6	65.0	67.0	68.6	70.6	72.3	72.7	72.3	72.5	70.3
	19	53.0	56.4	59.2	62.8	65.4	68.2	69.6	68.9	70.9	69.3	68.4	68.2
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	56.8	59.0	62.2	64.4	66.0	67.0	69.0	70.9	71.4	72.2	72.9	75.0
	22	55.0	57.2	60.8	65.0	67.2	69.6	69.6	70.6	72.4	72.1	72.8	70.6
	23	54.4	57.2	61.0	66.4	70.0	70.4	72.2	72.8	74.8	75.3	75.4	75.2
	24	49.2	54.7	61.8	65.2	68.0	69.8	71.8	72.9	74.9	75.1	76.3	74.9
	25	52.4	56.4	62.6	67.2	70.0	72.2	72.8	74.5	77.7	74.5	74.2	72.8
	26	55.6	61.0	66.0	69.7	72.4	74.2	77.3	80.8	80.7	81.2	81.4	79.5
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	65.8	66.6	67.6	69.9	70.4	72.6	73.3	74.9	76.6	77.8	77.4	77.0
	29	62.2	64.4	68.2	71.0	72.8	74.4	75.8	76.6	77.8	77.6	76.4	77.6
	30	59.0	62.4	66.2	69.8	74.8	74.2	77.0	79.5	80.3	82.3	83.0	81.5
	31	66.0	70.8	74.0	76.8	79.9	78.4	79.2	80.8	82.4	83.4	83.7	85.8
Hourly Means	58.50	61.71	65.16	68.16	70.34	72.02	73.16	74.56	75.70	76.01	76.38	75.75	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
82.7	79.6	76.0	73.0	73.5	73.2	—	—	—	—	—	—	70.66
—	—	—	—	—	—	52.4	51.4	48.6	46.2	47.0	47.2	58.05
74.8	71.8	61.6	56.6	51.9	50.2	51.9	49.0	49.0	49.0	48.8	49.6	62.98
64.4	66.3	63.4	62.8	62.0	61.2	60.6	60.2	58.8	58.1	57.4	57.2	60.55
70.5	67.3	58.6	55.2	53.5	55.8	54.2	52.1	52.2	52.5	50.8	51.3	65.03
73.7	68.2	62.5	60.0	59.0	58.4	58.8	60.0	59.0	59.8	57.3	55.4	64.75
77.5	73.9	68.8	66.5	64.4	61.1	57.8	54.9	55.2	53.4	50.7	56.2	69.56
82.2	75.0	71.4	66.7	62.9	58.4	—	—	—	—	—	—	62.45
—	—	—	—	—	—	58.6	58.6	58.4	58.0	56.6	57.8	55.81
66.0	63.6	59.7	57.4	55.7	54.3	53.2	52.4	51.9	50.8	50.2	49.6	60.33
64.2	61.4	55.4	51.2	48.5	46.0	44.0	43.9	43.6	41.0	40.4	40.6	63.53
76.3	66.9	57.9	53.2	51.0	49.3	50.5	50.7	49.8	49.7	50.5	49.2	69.47
73.1	66.7	62.7	60.6	60.7	59.6	57.6	56.8	56.0	54.8	54.2	54.0	67.26
73.5	71.2	69.4	67.6	65.7	65.0	65.2	62.7	62.8	63.5	63.7	63.8	68.20
73.5	69.9	67.8	66.6	66.4	65.7	—	—	—	—	—	—	72.28
—	—	—	—	—	—	64.7	64.2	64.1	63.8	63.3	63.4	60.27
67.5	69.3	68.8	68.7	67.5	66.1	66.6	66.2	67.0	65.6	63.7	63.2	57.80
81.9	77.6	69.7	71.0	70.6	66.2	65.5	64.0	63.2	62.5	61.0	61.0	62.84
71.0	65.8	59.4	56.2	54.8	53.6	52.8	51.8	51.4	50.4	49.0	45.9	69.33
73.5	69.0	60.4	55.5	52.8	49.3	47.5	46.9	46.2	45.0	45.5	42.4	67.38
73.0	71.5	65.2	59.4	56.0	55.4	53.8	57.0	57.0	56.5	53.5	52.4	64.87
76.2	73.9	67.6	63.8	63.0	60.2	—	—	—	—	—	—	68.05
—	—	—	—	—	—	68.9	66.7	68.0	65.0	64.4	64.4	65.07
76.9	71.7	66.6	63.9	62.1	60.2	58.8	58.4	58.0	57.5	56.8	57.3	61.77
73.0	68.8	66.7	63.4	59.5	56.6	57.0	53.8	53.7	57.2	58.0	55.4	59.07
70.2	67.2	64.6	65.7	64.2	64.4	63.2	60.7	60.2	60.0	59.4	57.6	64.58
71.7	67.7	62.7	60.8	60.0	58.5	58.4	58.7	59.5	60.4	59.0	58.0	68.05
78.9	74.7	72.6	72.8	69.4	68.2	70.0	70.7	70.2	70.0	66.2	65.6	65.51
70.8	64.6	60.0	56.8	54.4	53.5	—	—	—	—	—	—	71.32
—	—	—	—	—	—	49.8	48.8	48.0	46.8	45.5	45.0	59.07
71.3	71.1	62.0	60.0	58.4	57.5	55.7	54.8	54.2	53.7	52.5	52.0	61.77
73.40	69.80	64.67	62.13	60.30	58.77	57.60	56.75	56.38	55.82	54.82	54.44	64.58
72.8	65.4	60.0	56.2	52.6	52.4	50.7	49.5	49.0	48.2	46.5	44.9	59.16
68.4	67.7	61.7	58.2	57.0	55.0	53.1	52.6	52.5	50.4	49.8	49.6	60.81
76.2	69.0	63.1	60.2	59.0	58.2	57.5	57.2	56.2	55.6	55.1	54.2	65.12
76.4	69.7	65.4	63.5	63.9	64.4	65.3	67.1	62.9	61.0	61.0	63.6	68.67
74.1	69.6	67.7	66.9	66.0	65.4	—	—	—	—	—	—	69.96
—	—	—	—	—	—	64.6	64.2	64.2	63.8	64.4	64.0	69.66
71.2	70.6	69.4	68.5	67.4	66.8	65.3	64.6	63.8	63.9	63.1	62.6	66.42
74.5	70.7	66.8	65.4	64.2	60.0	58.7	57.8	56.2	54.0	55.4	53.2	64.66
73.0	67.4	63.0	61.2	60.6	59.4	60.2	61.3	62.4	61.4	58.8	56.6	67.93
72.4	69.5	64.0	62.9	63.8	64.9	63.2	62.7	61.0	61.5	61.4	62.0	68.05
78.9	68.9	65.9	66.6	65.1	64.8	63.8	63.6	63.5	62.2	58.0	57.0	70.77
80.0	73.3	71.4	66.3	65.8	60.4	—	—	—	—	—	—	69.04
—	—	—	—	—	—	62.7	61.7	60.7	64.3	65.0	66.8	64.45
79.9	73.6	68.0	65.6	64.5	63.8	63.0	61.0	60.8	60.2	60.4	58.0	70.22
73.4	67.7	62.4	61.0	59.4	57.8	57.2	56.1	55.2	54.7	55.4	55.0	68.51
78.7	73.8	71.0	66.5	66.4	67.0	63.2	63.4	63.8	66.6	66.0	65.6	63.18
72.1	69.4	68.2	67.2	67.0	65.2	65.4	64.8	61.5	59.7	57.6	59.6	61.90
73.1	66.0	62.5	60.2	59.4	57.6	56.0	56.2	54.2	52.7	49.3	50.2	61.66
66.4	63.6	60.8	60.4	60.2	60.1	—	—	—	—	—	—	62.88
—	—	—	—	—	—	56.0	56.5	56.2	55.0	54.5	55.6	63.45
70.9	61.2	57.2	55.5	54.8	54.0	53.8	54.2	53.8	53.2	52.4	52.0	62.35
69.0	64.2	61.2	60.4	59.2	58.5	57.4	56.2	55.8	55.6	56.2	52.6	64.70
74.3	65.8	61.9	58.9	59.9	58.0	58.8	57.5	56.7	50.4	48.0	47.6	70.58
68.6	64.8	61.0	60.5	59.7	56.0	54.8	53.9	52.6	51.0	49.8	49.2	68.38
71.1	67.8	64.0	62.2	60.8	59.8	58.4	56.9	56.6	56.2	56.4	55.2	67.51
74.2	71.2	68.2	67.4	66.0	67.8	—	—	—	—	—	—	71.11
—	—	—	—	—	—	67.2	67.2	66.8	66.4	65.8	65.8	74.01
73.2	68.8	66.2	64.0	63.3	63.0	62.9	63.2	62.8	61.8	61.7	60.4	66.49
75.1	68.2	64.3	62.0	61.5	61.0	61.0	60.5	59.0	59.0	57.8	56.0	66.49
78.1	72.1	69.4	67.6	66.0	65.4	66.0	67.7	66.3	66.4	66.4	65.2	66.49
83.5	74.5	72.8	73.7	72.5	68.0	68.4	66.4	64.7	63.8	63.1	63.6	66.49
74.06	68.69	65.09	63.30	62.44	61.29	60.54	60.15	59.23	58.48	57.75	57.26	66.49



STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	65.6	68.6	70.2	70.8	73.1	76.8	77.2	78.4	78.2	74.8	80.0	78.7
	2	65.8	68.2	70.4	69.6	72.4	76.4	78.8	82.2	81.6	81.2	79.9	80.1
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	67.0	68.2	69.8	72.6	74.2	76.0	78.4	79.6	80.5	79.8	79.2	77.6
	5	61.8	65.0	62.0	63.6	65.0	67.6	69.9	70.7	70.9	71.5	72.3	68.6
	6	60.4	61.4	62.8	65.4	66.4	69.9	69.4	69.2	70.9	69.6	69.5	68.5
	7	65.0	65.6	65.0	68.7	69.2	70.0	71.2	72.4	72.5	72.0	72.4	70.9
	8	62.0	62.8	63.4	66.4	68.2	70.0	72.5	70.4	70.3	74.5	74.4	71.8
	9	47.8	49.4	51.8	54.8	57.1	58.3	59.7	61.3	62.6	63.5	62.5	62.2
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	41.8	47.6	52.2	55.0	56.8	58.6	60.4	61.9	62.8	63.5	64.3	65.1
	12	43.2	46.4	49.4	53.0	55.6	57.4	59.8	59.8	61.5	62.5	62.3	62.0
	13	46.2	51.0	55.2	57.6	58.0	58.6	58.4	59.4	58.8	59.4	58.2	58.0
	14	55.4	54.8	55.0	54.8	54.8	55.4	55.8	56.2	56.3	56.3	55.5	54.7
	15	58.6	58.4	58.4	58.8	60.4	60.0	61.0	63.6	66.4	68.7	71.0	70.0
	16	57.2	58.7	61.6	62.8	65.3	67.4	68.0	68.8	68.6	68.1	68.7	66.9
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	63.0	69.4	70.2	70.0	71.2	72.6	74.0	75.6	74.5	72.9	72.1	70.2
	19	50.0	54.0	57.6	60.6	62.2	63.4	64.8	65.8	64.2	64.0	64.1	62.7
	20	56.4	59.2	60.7	62.2	61.3	61.5	61.2	65.6	68.3	68.2	68.2	64.9
	21	61.4	65.0	68.0	76.8	80.7	82.6	84.2	85.3	86.3	84.9	77.6	74.6
	22	47.0	49.8	53.4	55.2	56.0	56.8	57.7	59.0	57.4	56.8	56.8	56.1
	23	56.8	57.2	60.2	62.4	64.6	64.7	68.0	72.1	73.0	73.5	75.7	75.6
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	55.0	54.8	55.0	55.0	54.8	56.0	56.4	57.5	58.0	57.2	57.5	56.5
	26	47.2	47.0	46.4	48.2	46.5	46.6	47.6	48.5	48.2	49.3	48.3	47.1
	27	37.0	37.8	37.4	38.4	42.2	43.4	46.2	47.9	49.3	51.6	51.8	52.5
	28	34.2	36.2	40.4	43.0	47.8	50.6	54.0	55.0	56.5	56.5	54.0	55.9
	29	43.2	44.8	48.6	51.2	54.8	57.6	59.8	59.6	62.4	63.0	61.5	61.2
	30	43.0	44.8	51.0	53.7	56.4	58.8	60.0	61.0	61.9	61.2	60.4	57.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	53.54	55.62	57.54	59.64	61.35	62.96	64.40	65.65	66.23	66.33	66.08	64.98	
OCTOBER.	2	51.4	52.4	53.8	56.2	56.9	57.9	60.2	60.8	60.3	59.7	60.1	58.1
	3	44.0	46.4	47.8	50.0	52.2	53.0	53.8	52.8	52.0	53.0	52.7	49.6
	4	43.4	44.4	46.4	48.6	50.8	52.8	48.8	52.0	51.8	50.0	52.4	52.4
	5	36.8	40.0	45.4	47.5	50.4	51.0	53.8	56.2	57.6	59.3	58.3	55.5
	6	42.8	47.4	50.6	55.4	58.7	59.6	61.8	63.0	63.4	61.7	59.2	55.2
	7	56.0	56.2	54.6	54.6	55.0	55.2	55.4	55.6	56.3	56.4	55.7	54.3
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	36.2	38.4	42.0	45.8	47.6	48.4	50.0	52.0	48.8	47.9	47.9	47.5
	10	38.0	39.8	43.6	47.0	46.4	47.8	48.4	49.2	51.1	49.5	49.0	47.2
	11	49.6	50.0	50.4	51.0	51.5	51.6	52.2	52.2	52.8	52.6	52.4	52.0
	12	45.4	40.8	47.0	49.8	51.8	52.8	53.0	50.6	52.0	50.4	49.2	48.5
	13	35.2	36.2	38.5	41.6	43.0	44.0	45.8	46.2	46.2	46.4	45.8	42.7
	14	31.2	32.4	34.8	36.8	38.8	41.4	41.2	42.2	42.3	41.5	42.0	40.9
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	38.6	38.8	39.8	41.0	43.6	45.0	47.2	46.8	46.8	45.5	45.4	42.5
	17	38.0	37.4	38.4	40.1	40.2	42.4	42.2	42.5	42.8	42.6	41.1	39.8
	18	38.0	38.4	39.8	41.4	45.0	46.9	48.7	48.1	47.6	48.4	46.3	45.0
	19	32.1	33.0	35.8	40.4	43.6	43.6	45.4	46.4	48.4	48.5	47.1	44.8
	20	41.4	42.6	45.0	47.8	49.8	52.0	53.2	54.8	56.4	56.9	57.8	55.4
	21	52.0	50.4	49.8	50.0	49.9	48.4	47.3	46.3	45.5	44.4	42.2	40.5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	25.0	26.4	30.7	33.4	35.9	36.9	38.6	39.6	40.5	40.9	41.1	38.8
	24	28.4	28.0	31.0	36.0	39.0	40.6	42.2	43.4	45.6	45.4	43.9	40.0
	25	37.6	38.4	39.4	41.8	45.0	48.0	47.2	45.2	45.5	45.4	39.8	37.8
	26	27.8	27.0	29.4	33.3	35.4	37.2	39.4	38.5	41.1	38.7	36.4	35.3
	27	29.0	28.2	28.4	29.3	30.8	32.0	31.8	31.8	31.9	32.6	32.9	32.4
	28	29.2	28.8	31.2	33.0	36.4	37.8	39.4	41.2	40.4	41.5	40.3	37.2
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	34.4	34.2	34.6	35.6	36.8	38.0	38.0	34.7	35.3	34.1	33.1	32.8
	31	27.6	26.8	29.6	31.8	34.4	36.0	37.0	37.6	39.4	38.7	37.6	36.0
	Hourly Means	38.04	38.57	40.22	43.05	44.95	46.17	47.00	47.30	47.76	47.38	46.53	44.85

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
75.8	73.5	72.2	71.0	68.0	66.0	70.2	69.5	68.7	68.2	67.7	66.6	72.08
75.7	74.6	74.1	73.3	72.6	71.4	—	—	—	—	—	—	74.11
74.9	70.2	68.3	65.9	64.8	63.0	73.8	73.4	73.8	73.0	70.0	66.4	70.17
67.2	62.7	59.8	58.5	57.5	57.7	58.0	58.8	58.5	59.8	60.1	60.4	63.66
67.8	67.4	67.0	67.2	67.2	65.4	64.8	65.0	65.7	66.0	65.8	65.2	66.58
69.1	66.6	65.2	64.0	64.1	64.0	64.0	64.0	60.2	59.0	61.5	61.6	66.59
67.9	64.4	61.7	58.7	57.2	56.0	54.2	52.2	50.9	50.0	49.2	48.2	62.39
55.4	52.5	49.8	48.7	47.2	45.6	—	—	—	—	—	—	52.42
56.9	49.3	47.4	45.8	43.5	42.2	47.6	46.8	45.6	44.2	43.3	40.4	51.50
56.8	49.2	45.4	45.0	43.5	43.3	41.8	43.6	43.7	43.6	44.5	43.7	51.82
58.7	59.6	60.0	60.8	61.4	59.5	59.2	58.5	57.8	57.0	56.2	56.4	57.66
54.5	54.8	55.4	55.8	56.5	57.2	57.5	58.1	58.4	58.7	58.6	58.6	56.21
65.4	63.2	62.2	59.9	59.3	60.6	59.7	58.9	58.1	58.0	58.1	57.2	61.50
63.6	62.1	59.9	57.2	58.6	58.0	—	—	—	—	—	—	64.30
67.8	65.0	61.4	59.4	55.8	51.9	67.9	66.3	67.5	67.2	67.3	65.4	62.95
60.7	58.8	57.2	56.4	56.0	56.4	50.0	49.2	48.5	47.7	49.7	48.6	59.56
62.3	60.8	60.4	59.4	58.5	57.6	58.8	58.7	59.0	58.8	58.2	57.0	61.10
71.4	67.6	65.2	63.2	59.8	59.2	57.4	57.4	58.6	58.6	59.2	58.5	67.94
54.8	54.2	55.6	55.0	53.0	52.2	58.1	57.0	52.4	50.7	50.4	48.2	54.98
70.4	67.9	69.2	70.5	70.0	69.8	55.6	53.8	54.0	55.8	57.0	56.4	64.77
54.9	53.7	53.3	53.0	52.1	51.8	56.0	55.8	55.6	55.0	55.4	55.0	53.59
46.4	44.0	43.7	43.0	42.0	40.6	50.7	49.7	49.0	48.5	47.8	47.8	44.22
45.4	40.2	37.6	38.8	38.5	37.9	39.5	39.0	38.8	38.5	37.8	37.2	40.92
47.8	44.5	42.2	41.1	41.4	40.5	36.7	36.3	34.2	33.3	33.2	34.4	45.16
57.8	54.1	54.0	53.0	48.8	46.0	39.4	38.8	39.8	40.8	41.2	42.2	51.92
56.5	56.4	56.8	56.6	57.2	56.8	44.7	46.2	44.1	44.2	43.0	42.6	55.41
—	—	—	—	—	—	56.2	55.0	54.5	52.2	51.4	51.0	58.98
61.77	59.13	57.88	56.97	55.94	55.02	54.96	54.60	54.15	53.88	53.82	53.09	58.98
53.2	50.6	45.8	48.8	48.4	46.2	45.0	47.4	47.2	46.8	45.3	44.4	52.37
47.2	46.4	45.8	44.6	43.3	42.9	42.7	42.0	41.7	41.7	41.9	41.8	47.05
48.3	44.5	44.0	42.4	43.0	42.4	42.2	42.0	41.4	40.8	38.5	37.0	45.85
54.1	53.7	52.7	49.4	47.2	47.0	47.5	49.7	49.5	47.4	45.1	43.6	49.95
56.8	57.0	57.5	57.2	56.7	56.7	56.8	56.5	56.0	55.8	56.0	55.6	56.72
54.3	55.2	55.2	55.0	52.9	51.6	—	—	—	—	—	—	50.23
46.5	46.0	45.6	45.1	44.4	42.5	39.8	37.9	35.4	35.2	33.7	34.0	44.01
47.2	46.4	46.8	46.5	46.0	45.5	41.8	40.7	37.8	37.5	38.0	37.8	46.49
51.0	50.6	50.6	49.4	48.5	47.2	45.2	45.4	46.4	46.9	47.4	49.0	49.85
45.3	43.2	41.2	39.3	38.3	37.2	48.4	47.7	46.7	46.5	46.2	45.2	43.34
40.4	39.2	37.9	36.2	32.7	32.6	34.9	32.9	33.6	33.8	34.0	35.2	38.32
39.5	37.5	37.6	37.1	36.2	35.8	32.6	32.0	31.5	31.0	31.1	31.0	38.30
40.6	40.4	40.4	40.0	39.0	39.7	—	38.4	38.0	38.7	38.5	38.4	41.35
38.6	38.4	38.0	38.2	38.0	38.5	39.5	39.0	38.7	38.4	38.0	37.8	39.44
43.7	42.6	41.8	40.5	37.8	37.2	38.2	38.0	38.3	38.5	38.4	38.0	40.86
41.8	41.0	40.8	39.5	38.5	36.4	47.2	48.4	47.7	46.7	46.5	45.2	40.41
55.6	54.0	55.4	54.8	54.4	52.2	36.7	36.5	36.8	37.2	37.4	38.2	52.88
38.8	37.5	37.0	36.5	36.5	36.2	32.6	32.0	31.5	31.0	31.1	31.0	40.05
33.4	30.5	30.4	29.2	29.4	29.0	—	31.2	30.4	29.7	28.2	26.5	32.53
36.0	33.4	32.6	33.0	32.4	31.4	28.5	29.0	28.2	28.8	28.2	28.2	35.98
36.7	35.5	34.2	34.0	30.0	28.9	32.0	33.1	32.4	32.8	34.8	36.2	36.93
35.6	35.9	36.4	36.0	36.2	36.5	29.2	29.4	29.0	30.5	29.8	28.0	34.75
32.0	32.2	32.4	33.0	33.4	32.8	36.5	36.5	33.5	33.2	32.2	30.2	31.17
33.3	32.3	34.8	35.1	39.2	39.8	31.6	31.4	30.7	30.2	28.0	29.2	35.76
31.0	29.8	29.4	29.2	29.4	28.9	—	36.8	35.5	34.2	33.0	33.4	32.06
35.0	32.0	30.2	31.4	31.4	27.6	28.7	28.3	28.4	28.3	28.6	27.8	33.16
42.92	41.76	41.33	40.82	40.12	39.33	27.3	38.43	38.36	37.93	37.89	37.48	41.92

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	37.0	35.6	36.0	37.4	36.1	35.5	33.9	34.1	33.7	34.3	35.5	36.7
	2	34.8	35.4	35.8	37.8	38.8	39.3	39.5	39.3	38.1	37.0	36.4	35.5
	3	31.4	31.4	31.6	32.2	33.2	34.4	35.4	36.7	36.0	35.4	33.8	32.2
	4	26.2	27.0	27.6	28.6	30.2	30.0	29.8	29.8	29.9	29.9	29.4	28.7
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	19.6	19.2	23.4	27.0	29.5	31.6	33.6	33.8	34.2	35.2	33.2	32.4
	7	30.2	30.4	31.6	31.8	33.6	34.2	35.0	35.6	35.7	36.7	35.7	34.4
	8	32.6	32.4	33.0	33.2	34.2	35.0	34.6	35.7	35.6	34.6	34.0	33.8
	9	31.0	30.6	31.4	34.0	35.2	37.2	38.0	37.8	37.4	38.4	36.2	36.2
	10	33.6	33.8	34.4	35.0	36.2	38.6	40.0	40.0	40.3	39.7	39.3	38.9
	11	35.4	36.4	36.8	37.0	37.4	37.6	37.4	37.8	37.7	37.5	36.8	36.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	30.4	29.6	30.4	31.2	33.2	35.4	35.6	31.6	33.9	33.7	30.2	29.2
	14	21.0	20.8	20.8	22.2	23.0	23.8	25.5	28.6	28.3	27.5	25.6	25.5
	15	30.4	30.8	32.0	33.0	33.4	34.6	35.0	33.1	33.2	34.2	34.6	35.1
	16	39.4	39.6	40.4	40.8	42.0	43.0	44.4	48.1	48.7	46.4	44.8	43.0
	17	30.6	31.2	32.4	35.0	38.2	41.8	42.0	41.7	41.0	41.0	41.0	41.0
	18	42.0	42.4	42.8	44.0	45.0	43.5	43.5	44.8	44.0	43.0	41.3	39.8
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	28.4	28.8	32.6	35.2	37.8	40.2	42.0	43.6	41.5	42.7	40.2	38.0
	21	39.8	39.8	40.6	42.2	44.6	44.2	43.9	43.4	43.8	42.2	41.5	41.1
	22	30.6	31.2	32.0	33.8	34.8	35.1	35.6	35.5	35.3	35.1	35.3	35.1
	23	25.8	27.6	30.8	33.2	36.4	36.9	38.8	39.3	38.5	38.8	38.7	38.8
	24	46.4	51.6	49.4	46.2	45.4	44.6	45.4	44.2	44.8	43.8	42.5	39.8
	25	30.6	30.3	31.2	33.4	35.5	36.5	37.5	39.3	40.4	40.8	39.9	36.9
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	22.2	22.2	21.8	21.8	22.2	22.8	23.6	24.5	25.4	26.7	26.3	23.2
	28	15.4	15.8	17.4	21.6	23.6	25.4	28.2	28.5	29.5	30.5	30.9	29.0
	29	28.2	28.4	28.8	29.8	31.8	33.2	33.6	33.4	33.5	34.0	33.7	32.8
	30	24.8	24.0	23.6	25.0	26.4	27.5	28.2	28.2	27.8	27.5	27.2	27.2
	Hourly Means	30.68	31.01	31.87	33.17	34.53	35.46	36.17	36.48	36.47	36.41	35.54	34.56
DECEMBER.	1	28.4	28.4	28.8	30.0	31.3	32.5	33.2	33.6	33.3	32.1	32.0	
	2	28.8	29.4	29.8	30.6	32.0	33.5	35.2	36.0	36.0	35.2	33.6	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	33.8	33.8	34.8	36.1	37.4	40.0	41.4	39.7	40.6	39.1	37.4	
	5	27.5	26.2	25.3	24.8	25.2	23.2	22.8	22.8	23.7	23.8	21.1	
	6	20.6	21.6	25.8	26.8	28.4	29.6	30.2	30.5	30.8	30.4	29.7	
	7	27.6	27.4	28.0	30.2	31.0	30.4	31.2	31.4	31.6	30.5	30.1	
	8	30.4	30.2	28.8	27.6	28.6	29.6	31.2	30.6	31.4	32.2	32.2	
	9	28.6	29.2	29.2	29.8	31.0	31.4	32.2	32.6	32.6	32.1	30.9	
	10	—	—	—	—	—	—	—	—	—	—	—	
	11	36.0	36.2	37.4	37.2	37.0	37.6	37.3	36.9	36.9	36.5	35.5	
	12	19.6	16.6	15.0	15.6	16.8	17.6	18.0	18.4	17.4	16.4	15.4	
	13	4.6	7.0	11.6	14.0	19.2	23.8	25.0	27.1	28.2	29.7	28.6	
	14	28.0	29.4	30.8	31.8	33.8	35.4	37.0	37.5	37.6	37.3	36.8	
	15	34.2	35.0	34.6	35.0	36.4	37.8	37.8	36.8	36.8	34.8	33.8	
	16	34.4	34.4	34.4	34.4	34.4	34.4	34.6	34.4	34.6	34.5	33.3	
	17	—	—	—	—	—	—	—	—	—	—	—	
	18	30.2	30.2	30.4	31.2	32.4	33.0	32.4	33.2	33.2	33.0	32.8	
	19	28.8	28.6	29.0	29.8	32.0	33.4	33.8	34.1	34.0	33.7	32.9	
	20	33.4	33.6	34.0	34.4	35.6	36.4	37.8	38.2	38.0	38.1	37.8	
	21	33.8	33.8	34.0	34.1	35.0	36.2	37.2	37.3	37.8	38.5	37.8	
	22	30.4	29.4	30.6	31.4	33.4	37.2	37.4	38.1	36.9	36.2	35.7	
	23	33.4	33.6	33.8	34.0	34.0	34.2	34.2	34.3	34.3	33.9	34.0	
	24	—	—	—	—	—	—	—	—	—	—	—	
	25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	
	26	35.2	35.2	35.4	34.8	35.2	35.8	36.8	37.3	37.7	38.0	38.8	
	27	38.0	37.4	36.6	38.4	39.4	40.6	39.8	39.8	40.4	39.8	38.9	
	28	32.4	32.2	32.4	33.0	33.6	35.6	36.6	37.3	35.3	35.7	33.9	
	29	26.8	26.4	26.2	25.2	25.2	26.8	26.8	27.6	27.7	28.0	28.0	
	30	27.0	27.0	27.2	27.8	28.5	28.8	29.2	29.0	29.0	27.5	27.2	
	31	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	29.28	29.29	29.76	30.32	31.47	32.59	33.16	33.38	33.42	33.13	32.33		

<sup>a</sup> Christmas Day.

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
37.0	37.2	37.1	38.1	38.4	38.5	37.5	36.9	35.8	35.7	35.3	34.8	36.17
34.8	34.2	33.6	33.2	33.2	32.3	32.1	32.2	32.6	32.4	32.4	31.6	35.10
31.6	30.5	30.2	30.4	30.2	30.0	29.0	27.2	26.5	26.4	26.0	25.8	31.15
28.2	27.8	27.2	27.1	27.0	27.1	—	—	—	—	—	—	—
—	—	—	—	—	—	22.2	21.8	21.4	21.3	19.1	20.6	26.58
31.2	30.6	31.0	31.2	31.2	30.8	30.5	30.6	30.5	30.4	30.2	30.0	30.04
34.2	34.7	34.7	33.5	34.4	34.6	33.8	33.9	33.7	33.7	33.8	32.8	33.86
33.7	33.5	33.0	32.9	32.2	31.9	32.1	32.3	31.7	31.7	31.9	31.4	33.21
36.6	36.7	36.9	36.0	36.8	37.1	35.8	34.1	33.8	33.6	33.5	33.4	35.32
38.8	38.8	38.4	38.2	36.8	36.0	35.4	34.6	34.5	35.1	34.7	35.4	36.94
35.2	33.5	33.5	32.7	31.6	31.0	—	—	—	—	—	—	—
—	—	—	—	—	—	29.8	29.8	29.5	29.7	29.8	30.0	34.17
28.0	27.0	26.7	27.0	25.5	24.5	23.2	22.6	21.4	20.9	20.7	21.0	28.04
22.8	23.4	26.4	27.3	26.9	27.2	27.3	27.7	28.3	28.5	28.9	30.0	25.64
35.9	36.9	37.5	38.1	38.1	37.8	37.5	38.0	38.8	39.2	39.5	39.0	35.65
44.3	42.9	40.4	37.8	33.5	32.0	31.2	30.4	30.2	30.2	31.0	31.3	38.99
41.6	41.8	42.4	43.2	42.3	42.0	41.9	40.3	40.3	41.7	42.3	41.8	39.94
38.1	37.2	37.6	38.1	37.5	36.3	—	—	—	—	—	—	—
—	—	—	—	—	—	33.7	32.5	31.8	31.4	31.4	29.0	38.78
39.2	39.2	40.0	40.1	39.2	38.9	38.8	38.5	38.7	39.6	40.4	40.0	38.48
40.2	39.3	39.2	37.9	37.8	35.6	35.4	33.5	33.4	31.8	31.5	31.2	38.91
35.0	34.0	32.1	31.5	29.8	28.2	28.5	27.3	26.5	25.7	25.4	25.4	31.62
39.8	40.2	40.8	41.5	42.2	43.2	45.0	45.6	45.8	46.1	48.1	47.8	39.57
38.2	36.9	36.9	35.8	34.4	34.4	34.4	34.0	34.0	33.6	32.4	29.8	39.95
35.8	34.2	32.3	30.2	29.6	29.2	—	—	—	—	—	—	—
—	—	—	—	—	—	23.7	23.4	23.5	23.2	22.7	22.5	31.78
20.4	19.3	19.2	18.5	18.2	18.0	18.2	19.0	18.5	18.0	16.5	16.2	20.95
28.4	27.9	27.7	28.2	27.8	27.8	28.2	28.5	28.4	28.4	28.4	28.2	26.40
32.6	32.0	30.5	30.2	29.7	28.5	28.0	27.9	27.3	26.2	25.3	25.2	30.19
27.4	27.4	27.8	27.0	26.8	27.0	28.4	28.4	28.2	29.2	28.4	28.2	27.15
34.19	33.73	33.58	33.30	32.72	32.30	31.60	31.19	30.97	30.91	30.75	30.48	33.25
31.7	31.4	31.2	30.6	30.4	30.0	30.0	29.9	29.9	30.1	29.4	28.8	30.85
29.8	28.6	27.6	27.3	27.6	26.6	—	—	—	—	—	—	—
—	—	—	—	—	—	33.6	33.6	33.4	33.4	33.6	33.4	31.67
35.6	35.2	35.3	36.2	35.4	34.7	33.7	31.4	31.0	30.4	29.8	28.1	35.30
20.0	18.2	16.8	14.2	16.1	13.5	16.2	17.2	18.4	19.0	20.4	20.4	20.67
30.2	30.9	30.5	30.8	31.0	31.2	30.8	30.4	29.8	29.0	28.0	27.8	28.94
29.5	29.3	29.2	29.4	29.5	29.8	30.2	31.2	30.9	31.3	31.2	31.0	30.07
32.8	32.4	31.4	31.5	31.1	28.6	26.3	26.0	30.1	30.3	30.7	29.6	30.26
27.7	26.9	24.4	22.9	22.9	21.5	—	—	—	—	—	—	—
—	—	—	—	—	—	33.0	33.6	33.8	35.2	37.3	35.6	30.16
34.2	31.2	31.0	31.7	31.0	30.5	29.0	28.1	27.5	25.8	24.2	22.2	32.72
13.2	12.3	12.3	11.2	9.7	8.9	9.1	6.0	4.8	4.2	4.2	4.4	12.55
27.8	28.3	28.5	28.8	29.4	29.5	29.4	28.7	28.6	28.8	27.6	28.0	24.66
36.4	36.6	36.5	36.1	36.3	36.1	35.8	35.4	35.6	34.7	34.5	34.2	35.01
33.4	33.3	33.3	33.1	33.2	33.5	33.3	33.6	33.5	33.8	34.0	34.4	34.53
32.4	32.1	31.7	31.0	30.4	29.8	—	—	—	—	—	—	—
—	—	—	—	—	—	31.8	31.2	31.0	30.8	30.5	30.6	32.67
31.3	30.5	30.4	30.0	30.0	29.8	28.9	28.8	28.5	29.0	28.8	28.8	30.77
31.4	30.7	30.4	30.8	30.5	31.2	31.0	29.2	30.9	32.2	32.9	32.4	31.50
36.4	36.0	36.0	35.8	35.2	34.5	34.3	34.1	34.1	33.9	33.9	33.8	35.50
35.5	35.1	34.6	33.1	34.0	33.3	33.4	32.8	31.7	31.4	32.8	31.8	34.62
35.2	35.6	35.7	35.5	35.5	35.0	34.6	34.4	34.3	34.2	33.9	33.8	34.57
34.8	35.2	34.8	35.2	35.1	34.8	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	33.6	33.4	33.8	34.9	35.0	35.0	34.31
39.0	38.7	38.5	38.4	38.6	38.8	38.8	38.5	37.9	38.2	38.1	38.0	37.53
37.4	36.5	35.9	35.2	34.6	34.0	33.6	33.0	33.0	32.8	32.5	32.6	36.60
30.8	29.7	29.5	29.6	28.5	27.8	27.5	27.7	27.7	27.9	27.0	26.8	31.28
28.4	28.2	28.4	28.1	27.3	28.4	28.5	28.0	27.4	26.8	26.6	26.4	27.30
26.0	26.2	26.2	26.6	26.8	26.9	—	—	—	—	—	—	—
—	—	—	—	—	—	26.7	26.8	26.1	25.2	24.0	23.2	26.88
31.24	30.76	30.40	30.12	30.00	29.55	30.12	29.72	29.75	29.73	29.64	29.24	30.83

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	22.1	24.2	25.2	—	27.8	29.6	29.9	29.4	28.6	27.4	26.6	26.1
	3	10.2	9.0	9.5	10.2	10.6	11.8	12.2	13.6	13.1	12.8	11.5	10.4
	4	9.1	8.8	9.1	10.0	12.8	15.9	16.7	19.0	18.8	19.7	18.6	19.3
	5	24.0	23.6	24.2	28.3	28.2	31.4	31.4	31.6	31.4	31.4	31.4	31.0
	6	30.8	31.5	31.4	31.6	31.4	31.9	34.6	35.7	36.1	36.4	36.3	36.3
	7	38.4	38.3	38.4	39.8	40.8	41.1	40.8	40.5	40.8	39.1	38.6	38.5
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	20.4	19.8	20.6	22.7	24.6	25.4	28.2	28.0	28.6	28.2	27.7	26.6
	10	31.2	31.2	31.7	32.3	32.4	34.1	34.4	34.3	34.5	34.6	34.5	33.3
	11	27.7	26.1	26.7	28.6	28.8	30.2	30.6	31.2	30.6	31.2	30.7	30.6
	12	28.7	29.1	28.9	29.2	29.4	30.4	30.4	31.0	31.6	32.2	32.2	32.2
	13	32.3	32.3	32.3	32.3	32.6	32.5	32.5	32.4	31.3	26.9	25.2	23.4
	14	23.2	22.8	23.2	22.9	23.2	23.4	23.8	24.0	23.9	23.4	22.9	22.4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	28.4	26.7	25.6	23.9	23.4	23.3	23.4	23.6	24.4	24.2	23.9	22.9
	17	19.6	19.7	21.0	23.8	26.9	27.9	28.2	28.4	27.8	27.4	26.5	26.2
	18	27.3	26.6	29.1	30.9	32.3	33.3	37.3	38.5	39.1	40.6	38.8	35.4
	19	33.0	34.2	33.5	34.5	34.4	35.6	36.2	37.9	38.4	38.3	38.0	39.8
	20	37.2	37.1	38.2	37.3	38.1	38.8	40.4	40.3	40.1	37.8	39.8	38.8
	21	35.4	34.1	38.5	39.1	42.2	45.9	46.2	45.7	46.9	46.7	46.5	44.2
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	27.3	29.9	29.5	29.4	30.9	31.9	32.8	32.9	33.9	33.7	33.4	32.9
	24	32.8	30.3	29.8	28.1	27.1	29.2	30.0	31.0	29.8	30.1	29.6	28.2
	25	29.0	27.9	26.0	26.2	23.1	21.1	18.1	15.9	14.6	13.6	12.3	10.9
	26	-0.1	-0.7	-0.5	0.8	4.1	8.5	9.9	12.1	15.5	14.9	15.6	15.9
	27	26.7	24.3	24.2	24.2	24.9	26.5	27.2	27.9	28.3	27.6	27.7	27.3
	28	23.8	23.8	22.9	23.3	24.4	25.7	27.9	27.5	27.4	27.8	27.6	26.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	21.2	18.9	19.5	25.5	28.1	29.4	30.0	31.6	32.1	32.3	30.0	29.6
	31	32.9	33.6	34.8	35.2	35.4	35.5	35.9	36.2	36.2	36.7	36.6	36.2
Hourly Means	25.86	25.55	25.91	26.80	27.61	28.86	29.58	30.01	30.07	29.81	29.33	28.63	
FEBRUARY.	1	14.3	12.9	13.0	13.5	13.5	14.7	14.4	14.6	15.2	16.5	14.9	14.1
	2	-3.1	-3.1	-2.0	1.6	4.5	7.1	8.9	11.1	14.5	14.7	16.3	15.7
	3	21.9	22.0	21.5	22.3	22.9	23.3	23.3	24.5	24.3	24.2	24.3	22.7
	4	16.7	18.3	20.3	22.4	23.2	25.8	30.0	29.5	28.7	28.6	29.4	27.3
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	10.7	9.3	8.5	9.3	9.9	10.8	12.5	12.3	10.9	10.4	8.3	7.0
	7	5.7	5.6	5.8	6.3	7.6	9.3	10.0	12.5	13.6	13.3	13.1	11.9
	8	8.6	8.9	8.5	9.9	11.6	12.5	15.5	13.7	13.9	14.5	14.2	13.5
	9	4.2	5.6	7.7	10.3	12.3	13.9	15.9	16.0	17.0	16.5	16.3	15.7
	10	15.7	16.3	16.5	18.3	19.5	20.5	21.7	21.8	22.1	24.2	25.7	26.6
	11	30.5	27.5	20.1	18.5	17.9	17.6	18.0	16.7	16.8	17.7	17.6	16.7
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	9.9	9.6	9.9	11.8	12.5	13.9	16.8	16.9	15.9	16.6	15.5	14.5
	14	8.0	6.4	7.5	8.6	6.7	7.1	10.5	10.3	10.4	9.9	9.8	9.5
	15	3.2	3.4	5.4	5.5	8.0	9.6	12.0	13.3	14.0	14.4	13.7	13.1
	16	3.8	3.9	2.8	4.5	7.0	9.2	10.3	11.6	12.6	12.4	10.3	8.9
	17	-12.3	-12.3	-7.8	-1.4	3.4	5.7	8.2	8.9	9.6	10.0	8.1	8.3
	18	-11.0	-10.6	-8.0	-1.7	2.9	5.8	9.1	10.6	10.9	10.1	11.0	10.5
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	2.6	0.6	5.1	9.9	14.1	15.7	18.5	20.0	21.5	20.8	20.9	20.0
	21	10.8	12.7	15.9	19.1	22.9	24.9	24.2	25.7	25.1	25.2	25.2	23.2
	22	17.5	17.4	17.7	17.8	18.4	18.4	17.3	15.9	16.1	15.9	14.8	13.5
	23	1.7	0.5	4.6	7.3	9.6	9.6	14.1	12.7	15.0	14.1	14.4	13.1
	24	6.2	6.6	7.6	11.1	14.9	16.5	18.3	22.1	24.0	23.0	24.0	22.2
	25	21.1	20.9	21.0	21.5	23.2	26.0	28.2	29.4	31.4	31.3	30.6	29.9
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	18.4	17.7	17.8	18.6	19.3	20.9	22.9	23.8	23.3	23.0	24.2	22.9
	28	18.1	17.7	18.2	20.0	19.4	22.9	25.2	25.1	24.6	22.9	21.7	20.3
Hourly Means	9.30	9.06	9.90	11.87	13.55	15.07	16.91	17.46	17.97	17.93	17.68	16.71	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
—	—	—	—	—	—	—	—	—	—	—	—	—
25.4	24.9	23.9	22.7	22.6	23.2	18.3	17.8	17.4	14.6	13.0	12.0	23.16
9.4	8.7	10.0	11.0	11.5	11.2	10.5	10.0	10.0	10.0	9.4	9.6	10.68
18.2	18.8	20.4	19.6	18.1	18.8	19.0	19.5	19.9	21.1	21.9	23.1	17.34
31.6	31.2	30.0	27.4	28.3	24.6	23.4	22.6	23.1	23.8	27.0	29.4	27.93
36.5	36.5	36.8	37.1	37.2	37.3	37.1	37.8	38.3	37.7	38.1	38.2	35.53
38.3	34.9	34.6	33.9	33.4	33.9	—	—	—	—	—	—	—
—	—	—	—	—	—	22.4	22.1	21.8	21.4	20.4	20.5	33.86
26.2	27.0	27.2	26.6	28.8	29.4	31.0	31.0	30.6	30.6	31.0	31.0	27.13
32.8	32.3	32.2	32.2	32.5	32.3	32.2	31.4	30.7	30.4	28.5	27.2	32.22
30.4	30.6	30.4	30.1	29.9	29.6	29.4	29.2	29.2	29.0	28.9	28.8	29.52
32.3	32.3	32.3	32.3	32.5	32.8	32.8	32.3	32.5	32.3	32.3	32.3	31.43
22.8	22.4	22.4	21.9	21.1	20.6	20.6	21.4	21.8	22.6	23.2	23.4	26.26
25.2	25.2	24.7	24.9	25.4	25.9	—	—	—	—	—	—	—
—	—	—	—	—	—	24.4	25.6	27.2	27.6	28.2	28.8	24.68
23.4	20.8	20.8	23.6	24.4	24.6	23.2	21.0	20.6	20.7	20.6	19.6	23.21
26.3	26.6	26.7	26.9	27.3	27.4	28.1	28.2	28.1	28.6	29.2	27.8	26.44
31.6	32.0	32.3	34.4	33.3	33.8	34.0	30.4	31.2	31.4	33.4	33.0	33.33
39.5	39.3	39.7	40.6	38.6	37.3	37.1	38.5	39.1	37.1	39.1	39.8	37.48
39.3	37.3	37.8	38.2	38.4	38.5	38.0	37.7	37.9	38.5	37.2	37.2	38.33
43.1	41.6	40.6	39.1	38.5	37.8	—	—	—	—	—	—	—
—	—	—	—	—	—	27.9	27.9	28.0	27.3	26.8	27.4	38.23
32.6	32.8	33.7	32.4	32.1	33.0	34.0	33.9	34.2	33.9	33.4	32.4	32.37
27.8	28.3	28.7	28.5	29.2	29.6	28.6	29.6	29.8	28.7	28.5	29.2	29.27
9.5	8.6	8.2	6.1	5.1	4.5	3.5	2.9	2.3	2.2	0.7	0.2	12.19
17.1	19.5	20.3	21.1	24.0	24.2	22.3	21.0	22.3	25.4	24.9	26.6	15.11
27.8	26.7	26.7	27.5	28.4	27.3	25.6	25.4	25.1	25.2	24.9	24.4	26.33
19.9	17.8	19.9	19.8	20.6	20.9	—	—	—	—	—	—	—
—	—	—	—	—	—	11.1	13.3	15.1	12.2	14.9	19.9	21.40
30.0	30.7	30.8	28.7	29.7	30.9	31.9	32.4	32.8	32.8	32.8	32.8	29.35
33.9	33.4	32.9	32.8	30.0	24.0	20.1	17.8	17.2	16.7	16.0	15.4	29.81
28.11	27.70	27.85	27.67	27.73	27.44	25.63	25.41	25.62	25.45	25.55	25.77	27.41
12.8	9.7	5.5	4.0	3.5	3.8	2.6	-0.1	-0.5	-0.8	-1.1	-1.9	8.71
14.2	14.6	17.2	17.7	18.1	18.4	18.9	19.5	19.6	20.5	20.8	20.6	12.76
23.3	23.3	23.2	23.1	22.8	22.3	21.5	19.5	15.1	15.7	16.3	16.9	21.67
25.4	22.7	24.1	24.3	23.8	22.7	—	—	—	—	—	—	—
—	—	—	—	—	—	19.5	18.7	17.5	16.5	14.5	12.7	22.61
4.7	3.9	3.3	3.3	3.3	3.1	3.5	3.9	3.5	3.9	4.5	5.3	6.92
10.9	9.1	10.3	10.5	9.5	9.3	9.2	9.0	8.5	8.3	8.5	8.4	9.43
12.7	11.8	11.0	9.3	8.1	8.0	5.5	1.5	3.3	3.9	4.5	3.7	9.52
15.1	13.4	12.0	9.5	8.6	7.5	7.3	8.5	9.6	10.7	13.1	16.1	11.78
28.5	29.8	30.9	31.8	32.4	33.4	35.4	36.8	36.9	35.8	33.1	32.8	26.96
14.7	13.1	12.3	11.5	11.0	11.3	—	—	—	—	—	—	—
—	—	—	—	—	—	10.1	9.9	10.1	10.3	10.5	10.3	15.43
13.7	13.1	12.1	11.0	10.6	10.6	10.3	9.6	9.6	9.4	9.5	7.5	12.12
8.5	7.7	7.0	6.5	5.0	4.1	3.6	3.7	3.5	3.1	3.1	3.3	6.83
10.1	8.3	7.0	5.5	6.9	5.9	5.8	5.7	5.1	4.3	4.5	4.3	7.87
6.6	4.1	2.5	-0.7	-2.5	-5.5	-8.9	-8.6	-10.7	-10.1	-12.4	-12.2	1.62
5.7	5.1	4.7	2.3	1.7	0.6	0.0	-0.7	-1.7	-2.4	-3.2	-7.0	1.39
5.3	5.6	7.1	6.9	6.6	6.9	—	—	—	—	—	—	—
—	—	—	—	—	—	15.2	14.3	11.0	11.2	8.1	3.3	5.88
19.2	17.8	12.8	9.1	8.7	7.0	9.1	10.4	10.8	10.3	10.0	9.1	12.67
23.2	23.3	22.1	20.7	12.7	10.9	12.5	13.9	16.5	17.9	17.7	16.9	19.30
9.6	7.5	5.7	3.3	1.4	-0.6	-0.6	1.2	1.4	0.9	1.5	4.1	9.84
10.1	5.2	2.9	2.4	3.0	3.4	3.2	3.1	3.5	3.7	3.9	5.7	6.95
21.7	21.7	20.9	20.7	22.0	20.7	19.9	19.6	19.9	19.5	19.8	19.9	18.45
29.8	29.6	29.4	29.0	28.7	28.5	—	—	—	—	—	—	—
—	—	—	—	—	—	26.2	25.7	25.5	24.3	22.4	20.5	26.42
21.5	22.3	21.8	20.3	21.8	21.1	21.5	18.7	18.6	18.3	18.3	18.0	20.62
18.7	17.5	16.4	15.7	14.5	14.0	13.7	13.6	13.0	12.7	10.6	11.3	17.83
15.25	14.17	13.43	12.41	11.76	11.14	11.04	10.72	10.40	10.32	9.94	9.57	13.07

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	11.5	11.8	12.7	14.2	15.0	15.3	16.0	16.6	16.1	16.0	15.0	14.8
	2	4.7	5.1	5.7	7.5	10.5	12.4	13.8	14.8	15.8	15.7	15.3	14.4
	3	7.7	8.5	11.0	13.1	16.3	18.0	17.3	17.1	17.6	16.7	16.5	16.1
	4	1.0	-0.2	4.7	11.9	15.6	17.1	17.8	18.4	19.2	19.3	18.6	18.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	2.9	3.6	6.1	7.4	12.3	14.5	18.3	—	23.5	22.1	22.6	22.6
	7	-2.5	-2.1	4.9	13.0	14.6	16.8	18.0	19.8	22.8	23.4	24.2	23.4
	8	20.0	22.0	22.4	22.9	23.4	24.2	24.2	25.1	25.3	25.8	26.1	26.0
	9	17.6	15.6	18.4	19.6	21.2	22.9	25.9	27.9	26.4	27.0	26.5	26.4
	10	27.6	27.4	29.2	30.6	30.9	30.9	30.8	31.4	31.5	31.9	32.3	32.4
	11	29.6	28.4	26.6	25.4	25.9	26.5	27.2	27.2	27.4	27.0	27.1	28.9
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	30.2	30.5	30.9	31.5	32.3	32.3	33.8	35.1	34.1	34.7	33.3	32.3
	14	13.7	13.7	14.8	15.6	17.1	18.0	20.0	21.0	22.8	25.4	27.0	25.4
	15	23.2	21.8	20.8	22.2	25.6	27.2	27.4	28.4	25.6	25.8	23.5	23.0
	16	10.1	10.8	15.2	19.2	21.2	23.1	25.7	25.1	24.8	24.4	23.9	23.4
	17	19.8	20.8	21.7	23.6	24.7	25.4	27.6	28.4	27.9	27.0	26.8	24.9
	18	19.0	19.0	20.6	22.0	22.9	24.0	24.6	25.0	24.8	25.2	24.4	24.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	14.6	16.6	21.0	22.8	23.9	24.9	25.8	25.0	25.0	25.0	24.4	24.2
	21	16.6	16.6	20.4	20.6	21.4	21.4	22.4	23.2	24.4	25.4	24.9	24.6
	22	11.3	12.7	18.6	21.8	24.4	25.2	25.6	27.6	26.6	27.6	29.4	28.8
	23	8.8	9.0	9.7	10.4	12.4	13.4	13.6	14.2	15.3	15.6	13.6	13.6
	24	9.9	11.0	13.2	15.4	17.6	19.8	20.0	20.0	22.0	22.8	22.8	21.6
	25	13.8	15.3	17.8	19.6	21.4	23.2	24.4	25.4	27.8	25.8	24.4	22.7
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	23.6	23.6	23.8	25.0	25.2	25.4	25.6	26.1	25.9	26.0	26.6	26.7
	28	31.5	31.6	31.8	33.1	34.8	36.2	37.0	38.3	35.8	34.8	32.3	30.4
	29	18.1	20.6	23.6	24.1	25.8	27.3	29.2	30.4	30.2	31.8	30.1	29.4
	30	16.0	16.2	17.6	18.6	20.1	22.4	24.0	25.9	26.0	26.4	25.4	25.0
	31	24.9	25.4	25.9	26.8	26.8	27.6	27.8	28.4	28.4	27.9	27.4	26.7
Hourly Means	15.75	16.12	18.11	19.92	21.60	22.79	23.84	24.84	24.93	25.09	24.61	24.07	
APRIL.	1	19.7	20.8	23.2	24.2	27.2	28.2	26.2	28.9	29.3	29.1	29.9	28.2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	15.4	17.8	22.9	27.6	29.4	31.8	32.2	32.5	32.0	33.1	34.3	37.8
	4	27.0	28.7	30.7	31.7	32.0	32.3	33.1	32.5	32.2	32.2	32.4	32.4
	5	28.4	29.4	32.0	32.2	37.8	38.5	37.1	38.0	36.8	36.3	37.3	37.7
	6	28.4	30.4	31.4	31.9	32.2	34.6	36.9	37.0	35.6	35.6	37.1	36.9
	7	24.3	26.4	30.3	31.6	32.5	32.8	36.1	37.3	37.2	37.0	36.2	35.2
	8	36.8	38.2	39.4	39.8	40.4	40.5	40.2	39.5	39.6	39.0	39.5	38.6
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	29.2	28.4	29.6	30.4	31.5	32.8	33.2	34.2	36.0	—	35.0	35.4
	11	28.6	30.6	33.7	35.8	37.0	38.4	39.3	38.3	40.4	42.8	44.0	44.4
	12	27.6	30.8	32.6	32.6	40.0	42.4	44.2	45.3	45.3	45.5	47.0	46.3
	13	30.2	35.3	36.8	37.4	39.4	39.0	39.6	39.2	41.4	39.6	39.4	40.1
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	40.0	38.4	39.2	40.4	44.8	48.2	51.2	51.6	52.8	52.0	50.9	48.5
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	33.4	33.8	34.6	36.2	38.4	39.0	39.2	38.5	37.6	37.4	37.2	36.2
	18	34.2	34.4	35.0	33.8	34.0	34.0	34.0	33.9	34.3	35.0	34.9	34.4
	19	35.0	35.4	35.6	36.8	37.6	39.0	41.0	40.4	39.5	40.2	39.2	38.6
	20	38.0	38.6	39.1	39.8	40.4	44.0	44.4	45.4	45.0	47.8	48.6	48.5
	21	32.6	37.4	42.6	44.6	46.4	48.4	50.0	50.8	50.9	53.5	52.0	50.8
	22	42.6	45.4	46.0	47.4	48.2	48.8	47.6	46.2	47.8	47.6	48.6	48.6
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	49.2	48.0	48.2	47.8	48.0	48.0	48.6	50.5	51.1	51.0	50.4	49.2
	25	43.6	44.0	45.0	46.2	46.8	47.0	46.2	46.5	48.6	49.4	50.6	47.1
	26	41.4	41.4	43.2	46.2	50.2	51.4	52.0	55.7	56.7	57.5	54.7	56.0
	27	41.2	42.0	42.4	42.8	43.6	43.8	45.6	46.7	46.8	45.2	46.3	48.4
	28	42.6	43.6	45.2	49.2	49.0	50.6	55.2	56.2	57.8	56.6	56.8	56.4
	29	36.6	36.8	36.0	35.6	36.4	36.6	37.8	38.3	39.1	38.5	38.7	38.2
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	33.17	34.42	36.45	37.73	39.30	40.42	41.29	41.89	42.24	42.69	42.54	42.25	

<sup>a</sup> Good Friday.

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
13.9	13.3	12.2	12.5	11.5	11.2	9.2	9.0	7.6	6.3	5.5	4.4	12.15
13.4	12.1	10.1	7.6	7.2	0.1	0.3	2.9	4.5	6.0	6.6	7.1	8.90
15.6	15.1	14.5	13.5	12.9	12.2	9.7	8.5	9.1	7.5	5.7	3.7	12.66
13.9	13.3	11.5	9.9	9.0	8.2	—	—	—	—	—	—	10.98
—	—	—	—	—	—	6.1	7.3	6.1	6.5	5.7	4.6	—
18.0	16.2	13.2	13.6	12.7	10.4	6.7	3.6	6.2	0.0	-1.1	—	11.61
19.6	14.6	12.8	11.4	9.8	9.8	8.1	5.6	7.7	8.8	12.5	15.6	13.02
26.0	25.8	25.4	25.0	24.0	22.2	21.3	20.1	19.4	19.8	18.4	18.8	23.07
20.6	16.0	16.6	16.1	16.0	19.1	21.2	25.4	26.4	26.4	27.0	27.6	22.24
32.8	32.8	32.9	33.4	33.3	33.1	33.1	33.5	33.3	32.3	32.2	31.5	31.71
25.9	23.9	22.4	20.8	17.6	14.0	—	—	—	—	—	—	—
—	—	—	—	—	—	29.6	29.4	29.2	29.6	29.9	30.2	26.24
27.4	23.6	20.6	20.0	18.8	17.2	15.2	13.4	11.9	14.4	14.4	10.7	24.94
23.4	23.8	23.6	23.4	24.4	25.6	26.4	26.4	26.9	26.2	25.2	23.9	22.24
22.7	22.5	21.6	17.6	13.2	12.6	13.4	8.9	7.3	8.1	8.3	8.7	19.14
23.0	22.3	22.2	20.6	20.1	19.0	18.6	18.6	18.6	18.8	18.9	19.3	20.29
24.0	23.2	22.4	23.2	22.2	21.8	20.8	19.6	18.4	17.7	17.2	18.2	22.84
22.0	21.8	21.8	21.2	20.8	19.6	—	—	—	—	—	—	—
—	—	—	—	—	—	18.9	17.6	15.9	15.7	14.7	14.8	20.95
22.6	21.8	21.0	19.6	19.6	19.0	18.6	18.2	15.8	15.6	15.8	16.8	20.73
23.1	22.5	21.7	21.4	20.4	20.1	19.9	20.2	19.1	17.1	15.6	12.6	20.65
22.4	19.6	18.6	17.8	17.1	16.0	14.9	13.8	13.0	12.8	12.1	9.5	19.47
13.0	13.0	13.0	13.8	14.2	14.4	14.4	13.6	12.6	11.9	10.9	10.1	12.69
19.8	18.4	17.4	16.1	14.8	14.1	13.7	13.8	14.4	14.9	14.5	14.5	16.77
22.0	20.9	19.9	18.6	17.6	16.9	—	—	—	—	—	—	—
—	—	—	—	—	—	18.6	18.4	18.6	19.4	22.4	23.0	27.41
26.1	26.0	26.4	26.4	27.3	27.8	28.5	29.2	29.4	30.4	30.4	30.9	26.76
27.7	26.9	27.2	27.2	26.8	25.4	23.9	22.6	21.6	20.4	19.6	18.2	28.96
28.9	27.4	27.0	26.2	25.6	24.4	23.4	21.6	18.6	17.9	17.5	16.6	24.82
24.4	24.4	24.2	25.0	24.1	24.2	25.4	25.4	25.2	25.8	25.6	25.2	23.44
26.4	27.2	26.2	25.4	24.6	22.4	22.8	22.5	22.0	21.2	19.9	20.8	25.23
22.17	21.05	20.24	19.53	18.73	17.81	17.88	17.39	16.99	16.72	16.50	16.82	20.14
24.9	24.2	23.8	23.5	22.8	21.7	—	—	—	—	—	—	23.32
—	—	—	—	—	—	19.6	17.6	18.0	17.0	17.0	14.6	—
33.5	29.8	27.2	24.6	24.4	24.6	23.4	22.4	24.2	24.6	26.0	25.5	27.38
32.4	32.4	32.4	32.5	32.5	32.9	32.7	31.5	30.9	28.9	26.6	27.2	31.26
34.1	33.9	33.6	33.1	31.4	31.9	32.0	32.2	31.9	31.2	29.4	28.2	33.52
35.0	33.4	32.0	31.5	28.5	28.8	28.5	28.4	27.7	27.6	26.7	25.2	31.72
34.4	33.6	33.5	33.6	32.8	33.0	33.4	33.0	33.0	32.8	35.2	36.6	33.41
38.0	37.0	36.2	35.6	35.2	35.0	—	—	—	—	—	—	—
—	—	—	—	—	—	31.0	30.0	29.2	29.2	29.2	29.2	36.10
35.2	32.4	31.6	31.2	30.1	30.0	29.2	28.5	28.1	27.2	28.7	28.3	30.27
42.6	38.8	35.8	33.9	33.7	33.3	32.9	29.5	28.0	28.5	26.5	26.4	35.13
40.3	36.3	34.0	32.8	32.2	31.4	30.8	30.6	31.8	31.2	30.6	28.8	36.42
38.8	38.5	37.8	36.2	35.4	34.1	—	—	—	—	—	—	—
—	—	—	—	—	—	44.4	43.4	42.8	41.7	40.8	39.2	38.77
48.5	47.4	46.0	42.7	40.9	39.2	—	—	—	—	—	—	—
—	—	—	—	—	—	34.2	33.6	33.0	32.9	33.2	32.6	42.59
36.7	36.0	36.3	35.2	35.0	34.3	34.6	34.8	34.4	34.2	34.8	34.4	35.92
34.8	34.8	35.2	35.6	35.2	35.2	35.1	34.8	34.8	34.8	34.8	35.0	34.67
38.0	37.9	37.9	38.2	38.3	38.0	37.2	36.0	37.2	37.5	37.8	37.6	37.91
47.6	40.2	39.8	38.2	36.0	35.4	34.6	33.5	34.5	34.6	32.4	31.0	39.89
47.8	45.8	44.0	43.2	42.6	42.5	43.6	41.9	42.1	41.9	41.7	41.2	44.93
42.5	41.5	43.9	43.9	46.1	45.8	—	—	—	—	—	—	—
—	—	—	—	—	—	51.2	50.8	51.8	52.2	51.8	50.2	47.35
48.2	47.4	45.0	44.8	44.6	43.2	43.2	43.0	42.5	42.6	42.9	42.7	46.67
43.6	43.2	43.7	43.8	43.2	44.1	43.7	43.5	42.8	42.5	43.5	42.4	45.04
58.0	54.0	51.1	49.5	48.2	47.1	45.6	45.4	42.1	40.0	40.6	41.0	48.71
47.4	43.5	43.0	44.2	42.8	41.8	42.1	42.0	39.2	38.1	37.9	41.2	43.25
55.4	51.2	49.8	47.9	46.5	45.1	44.2	42.5	41.2	39.6	39.5	37.8	48.33
36.6	35.0	34.5	33.8	33.1	32.1	—	—	—	—	—	—	—
—	—	—	—	—	—	37.0	37.7	38.1	36.5	34.5	33.8	36.30
40.60	38.67	37.84	37.06	36.31	35.85	36.01	35.28	34.97	34.47	34.25	33.75	37.89



WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	34.8	36.2	37.4	36.4	36.6	35.6	37.4	37.5	36.3	36.8	36.2	35.7
	2	33.0	34.0	35.8	38.4	39.2	40.7	42.0	43.1	42.2	42.5	44.8	47.0
	3	31.6	32.8	38.4	41.2	42.5	44.8	44.6	47.5	44.8	46.3	42.6	44.0
	4	38.4	38.8	41.8	40.8	40.0	39.8	40.2	40.4	41.0	40.5	39.4	37.4
	5	36.4	35.8	35.8	36.4	36.4	35.4	33.8	33.1	34.2	35.5	37.3	36.0
	6	37.6	38.6	41.6	42.4	43.8	46.6	48.4	49.4	50.4	50.0	50.5	50.8
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	42.2	42.8	44.0	44.2	46.0	46.2	47.2	47.6	46.7	46.8	47.5	47.6
	9	36.4	40.4	44.2	45.0	47.0	47.8	49.2	48.5	50.9	52.8	51.8	51.2
	10	46.8	47.6	48.6	48.6	48.2	48.6	49.2	49.8	51.4	50.2	49.7	49.2
	11	46.6	48.2	48.0	49.0	50.6	51.8	52.6	54.1	54.1	53.7	54.9	54.7
	12	45.4	48.8	51.8	50.6	51.0	52.9	54.6	56.9	57.5	58.6	57.8	55.5
	13	48.2	49.8	53.0	55.0	57.0	59.2	60.8	61.8	63.8	63.2	62.2	62.8
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	56.8	58.8	59.6	61.2	61.8	63.0	59.0	64.6	57.4	61.3	64.9	62.3
	16	47.4	47.2	48.0	48.6	49.0	50.6	50.0	51.4	51.6	51.8	51.9	51.6
	17	35.5	37.0	38.6	40.4	43.0	43.6	44.4	49.3	48.4	46.9	49.7	51.5
	18	35.4	39.0	43.6	42.4	43.0	44.0	46.8	47.4	48.8	49.4	48.8	52.2
	19	40.0	41.2	44.4	46.0	48.5	48.2	48.6	49.5	51.1	48.5	50.8	49.2
	20	38.4	43.6	48.4	47.8	48.6	49.2	50.0	51.5	53.1	53.9	54.6	55.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	47.6	51.0	52.0	51.0	52.4	54.0	54.0	54.6	54.5	54.0	53.2	53.5
	23	49.4	51.8	53.2	53.0	56.0	56.8	53.4	53.0	54.9	53.3	51.1	47.7
	24	39.2	42.0	45.2	47.4	49.0	50.0	53.0	52.2	53.4	55.0	54.4	55.4
	25	42.6	44.6	46.0	47.2	48.0	49.6	51.0	50.8	53.0	54.4	54.8	53.2
	26	47.4	48.2	48.6	50.0	49.4	51.6	55.0	55.7	55.2	54.2	53.1	53.1
	27	49.8	49.7	49.4	50.8	51.1	50.5	50.5	50.6	50.1	49.9	49.5	49.6
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	44.4	46.0	46.8	48.8	50.8	52.0	50.7	53.1	52.6	54.8	55.6	56.2
	30	43.0	45.2	48.6	49.0	47.6	47.8	43.6	44.4	41.9	40.8	39.2	40.0
	31	37.2	37.2	37.6	37.2	37.9	37.4	38.2	37.6	39.2	39.3	37.0	37.6
Hourly Means	41.91	43.57	45.57	46.25	47.20	48.06	48.45	49.46	49.57	49.79	49.75	49.63	
JUNE.	1	35.4	36.0	37.4	35.6	38.1	38.3	38.7	39.2	40.6	41.2	42.1	41.2
	2	33.8	39.2	41.2	42.4	43.6	45.0	45.8	43.9	44.0	42.4	43.0	41.2
	3	45.6	49.0	49.6	49.8	48.4	49.2	48.8	47.6	47.5	48.1	47.8	48.0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	46.4	46.6	47.0	47.4	47.8	49.0	51.0	49.6	49.5	49.6	48.9	48.5
	6	44.0	45.0	45.8	48.4	49.2	51.0	52.0	47.2	49.2	48.2	49.6	50.2
	7	39.6	43.6	45.6	49.8	50.4	50.2	53.0	53.2	53.0	52.9	50.6	51.7
	8	45.4	47.4	48.4	48.4	48.2	47.6	48.5	50.2	51.2	51.8	53.8	55.8
	9	60.8	61.4	62.0	66.6	67.0	68.2	69.8	72.2	68.4	68.0	70.8	68.5
	10	44.6	45.6	47.0	46.4	47.6	48.4	50.0	49.1	49.1	50.0	48.4	49.2
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	48.0	50.2	50.2	53.2	55.6	58.8	61.0	63.3	64.0	65.1	64.7	63.5
	13	49.4	51.6	53.0	55.6	56.2	57.0	57.8	59.6	60.2	62.7	60.0	57.7
	14	52.0	54.0	55.0	56.0	55.8	57.0	56.4	55.1	54.6	54.5	55.0	55.0
	15	42.8	44.2	45.6	48.8	48.6	50.0	50.6	52.8	55.4	54.0	53.6	53.7
	16	48.4	49.6	51.0	53.2	56.0	56.2	56.6	56.7	57.8	58.1	60.5	61.2
	17	49.2	51.4	53.4	53.4	55.0	57.4	58.2	59.9	59.0	59.0	60.2	60.8
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	48.0	50.6	52.0	54.2	57.2	59.0	60.0	60.3	62.7	59.7	58.4	62.5
	20	53.6	57.0	58.2	60.2	62.6	65.0	67.2	68.4	69.9	67.7	67.4	66.8
	21	60.6	62.6	62.4	63.6	67.0	68.8	70.2	71.5	72.8	73.8	72.2	69.7
	22	59.0	62.1	64.5	64.5	67.3	68.4	68.4	71.2	71.5	71.8	70.6	69.4
	23	61.8	62.4	64.2	64.0	65.4	67.0	69.6	65.4	66.8	72.9	72.1	68.6
	24	61.6	62.6	64.2	64.4	63.2	64.2	65.4	67.5	68.6	72.0	65.9	66.7
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	56.6	59.8	60.6	63.4	65.2	63.4	68.0	67.4	70.7	72.5	73.1	71.5
	27	63.0	64.8	65.8	67.4	69.8	72.6	74.2	74.6	72.3	71.3	71.6	70.2
	28	64.0	66.4	67.6	68.0	70.6	70.0	69.0	73.4	72.9	73.1	71.9	70.0
	29	63.6	65.6	67.6	68.2	70.0	71.6	72.2	71.0	70.8	69.8	71.2	69.0
	30	60.6	65.0	65.4	66.4	68.0	69.3	70.1	72.5	72.6	73.5	71.6	73.0
Hourly Means	51.45	53.60	54.80	56.13	57.45	58.56	59.71	60.11	60.58	60.91	60.58	60.14	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
35.8	35.0	34.5	33.6	33.3	33.0	33.2	33.2	33.8	32.2	31.2	30.8	34.85
44.8	40.4	38.7	37.7	35.3	34.2	30.2	30.4	29.6	29.6	29.2	29.8	37.19
42.4	39.5	38.5	38.8	38.4	37.6	37.2	37.4	37.2	36.7	37.2	37.6	39.98
35.4	33.6	33.2	33.0	33.2	33.0	32.9	33.0	32.5	32.4	32.5	32.6	36.49
35.7	35.2	36.0	36.5	36.5	36.3	36.2	36.0	35.4	33.8	35.4	37.2	35.68
50.4	47.8	47.2	40.8	40.9	40.1	—	—	—	—	—	—	44.70
—	—	—	—	—	—	44.0	42.6	42.5	42.4	41.8	42.2	42.43
47.2	45.4	43.4	41.3	40.8	38.2	38.0	37.2	36.2	35.0	34.1	32.6	42.43
47.2	46.8	45.5	44.2	44.3	44.2	43.3	43.0	45.6	45.0	46.0	46.2	46.10
44.7	45.2	45.7	45.8	46.3	46.5	46.5	46.2	46.0	45.5	45.2	45.4	47.37
53.8	50.8	47.7	45.3	44.2	43.2	42.8	42.7	42.3	43.2	43.5	44.0	48.41
51.2	49.0	48.8	49.2	46.4	46.8	46.7	46.6	46.1	45.8	46.8	47.0	50.49
62.2	59.5	56.2	56.0	53.7	53.2	—	—	—	—	—	—	56.86
—	—	—	—	—	—	57.6	58.4	51.9	51.7	52.2	55.2	55.92
61.4	57.5	54.8	52.2	50.7	49.3	49.4	49.5	46.4	46.9	46.5	46.8	55.92
51.1	46.6	42.3	40.1	38.6	37.9	37.4	36.7	36.2	35.0	34.2	33.5	44.53
46.3	41.9	39.2	37.2	36.3	35.0	35.2	35.2	34.6	31.2	30.9	30.4	40.07
52.1	45.2	41.4	38.8	37.7	38.7	38.9	39.0	39.1	38.8	39.0	38.6	42.84
46.3	42.2	41.2	39.7	37.5	36.6	36.1	35.4	35.0	33.0	32.8	33.2	42.29
50.8	48.4	44.5	42.0	40.7	38.2	—	—	—	—	—	—	46.71
—	—	—	—	—	—	43.7	42.4	43.7	41.1	43.0	45.4	50.76
50.5	49.2	49.4	49.4	49.9	49.6	49.4	48.5	48.2	48.0	46.9	47.4	46.88
46.6	47.1	44.7	42.4	41.0	40.5	39.6	38.4	38.3	37.9	37.5	37.4	46.85
53.6	49.2	45.5	44.7	43.6	43.2	42.8	43.0	41.6	41.4	40.1	39.6	48.96
51.5	49.8	49.0	47.7	46.5	46.6	48.1	49.4	48.2	48.4	47.5	47.2	51.93
51.8	52.5	51.9	53.1	53.4	54.2	51.6	50.0	51.4	52.4	50.2	52.4	47.67
49.8	49.5	47.6	46.9	45.6	42.4	—	—	—	—	—	—	47.60
—	—	—	—	—	—	44.8	44.0	43.5	42.8	42.5	43.2	47.60
53.9	51.6	46.4	45.2	44.6	43.6	43.0	42.3	41.6	40.3	39.8	38.4	40.45
39.8	40.0	39.1	38.1	36.9	36.5	36.0	35.2	34.4	34.5	34.7	34.4	35.87
36.9	36.8	34.7	34.1	32.8	32.4	32.4	32.8	33.5	33.6	33.8	33.6	47.90
47.90	45.77	43.97	42.73	41.82	41.15	41.37	41.06	40.56	40.06	39.80	40.08	44.81
45.7	42.5	39.2	36.6	32.8	31.9	30.0	29.4	28.5	28.3	27.7	30.0	36.10
40.8	40.5	40.5	40.5	40.2	40.4	40.8	41.1	41.7	42.2	42.8	43.4	41.68
47.9	47.8	47.5	47.6	47.4	45.6	—	—	—	—	—	—	48.00
—	—	—	—	—	—	50.1	49.3	48.2	47.5	47.2	46.6	46.35
47.4	46.5	45.8	45.9	44.5	43.6	43.2	43.0	42.5	42.7	42.9	43.0	45.23
49.3	47.2	45.9	45.2	43.0	42.4	41.8	41.5	39.5	37.2	35.4	37.4	47.60
51.2	50.2	47.2	47.6	47.5	46.0	45.5	43.6	42.8	42.2	41.8	43.2	52.15
55.5	54.6	53.0	52.3	50.2	48.9	54.1	57.6	58.0	56.6	54.9	59.2	60.58
68.3	66.2	62.3	57.1	56.2	52.4	52.0	51.6	48.0	46.6	44.6	45.0	47.92
50.5	49.5	48.9	48.4	47.8	47.0	—	—	—	—	—	—	54.15
—	—	—	—	—	—	49.2	47.1	46.5	46.6	45.2	44.2	55.80
57.3	53.3	51.3	50.9	49.2	48.6	48.9	49.6	49.0	48.5	47.8	47.6	50.17
62.1	60.2	57.5	57.2	55.8	55.0	53.4	52.7	51.7	51.4	50.5	51.0	49.17
55.4	53.2	51.4	49.2	45.7	43.7	42.5	42.0	41.3	40.8	39.4	39.0	52.94
51.8	50.0	48.5	48.3	47.4	48.4	48.5	46.5	47.0	47.4	48.0	48.2	52.48
59.9	56.4	53.9	51.6	50.8	47.8	48.0	47.9	47.5	47.0	46.9	47.6	43.4
60.2	57.5	53.6	49.9	48.0	46.9	—	—	—	—	—	—	48.8
—	—	—	—	—	—	45.2	45.6	44.7	44.0	43.5	43.4	54.82
60.7	58.5	56.9	54.6	53.5	52.0	50.8	49.7	49.3	48.4	48.0	48.8	57.5
64.1	63.4	61.2	61.6	61.9	59.9	59.2	58.1	58.2	58.4	58.2	57.5	61.90
69.5	66.7	63.8	64.1	62.9	62.4	64.2	59.5	58.0	57.4	55.6	55.8	64.80
68.6	66.1	64.7	64.4	61.6	60.8	60.0	60.6	59.7	59.2	59.2	60.6	64.76
68.5	65.6	63.6	61.4	61.0	60.4	59.0	58.5	60.2	60.1	61.2	60.6	64.18
66.8	65.2	61.1	58.2	56.9	55.6	—	—	—	—	—	—	61.05
—	—	—	—	—	—	52.6	52.4	51.6	51.4	53.2	53.8	64.09
69.8	67.5	64.4	61.1	61.9	61.7	61.4	60.7	61.4	58.8	58.6	58.6	67.60
67.9	68.6	68.1	66.6	66.0	59.7	65.6	65.7	65.0	64.5	64.0	63.0	66.17
65.0	65.5	64.1	63.0	63.0	62.8	62.5	61.9	1.3	60.3	60.6	61.2	65.34
70.0	69.5	66.4	65.7	64.2	61.6	59.8	57.1	67.4	55.6	54.7	55.6	67.59
74.2	70.4	69.2	67.9	65.8	64.2	64.2	64.4	3.5	63.6	63.4	63.3	59.55
59.55	57.79	55.77	54.50	53.28	51.91	52.02	51.43	50.87	50.26	49.82	50.29	55.48

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	66.2	69.2	70.6	72.5	73.2	74.6	77.4	78.5	78.6	78.8	78.6	76.4
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	47.6	49.8	53.2	53.2	52.8	54.3	56.2	58.6	56.6	59.5	61.5	61.8
	4	50.4	54.0	56.4	60.4	60.6	59.4	61.6	61.3	61.7	61.9	61.1	62.4
	5	55.6	56.0	55.6	55.4	57.5	58.4	61.2	61.5	59.3	59.3	61.0	61.6
	6	50.4	53.6	55.0	58.8	60.9	60.4	58.7	59.6	61.8	64.0	64.4	65.9
	7	54.6	56.0	57.6	58.2	65.2	63.4	60.8	61.5	61.4	63.0	62.8	63.8
	8	56.2	59.6	62.0	62.8	64.0	63.6	63.0	62.2	62.0	62.5	62.9	64.5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	59.2	61.6	62.0	62.9	65.4	65.8	65.5	67.6	61.6	62.6	62.5	58.2
	11	58.0	60.0	50.4	52.2	54.2	54.8	56.0	56.0	58.2	59.2	60.2	59.2
	12	45.8	52.0	53.8	56.0	58.2	58.8	59.8	61.5	61.8	61.0	61.7	63.0
	13	47.8	53.0	54.8	58.2	60.0	61.2	63.0	64.1	65.1	65.6	64.5	65.2
	14	56.0	59.0	60.6	63.4	66.6	68.5	69.9	71.0	73.0	70.4	68.9	68.7
	15	62.2	62.6	63.6	64.6	65.5	66.4	69.2	71.4	69.2	68.4	67.9	69.5
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	62.5	63.1	64.1	62.8	64.8	69.2	71.6	72.3	75.2	74.5	69.7	69.5
	18	66.4	68.7	70.5	69.5	70.4	71.4	73.0	75.0	72.2	69.8	70.2	68.6
	19	59.9	59.3	58.3	53.8	55.9	56.5	55.6	56.6	54.7	54.8	55.6	56.0
	20	46.9	49.2	51.1	51.2	52.1	54.6	57.0	57.9	58.4	59.2	60.8	64.5
	21	44.2	51.4	54.2	55.8	57.0	59.0	60.6	60.2	62.0	63.4	64.6	64.4
	22	54.6	57.0	58.8	60.2	61.6	64.2	66.6	68.6	69.5	68.0	69.7	68.1
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	64.2	65.4	67.8	67.5	66.4	67.4	67.2	68.0	68.4	67.3	67.6	67.2
	25	56.0	58.7	60.1	61.6	62.2	64.0	63.9	64.7	66.2	66.9	67.1	65.1
	26	57.0	61.7	64.6	67.2	69.4	71.1	72.6	72.0	75.8	73.2	72.0	69.3
	27	61.8	63.0	64.0	64.0	65.0	65.6	65.2	67.0	66.5	66.5	66.7	68.1
	28	59.8	61.6	63.2	65.0	67.6	70.6	73.2	71.5	72.3	67.5	69.6	71.4
	29	60.0	59.2	59.2	59.2	59.6	58.8	59.4	58.4	58.1	58.6	59.0	59.7
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	45.6	53.4	55.6	56.2	59.1	60.0	61.8	61.6	62.5	63.6	64.5	64.6
Hourly Means	55.73	58.39	59.50	60.49	62.12	63.15	64.23	64.95	65.08	64.98	65.20	65.26	
AUGUST.	1	51.0	52.0	53.2	55.0	55.4	56.7	58.6	59.0	61.0	62.8	61.9	62.8
	2	47.0	48.9	54.8	57.0	58.2	58.4	60.7	62.0	63.8	64.0	64.8	63.9
	3	51.8	56.4	59.4	61.0	63.0	64.4	67.2	67.2	68.5	68.3	69.2	68.4
	4	55.4	59.2	62.0	62.8	63.8	65.4	65.4	65.6	65.4	65.9	65.8	66.4
	5	61.8	62.8	64.4	66.8	69.4	69.4	68.2	70.2	68.5	69.2	68.0	68.4
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	64.2	67.6	69.6	70.8	71.6	72.6	70.4	72.4	72.8	69.0	70.4	69.7
	8	62.5	65.4	66.6	68.0	67.6	68.6	69.2	69.7	69.8	69.2	70.8	68.3
	9	53.4	56.6	59.8	62.4	64.8	66.0	67.4	67.5	67.1	67.7	66.8	66.7
	10	59.1	61.2	63.6	65.4	67.4	68.8	69.6	70.3	68.0	68.5	71.3	66.5
	11	59.0	59.6	61.6	63.8	64.8	67.4	68.6	68.4	70.0	69.8	71.0	71.2
	12	57.6	59.0	62.2	64.0	65.0	68.0	68.8	68.6	69.1	69.0	70.0	68.4
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	66.6	67.2	68.0	67.6	68.6	68.6	71.0	72.8	73.2	70.8	69.5	69.7
	15	58.0	60.4	62.2	64.0	64.0	64.0	64.2	66.6	65.2	70.2	66.7	66.1
	16	56.6	60.6	63.8	66.0	67.6	69.4	71.0	72.6	72.3	73.4	73.5	73.2
	17	64.0	65.0	65.6	68.0	68.8	70.8	69.2	71.2	69.8	69.8	70.8	69.7
	18	57.0	57.8	58.0	58.8	59.8	61.6	64.4	66.0	66.0	64.5	60.5	62.6
	19	50.6	53.8	55.4	58.2	57.6	60.8	62.4	61.7	62.4	61.3	61.3	60.4
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	54.8	56.0	57.6	59.0	59.0	59.0	61.0	62.1	63.2	63.2	63.9	66.1
	22	54.0	56.0	57.8	59.6	60.0	63.2	63.2	64.8	64.9	65.0	66.1	64.8
	23	53.0	54.6	57.6	60.8	64.7	65.0	65.2	64.8	65.4	64.5	65.0	66.3
	24	47.6	52.6	56.2	59.6	61.2	61.2	62.6	63.5	63.4	65.7	66.2	66.2
	25	51.0	54.6	60.2	64.2	65.4	64.2	63.6	67.0	68.4	67.7	67.6	68.4
	26	55.2	60.2	63.5	65.8	68.2	69.6	71.3	72.3	72.3	73.3	73.4	72.1
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	65.6	65.6	66.4	68.2	68.1	70.1	70.2	71.3	72.4	72.9	72.3	71.6
	29	61.6	63.8	66.4	67.8	68.4	69.6	70.4	71.4	71.6	70.4	68.6	68.8
	30	57.0	60.8	64.3	67.6	70.6	70.2	72.4	74.1	74.2	74.3	73.8	73.6
	31	65.0	68.6	70.4	71.4	71.8	73.4	73.7	74.2	74.4	74.1	74.5	75.4
Hourly Means	57.05	59.49	61.87	63.84	64.99	66.16	67.03	68.05	68.26	68.31	68.29	67.99	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
74.2	72.8	70.5	69.2	70.8	70.5	—	—	—	—	—	—	66.79
58.8	54.4	53.6	51.0	48.4	47.6	49.1	48.5	46.8	44.8	45.5	45.6	52.65
59.9	60.5	59.3	58.5	58.4	58.5	58.2	57.7	57.2	56.5	55.8	55.6	58.64
61.3	60.6	54.5	51.2	48.6	49.2	47.2	46.0	46.6	46.7	46.2	46.6	54.46
63.3	61.0	57.2	56.2	56.2	55.6	55.7	55.6	56.0	56.0	53.5	54.6	58.10
62.9	61.2	58.9	57.8	56.8	55.4	53.8	51.9	52.2	51.2	49.5	52.6	58.02
65.6	62.2	60.5	59.0	57.1	54.8	—	—	—	—	—	—	60.17
—	—	—	—	—	—	57.2	57.2	57.0	56.0	55.6	56.6	56.82
57.0	55.8	52.4	51.6	49.9	49.4	49.6	49.4	49.2	48.6	48.2	47.6	51.22
56.4	56.8	52.6	49.2	45.4	44.0	42.5	42.4	42.0	40.2	39.7	39.8	53.87
63.3	57.7	53.8	49.5	48.0	46.8	46.9	47.0	46.5	46.5	47.0	46.4	58.57
65.2	60.8	58.6	57.6	57.6	57.0	56.4	55.4	54.8	53.8	53.2	52.8	64.70
67.6	65.2	64.4	63.5	63.1	62.6	62.4	61.2	61.2	61.9	61.7	62.0	65.54
69.3	67.7	66.0	65.0	65.2	64.8	—	—	—	—	—	—	67.10
—	—	—	—	—	—	62.6	62.8	62.5	62.2	62.1	62.2	66.27
66.6	68.0	67.7	67.4	66.7	65.5	65.8	65.7	66.2	65.2	63.4	62.8	52.73
68.2	67.7	63.8	63.0	62.8	61.2	60.6	60.0	59.7	59.5	59.0	59.2	52.29
57.8	55.1	51.0	48.8	48.0	47.6	47.8	47.8	47.8	47.0	45.7	44.2	56.42
63.0	60.0	55.5	51.6	49.7	47.5	46.1	45.4	44.5	43.8	43.6	41.4	63.42
63.6	61.9	58.7	55.9	54.0	52.8	51.5	52.0	52.2	52.8	51.4	50.6	61.93
65.7	64.4	61.8	60.6	60.0	58.8	—	—	—	—	—	—	59.66
—	—	—	—	—	—	64.6	63.7	64.1	64.1	63.6	63.8	65.53
67.2	63.9	59.2	57.6	56.3	55.4	54.4	54.0	53.8	53.4	53.2	53.5	62.19
63.9	60.6	58.8	58.4	56.5	54.4	54.0	52.0	52.1	55.2	55.5	54.0	68.01
67.5	66.2	63.4	65.0	63.6	63.9	62.8	60.4	59.5	59.1	58.5	57.0	54.74
65.5	62.9	60.8	58.6	57.9	56.5	56.9	57.5	58.2	59.0	58.0	57.4	56.07
74.1	72.1	71.2	70.8	68.5	67.8	69.0	69.2	65.9	65.4	63.0	62.0	—
61.5	58.0	55.2	53.4	49.7	49.1	—	—	—	—	—	—	—
—	—	—	—	—	—	48.5	47.4	46.8	46.0	44.8	44.2	—
65.2	65.5	54.7	52.8	51.5	51.0	50.8	49.8	49.6	49.4	48.0	49.0	—
64.41	62.42	59.39	57.82	56.57	55.68	54.70	54.10	53.85	53.54	52.81	52.65	59.46
63.4	59.8	56.2	53.0	50.8	50.4	48.9	47.8	47.0	47.0	45.5	44.0	54.30
61.8	59.0	58.8	56.2	55.7	52.7	51.7	51.0	51.5	49.5	48.9	49.0	56.22
68.0	65.4	61.0	57.8	56.4	55.6	55.5	55.2	54.6	54.1	53.7	53.0	60.63
64.5	60.6	58.5	57.5	57.4	57.4	57.6	59.0	58.3	57.0	57.6	60.0	61.10
67.0	65.3	64.0	63.0	63.0	62.2	—	—	—	—	—	—	65.47
—	—	—	—	—	—	63.2	63.2	63.4	63.0	63.6	63.2	67.72
69.5	68.4	67.8	67.0	66.3	65.9	64.7	64.0	63.0	63.0	62.5	62.0	63.80
69.3	67.9	65.2	63.2	61.7	58.5	57.5	56.7	54.8	53.5	54.7	52.6	62.11
67.1	64.5	61.5	60.0	59.5	59.0	58.2	59.9	60.5	60.2	58.0	56.0	63.84
67.0	65.0	62.2	61.3	61.0	60.7	60.0	59.7	59.0	59.0	58.9	58.6	63.59
69.7	65.1	63.0	61.2	61.0	60.7	58.8	60.4	60.4	59.0	56.1	55.6	64.48
69.0	66.4	66.7	63.6	62.7	59.0	—	—	—	—	—	—	65.59
—	—	—	—	—	—	60.2	59.2	58.7	63.0	64.0	65.2	61.22
70.5	66.2	64.8	63.4	61.8	61.0	61.0	59.2	58.8	58.5	58.4	57.0	66.40
67.8	64.2	61.2	60.0	58.5	57.0	56.4	55.1	54.5	54.1	54.9	54.1	65.70
70.4	66.5	66.4	64.2	64.0	63.6	61.5	61.9	62.4	64.6	65.0	63.2	57.15
67.7	66.2	65.6	65.5	65.0	63.8	64.4	64.0	60.2	57.8	56.5	57.4	56.85
64.4	58.1	56.2	52.8	51.0	52.0	51.4	51.6	50.8	49.9	47.9	48.6	57.28
61.0	57.4	53.2	53.5	53.3	53.2	—	—	—	—	—	—	59.16
—	—	—	—	—	—	55.0	55.4	55.2	53.4	54.0	53.8	58.01
63.4	58.0	55.4	53.6	53.6	53.0	52.5	52.9	52.7	52.0	51.6	51.2	57.47
64.0	61.0	59.2	58.2	57.4	56.9	55.8	55.0	54.5	54.4	53.0	51.0	61.36
67.2	61.3	56.4	55.2	54.4	53.0	52.9	52.2	52.0	48.0	46.5	46.2	67.13
62.2	60.3	57.9	57.0	56.2	54.0	53.7	52.5	51.4	50.4	49.2	48.4	66.40
67.4	65.8	62.7	61.0	59.6	58.8	57.8	56.3	56.2	55.5	54.8	54.5	65.70
69.5	67.4	65.6	65.3	64.2	65.2	—	—	—	—	—	—	57.28
—	—	—	—	—	—	66.8	66.8	66.5	66.1	65.4	65.2	59.16
69.2	66.8	65.2	63.2	62.4	62.4	62.4	62.7	62.2	61.3	61.2	60.0	64.27
67.9	64.7	62.2	61.0	60.5	60.3	60.3	59.5	58.0	57.5	56.6	55.2	67.61
71.7	68.0	66.8	65.5	65.2	64.8	64.7	65.2	64.2	64.7	64.8	64.2	69.11
74.0	70.0	67.0	67.8	66.5	66.0	65.4	64.6	63.2	62.5	62.1	62.6	—
67.21	64.05	61.88	60.40	59.60	58.78	58.46	58.19	57.56	57.00	56.50	55.99	62.37

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	61.2	66.8	68.6	67.8	69.5	72.4	73.0	73.5	72.8	71.8	74.0	73.3
	2	65.0	67.0	68.6	68.6	70.8	73.4	75.0	77.5	76.3	76.8	74.9	75.1
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	65.0	65.8	64.4	66.2	66.2	67.4	68.4	71.7	72.8	68.4	67.0	66.7
	5	55.3	59.2	56.0	58.0	59.2	61.6	63.3	64.1	63.9	64.6	65.8	63.2
	6	57.4	57.8	59.0	59.6	60.4	64.0	64.0	65.4	65.0	64.1	64.8	64.5
	7	64.0	64.6	64.8	66.0	66.0	66.6	66.6	67.8	67.5	66.8	67.5	65.2
	8	61.0	61.4	61.4	63.6	65.2	67.2	67.8	67.5	67.5	68.5	68.4	63.0
	9	43.8	44.8	45.2	47.0	47.4	48.9	50.0	50.8	51.7	51.8	50.5	49.8
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	39.4	44.0	46.0	47.0	47.8	49.2	51.4	52.6	53.0	54.2	55.1	55.4
	12	40.6	42.6	44.6	48.0	50.4	52.0	54.0	53.3	54.6	55.8	54.5	53.4
	13	43.0	48.0	49.6	51.1	52.0	52.8	53.6	54.2	54.1	54.4	54.0	54.1
	14	54.6	54.0	53.8	53.8	54.0	55.0	55.4	55.6	55.7	55.7	54.8	54.1
	15	58.2	58.0	58.0	58.6	60.0	59.6	60.4	63.1	65.3	67.0	65.4	64.5
	16	55.4	56.4	58.0	58.6	59.4	60.6	62.0	63.7	64.4	63.7	64.4	60.8
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	62.0	68.2	64.8	63.4	63.6	65.4	66.8	65.8	64.9	64.3	63.9	63.2
	19	49.0	52.0	55.0	56.8	58.0	59.2	60.2	60.8	59.8	60.0	59.7	58.5
	20	56.0	56.7	58.0	59.7	59.8	60.4	60.2	64.0	65.7	64.8	65.2	62.9
	21	61.4	64.8	67.8	72.8	73.7	74.5	73.5	73.7	74.1	73.3	72.2	71.0
	22	44.6	46.2	49.2	50.2	51.0	51.6	52.6	53.5	51.4	52.0	51.6	52.2
	23	56.0	56.6	59.2	60.6	61.8	62.2	65.2	68.9	69.0	69.4	71.0	70.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	54.6	54.4	54.4	54.4	54.2	54.8	55.2	56.7	57.2	56.4	55.5	54.7
	26	45.0	44.6	43.6	44.8	42.8	43.2	43.2	44.0	43.5	44.0	42.8	42.0
	27	35.0	35.2	34.2	34.8	38.2	38.6	40.6	41.6	42.7	44.6	44.0	44.6
	28	33.6	35.2	38.8	41.3	44.2	46.4	49.2	50.0	50.7	51.6	49.8	52.4
	29	42.4	44.0	47.0	49.4	52.6	55.2	56.6	56.9	58.7	58.9	57.5	57.7
	30	42.6	44.2	50.6	52.0	54.5	56.9	57.3	57.8	57.5	56.3	55.6	54.2
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	51.89	53.56	54.64	55.93	57.03	58.43	59.52	60.56	60.76	60.74	60.38	59.51	
OCTOBER.	2	49.4	49.6	50.0	51.2	51.6	51.6	52.3	52.0	50.9	51.8	51.8	50.6
	3	43.0	44.2	44.6	45.8	47.0	47.2	47.0	47.4	47.2	47.0	47.0	46.4
	4	40.8	41.2	42.2	43.0	44.8	46.0	45.6	48.4	47.4	46.4	45.2	44.6
	5	36.0	39.2	43.4	45.2	47.6	48.6	50.6	52.5	52.9	54.0	53.3	51.9
	6	42.0	47.0	50.2	54.2	55.8	57.2	59.0	59.5	59.4	58.7	56.8	57.1
	7	55.8	55.0	54.0	54.2	54.6	55.0	55.0	55.3	56.0	56.0	55.5	53.8
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	35.8	38.0	41.6	44.0	45.6	46.0	47.2	48.8	46.5	45.8	45.7	45.4
	10	37.8	38.6	41.6	44.0	44.6	45.8	46.6	47.0	48.4	46.8	46.2	44.8
	11	48.6	49.2	49.2	49.8	50.2	50.8	51.6	51.7	52.4	52.0	51.8	51.7
	12	44.8	39.6	45.2	47.0	47.6	47.6	47.4	47.1	46.5	45.9	45.0	44.4
	13	34.2	34.8	36.5	39.0	39.8	40.2	41.2	40.5	40.2	40.0	40.1	38.8
	14	30.4	31.4	33.4	35.4	36.6	37.4	37.8	39.5	39.7	39.5	38.6	37.5
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	37.8	38.2	38.8	39.6	41.6	42.2	45.0	43.2	42.8	42.0	42.4	41.2
	17	36.2	36.4	37.4	38.0	36.8	37.4	37.0	37.2	37.4	37.2	37.5	36.0
	18	36.0	36.4	37.6	38.6	41.4	41.4	41.6	41.6	42.8	43.0	42.2	40.6
	19	31.2	32.0	35.0	37.2	39.6	39.8	40.1	40.5	42.3	44.1	42.8	40.8
	20	40.6	41.8	43.6	46.0	47.2	48.8	49.6	50.8	52.8	52.2	53.2	51.6
	21	51.0	49.4	48.2	48.0	47.4	45.7	43.9	42.6	41.2	40.1	37.5	36.6
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	24.4	25.8	29.0	30.6	32.6	32.7	36.2	36.3	37.5	37.3	37.6	36.2
	24	27.6	27.6	30.4	32.6	33.0	38.4	40.0	40.5	41.4	41.1	40.4	38.0
	25	37.4	38.0	39.0	41.1	44.2	44.2	42.2	40.0	39.2	39.2	36.2	34.2
	26	27.4	26.6	28.8	31.8	32.6	32.8	33.0	34.7	36.1	35.1	33.4	32.8
	27	28.4	27.4	27.8	28.8	30.0	31.8	30.4	30.4	30.4	31.1	31.4	31.2
	28	28.0	28.0	30.0	31.6	32.8	32.8	35.2	37.5	37.1	38.0	36.8	34.7
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	32.4	32.2	33.4	33.4	33.4	33.6	33.0	32.5	32.4	31.6	30.4	29.4
	31	26.4	26.0	28.4	29.6	30.8	32.2	32.6	32.6	33.2	34.8	34.2	35.0
	Hourly Means	37.05	37.45	39.20	40.75	41.89	42.58	43.12	43.47	43.62	43.49	42.81	41.74

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
70.7	69.0	69.8	68.9	66.8	64.4	68.8	68.0	67.5	66.8	65.5	65.0	69.12
74.0	73.2	73.2	72.5	72.4	70.8	—	—	—	—	—	—	71.55
65.7	63.2	61.9	61.8	61.1	60.5	71.0	70.6	70.2	70.4	65.5	64.4	63.87
62.8	60.4	58.4	57.2	56.5	56.5	60.7	60.0	59.0	57.8	56.2	55.0	59.47
64.4	64.5	64.5	64.6	64.8	64.0	63.5	63.8	63.9	64.1	64.5	64.2	63.20
64.6	63.5	62.4	61.2	61.2	61.2	61.2	61.8	59.0	58.2	60.5	60.6	63.70
59.6	57.6	55.2	51.8	50.5	49.0	47.5	46.7	45.9	45.0	44.5	43.8	57.48
47.3	45.6	43.8	43.4	43.2	42.4	—	—	—	—	—	—	45.63
—	—	—	—	—	—	43.2	42.8	41.8	41.0	40.4	38.6	—
51.0	46.4	44.2	43.0	41.8	40.4	40.0	41.3	41.3	41.2	41.3	41.0	46.17
50.2	45.0	43.0	43.4	41.5	41.2	41.1	41.7	44.4	44.8	45.8	45.6	47.15
54.8	56.2	55.3	55.8	56.0	54.7	54.8	55.0	54.8	55.0	55.5	55.4	53.51
53.9	54.4	54.8	55.2	56.0	56.8	57.2	57.6	58.1	58.3	58.2	58.2	55.63
61.8	60.5	60.2	58.0	57.7	58.7	58.2	57.6	56.4	56.3	55.4	55.2	59.75
59.7	58.8	57.9	55.4	57.0	57.0	—	—	—	—	—	—	61.03
—	—	—	—	—	—	65.2	64.4	65.4	65.4	66.7	64.4	—
61.0	58.2	56.2	54.0	52.3	50.4	49.2	48.3	47.8	46.9	49.0	47.2	58.20
57.2	56.0	55.0	54.7	54.2	55.5	56.0	56.0	56.0	55.6	55.0	56.0	56.51
61.2	60.2	60.0	58.8	57.0	57.2	56.8	57.0	58.2	58.2	58.8	58.0	59.78
67.4	62.2	60.6	58.0	57.4	56.2	52.7	51.7	49.5	48.0	46.5	45.6	62.86
48.8	49.2	49.6	49.5	48.0	48.0	52.4	51.6	52.0	53.0	54.5	55.2	50.75
67.0	65.7	66.8	68.0	67.4	66.9	—	—	—	—	—	—	62.54
—	—	—	—	—	—	55.3	55.0	54.8	54.0	54.7	54.6	—
52.5	51.7	51.3	51.0	50.2	50.0	49.5	47.2	46.8	46.0	45.8	45.8	52.10
41.6	40.5	40.8	40.0	38.0	37.0	36.5	35.8	36.2	35.2	34.8	35.2	40.63
41.4	38.2	36.5	36.6	36.5	36.2	35.3	35.2	33.5	32.6	32.6	33.6	37.60
46.4	43.5	41.5	40.6	40.8	40.0	38.8	38.5	39.0	40.2	40.8	41.2	43.10
55.4	52.0	51.0	50.5	47.8	45.1	44.0	45.5	43.7	43.6	42.4	42.0	50.00
52.8	53.2	53.5	55.4	56.4	56.4	—	—	—	—	—	—	52.97
—	—	—	—	—	—	51.8	52.0	51.0	50.4	49.8	49.2	—
57.51	55.73	54.90	54.20	53.56	52.94	52.60	52.38	52.03	51.70	51.62	51.25	55.55
48.7	47.0	44.5	45.5	45.2	44.4	43.0	43.2	44.9	45.0	44.2	43.0	47.98
44.2	43.4	42.7	41.8	41.2	41.2	41.2	41.0	41.0	40.6	40.4	40.4	43.87
42.8	41.2	41.0	40.3	41.3	41.2	40.9	40.8	40.4	39.8	37.6	36.4	42.47
52.3	50.7	50.4	48.3	46.4	46.0	46.4	47.9	48.2	46.9	44.4	43.0	47.75
55.4	55.5	55.5	55.8	56.1	56.3	56.5	56.2	55.7	55.6	55.8	55.4	55.28
53.9	54.8	54.8	54.7	51.1	50.2	—	—	—	—	—	—	49.69
—	—	—	—	—	—	38.2	37.2	35.2	34.9	33.5	33.8	—
44.8	44.4	44.0	44.2	43.7	42.1	41.0	40.0	37.4	37.0	37.2	37.6	42.66
45.3	45.3	45.2	45.0	44.5	44.2	44.3	44.5	45.4	46.0	46.6	48.0	44.85
50.4	50.0	50.1	49.0	47.4	46.8	47.0	46.7	45.7	45.4	45.6	44.6	49.07
41.8	40.8	39.4	38.2	37.3	36.4	34.4	32.5	33.2	33.3	33.3	34.4	40.96
37.8	36.8	36.0	35.0	32.3	32.0	31.8	31.0	30.6	30.2	30.4	30.2	35.81
36.4	35.9	35.5	34.8	34.0	33.6	—	—	—	—	—	—	36.40
—	—	—	—	—	—	37.8	37.4	37.2	38.1	38.0	37.8	—
40.0	39.8	39.7	38.8	37.4	38.2	37.9	37.5	37.0	36.7	36.4	36.2	39.60
35.4	35.2	35.2	35.4	35.0	35.4	35.8	36.0	36.2	36.4	37.4	36.0	36.41
40.3	40.0	38.8	37.8	37.0	35.6	33.6	34.4	33.6	33.5	31.9	31.0	37.95
39.8	39.2	39.3	38.6	37.8	36.0	36.2	36.2	36.4	36.8	37.0	37.6	38.18
52.0	51.0	42.0	51.8	51.5	49.8	51.0	53.9	52.5	52.0	52.5	52.6	50.03
35.4	35.0	34.0	34.0	34.4	34.2	—	—	—	—	—	—	37.52
—	—	—	—	—	—	29.2	28.8	26.6	26.0	25.8	25.4	—
32.3	—	—	28.4	28.5	28.4	27.2	28.6	27.6	28.2	27.8	27.5	30.94
34.8	32.4	32.0	32.5	31.9	31.1	31.5	32.5	32.2	32.4	32.7	36.0	34.29
33.7	32.6	31.8	32.0	29.0	28.1	28.4	28.8	28.2	29.0	28.5	27.6	34.69
32.9	33.4	33.5	33.2	33.5	33.4	33.8	32.8	32.5	31.4	31.8	29.8	32.38
31.2	31.4	31.5	32.2	32.5	32.0	31.2	31.1	29.9	29.4	27.4	28.0	30.29
32.0	31.2	33.5	33.8	37.3	38.0	—	—	—	—	—	—	—
—	—	—	—	—	—	34.4	33.2	32.0	31.6	32.0	32.6	33.50
28.5	28.0	27.4	27.2	27.0	26.7	26.7	26.1	26.4	26.6	27.1	26.4	29.66
34.8	31.6	28.8	29.8	29.4	26.8	26.7	27.2	29.8	32.5	32.8	33.0	30.79
40.65	40.26	39.86	39.16	38.57	38.00	37.16	37.13	36.76	36.74	36.47	36.32	39.76

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	33.4	33.0	33.2	34.2	34.7	34.6	33.6	33.7	33.2	34.0	35.0	36.2
	2	34.2	34.8	35.2	36.8	37.2	37.0	36.6	36.7	36.1	35.8	35.0	34.2
	3	28.6	29.2	29.6	29.6	30.0	30.6	31.6	32.2	31.8	31.6	30.6	30.3
	4	25.4	25.8	25.6	25.8	26.8	26.6	27.0	27.2	27.2	27.0	26.8	26.4
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	19.2	19.0	22.8	26.0	28.0	29.2	30.5	30.6	31.4	32.2	30.6	30.4
	7	29.6	30.0	30.6	30.2	31.6	32.0	32.6	32.7	32.7	34.9	34.6	33.6
	8	32.2	31.6	30.8	30.6	31.6	32.4	32.2	32.7	32.6	32.3	32.0	31.6
	9	29.4	30.0	29.6	31.6	32.6	32.6	33.2	34.2	34.0	34.8	33.2	33.2
	10	33.2	33.6	34.2	34.6	35.8	37.8	38.6	38.6	38.6	38.6	38.1	37.6
	11	35.0	36.0	36.4	36.6	37.0	37.0	36.8	37.1	37.0	36.5	35.5	35.5
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	28.6	28.0	28.6	29.2	30.8	32.0	32.6	31.2	31.6	31.7	28.2	26.7
	14	19.2	19.0	19.2	20.4	21.0	21.8	23.6	26.1	25.8	25.2	23.7	22.0
	15	28.4	29.0	30.0	30.4	31.0	32.0	32.2	32.4	32.5	32.8	33.8	34.9
	16	39.2	39.4	40.2	40.6	41.8	42.8	44.0	47.5	47.7	45.6	44.3	42.6
	17	30.2	31.0	32.0	32.6	37.4	40.6	41.2	40.9	40.5	40.7	40.7	40.6
	18	41.6	40.6	40.6	41.2	41.4	40.5	39.8	40.4	39.5	38.5	37.3	37.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	28.0	28.6	31.8	32.6	34.4	39.2	40.6	41.7	40.0	41.0	39.0	37.0
	21	39.2	39.4	40.2	41.6	42.6	42.2	40.9	41.2	40.6	40.0	39.4	38.9
	22	29.2	29.0	29.8	31.4	32.0	32.3	32.6	32.7	32.3	32.5	32.6	32.4
	23	25.4	27.2	30.4	32.4	32.7	34.8	37.6	37.4	36.6	37.1	37.5	37.2
	24	45.6	48.6	45.2	42.2	40.8	40.2	40.4	39.8	40.0	38.7	37.5	35.0
	25	30.0	28.8	29.4	30.8	32.0	32.5	32.7	34.8	35.4	35.9	35.4	33.5
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	21.2	20.4	20.2	19.8	20.0	20.4	21.0	21.8	22.5	23.6	23.4	21.4
	28	15.0	15.4	17.0	20.6	22.6	24.0	26.0	27.0	27.5	28.2	28.2	27.0
	29	26.6	26.6	27.0	28.0	29.4	30.2	30.6	30.7	30.7	31.3	31.0	30.6
	30	22.8	22.2	22.0	23.2	23.5	24.6	24.8	25.8	25.4	25.2	25.4	25.5
Hourly Means	29.63	29.85	30.45	31.27	32.26	33.07	33.59	34.12	33.97	34.07	33.42	32.75	
DECEMBER.	1	27.6	27.8	28.0	29.2	29.5	30.1	30.4	30.6	30.6	30.5	30.0	30.1
	2	26.6	27.0	27.4	28.0	29.0	30.0	31.2	31.5	31.4	31.4	30.0	28.5
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	32.4	32.4	32.8	32.8	34.8	36.8	37.8	37.2	36.9	36.2	35.8	35.4
	5	26.5	25.5	23.9	23.4	22.8	21.6	21.2	21.0	21.8	22.0	19.6	18.0
	6	19.6	20.6	24.2	25.2	26.8	27.6	28.4	28.5	28.5	28.0	27.2	27.5
	7	26.6	26.4	27.2	29.0	29.6	28.6	29.8	30.7	31.0	29.9	29.7	29.3
	8	28.8	28.8	26.6	25.4	26.4	27.4	29.4	29.2	29.6	30.6	30.9	31.4
	9	26.8	27.0	27.4	28.0	28.8	29.2	30.4	30.0	30.0	29.4	28.6	27.6
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	34.0	35.0	35.0	34.8	34.0	33.4	33.3	33.2	33.4	31.8	31.6	32.5
	12	18.2	15.2	13.6	14.2	15.4	15.8	16.0	16.4	15.2	14.4	13.2	12.4
	13	4.4	6.6	11.0	13.4	18.2	22.6	23.4	24.9	25.9	27.3	26.1	25.4
	14	26.0	27.2	28.4	29.4	31.0	32.2	32.8	32.6	32.7	33.5	33.2	33.0
	15	32.4	33.0	33.0	33.4	34.4	35.4	35.8	35.2	35.5	34.0	33.5	33.2
	16	33.8	33.8	33.8	33.8	33.8	33.8	34.0	34.0	34.2	34.2	33.0	32.6
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	29.8	29.8	30.2	30.8	31.4	31.4	30.4	31.0	31.4	31.2	31.8	30.6
	19	28.0	27.8	28.2	29.0	30.4	31.6	32.0	32.5	32.6	32.5	32.4	31.6
	20	32.0	32.0	32.2	32.4	32.8	33.2	35.4	35.7	35.4	35.5	35.4	34.8
	21	32.8	33.0	33.2	33.5	34.2	35.2	35.9	36.1	36.5	37.0	36.1	34.7
	22	30.0	29.0	30.0	30.8	32.2	33.0	35.4	37.2	35.4	35.2	34.6	34.2
	23	31.6	32.0	32.4	32.4	32.6	32.6	33.0	33.2	33.0	33.3	33.5	33.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	34.6	34.6	34.8	34.2	34.4	35.2	36.2	36.6	36.9	37.2	38.1	38.0
	27	37.8	37.0	36.0	37.0	37.8	38.4	36.8	36.5	36.7	37.6	37.2	35.8
	28	31.6	31.6	32.0	32.6	32.6	34.0	35.2	35.3	34.4	34.7	32.7	31.4
	29	25.0	24.6	24.4	23.2	23.2	24.6	24.8	25.5	25.5	25.8	25.8	26.0
	30	25.0	25.2	25.6	25.6	25.7	25.5	25.8	25.0	25.4	24.5	24.5	24.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	28.08	28.12	28.45	28.86	29.67	30.37	30.99	31.18	31.20	31.11	30.58	30.07	

<sup>a</sup> Christmas Day.

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
36.4	36.6	36.6	37.6	37.8	37.6	36.8	36.4	35.3	35.2	35.0	34.6	35.20
33.4	33.2	32.5	31.5	31.0	30.2	30.0	30.3	30.4	30.5	30.4	29.2	33.42
30.2	29.2	29.2	29.2	29.0	28.8	27.5	26.5	25.6	25.5	25.4	25.4	29.05
26.1	25.6	25.3	25.0	24.8	24.6	—	—	—	—	—	—	—
—	—	—	—	—	—	21.9	21.1	20.9	20.8	18.7	20.2	24.69
30.2	29.4	29.8	29.9	30.1	29.7	29.6	29.8	29.8	29.6	29.8	29.6	28.63
33.4	33.7	33.5	32.8	33.2	33.3	32.4	32.3	32.6	32.6	32.4	32.0	32.47
31.2	31.2	31.1	32.4	31.0	31.0	30.9	31.1	30.5	30.4	30.0	29.4	31.37
33.8	33.8	34.3	34.0	34.8	35.3	34.6	33.7	33.5	33.5	33.3	33.2	33.18
37.8	37.7	37.5	37.4	36.3	35.5	35.0	34.2	34.2	34.9	34.5	35.0	36.22
34.8	32.8	31.8	32.4	31.0	29.6	—	—	—	—	—	—	—
—	—	—	—	—	—	28.5	28.2	28.0	27.8	28.2	28.0	33.23
25.7	25.1	24.8	25.2	23.4	22.5	21.8	21.2	19.4	19.8	19.7	19.6	26.14
21.5	22.5	25.2	25.4	25.2	26.7	26.2	26.6	27.2	27.6	27.8	28.6	24.06
35.7	36.8	37.4	38.0	38.0	37.6	37.2	36.8	37.5	38.2	38.8	38.8	34.59
43.4	41.2	39.0	36.7	33.1	31.8	30.8	29.6	29.5	29.6	30.8	30.8	38.42
41.2	41.4	42.1	43.0	42.0	41.6	41.6	40.0	39.8	40.5	40.9	40.6	39.30
36.1	35.6	35.9	36.3	36.0	35.1	—	—	—	—	—	—	—
—	—	—	—	—	—	32.8	31.7	31.2	31.0	31.0	28.6	36.66
38.0	37.8	37.8	38.2	38.3	38.0	38.0	38.0	38.4	39.2	39.7	39.2	37.27
38.0	37.2	37.2	36.2	36.2	33.4	33.2	31.0	30.5	30.4	30.0	30.2	37.07
32.4	31.4	30.1	29.9	28.6	27.5	27.5	26.7	26.0	25.2	25.2	25.2	29.77
37.8	38.8	39.8	41.2	41.8	42.8	44.6	44.8	45.0	44.8	46.4	46.4	38.35
34.2	33.4	32.6	32.6	31.3	31.6	31.6	31.5	31.2	31.2	30.4	28.6	36.43
33.4	32.4	31.8	30.2	28.5	28.2	—	—	—	—	—	—	—
—	—	—	—	—	—	23.0	22.7	22.8	22.7	21.2	21.4	29.56
19.5	18.5	18.4	17.9	17.7	17.6	17.7	18.4	17.8	17.5	16.0	15.8	19.52
26.3	25.8	25.6	25.5	25.4	25.6	26.0	26.5	26.4	26.5	26.6	26.4	24.63
30.4	29.8	28.6	28.4	28.2	27.5	27.0	26.2	25.1	24.3	23.3	23.2	28.11
25.5	25.8	26.6	26.0	23.4	25.8	27.8	27.8	27.5	27.5	27.4	27.4	25.37
32.55	32.18	32.10	32.03	31.39	31.11	30.54	30.12	29.85	29.88	29.73	29.52	31.64
29.0	28.4	27.6	27.8	27.6	27.4	27.5	27.7	27.7	27.8	27.2	27.0	28.63
27.4	26.6	25.7	25.3	25.6	25.1	—	—	—	—	—	—	—
—	—	—	—	—	—	33.0	32.2	31.8	31.8	31.8	31.8	29.17
34.4	34.1	34.1	34.8	33.8	31.4	31.8	31.0	29.8	29.4	29.0	26.7	33.40
18.5	17.0	15.8	13.4	15.5	12.8	15.5	16.6	17.6	18.2	19.3	19.4	19.45
27.8	28.3	28.0	28.3	28.6	28.9	28.7	28.5	28.0	27.2	26.4	26.6	26.98
29.0	28.8	28.5	28.3	28.4	28.6	29.0	30.2	29.9	30.1	29.8	29.2	29.07
31.6	31.2	30.2	30.2	29.7	27.8	26.0	25.5	29.2	28.9	28.6	27.4	28.78
25.5	24.9	23.2	21.6	21.6	20.3	—	—	—	—	—	—	—
—	—	—	—	—	—	30.8	31.0	31.5	32.5	32.6	33.4	28.00
32.4	29.8	29.0	30.2	29.3	29.0	27.2	24.9	24.0	24.0	22.4	20.2	30.18
12.0	11.3	11.2	10.1	8.8	8.0	8.3	5.2	4.5	4.0	3.8	4.2	11.31
25.5	26.0	26.3	26.4	26.8	27.0	26.6	26.2	25.9	26.2	25.4	25.8	22.64
32.5	32.4	32.4	32.5	32.5	32.2	32.8	32.6	33.0	32.7	32.5	32.4	31.79
33.2	33.0	33.1	32.9	33.0	33.3	33.0	33.4	33.2	33.4	33.4	33.8	33.65
32.1	31.7	31.2	30.8	29.8	29.0	—	—	—	—	—	—	—
—	—	—	—	—	—	31.1	30.5	30.3	30.3	30.1	30.2	32.16
30.2	29.6	29.4	29.1	29.2	28.9	27.9	28.2	27.8	28.0	27.7	27.8	29.73
29.5	29.2	29.1	29.4	29.2	30.0	29.8	28.4	29.9	31.2	31.6	31.4	30.30
34.5	34.6	34.4	34.4	34.0	33.4	33.2	33.1	33.0	33.0	33.0	33.0	33.77
34.3	33.9	33.6	32.4	33.0	32.6	32.5	31.5	31.0	30.5	32.2	31.0	33.61
34.2	34.2	34.3	34.2	33.5	33.0	32.8	32.4	33.3	32.4	32.2	32.0	33.15
34.4	34.8	34.5	35.0	34.9	34.6	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	32.8	33.0	33.6	34.6	34.8	34.8	33.55
38.5	38.5	38.1	38.2	38.4	38.6	38.6	38.4	37.8	38.0	37.9	37.8	37.07
35.0	34.6	33.8	33.2	32.7	32.3	32.3	32.4	32.0	31.7	31.8	31.6	34.92
28.5	27.5	27.3	27.2	26.4	26.0	26.0	26.3	25.8	25.6	25.4	25.0	29.80
26.0	26.2	26.2	27.3	25.8	26.2	26.1	25.9	25.3	25.0	24.7	25.0	25.34
23.9	23.9	24.4	24.5	24.7	24.8	—	—	—	—	—	—	—
—	—	—	—	—	—	25.4	25.3	24.9	24.2	23.2	22.6	24.73
29.60	29.22	28.86	28.70	28.51	28.07	28.75	28.42	28.43	28.43	28.27	28.00	29.25



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	JANUARY.	1	—	—	—	—	—	—	—	—	—	—	—	—
		2	93	100	100	96	84	88	90	90	87	81	80	81
		3	77	80	93	85	82	83	83	89	72	70	80	83
		4	88	82	77	75	78	79	75	74	72	75	65	78
		5	96	91	92	100	90	89	85	85	86	90	91	91
		6	95	95	98	95	89	78	93	92	87	85	83	82
		7	85	93	94	93	91	89	86	88	83	79	83	97
		8	—	—	—	—	—	—	—	—	—	—	—	—
		9	83	80	91	84	83	81	84	82	79	86	86	86
		10	91	90	92	92	82	95	96	96	97	96	95	90
		11	97	88	93	93	91	96	87	91	79	85	85	86
		12	86	90	88	88	83	85	84	91	93	92	92	91
		13	90	91	89	87	90	89	91	93	99	89	85	77
		14	75	79	92	92	91	84	81	84	76	77	82	90
		15	—	—	—	—	—	—	—	—	—	—	—	—
		16	90	88	92	95	93	96	95	96	100	100	100	92
		17	90	91	93	94	100	100	100	99	98	97	97	98
		18	94	94	95	97	64	69	86	82	77	76	63	76
		19	72	72	66	67	71	68	70	69	71	72	72	85
		20	95	95	98	100	100	100	100	100	100	100	100	100
		21	100	100	100	96	100	85	83	81	79	52	57	59
		22	—	—	—	—	—	—	—	—	—	—	—	—
		23	92	94	91	91	86	86	89	84	86	88	80	82
		24	97	74	79	75	77	65	61	62	58	62	51	65
		25	89	84	69	77	72	70	60	51	55	51	51	54
		26	22	20	21	26	39	50	60	51	55	57	69	71
		27	92	87	87	87	86	87	90	81	80	78	78	77
		28	86	88	84	84	84	86	81	89	89	89	85	85
		29	—	—	—	—	—	—	—	—	—	—	—	—
		30	85	82	83	97	100	87	82	82	80	88	85	87
		31	99	98	100	100	100	100	100	100	100	100	100	100
		Hourly Means		87	86	87	87	85	84	84	84	82	81	81
Tension of the Vapour.	JANUARY.	1	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
		2	.117	.133	.139	.141	.138	.153	.156	.153	.146	.133	.126	.125
		3	.060	.059	.068	.066	.066	.072	.071	.079	.065	.063	.067	.066
		4	.063	.060	.057	.058	.068	.080	.080	.087	.084	.091	.077	.089
		5	.129	.122	.126	.156	.145	.164	.160	.161	.160	.165	.166	.164
		6	.166	.171	.174	.172	.164	.157	.191	.198	.194	.194	.191	.190
		7	.210	.221	.222	.233	.239	.239	.233	.233	.228	.206	.209	.228
		8	—	—	—	—	—	—	—	—	—	—	—	—
		9	.100	.095	.107	.112	.120	.122	.140	.136	.136	.141	.139	.132
		10	.165	.164	.169	.173	.162	.191	.194	.193	.196	.196	.193	.176
		11	.151	.133	.140	.151	.151	.164	.156	.165	.149	.158	.154	.156
		12	.145	.151	.147	.149	.146	.153	.153	.163	.169	.172	.172	.171
		13	.171	.171	.170	.167	.172	.170	.173	.174	.175	.138	.125	.107
		14	.106	.108	.121	.119	.119	.114	.114	.118	.110	.107	.111	.115
		15	—	—	—	—	—	—	—	—	—	—	—	—
		16	.146	.136	.134	.127	.124	.125	.125	.126	.134	.133	.131	.119
		17	.103	.105	.111	.125	.149	.154	.155	.155	.150	.148	.143	.142
		18	.145	.141	.157	.169	.137	.149	.201	.206	.204	.214	.177	.174
		19	.152	.160	.146	.155	.160	.163	.170	.181	.187	.188	.185	.222
		20	.214	.213	.226	.221	.228	.234	.249	.248	.246	.225	.243	.234
		21	.207	.197	.232	.231	.266	.279	.280	.270	.279	.222	.231	.213
		22	—	—	—	—	—	—	—	—	—	—	—	—
		23	.142	.160	.156	.155	.157	.165	.173	.167	.177	.178	.166	.165
		24	.183	.141	.144	.130	.126	.122	.124	.130	.118	.125	.108	.118
		25	.149	.139	.113	.123	.103	.092	.072	.057	.057	.052	.050	.047
		26	.010	.011	.011	.016	.025	.039	.071	.057	.057	.055	.071	.074
		27	.139	.122	.122	.121	.124	.133	.140	.136	.136	.129	.130	.127
		28	.119	.121	.113	.114	.119	.128	.135	.140	.140	.143	.130	.130
		29	—	—	—	—	—	—	—	—	—	—	—	—
		30	.105	.093	.097	.136	.155	.150	.158	.158	.160	.168	.151	.151
		31	.185	.189	.202	.205	.206	.207	.210	.212	.212	.216	.215	.212
		Hourly Means		.138	.135	.139	.143	.145	.151	.157	.158	.157	.152	.149

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
—	—	—	—	—	—	—	—	—	—	—	—	—
81	79	79	75	88	100	80	80	85	74	80	88	86
80	77	83	85	83	83	82	83	83	88	85	93	83
72	87	79	80	83	87	90	93	93	94	96	92	82
90	93	92	90	91	95	93	88	91	89	92	91	91
82	85	85	85	83	86	86	83	76	86	87	83	87
100	90	93	89	83	87	—	—	—	—	—	—	86
—	—	—	—	—	—	77	79	78	81	75	81	86
85	96	94	77	90	93	93	91	93	93	93	90	87
93	90	96	99	97	96	95	90	85	87	87	89	92
90	93	90	87	88	85	85	84	84	84	83	84	88
91	89	91	90	91	91	95	92	94	94	94	92	90
83	84	86	88	86	86	86	87	87	87	88	80	87
100	100	100	94	91	90	—	—	—	—	—	—	87
—	—	—	—	—	—	98	97	97	95	95	90	90
91	79	77	87	84	88	87	87	91	91	95	90	91
98	99	95	97	100	98	97	94	94	95	97	95	97
73	74	74	72	68	59	59	67	75	78	71	78	76
89	90	83	95	96	99	99	97	98	97	100	97	83
100	98	96	97	99	100	99	100	100	100	100	100	99
70	72	77	82	86	88	—	—	—	—	—	—	81
—	—	—	—	—	—	78	79	77	78	83	90	81
83	84	95	80	82	84	88	90	89	85	80	80	86
69	77	77	78	77	79	78	90	92	81	80	88	75
40	46	52	33	32	30	23	09	23	38	15	22	48
70	72	78	75	85	84	83	80	83	90	87	90	63
86	76	76	78	80	89	88	88	87	87	91	91	84
81	80	83	77	78	77	—	—	—	—	—	—	84
—	—	—	—	—	—	70	53	52	53	52	81	78
93	94	94	95	97	97	91	82	84	100	96	98	90
100	100	93	94	100	76	65	64	63	65	64	68	90
84	85	85	84	85	86	83	82	83	84	83	85	84
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·122	·117	·114	·103	·116	·127	·090	·088	·089	·072	·070	·074	·118
·061	·057	·064	·068	·070	·068	·065	·064	·066	·066	·064	·068	·066
·082	·077	·096	·095	·091	·097	·099	·104	·107	·113	·118	·120	·087
·166	·167	·164	·141	·147	·131	·124	·116	·119	·122	·141	·155	·146
·191	·195	·198	·198	·197	·202	·200	·202	·197	·206	·211	·207	·190
·230	·190	·192	·181	·169	·179	—	—	—	—	—	—	186
—	—	—	—	—	—	·104	·105	·103	·105	·093	·099	186
·130	·145	·144	·123	·150	·156	·165	·163	·163	·163	·165	·162	·138
·178	·171	·178	·181	·180	·180	·175	·165	·154	·156	·144	·138	·174
·159	·163	·159	·153	·153	·151	·149	·147	·147	·146	·144	·144	·152
·171	·169	·171	·172	·173	·175	·180	·173	·177	·175	·175	·175	·166
·111	·111	·113	·112	·106	·103	·103	·109	·110	·115	·117	·112	·135
·139	·139	·136	·131	·131	·134	—	—	—	—	—	—	127
—	—	—	—	—	—	·132	·138	·147	·147	·150	·150	127
·122	·098	·096	·119	·129	·125	·116	·108	·107	·108	·110	·103	·121
·143	·145	·142	·145	·148	·149	·153	·149	·149	·153	·159	·148	·143
·147	·153	·152	·161	·147	·137	·139	·132	·147	·151	·153	·159	·161
·226	·225	·218	·244	·228	·219	·217	·228	·234	·215	·237	·238	·200
·239	·218	·220	·225	·230	·232	·227	·225	·226	·232	·220	·220	·229
·225	·214	·215	·210	·212	·209	—	—	—	—	—	—	208
—	—	—	—	—	—	·132	·133	·131	·128	·132	·141	208
·166	·167	·187	·160	·161	·168	·181	·182	·183	·176	·166	·160	·168
·122	·133	·136	·135	·136	·143	·135	·154	·157	·140	·136	·149	·135
·035	·037	·040	·024	·022	·021	·015	·006	·014	·023	·009	·012	·055
·076	·087	·095	·096	·119	·119	·109	·100	·109	·131	·126	·137	·075
·140	·123	·123	·129	·137	·139	·129	·129	·128	·128	·129	·126	·130
·097	·087	·098	·093	·097	·097	—	—	—	—	—	—	103
—	—	—	—	—	—	·058	·052	·055	·050	·055	·097	103
·159	·164	·165	·154	·163	·169	·170	·162	·167	·187	·182	·184	·155
·195	·190	·178	·178	·168	·110	·083	·073	·070	·071	·069	·069	·159
·147	·140	·146	·144	·145	·144	·133	·131	·133	·134	·134	·136	·143

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.													
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5
Humidity of the Air. FEBRUARY.	1	62	59	57	58	57	59	55	57	56	65	56	67
	2	22	27	22	65	55	31	32	40	51	48	58	64
	3	86	86	81	88	82	81	83	79	75	75	75	67
	4	81	81	83	84	83	85	93	82	86	81	87	84
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	56	52	44	47	48	47	42	51	50	49	44	24
	7	54	49	50	48	44	47	46	49	48	49	48	32
	8	62	61	60	75	73	52	72	46	52	53	54	44
	9	60	61	60	47	54	54	57	53	55	50	51	45
	10	64	64	64	63	67	76	78	81	75	82	90	100
	11	82	86	54	57	58	56	61	45	46	42	45	34
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	56	58	54	62	58	55	59	58	50	55	49	36
	14	55	38	60	76	44	34	80	73	70	68	65	62
	15	44	43	72	43	44	44	45	43	48	49	55	48
	16	38	44	45	38	45	33	44	54	64	69	46	23
	17	—	—	04	33	32	30	35	29	36	29	36	40
	18	—	—	—	67	33	40	48	53	42	39	43	53
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	36	54	65	60	55	54	63	52	63	64	65	62
	21	67	71	75	80	84	85	76	75	71	78	76	69
	22	74	74	70	60	58	55	51	45	46	46	47	55
	23	31	12	39	42	42	21	67	42	46	39	41	33
	24	47	52	46	63	63	62	70	69	66	61	66	50
	25	65	67	70	73	75	77	77	73	79	74	83	80
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	68	70	68	68	65	65	78	69	74	70	79	74
	28	76	73	65	69	52	68	69	66	68	64	61	62
Hourly Means		58	58	57	61	57	55	62	58	59	58	59	55
Tension of the Vapour. FEBRUARY.	1	.062	.056	.055	.056	.055	.060	.058	.060	.060	.071	.061	.065
	2	.010	.013	.012	.041	.035	.024	.029	.036	.053	.051	.065	.067
	3	.110	.111	.105	.114	.111	.112	.114	.114	.109	.110	.110	.095
	4	.084	.090	.100	.110	.113	.128	.160	.146	.145	.139	.150	.135
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	.048	.042	.036	.039	.041	.042	.042	.049	.044	.044	.036	.019
	7	.036	.034	.035	.035	.034	.039	.040	.048	.048	.050	.050	.032
	8	.047	.048	.046	.058	.062	.050	.073	.047	.053	.056	.056	.045
	9	.038	.041	.044	.041	.051	.054	.063	.059	.063	.057	.057	.050
	10	.067	.069	.069	.075	.083	.094	.102	.106	.102	.116	.132	.146
	11	.152	.137	.072	.068	.068	.065	.072	.053	.055	.053	.054	.042
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	.046	.047	.072	.054	.068	.056	.067	.067	.055	.063	.054	.040
	14	.042	.028	.043	.055	.033	.026	.065	.058	.057	.054	.052	.049
	15	.027	.028	.047	.032	.035	.037	.043	.044	.050	.050	.055	.048
	16	.025	.029	.028	.026	.034	.029	.038	.049	.060	.063	.040	.020
	17	.000	.000	.000	.016	.021	.022	.028	.025	.031	.027	.029	.032
	18	.000	.000	.000	.033	.021	.028	.039	.046	.038	.034	.039	.046
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	.022	.029	.042	.049	.056	.059	.075	.070	.087	.084	.086	.079
	21	.056	.064	.077	.091	.113	.123	.111	.118	.111	.118	.116	.099
	22	.080	.081	.079	.071	.070	.066	.060	.051	.053	.053	.051	.054
	23	.019	.007	.026	.032	.036	.021	.065	.042	.045	.042	.044	.035
	24	.033	.036	.036	.053	.065	.069	.081	.096	.100	.092	.101	.076
	25	.087	.088	.091	.097	.106	.122	.132	.136	.154	.145	.153	.145
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	.080	.079	.077	.080	.080	.086	.107	.102	.106	.100	.114	.103
	28	.084	.081	.076	.081	.067	.097	.109	.106	.105	.093	.086	.080
Hourly Means		.052	.052	.053	.059	.061	.063	.074	.072	.074	.074	.075	.067

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
61	49	42	40	38	38	37	36	37	32	28	51	50
68	74	68	62	71	64	67	70	70	78	79	77	57
78	79	78	78	77	73	76	72	76	80	69	78	78
88	83	85	84	81	68	—	—	—	—	—	—	79
—	—	—	—	—	—	77	73	65	59	55	60	44
42	40	39	39	39	42	43	47	42	39	40	51	49
45	44	47	50	47	47	55	55	53	52	59	61	59
59	62	47	60	58	58	57	70	72	58	61	54	55
60	60	56	55	57	48	45	47	52	58	53	72	83
86	91	94	98	98	96	89	95	94	84	79	82	53
48	53	47	46	50	49	—	—	—	—	—	—	50
—	—	—	—	—	—	49	46	49	57	51	56	55
47	46	50	43	40	50	50	49	46	44	45	32	55
61	55	51	57	57	46	45	45	45	38	38	48	46
43	42	44	42	54	54	47	47	42	40	40	41	38
35	32	37	28	24	20	—	—	—	—	—	—	30
43	47	46	36	33	32	28	25	18	15	05	00	52
47	47	45	44	46	43	—	—	—	—	—	—	60
—	—	—	—	—	—	65	65	48	66	60	55	74
64	64	65	64	63	62	62	66	65	63	52	64	43
75	75	77	91	57	71	71	69	70	71	69	65	37
37	35	28	28	16	10	31	32	32	26	32	43	37
35	41	33	33	35	39	37	37	37	40	24	45	61
56	60	61	64	66	64	64	63	63	61	62	62	79
82	83	85	82	82	81	—	—	—	—	—	—	72
—	—	—	—	—	—	92	86	86	85	75	83	60
61	72	72	64	83	80	86	71	74	73	73	72	57
59	51	50	50	51	54	52	54	50	53	56	65	—
58	58	56	56	55	54	55	55	56	55	52	55	—
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·057	·042	·030	·027	·025	·025	·024	·020	·020	·018	·015	·025	·044
·066	·072	·074	·072	·080	·076	·080	·086	·086	·096	·098	·095	·059
·108	·110	·108	·108	·105	·100	·100	·087	·075	·080	·073	·082	·102
·129	·110	·119	·119	·114	·096	—	—	—	—	—	—	·109
—	—	—	—	—	—	·091	·085	·074	·066	·057	·056	·034
·028	·027	·025	·025	·025	·027	·027	·031	·027	·026	·026	·035	·041
·040	·036	·041	·044	·041	·040	·044	·043	·041	·041	·045	·046	·049
·055	·055	·057	·047	·044	·043	·039	·048	·043	·036	·038	·034	·050
·062	·057	·051	·045	·045	·036	·035	·038	·043	·040	·052	·075	·137
·143	·158	·165	·177	·180	·185	·192	·211	·209	·188	·162	·165	·060
·051	·052	·045	·043	·044	·044	—	—	—	—	—	—	·050
—	—	—	—	—	—	·041	·039	·042	·048	·045	·047	·040
·047	·045	·047	·051	·047	·044	·043	·041	·039	·037	·038	·025	·037
·046	·042	·036	·040	·037	·029	·028	·029	·028	·024	·024	·030	·023
·037	·034	·032	·030	·045	·036	·034	·034	·029	·027	·027	·028	·018
·027	·020	·024	·016	·012	·008	·000	·000	·000	·000	·000	·000	·035
·031	·031	·030	·022	·019	·018	·015	·013	·009	·007	·002	·000	·058
·033	·033	·034	·033	·034	·032	—	—	—	—	—	—	·090
—	—	—	—	—	—	·066	·065	·043	·056	·045	·034	·042
·078	·074	·061	·049	·049	·044	·047	·054	·054	·051	·043	·049	·030
·105	·106	·103	·108	·055	·059	·063	·066	·074	·080	·078	·072	·076
·032	·028	·021	·018	·010	·005	·016	·018	·019	·016	·019	·028	·125
·032	·028	·021	·021	·023	·026	·024	·023	·024	·026	·016	·032	·092
·080	·085	·078	·084	·091	·084	·081	·081	·081	·077	·079	·080	·072
·147	·148	·150	·143	·141	·138	—	—	—	—	—	—	—
—	—	—	—	—	—	·091	·128	·127	·120	·102	·101	—
·086	·100	·097	·083	·107	·100	·109	·084	·086	·083	·084	·081	—
·070	·061	·057	·055	·053	·054	·052	·053	·050	·051	·048	·055	—
·066	·065	·063	·061	·059	·056	·056	·057	·055	·054	·051	·053	·061

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	MARCH.	1	64	64	60	53	48	52	49	54	48	49	44	47	
		2	46	46	42	45	45	42	44	45	49	45	45	45	
		3	58	59	73	69	56	62	47	50	49	38	38	47	
		4	39	41	51	49	47	47	41	39	37	39	32	35	
		5	—	—	—	—	—	—	—	—	—	—	—	—	
		6	31	36	30	21	47	43	54	—	79	64	65	69	
		7	67	33	81	99	80	70	60	49	60	64	58	50	
		8	84	83	72	72	65	66	64	67	66	70	76	77	
		9	78	86	73	76	70	60	69	69	65	61	62	62	
		10	71	85	100	100	98	99	95	96	93	91	93	91	
		11	85	79	70	69	70	70	69	75	68	68	69	63	
		12	—	—	—	—	—	—	—	—	—	—	—	—	
		13	96	94	93	92	77	84	92	92	92	87	90	84	88
		14	79	77	76	75	75	74	74	62	62	57	63	58	68
		15	78	73	75	82	74	71	67	70	66	66	76	65	70
		16	88	89	82	82	77	74	80	71	69	78	78	78	79
		17	85	86	81	82	67	65	67	70	67	65	65	65	64
		18	82	81	78	79	78	73	69	72	69	74	73	73	65
		19	—	—	—	—	—	—	—	—	—	—	—	—	—
		20	91	83	87	87	79	74	72	63	63	64	75	73	
		21	76	79	79	63	68	65	64	58	62	59	64	65	
		22	92	93	73	81	75	72	63	70	85	69	66	63	
		23	76	76	78	82	84	79	68	83	90	90	82	88	
		24	83	82	73	69	64	68	65	60	56	60	57	60	
		25	87	46	67	74	73	69	75	85	80	85	87	82	
		26	—	—	—	—	—	—	—	—	—	—	—	—	
		27	65	66	69	80	80	92	87	87	86	84	87	89	
		28	94	94	83	89	93	95	94	96	87	80	80	78	
		29	77	75	71	63	71	69	63	61	59	66	55	57	
		30	62	66	67	68	96	57	62	98	62	63	68	69	
		31	86	88	88	96	90	91	94	90	93	94	95	89	
		Hourly Means		75	73	73	74	72	70	68	70	69	68	67	68
Tension of the Vapour.	MARCH.	1	In. .055	In. .056	In. .056	In. .055	In. .051	In. .055	In. .061	In. .055	In. .055	In. .048	In. .051		
		2	.030	.032	.030	.034	.040	.041	.045	.042	.054	.050	.045		
		3	.043	.045	.061	.063	.062	.073	.056	.058	.059	.047	.046	.054	
		4	.023	.022	.033	.045	.052	.056	.052	.052	.051	.053	.044	.045	
		5	—	—	—	—	—	—	—	—	—	—	—	—	
		6	.020	.023	.021	.017	.045	.046	.065	—	.110	.090	.092	.096	
		7	.031	.016	.051	.083	.076	.076	.071	.067	.087	.095	.091	.079	
		8	.100	.108	.100	.100	.096	.100	.099	.107	.106	.112	.119	.120	
		9	.085	.083	.084	.091	.092	.089	.112	.121	.109	.108	.106	.105	
		10	.121	.137	.162	.171	.170	.171	.166	.172	.168	.170	.174	.172	
		11	.151	.135	.116	.109	.113	.115	.118	.124	.117	.116	.117	.119	
		12	—	—	—	—	—	—	—	—	—	—	—	—	
		13	.164	.164	.165	.168	.156	.164	.185	.194	.181	.189	.170	.168	
		14	.071	.071	.074	.076	.080	.083	.091	.084	.085	.102	.104	.108	
		15	.108	.098	.095	.108	.115	.120	.116	.124	.107	.119	.098	.100	
		16	.066	.069	.080	.095	.098	.104	.122	.111	.106	.112	.111	.110	
		17	.100	.105	.106	.115	.104	.105	.117	.125	.119	.116	.112	.102	
		18	.093	.093	.097	.105	.107	.107	.106	.112	.107	.114	.108	.100	
		19	—	—	—	—	—	—	—	—	—	—	—	—	
		20	.084	.085	.107	.115	.113	.114	.115	.101	.101	.104	.110	.108	
		21	.080	.081	.097	.083	.093	.090	.092	.088	.095	.098	.102	.102	
		22	.073	.079	.085	.106	.110	.112	.103	.122	.132	.120	.127	.119	
		23	.056	.056	.059	.065	.072	.071	.065	.076	.085	.087	.074	.078	
		24	.064	.067	.067	.070	.073	.085	.083	.075	.082	.087	.085	.085	
		25	.078	.051	.077	.090	.096	.099	.110	.126	.134	.128	.123	.110	
		26	—	—	—	—	—	—	—	—	—	—	—	—	
		27	.097	.099	.102	.121	.121	.133	.128	.131	.131	.129	.134	.138	
		28	.169	.169	.162	.175	.194	.206	.211	.226	.194	.177	.161	.146	
		29	.086	.094	.103	.107	.114	.119	.122	.126	.122	.139	.115	.116	
		30	.067	.070	.076	.080	.111	.084	.094	.111	.104	.108	.108	.108	
		31	.126	.129	.132	.144	.139	.143	.147	.146	.148	.147	.146	.137	
		Hourly Means		.083	.083	.089	.096	.100	.102	.105	.111	.109	.110	.106	.104

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
44	47	39	53	52	53	48	47	43	42	42	43	49
48	47	44	37	36	23	23	60	44	46	47	53	44
47	53	52	50	53	53	48	47	44	49	47	44	51
31	37	37	30	36	38	—	—	—	—	—	—	38
—	—	—	—	—	—	32	35	37	37	32	31	63
71	75	67	93	85	86	79	77	78	56	72	—	73
73	82	87	91	91	86	91	81	82	83	74	69	78
81	81	80	85	79	82	83	85	86	88	87	82	74
75	81	82	81	86	86	81	77	77	72	71	73	92
95	94	94	96	97	95	95	94	91	81	85	88	78
64	69	71	74	80	82	—	—	—	—	—	—	84
—	—	—	—	—	—	91	93	95	95	95	96	73
95	86	75	74	71	74	79	77	80	74	78	92	79
65	68	72	72	80	79	76	75	75	85	90	87	84
74	72	78	94	82	93	77	96	90	85	91	86	84
83	84	90	91	92	90	92	91	91	91	88	88	74
62	61	69	72	72	78	82	78	81	82	90	80	81
67	85	82	87	88	89	—	—	—	—	—	—	72
—	—	—	—	—	—	92	93	86	89	91	91	67
66	63	67	72	66	66	71	72	67	69	69	76	73
64	70	64	65	64	63	64	73	70	68	69	82	82
47	57	65	72	73	70	73	67	67	84	95	74	71
88	81	81	88	86	83	83	79	78	85	86	80	78
73	87	71	73	81	72	69	69	71	73	86	91	88
76	76	73	75	75	93	—	—	—	—	—	—	80
—	—	—	—	—	—	94	91	93	86	71	65	67
91	90	95	95	95	95	98	96	95	95	96	93	75
69	69	77	75	72	74	67	67	65	72	74	74	91
65	60	63	64	70	69	69	83	66	66	68	68	70
70	69	65	64	70	71	94	92	94	92	96	87	95
95	96	93	96	95	82	95	91	94	90	94	79	70
70	72	72	75	75	75	76	77	76	75	77	73	73
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·046	·046	·039	·051	·047	·047	·040	·038	·034	·030	·030	·028	·047
·047	·044	·037	·029	·028	·013	·013	·036	·029	·033	·034	·038	·036
·052	·056	·054	·050	·052	·049	·040	·038	·036	·037	·033	·028	·050
·034	·039	·035	·028	·030	·030	—	—	—	—	—	—	·036
—	—	—	—	—	—	·023	·027	·026	·027	·023	·021	·058
·080	·078	·063	·081	·074	·067	·053	·043	·051	·028	·034	—	·068
·088	·078	·076	·073	·067	·064	·062	·052	·057	·060	·066	·071	·107
·126	·124	·121	·124	·113	·108	·104	·101	·098	·102	·095	·093	·101
·094	·082	·085	·082	·085	·097	·102	·118	·122	·117	·119	·124	·170
·180	·179	·179	·186	·184	·182	·182	·183	·178	·162	·165	·163	·123
·107	·102	·098	·093	·086	·076	—	—	—	—	—	—	·130
—	—	—	—	—	—	·153	·156	·157	·160	·160	·164	·100
·145	·117	·094	·091	·084	·079	·077	·070	·068	·071	·074	·070	·096
·096	·101	·105	·103	·116	·112	·121	·120	·123	·130	·131	·121	·101
·102	·100	·102	·098	·073	·079	·091	·102	·061	·060	·063	·060	·103
·112	·111	·115	·107	·103	·100	·101	·099	·099	·100	·099	·099	·101
·094	·090	·096	·102	·102	·103	·102	·094	·091	·089	·091	·089	·101
·092	·109	·107	·108	·107	·103	—	—	—	—	—	—	·093
—	—	—	—	—	—	·102	·096	·085	·086	·085	·085	·088
·094	·088	·089	·088	·083	·079	·083	·082	·069	·071	·071	·081	·090
·094	·097	·090	·090	·083	·082	·081	·091	·084	·075	·072	·072	·090
·074	·073	·078	·081	·079	·074	·073	·065	·063	·074	·078	·058	·072
·077	·072	·071	·078	·078	·077	·077	·071	·069	·071	·069	·063	·076
·089	·080	·079	·076	·078	·069	·065	·065	·069	·072	·080	·084	·099
·102	·096	·090	·087	·082	·094	—	—	—	—	—	—	·137
—	—	—	—	—	—	·102	·098	·100	·099	·098	·095	·145
·136	·135	·140	·140	·145	·149	·156	·158	·159	·165	·167	·164	·106
·120	·118	·128	·126	·122	·116	·100	·096	·091	·092	·091	·084	·106
·123	·109	·109	·109	·111	·105	·101	·106	·079	·076	·075	·074	·106
·106	·105	·100	·104	·104	·106	·134	·133	·134	·135	·137	·128	·132
·140	·146	·137	·136	·131	·109	·155	·117	·118	·109	·082	·098	·095
·098	·096	·093	·093	·091	·088	·092	·091	·087	·086	·086	·087	·095

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air. APRIL.	1	81	82	77	75	87	77	46	65	64	59	53	64
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	86	78	66	69	61	69	56	50	60	57	56	65
	4	86	76	74	73	65	55	71	78	81	80	80	82
	5	93	95	90	63	92	93	80	72	80	81	80	87
	6	86	86	79	78	54	66	63	60	80	85	67	68
	7	74	75	79	79	74	63	70	69	71	71	70	68
	8	70	70	65	67	60	60	58	44	34	39	43	47
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	75	72	81	70	70	53	39	39	42	—	44	38
	11	72	73	69	66	67	66	58	54	55	61	62	58
	12	82	75	50	64	58	58	69	72	60	54	60	55
	13	77	60	60	54	58	58	69	72	71	78	82	82
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	90	90	90	91	94	89	86	90	80	82	83	85
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	48	44	42	42	52	51	58	58	55	52	59	58
	18	50	84	87	95	96	95	96	95	95	88	86	96
	19	91	91	91	91	88	85	82	82	81	79	80	81
	20	88	87	87	84	82	80	83	78	74	78	76	65
	21	95	95	92	88	84	81	70	66	61	64	57	66
	22	68	65	64	62	60	61	75	61	62	69	84	68
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	85	80	78	74	74	71	69	67	63	64	66	67
	25	89	92	91	89	83	82	78	78	77	78	73	79
	26	92	85	96	94	89	84	83	78	78	76	77	81
	27	92	94	94	92	88	83	73	63	52	42	40	42
	28	54	52	51	59	62	62	49	45	45	41	44	46
	29	84	86	75	69	66	62	65	66	64	69	67	54
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	80	79	76	75	74	71	69	67	66	65	66	67
Tension of the Vapour. APRIL.	1	.097	.101	.107	.110	.137	.131	.084	.122	.122	.116	.111	.116
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	.082	.086	.095	.119	.121	.142	.124	.116	.131	.130	.135	.173
	4	.135	.135	.142	.147	.139	.123	.151	.157	.160	.159	.160	.162
	5	.148	.158	.170	.135	.214	.222	.192	.187	.190	.189	.194	.207
	6	.142	.155	.153	.153	.120	.155	.161	.159	.180	.188	.172	.172
	7	.109	.120	.147	.154	.152	.139	.169	.176	.179	.178	.171	.162
	8	.175	.184	.187	.192	.186	.186	.179	.146	.120	.130	.145	.145
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	.135	.127	.145	.137	.141	.123	.100	.105	.123	—	.119	.110
	11	.130	.142	.154	.162	.173	.181	.172	.157	.173	.206	.217	.216
	12	.135	.145	.118	.160	.178	.194	.233	.251	.228	.213	.240	.222
	13	.143	.149	.158	.152	.174	.168	.194	.198	.211	.210	.214	.220
	14 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	15	.231	.217	.225	.236	.285	.314	.344	.356	.353	.347	.334	.311
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	.118	.112	.113	.119	.154	.157	.171	.174	.155	.148	.158	.150
	18	.124	.178	.188	.188	.192	.191	.192	.189	.192	.190	.185	.194
	19	.193	.195	.197	.206	.208	.216	.228	.222	.213	.216	.210	.207
	20	.211	.215	.219	.221	.223	.252	.263	.263	.250	.287	.294	.269
	21	.179	.217	.258	.273	.284	.302	.297	.297	.288	.327	.288	.298
	22	.219	.237	.242	.251	.256	.265	.281	.238	.254	.269	.309	.276
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	.321	.296	.292	.280	.283	.278	.279	.296	.295	.296	.292	.281
	25	.263	.273	.280	.290	.287	.290	.273	.274	.296	.307	.313	.282
	26	.246	.236	.270	.300	.339	.343	.350	.390	.401	.412	.373	.398
	27	.245	.256	.259	.261	.262	.256	.256	.247	.220	.180	.184	.207
	28	.199	.193	.203	.263	.268	.286	.304	.303	.324	.295	.308	.313
	29	.195	.199	.177	.165	.167	.161	.173	.178	.182	.186	.183	.156
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	.174	.180	.187	.195	.206	.211	.215	.217	.218	.225	.221	.219

<sup>a</sup> Good Friday.

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
65	66	65	63	60	69	—	—	—	—	—	—	72
—	—	—	—	—	—	90	84	87	80	81	79	74
76	96	97	85	79	75	79	83	80	86	88	86	85
89	93	95	94	94	94	92	91	98	100	97	95	88
77	79	80	83	100	99	100	100	100	100	100	100	78
72	78	84	92	91	83	78	84	83	83	86	85	75
66	73	76	79	84	83	87	84	79	79	85	73	66
58	72	85	87	85	82	—	—	—	—	—	—	59
—	—	—	—	—	—	74	75	73	73	74	82	65
39	47	56	56	58	59	63	65	72	73	64	71	63
54	55	58	55	59	60	57	79	78	87	80	85	80
56	53	59	60	62	68	66	66	70	58	60	67	76
88	85	86	87	90	91	—	—	—	—	—	—	51
—	—	—	—	—	—	96	97	98	98	97	90	47
88	89	75	69	66	57	—	—	—	—	—	—	91
—	—	—	—	—	—	53	55	56	57	56	51	86
64	65	65	61	58	52	40	40	40	39	42	47	85
95	94	91	92	91	91	93	93	94	95	94	95	84
82	83	83	83	83	87	92	93	89	84	86	88	84
65	66	87	94	95	98	98	97	97	96	96	98	84
71	72	76	83	87	80	83	78	75	74	76	84	79
82	82	86	87	95	96	—	—	—	—	—	—	78
—	—	—	—	—	—	94	92	96	95	97	87	85
68	73	76	80	84	85	88	92	89	87	90	92	84
84	84	86	83	84	84	87	89	88	89	91	96	68
83	75	74	76	80	80	84	83	91	92	90	94	61
56	76	51	50	58	62	62	65	82	83	81	58	75
54	59	65	64	70	70	73	78	80	77	81	83	—
65	71	75	79	80	92	—	—	—	—	—	—	71
—	—	—	—	—	—	87	91	91	77	82	79	74
71	74	76	77	79	79	80	81	83	82	82	81	75
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.103	.101	.098	.095	.089	.093	—	.103	.089	.093	.084	.085	.103
—	—	—	—	—	—	.110	.110	.115	.122	.133	.127	.124
.160	.162	.147	.121	.113	.112	.176	.166	.170	.167	.143	.144	.158
.170	.174	.177	.176	.176	.179	.178	.182	.180	.175	.164	.146	.178
.166	.168	.168	.173	.190	.178	.143	.141	.137	.136	.133	.125	.153
.167	.162	.165	.167	.148	.143	.167	.174	.168	.162	.161	.185	.161
.151	.158	.160	.166	.167	.167	.181	—	—	—	—	—	.162
.163	.179	.193	.191	.186	.181	.143	.139	.132	.133	.134	.143	.125
—	—	—	—	—	—	.121	.120	.186	.123	.121	.126	.158
.111	.112	.124	.122	.119	.122	.131	.144	.132	.145	.126	.132	.165
.189	.162	.148	.133	.136	.135	.132	.132	.144	.124	.124	.123	.208
.177	.144	.140	.136	.134	.139	—	—	—	—	—	—	.241
.219	.211	.207	.196	.193	.186	.283	.273	.298	.257	.249	.223	.241
—	—	—	—	—	—	.131	.131	.129	.131	.129	.119	.138
.316	.305	.263	.220	.198	.169	.107	.109	.106	.103	.114	.120	.189
—	—	—	—	—	—	.194	.195	.194	.196	.194	.198	.207
.167	.160	.165	.150	.146	.130	.209	.209	.201	.206	.201	.206	.225
.196	.194	.194	.197	.194	.194	.198	.198	.196	.196	.178	.171	.259
.202	.204	.204	.206	.207	.209	.238	.254	.230	.225	.223	.233	.286
.261	.193	.225	.220	.204	.204	—	—	—	—	—	—	.275
.274	.257	.244	.248	.250	.238	.358	.350	.372	.374	.372	.335	.272
.240	.232	.262	.263	.300	.299	.252	.263	.252	.251	.258	.259	.316
—	—	—	—	—	—	.261	.262	.263	.255	.252	.265	.221
.272	.273	.254	.261	.265	.252	.285	.275	.272	.253	.234	.237	.260
.256	.251	.259	.256	.251	.261	.200	.202	.206	.213	.206	.201	.179
.435	.358	.319	.304	.295	.285	.245	.240	.234	.225	.209	.214	—
.235	.240	.186	.194	.198	.200	.172	—	—	—	—	—	—
.321	.284	.282	.263	.261	.245	—	—	—	—	—	—	—
.166	.166	.168	.169	.164	.172	.203	.213	.217	.184	.178	.167	—
—	—	—	—	—	—	—	—	—	—	—	—	—
.213	.202	.198	.193	.191	.187	.191	.188	.191	.183	.182	.177	.199



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	MAY.	1	80	80	88	66	63	67	60	47	58	57	61	60	
		2	81	74	67	75	71	69	65	59	58	56	52	52	
		3	87	47	69	63	58	63	68	66	60	44	37	57	
		4	81	84	84	73	73	71	70	70	70	64	61	58	62
		5	78	66	57	60	60	64	60	54	54	54	53	53	55
		6	66	62	70	76	85	78	73	71	69	69	70	66	70
		7	—	—	—	—	—	—	—	—	—	—	—	—	—
		8	73	66	64	64	61	57	58	53	53	53	53	63	66
		9	91	82	78	81	78	78	74	70	68	66	66	67	65
		10	72	72	69	69	69	70	70	66	66	66	61	58	62
		11	80	76	72	66	66	64	65	65	62	59	56	56	46
		12	68	61	54	66	68	65	61	55	52	50	47	47	49
		13	90	88	88	84	80	77	72	69	66	80	63	63	63
		14	—	—	—	—	—	—	—	—	—	—	—	—	—
		15	93	89	87	79	76	72	76	66	62	58	44	37	37
		16	67	56	55	49	44	38	38	38	35	32	31	31	31
		17	72	67	63	55	52	63	44	58	55	52	54	47	47
		18	78	69	66	62	61	56	59	57	52	45	42	36	36
		19	67	57	48	42	43	38	38	40	42	40	41	42	42
		20	75	67	69	60	55	58	53	45	43	42	39	40	40
		21	—	—	—	—	—	—	—	—	—	—	—	—	—
		22	85	86	86	77	76	77	86	85	87	84	90	91	91
		23	96	89	90	89	86	78	90	90	76	56	55	59	59
		24	66	65	64	64	61	57	67	43	39	37	31	39	39
		25	83	74	67	64	66	66	63	61	64	61	62	62	62
		26	85	85	92	87	88	83	79	79	87	94	94	95	95
		27	75	79	75	72	67	66	65	66	66	66	66	66	66
		28	—	—	—	—	—	—	—	—	—	—	—	—	—
		29	66	63	64	64	66	67	66	67	71	64	51	47	47
		30	74	68	71	72	71	68	72	79	87	90	91	90	90
		31	80	74	70	64	65	62	58	56	59	57	52	53	53
Hourly Means		78	72	71	68	67	66	65	62	61	59	56	57		
Tension of the Vapour.	MAY.	1	In. .176	In. .186	In. .206	In. .167	In. .162	In. .162	In. .164	In. .138	In. .152	In. .154	In. .155	In. .151	
		2	.165	.163	.163	.194	.194	.201	.207	.205	.193	.190	.204	.224	
		3	.163	.114	.184	.198	.196	.229	.237	.260	.221	.195	.149	.206	
		4	.204	.211	.240	.211	.204	.199	.200	.202	.197	.186	.173	.165	
		5	.184	.162	.146	.155	.170	.156	.139	.125	.132	.138	.148	.142	
		6	.174	.174	.212	.230	.259	.275	.285	.292	.299	.297	.293	.307	
		7	—	—	—	—	—	—	—	—	—	—	—	—	
		8	.223	.217	.222	.224	.235	.227	.238	.231	.224	.224	.255	.262	
		9	.202	.223	.251	.265	.279	.289	.295	.282	.304	.323	.310	.299	
		10	.266	.273	.279	.279	.276	.281	.287	.284	.302	.278	.266	.269	
		11	.280	.289	.278	.277	.296	.302	.316	.334	.328	.315	.322	.288	
		12	.243	.265	.277	.296	.305	.320	.332	.341	.345	.353	.331	.308	
		13	.316	.294	.370	.392	.413	.440	.456	.462	.491	.479	.450	.464	
		14	—	—	—	—	—	—	—	—	—	—	—	—	
		15	.436	.464	.471	.478	.483	.491	.432	.506	.380	.422	.426	.353	
		16	.261	.235	.239	.230	.221	.209	.209	.222	.215	.206	.201	.200	
		17	.168	.173	.175	.173	.190	.216	.179	.260	.246	.224	.254	.251	
		18	.177	.190	.222	.203	.206	.204	.237	.237	.241	.228	.215	.225	
		19	.193	.184	.190	.186	.212	.164	.198	.210	.232	.204	.230	.215	
		20	.194	.224	.277	.249	.246	.259	.255	.248	.257	.265	.260	.267	
		21	—	—	—	—	—	—	—	—	—	—	—	—	
		22	.299	.339	.354	.324	.338	.363	.382	.389	.391	.377	.379	.386	
		23	.341	.359	.379	.374	.408	.404	.381	.377	.372	.300	.274	.246	
		24	.186	.206	.232	.255	.265	.267	.327	.251	.249	.257	.226	.271	
		25	.242	.247	.246	.253	.266	.281	.293	.285	.322	.329	.336	.318	
		26	.297	.306	.323	.332	.327	.344	.382	.391	.402	.400	.384	.386	
		27	.307	.313	.301	.312	.306	.295	.293	.296	.289	.287	.280	.282	
		28	—	—	—	—	—	—	—	—	—	—	—	—	
		29	.230	.238	.248	.270	.298	.315	.297	.327	.331	.344	.317	.311	
		30	.234	.241	.282	.287	.270	.269	.234	.256	.244	.240	.225	.232	
		31	.194	.184	.181	.168	.175	.165	.164	.158	.175	.171	.144	.150	
Hourly Means		.235	.240	.257	.259	.267	.271	.275	.280	.279	.274	.270	.266		

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
62	66	72	70	71	74	70	67	68	74	81	85	69
58	64	63	68	72	76	93	95	95	93	96	97	73
62	69	70	72	77	83	80	82	87	85	86	90	69
60	48	50	52	57	57	56	61	60	63	60	55	64
57	55	56	55	82	55	65	71	74	65	60	67	62
70	56	82	88	90	91	—	—	—	—	—	—	74
—	—	—	—	—	—	61	64	65	65	69	76	71
66	69	78	80	86	80	82	79	85	80	92	95	74
63	71	80	78	69	70	74	78	70	71	72	72	77
63	76	85	90	94	93	94	95	90	92	84	84	70
48	57	74	75	77	83	87	84	89	83	76	76	65
64	59	62	74	73	69	73	76	76	81	81	85	80
64	78	84	81	89	87	—	—	—	—	—	—	65
—	—	—	—	—	—	82	84	87	90	90	94	66
38	49	57	60	56	56	60	63	74	75	73	68	52
36	44	49	55	57	62	65	67	70	71	71	78	66
39	39	53	58	60	61	59	67	89	89	97	85	66
40	47	59	68	68	68	68	69	72	82	86	69	57
38	43	67	73	70	76	74	70	71	79	81	81	64
45	57	70	70	76	76	—	—	—	—	—	—	89
—	—	—	—	—	—	71	78	96	82	80	91	75
91	92	92	94	94	92	95	97	96	97	96	96	59
59	61	70	82	81	75	76	76	66	64	63	63	39
39	45	45	59	60	63	67	75	75	76	82	87	67
67	74	80	75	75	77	77	78	82	76	81	85	97
97	96	97	97	97	98	97	96	97	94	94	87	67
67	68	62	68	74	84	—	—	—	—	—	—	88
—	—	—	—	—	—	58	57	62	62	62	65	53
57	60	59	49	55	61	66	70	84	79	77	86	62
88	89	94	95	73	77	79	80	83	85	84	85	69
53	58	60	57	64	67	70	70	68	67	67	65	59
—	—	—	—	—	—	—	—	—	—	—	—	62
59	62	69	72	74	74	74	76	79	79	79	80	69
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.156	.157	.163	.154	.151	.155	.150	.146	.152	.151	.155	.156	.159
.216	.191	.175	.179	.168	.165	.160	.165	.160	.158	.157	.164	.182
.205	.193	.188	.192	.199	.201	.194	.198	.204	.198	.201	.210	.197
.149	.117	.119	.122	.131	.130	.130	.136	.134	.136	.133	.126	.165
.145	.140	.145	.146	.191	.146	.163	.170	.172	.147	.148	.173	.153
.302	.240	.290	.236	.239	.233	—	—	—	—	—	—	.247
—	—	—	—	—	—	.216	.211	.210	.209	.212	.229	.222
.258	.245	.243	.228	.233	.200	.201	.191	.193	.178	.187	.179	.263
.250	.265	.269	.250	.236	.237	.236	.240	.249	.245	.258	.261	.280
.227	.256	.279	.290	.301	.301	.303	.302	.291	.289	.270	.273	.279
.285	.274	.278	.256	.249	.249	.253	.246	.250	.248	.231	.246	.292
.298	.261	.264	.296	.265	.260	.268	.273	.266	.272	.285	.292	.411
.457	.448	.409	.398	.384	.372	—	—	—	—	—	—	.366
—	—	—	—	—	—	.427	.445	.357	.356	.365	.415	.198
.346	.334	.323	.297	.274	.256	.266	.273	.266	.273	.265	.257	.185
.214	.198	.176	.172	.166	.168	.171	.169	.171	.165	.160	.163	.206
.182	.146	.161	.157	.154	.149	.147	.160	.186	.163	.169	.154	.193
.238	.193	.190	.185	.179	.185	.186	.190	.194	.208	.217	.187	.247
.179	.161	.203	.303	.179	.182	.175	.165	.164	.161	.164	.166	.346
.241	.250	.239	.217	.215	.195	—	—	—	—	—	—	.279
—	—	—	—	—	—	.234	.233	.326	.255	.242	.285	.235
.346	.332	.332	.338	.344	.336	.340	.332	.326	.326	.311	.316	.289
.237	.247	.241	.239	.226	.212	.207	.198	.177	.173	.168	.167	.366
.249	.227	.193	.216	.209	.212	.217	.234	.219	.220	.219	.223	.267
.306	.303	.305	.281	.269	.274	.289	.307	.300	.291	.291	.294	.263
.372	.379	.373	.388	.394	.409	.370	.349	.367	.375	.347	.375	.224
.289	.286	.253	.260	.257	.244	—	—	—	—	—	—	.158
—	—	—	—	—	—	.216	.206	.213	.209	.206	.217	.247
.314	.290	.233	.201	.209	.213	.218	.219	.236	.218	.211	.213	.224
.227	.230	.230	.224	.180	.184	.183	.179	.178	.182	.180	.180	.146
.146	.155	.145	.137	.140	.142	.146	.148	.149	.149	.151	.147	.253
—	—	—	—	—	—	—	—	—	—	—	—	.241
.253	.241	.239	.236	.227	.223	.225	.225	.226	.221	.219	.225	.239

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	JUNE.	1	71	61	64	49	50	50	48	45	45	43	62	65	
		2	100	90	86	83	82	78	70	70	72	62	64	71	
		3	95	95	88	84	76	75	74	75	75	77	75	74	
		4	—	—	—	—	—	—	—	—	—	—	—	—	—
		5	96	96	96	95	92	96	93	89	91	93	93	93	62
		6	89	78	77	77	68	75	75	69	70	81	81	89	88
		7	88	83	73	81	76	66	65	64	61	63	63	64	71
		8	67	66	70	71	84	88	86	89	86	87	87	89	88
		9	100	100	97	94	90	92	89	86	86	92	87	87	80
		10	77	80	85	84	85	84	82	85	85	88	88	69	78
		11	—	—	—	—	—	—	—	—	—	—	—	—	—
		12	92	87	87	83	81	78	79	76	76	68	64	61	71
		13	92	87	86	84	84	82	78	77	77	76	72	79	88
		14	86	81	77	73	64	62	55	46	42	39	38	38	38
		15	80	77	68	80	86	78	74	73	70	70	67	67	70
		16	85	81	80	78	78	79	81	78	75	75	75	75	73
		17	83	81	76	67	63	77	72	75	73	75	62	62	62
		18	—	—	—	—	—	—	—	—	—	—	—	—	—
		19	83	79	77	77	78	75	70	67	69	63	65	65	60
		20	93	87	83	71	79	77	77	75	69	70	67	67	63
		21	90	89	85	81	81	78	77	77	72	73	72	72	67
		22	96	85	85	84	79	77	77	71	70	62	58	64	64
		23	88	87	88	87	87	87	83	85	84	75	75	64	64
		24	95	96	98	96	98	95	94	82	80	82	46	48	48
		25	—	—	—	—	—	—	—	—	—	—	—	—	—
		26	91	90	91	95	87	87	84	83	78	76	70	65	65
		27	95	89	89	87	85	84	82	75	72	65	61	60	60
		28	93	95	93	94	91	89	89	81	79	78	74	74	74
		29	98	97	94	91	90	87	88	85	86	76	65	79	79
		30	67	93	90	87	84	81	75	74	70	68	71	71	71
		Hourly Means		89	86	84	82	81	80	78	75	73	72	69	70
Tension of the Vapour.	JUNE.	1	In. .168	In. .153	In. .167	In. .130	In. .149	In. .147	In. .148	In. .146	In. .153	In. .152	In. .204	In. .200	
		2	.194	.223	.235	.242	.251	.257	.252	.233	.238	.204	.205	.211	
		3	.295	.333	.329	.324	.291	.299	.292	.281	.281	.288	.282	.283	
		4	—	—	—	—	—	—	—	—	—	—	—	—	—
		5	.307	.309	.313	.316	.314	.336	.356	.330	.332	.338	.330	.330	.324
		6	.268	.257	.265	.293	.283	.321	.332	.263	.287	.299	.299	.330	.338
		7	.225	.254	.255	.319	.314	.291	.321	.320	.311	.316	.289	.319	.319
		8	.241	.258	.280	.283	.304	.305	.313	.339	.344	.355	.386	.412	.412
		9	.519	.530	.537	.617	.619	.651	.681	.726	.638	.646	.697	.627	.627
		10	.253	.270	.292	.286	.300	.308	.321	.318	.318	333	.277	.305	.305
		11	—	—	—	—	—	—	—	—	—	—	—	—	—
		12	.316	.335	.335	.364	.395	.440	.479	.509	.498	.505	.492	.497	.497
		13	.331	.352	.369	.401	.409	.419	.422	.447	.456	.489	.459	.443	.443
		14	.355	.371	.376	.380	.355	.366	.336	.296	.273	.265	.262	.263	.263
		15	.242	.247	.246	.303	.315	.315	.313	.337	.368	.346	.336	.344	.344
		16	.308	.315	.329	.353	.392	.298	.409	.402	.413	.417	.457	.464	.464
		17	.315	.336	.352	.335	.343	.412	.413	.448	.428	.430	.418	.425	.425
		18	—	—	—	—	—	—	—	—	—	—	—	—	—
		19	.301	.324	.338	.365	.411	.430	.436	.431	.477	.414	.396	.451	.451
		20	.390	.428	.438	.469	.503	.542	.589	.609	.426	.580	.567	.536	.536
		21	.495	.530	.515	.528	.596	.626	.653	.687	.705	.727	.686	.612	.612
		22	.479	.509	.554	.551	.597	.612	.612	.660	.665	.643	.603	.596	.596
		23	.511	.520	.556	.551	.577	.610	.660	.573	.598	.714	.696	.579	.579
		24	.522	.545	.578	.579	.558	.572	.596	.608	.627	.711	.459	.479	.479
		25	—	—	—	—	—	—	—	—	—	—	—	—	—
		26	.373	.482	.497	.579	.572	.538	.627	.611	.670	.706	.703	.649	.649
		27	.548	.569	.589	.620	.669	.735	.753	.759	.688	.644	.638	.599	.599
		28	.562	.619	.642	.650	.703	.686	.661	.748	.723	.726	.687	.644	.644
		29	.567	.605	.641	.649	.689	.716	.734	.697	.693	.643	.643	.633	.633
		30	.511	.583	.585	.598	.625	.647	.648	.701	.691	.710	.673	.703	.703
		Hourly Means		.369	.395	.408	.426	.444	.461	.473	.480	.473	.485	.468	.459

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
75	76	62	75	89	90	93	90	91	94	89	93	70
82	85	86	93	94	94	94	96	96	96	97	96	85
75	80	89	89	90	88	—	—	—	—	—	—	85
—	—	—	—	—	—	97	95	93	92	96	95	92
90	90	88	94	93	90	86	89	89	90	91	89	85
86	86	86	91	94	94	91	90	96	97	96	92	73
74	75	69	76	81	71	73	66	70	71	79	83	89
90	97	97	97	97	96	98	97	98	97	97	100	87
89	88	88	85	84	77	78	78	84	81	78	84	87
92	92	95	96	95	95	—	—	—	—	—	—	87
—	—	—	—	—	—	80	91	91	90	91	95	83
76	79	80	86	91	89	88	91	93	92	92	96	84
63	69	85	87	92	89	92	92	93	88	88	94	60
37	40	52	52	57	60	62	61	72	76	83	92	77
75	73	78	85	79	84	82	70	73	77	84	88	78
76	80	79	72	71	67	74	78	80	81	82	86	74
58	57	83	70	66	61	—	—	—	—	—	—	79
—	—	—	—	—	—	78	84	85	88	91	87	80
64	71	79	87	88	86	90	93	94	92	95	95	80
66	72	73	75	80	88	94	94	93	92	95	97	80
61	62	71	75	80	88	70	91	92	94	94	96	78
59	62	65	68	77	83	88	90	92	95	93	95	83
63	66	74	82	85	88	92	93	90	90	88	93	83
45	52	71	81	84	88	—	—	—	—	—	—	83
—	—	—	—	—	—	91	93	92	97	96	94	83
55	66	71	84	86	87	88	89	88	94	95	97	82
67	76	80	85	86	71	94	93	91	94	95	95	89
81	86	85	91	94	94	95	96	96	95	95	96	88
75	77	87	98	92	91	95	90	93	95	96	97	86
75	86	86	92	92	91	94	96	95	97	98	97	81
71	75	79	83	85	85	87	88	89	90	91	94	81
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.262	.231	.180	.181	.172	.169	.159	.153	.148	.149	.143	.159	.168
.226	.227	.229	.238	.239	.241	.244	.248	.254	.260	.267	.271	.237
.283	.292	.307	.308	.308	.284	—	—	—	—	—	—	.304
—	—	—	—	—	—	.352	.335	.321	.311	.314	.307	.299
.306	.297	.285	.295	.280	.265	.253	.258	.252	.256	.259	.258	.275
.322	.296	.281	.283	.266	.263	.249	.243	.235	.217	.201	.212	.277
.321	.311	.263	.282	.290	.256	.254	.222	.222	.219	.230	.249	.277
.412	.412	.390	.379	.352	.355	.406	.459	.468	.442	.415	.492	.366
.646	.599	.519	.425	.409	.341	.339	.334	.302	.282	.254	.268	.509
.347	.335	.333	.329	.319	.309	—	—	—	—	—	—	.305
—	—	—	—	—	—	.307	.305	.298	.298	.283	.277	.383
.408	.358	.332	.339	.331	.317	.320	.334	.331	.324	.316	.320	.406
.451	.436	.434	.431	.418	.402	.386	.378	.364	.351	.341	.356	.277
.266	.251	.268	.255	.223	.211	.205	.199	.214	.225	.216	.226	.303
.328	.305	.298	.307	.286	.308	.306	.259	.271	.282	.302	.311	.355
.449	.404	.367	.320	.309	.266	.283	.290	.289	.287	.287	.303	.341
.404	.363	.371	.296	.264	.242	—	—	—	—	—	—	.381
—	—	—	—	—	—	.259	.275	.268	.266	.265	.256	.491
.431	.414	.407	.392	.379	.354	.349	.339	.336	.321	.322	.331	.553
.495	.499	.465	.477	.496	.477	.479	.462	.462	.463	.466	.458	.544
.587	.530	.503	.520	.513	.521	.508	.477	.455	.451	.421	.426	.547
.561	.521	.502	.507	.481	.482	.480	.494	.484	.481	.478	.505	.489
.572	.524	.511	.489	.490	.485	.472	.465	.491	.487	.499	.502	.545
.470	.469	.457	.433	.420	.409	—	—	—	—	—	—	.611
—	—	—	—	—	—	.372	.373	.361	.362	.388	.396	.603
.574	.562	.515	.490	.509	.508	.502	.495	.502	.474	.472	.475	.588
.554	.615	.615	.596	.587	.434	.600	.598	.579	.576	.566	.548	.623
.552	.577	.547	.540	.545	.544	.539	.531	.518	.500	.506	.516	.415
.646	.637	.598	.607	.564	.514	.492	.437	.449	.424	.411	.427	
.747	.684	.658	.643	.597	.563	.569	.579	.560	.566	.563	.559	
.447	.429	.409	.398	.386	.365	.372	.367	.363	.357	.353	.362	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	JULY.	1	94	92	91	88	87	87	86	83	72	77	71	68
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	81	73	82	77	72	69	68	67	70	69	67	65
		4	87	86	79	76	77	66	69	63	67	63	75	63
		5	87	80	72	64	74	76	78	73	65	57	54	48
		6	68	65	53	59	72	68	56	52	48	49	49	47
		7	89	92	92	87	89	69	61	57	51	51	46	44
		8	75	72	64	56	50	44	41	37	31	32	34	41
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	92	86	80	77	79	79	75	68	43	56	56	54
		11	94	89	64	65	62	60	60	56	58	64	60	62
		12	93	83	80	75	67	60	55	53	49	49	47	44
		13	79	69	70	72	67	65	67	65	65	59	59	62
		14	93	86	79	76	73	73	65	60	61	60	70	74
		15	96	97	98	98	97	94	91	87	85	88	89	83
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	96	98	97	97	99	99	91	86	86	89	91	91
		18	100	94	94	91	91	86	81	76	57	50	50	46
		19	88	84	84	61	62	59	53	50	40	39	38	38
		20	84	73	63	55	52	58	66	70	65	59	55	58
		21	73	72	68	73	64	62	55	50	51	53	54	56
		22	83	71	73	71	67	68	64	60	57	54	59	60
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	98	98	94	89	80	76	73	68	66	61	60	58
		25	81	83	84	79	76	74	67	63	63	61	58	57
		26	91	90	84	85	87	77	75	80	69	74	75	83
		27	91	89	86	76	76	75	76	76	76	76	76	71
		28	95	97	88	87	86	85	79	65	67	66	77	89
		29	80	81	82	77	74	72	73	69	69	67	66	64
		30	—	—	—	—	—	—	—	—	—	—	—	—
		31	87	75	68	59	61	67	75	74	73	72	72	65
		Hourly Means		88	84	80	76	75	72	69	66	62	61	62
Tension of the Vapour.	JULY.	1	In. .612	In. .673	In. .703	In. .741	In. .756	In. .796	In. .867	In. .893	In. .872	In. .864	In. .856	In. .785
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	.294	.300	.362	.351	.334	.350	.372	.407	.385	.425	.450	.453
		4	.337	.382	.401	.457	.466	.414	.458	.438	.457	.441	.468	.455
		5	.407	.397	.375	.354	.407	.427	.476	.468	.412	.390	.405	.393
		6	.298	.328	.311	.388	.458	.437	.376	.374	.395	.436	.444	.460
		7	.396	.421	.448	.450	.578	.490	.422	.421	.399	.426	.402	.413
		8	.386	.435	.455	.440	.438	.409	.383	.358	.327	.336	.357	.412
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	.476	.503	.498	.505	.558	.566	.548	.575	.371	.440	.440	.362
		11	.460	.482	.287	.311	.331	.331	.346	.337	.374	.407	.412	.402
		12	.408	.350	.369	.383	.399	.389	.388	.407	.400	.387	.389	.397
		13	.290	.331	.360	.411	.428	.441	.477	.488	.508	.504	.481	.502
		14	.424	.459	.469	.509	.564	.605	.612	.621	.667	.602	.606	.615
		15	.535	.547	.568	.587	.602	.616	671	.715	.655	.643	.636	.657
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	.542	.556	.574	.551	.591	.690	.727	.731	.807	.799	.682	.675
		18	.629	.665	.707	.676	.694	.708	.732	.773	.636	.552	.558	.509
		19	.477	.461	.443	.323	.350	.352	.321	.324	.270	.264	.273	.269
		20	.289	.294	.295	.276	.277	.325	.376	.402	.398	.391	.402	.479
		21	.242	.315	.345	.377	.373	.397	.402	.378	.412	.439	.468	.467
		22	.384	.391	.427	.443	.454	.502	.536	.566	.570	.532	.586	.553
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	.578	.602	.648	.625	.580	.593	.578	.578	.582	.544	.546	.526
		25	.400	.448	.473	.486	.493	.517	.496	.494	.525	.533	.529	.482
		26	.436	.516	.473	.611	.667	.680	.706	.708	.770	.718	.692	.654
		27	.519	.538	.548	.524	.540	.550	.545	.583	.573	.573	.575	.591
		28	.490	.528	.536	.570	.621	.685	.734	.648	.672	.565	.640	.718
		29	.461	.451	.454	.442	.439	.420	.433	.406	.402	.406	.407	.416
		30	—	—	—	—	—	—	—	—	—	—	—	—
		31	.280	.349	.367	.346	.393	.429	.480	.472	.486	.503	.522	.500
		Hourly Means		.425	.451	.458	.467	.492	.505	.518	.522	.513	.505	.509

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
67	72	76	82	87	87	—	—	—	—	—	—	83
36	29	59	67	78	83	80	81	88	90	89	88	72
77	71	79	77	81	85	74	84	90	91	90	85	78
59	68	77	76	69	62	87	86	90	90	90	90	68
56	66	73	79	84	84	59	62	65	64	71	70	68
43	47	55	59	63	69	82	76	83	79	78	96	69
40	48	53	63	70	79	77	82	82	88	92	79	62
—	—	—	—	—	—	—	—	—	—	—	—	62
57	61	59	67	66	70	92	92	92	88	94	93	72
62	76	84	86	78	85	78	81	82	85	86	86	76
48	56	77	78	81	83	89	89	88	94	94	94	69
66	71	78	83	82	86	77	77	78	79	78	81	76
73	73	76	80	87	88	92	92	93	94	94	92	70
81	89	91	92	93	96	86	91	91	91	89	90	92
—	—	—	—	—	—	—	—	—	—	—	—	92
96	94	94	93	97	98	89	92	91	91	94	94	95
49	59	72	64	65	75	97	97	97	98	99	98	75
44	50	55	58	60	64	75	75	79	82	84	89	62
55	58	73	77	80	88	69	74	77	78	78	88	72
60	58	68	81	88	85	90	89	88	90	86	92	69
57	59	71	83	84	92	86	71	73	79	87	88	74
—	—	—	—	—	—	—	—	—	—	—	—	74
60	65	64	68	69	73	80	85	81	96	96	97	74
60	62	62	74	82	86	75	75	76	76	79	78	75
87	95	93	97	97	97	82	82	88	90	88	86	88
72	76	89	87	87	88	98	98	96	96	94	96	83
79	88	93	91	96	98	91	92	92	91	93	96	85
58	67	73	80	72	73	96	96	80	78	83	82	77
—	—	—	—	—	—	—	—	—	—	—	—	71
72	74	62	61	62	63	91	89	91	93	94	93	71
—	—	—	—	—	—	71	69	72	74	72	93	—
62	67	73	77	79	82	83	84	85	86	88	89	75
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.721	.702	.659	.648	.700	.692	—	—	—	—	—	—	.636
—	—	—	—	—	—	.306	.304	.294	.277	.284	.284	.334
.306	.217	.315	.302	.297	.297	.280	.289	.310	.311	.307	.297	.434
.453	.448	.447	.430	.439	.449	.448	.439	.439	.427	.416	.414	.355
.424	.440	.369	.325	.280	.269	.240	.237	.251	.249	.256	.261	.381
.449	.443	.398	.397	.409	.401	.399	.384	.404	.394	.358	.409	.400
.393	.381	.374	.370	.364	.365	.363	.346	.349	.350	.334	.348	—
.428	.400	.392	.401	.392	.381	—	—	—	—	—	—	.405
—	—	—	—	—	—	.444	.442	.438	.415	.422	.434	.399
.353	.347	.298	.309	.287	.291	.309	.314	.314	.311	.309	.303	.329
.357	.398	.357	.322	.263	.261	.252	.251	.246	.239	.234	.235	.348
.418	.362	.360	.306	.296	.287	.276	.276	.276	.276	.278	.279	.430
.514	.451	.434	.430	.429	.425	.431	.414	.408	.397	.385	.378	.545
.586	.536	.530	.522	.532	.527	.516	.507	.507	.521	.513	.521	—
.645	.631	.600	.580	.590	.585	—	—	—	—	—	—	.594
—	—	—	—	—	—	.529	.541	.531	.525	.527	.530	.635
.622	.650	.644	.632	.625	.605	.608	.607	.617	.599	.564	.552	.567
.518	.545	.508	.468	.469	.468	.460	.461	.460	.462	.466	.472	.310
.318	.302	.272	.255	.254	.258	.269	.282	.287	.279	.264	.266	.333
.440	.404	.375	.331	.315	.303	.291	.282	.271	.268	.258	.246	.379
.466	.433	.409	.397	.386	.362	.347	.323	.328	.350	.348	.342	—
.495	.481	.471	.479	.472	.469	—	—	—	—	—	—	.506
—	—	—	—	—	—	.544	.542	.536	.573	.563	.570	.487
.535	.488	.406	.393	.375	.374	.364	.360	.359	.352	.356	.357	.445
.473	.421	.394	.420	.411	.388	.375	.359	.364	.402	.403	.393	.587
.622	.614	.553	.590	.565	.571	.552	.510	.490	.480	.471	.447	.511
.540	.503	.497	.456	.445	.522	.435	.450	.460	.471	.460	.455	.631
.758	.727	.725	.707	.666	.654	.676	.675	.570	.556	.523	.500	—
.424	.395	.370	.361	.296	.293	—	—	—	—	—	—	.378
—	—	—	—	—	—	.321	.306	.302	.297	.285	.277	.383
.534	.547	.336	.309	.295	.292	.307	.294	.296	.298	.279	.277	—
.492	.470	.442	.428	.417	.411	.398	.392	.389	.388	.379	.379	.452

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	AUGUST.	1	93	72	65	62	58	61	66	65	67	66	61	64
		2	93	74	73	72	70	66	67	64	65	59	53	51
		3	95	88	83	79	77	69	73	67	62	59	59	57
		4	87	81	77	67	65	63	60	56	53	53	54	55
		5	85	84	83	78	75	68	63	68	70	69	63	64
		6	—	—	—	—	—	—	—	—	—	—	—	—
		7	95	95	88	87	87	78	81	84	77	89	93	89
		8	95	97	95	90	81	78	83	81	80	74	78	68
		9	96	96	93	86	88	83	81	76	73	75	80	80
		10	95	85	81	79	80	78	74	70	69	68	75	57
		11	89	86	85	80	75	77	77	78	74	71	71	72
		12	81	79	66	60	53	56	62	58	58	57	54	49
		13	—	—	—	—	—	—	—	—	—	—	—	—
		14	91	92	96	98	98	98	91	88	75	74	57	58
		15	93	88	82	77	75	71	71	73	74	71	73	71
		16	98	96	90	89	87	83	78	75	69	70	68	67
		17	94	92	92	88	85	85	84	89	74	72	72	68
		18	76	75	71	70	65	67	71	72	70	65	49	56
		19	85	85	78	76	61	65	66	66	62	63	66	63
		20	—	—	—	—	—	—	—	—	—	—	—	—
		21	88	83	76	73	66	62	62	60	63	60	61	69
		22	93	92	84	73	65	70	70	73	66	68	70	66
		23	90	85	81	72	75	75	69	66	60	55	56	61
		24	89	87	70	72	67	60	59	59	52	60	58	58
		25	90	89	88	85	78	65	60	67	62	69	70	74
		26	97	96	87	81	81	80	75	65	65	68	68	63
		27	—	—	—	—	—	—	—	—	—	—	—	—
		28	99	95	94	92	89	88	85	84	82	79	78	76
		29	96	97	91	84	80	78	76	77	73	70	68	64
		30	88	91	91	89	82	82	80	77	75	68	64	68
		31	95	89	84	76	67	78	76	73	68	64	64	61
		Hourly Means		91	88	83	79	75	73	73	72	68	67	66
Tension of the Vapour.	AUGUST.	1	In. .356	In. .325	In. .324	In. .338	In. .353	In. .361	In. .404	In. .404	In. .444	In. .472	In. .440	In. .468
		2	.306	.293	.363	.391	.406	.398	.439	.453	.487	.472	.465	.437
		3	.369	.421	.458	.476	.505	.511	.578	.561	.570	.552	.575	.550
		4	.404	.451	.489	.474	.488	.508	.498	.489	.475	.482	.485	.504
		5	.505	.519	.547	.580	.631	.608	.566	.628	.598	.610	.561	.575
		6	—	—	—	—	—	—	—	—	—	—	—	—
		7	.573	.644	.672	.698	.717	.714	.670	.727	.718	.662	.701	.676
		8	.540	.601	.622	.642	.608	.618	.650	.654	.655	.625	.672	.585
		9	.393	.441	.487	.515	.569	.580	.603	.595	.575	.594	.586	.585
		10	.479	.494	.527	.555	.600	.624	.631	.635	.581	.591	.674	.510
		11	.465	.468	.498	.529	.534	.597	.618	.618	.642	.627	.656	.662
		12	.428	.442	.463	.474	.465	.534	.576	.555	.569	.564	.574	.520
		13	—	—	—	—	—	—	—	—	—	—	—	—
		14	.613	.627	.656	.649	.670	.670	.712	.750	.722	.660	.572	.580
		15	.457	.486	.503	.524	.517	.506	.510	.565	.538	.637	.567	.546
		16	.443	.506	.553	.594	.623	.654	.677	.706	.682	.710	.707	.695
		17	.569	.580	.595	.635	.644	.691	.653	.715	.637	.632	.657	.616
		18	.404	.412	.407	.414	.419	.453	.517	.548	.543	.501	.376	.439
		19	.335	.377	.385	.422	.376	.433	.465	.453	.450	.437	.447	.422
		20	—	—	—	—	—	—	—	—	—	—	—	—
		21	.397	.403	.413	.425	.407	.396	.432	.443	.468	.459	.474	.544
		22	.398	.423	.433	.435	.423	.489	.489	.530	.512	.517	.542	.505
		23	.378	.388	.426	.454	.533	.536	.522	.504	.500	.466	.479	.523
		24	.306	.364	.376	.433	.448	.427	.447	.461	.436	.507	.510	.510
		25	.351	.397	.582	.548	.556	.490	.466	.555	.568	.577	.580	.607
		26	.421	.501	.541	.571	.622	.647	.673	.667	.669	.704	.704	.656
		27	—	—	—	—	—	—	—	—	—	—	—	—
		28	.610	.602	.616	.650	.640	.685	.680	.702	.721	.727	.707	.688
		29	.527	.569	.609	.621	.625	.644	.655	.686	.679	.636	.588	.581
		30	.430	.500	.562	.629	.676	.670	.716	.751	.747	.728	.702	.711
		31	.587	.651	.677	.682	.661	.737	.741	.740	.730	.703	.720	.730
		Hourly Means		.446	.477	.507	.532	.545	.555	.577	.596	.589	.589	.586

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
59	72	79	80	88	87	88	89	86	91	92	93	75
68	59	84	88	92	85	90	90	93	94	94	96	77
65	83	88	86	85	85	88	88	91	91	91	92	79
52	58	66	69	67	65	61	61	76	78	81	81	66
68	80	81	80	84	83	—	—	—	—	—	—	80
—	—	—	—	—	—	92	94	95	95	95	95	—
91	89	92	92	94	96	97	97	95	95	95	96	91
77	86	92	88	87	91	92	93	91	96	96	96	87
73	86	92	93	94	97	88	91	89	93	95	96	87
75	79	90	91	85	78	82	83	89	87	86	82	80
62	81	85	73	78	78	74	83	84	82	88	91	79
56	69	78	86	84	91	—	—	—	—	—	—	72
—	—	—	—	—	—	87	87	88	93	94	92	—
62	67	84	88	86	85	89	90	89	90	88	93	84
74	82	93	94	94	95	95	94	96	96	96	94	84
66	67	78	88	88	83	90	92	92	90	95	88	83
79	84	87	91	90	92	94	95	92	88	93	87	86
62	62	67	60	54	68	73	73	79	82	90	89	69
73	68	60	63	63	63	—	—	—	—	—	—	—
—	—	—	—	—	—	94	93	94	90	96	89	74
66	82	89	88	92	93	91	91	93	92	95	95	79
74	83	89	87	89	90	91	92	92	92	80	90	81
68	77	70	78	69	71	66	69	73	84	89	89	73
69	77	83	80	80	88	93	90	92	96	96	94	76
82	90	93	93	93	94	96	96	97	96	91	96	84
79	82	87	89	91	87	—	—	—	—	—	—	—
—	—	—	—	—	—	98	98	98	98	98	98	85
81	90	95	95	95	97	97	97	96	96	96	97	91
68	83	88	94	94	96	96	95	93	91	92	95	85
73	80	87	89	96	97	93	88	89	91	92	94	84
63	80	73	73	73	90	85	91	92	93	94	94	79
70	78	83	84	85	86	88	89	90	91	92	92	80
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.458	.437	.396	.357	.343	.338	.320	.309	.294	.303	.288	.274	.367
.461	.388	.451	.417	.419	.363	.360	.349	.362	.337	.331	.335	.395
.570	.567	.499	.441	.415	.403	.408	.403	.399	.395	.389	.380	.475
.453	.411	.402	.396	.386	.381	.377	.396	.424	.408	.426	.464	.445
.559	.556	.538	.516	.526	.508	—	—	—	—	—	—	.561
—	—	—	—	—	—	.546	.551	.558	.552	.563	.554	—
.677	.649	.641	.624	.615	.609	.588	.574	.552	.551	.541	.535	.639
.636	.629	.580	.537	.508	.464	.450	.437	.405	.395	.412	.382	.554
.575	.557	.514	.492	.483	.483	.452	.487	.492	.496	.476	.431	.519
.579	.548	.524	.509	.492	.470	.468	.465	.465	.460	.458	.443	.533
.598	.557	.528	.464	.477	.470	.427	.476	.477	.450	.417	.416	.528
.560	.551	.581	.541	.519	.471	—	—	—	—	—	—	—
—	—	—	—	—	—	.481	.464	.460	.546	.569	.585	.520
.613	.540	.559	.540	.507	.491	.501	.471	.462	.461	.456	.442	.580
.594	.543	.513	.494	.471	.445	.435	.413	.408	.405	.416	.401	.496
.625	.548	.577	.556	.553	.533	.511	.523	.531	.569	.587	.536	.599
.606	.588	.584	.591	.576	.559	.576	.571	.495	.446	.433	.436	.587
.488	.383	.369	.306	.271	.317	.321	.322	.326	.321	.312	.320	.395
.461	.391	.310	.323	.316	.319	—	—	—	—	—	—	—
—	—	—	—	—	—	.413	.417	.414	.382	.403	.386	.397
.481	.434	.409	.382	.390	.383	.372	.378	.377	.367	.366	.361	.415
.522	.486	.469	.449	.441	.436	.418	.410	.401	.400	.357	.349	.451
.565	.477	.381	.383	.351	.336	.325	.323	.327	.303	.296	.291	.419
.472	.460	.434	.414	.401	.387	.392	.370	.359	.354	.338	.326	.414
.608	.593	.540	.509	.484	.473	.461	.436	.436	.423	.403	.408	.498
.643	.607	.584	.581	.562	.573	—	—	—	—	—	—	—
—	—	—	—	—	—	.631	.631	.628	.619	.603	.597	.610
.646	.613	.592	.554	.538	.541	.542	.548	.539	.522	.520	.501	.612
.578	.554	.521	.511	.503	.504	.504	.486	.460	.447	.434	.417	.556
.678	.617	.607	.586	.594	.590	.579	.575	.558	.575	.579	.571	.622
.700	.660	.574	.590	.563	.598	.574	.571	.546	.535	.532	.541	.639
.571	.531	.507	.484	.471	.461	.460	.458	.450	.445	.441	.433	.512



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	SEPTEMBER.	1	93	91	92	86	83	81	81	79	77	86	75	77	
		2	96	94	91	95	93	86	84	81	78	81	79	78	
		3	—	—	—	—	—	—	—	—	—	—	—	—	
		4	90	89	75	72	66	63	60	67	68	68	55	52	55
		5	65	71	69	71	71	71	70	70	68	68	74	71	74
		6	83	81	80	71	71	72	75	81	72	72	74	78	80
		7	94	95	99	87	85	84	78	78	76	76	76	77	74
		8	94	92	89	85	85	86	78	86	86	86	73	73	61
		9	72	69	58	54	46	49	49	46	45	45	42	40	38
		10	—	—	—	—	—	—	—	—	—	—	—	—	—
		11	81	75	61	54	50	49	52	52	52	51	53	55	53
		12	80	73	67	68	70	69	68	68	64	64	65	59	55
		13	76	80	67	65	66	67	72	71	74	74	72	76	77
		14	95	95	92	93	95	97	97	97	96	96	96	96	96
		15	97	97	97	98	97	97	97	97	97	94	92	74	74
		16	89	87	81	78	71	67	71	75	79	78	78	79	71
		17	—	—	—	—	—	—	—	—	—	—	—	—	—
		18	94	94	75	69	65	68	68	59	58	62	63	68	68
		19	93	87	85	79	77	78	76	74	77	79	77	77	77
		20	97	86	85	87	91	94	94	92	87	84	85	89	89
		21	100	99	99	82	71	68	60	57	55	57	76	84	84
		22	83	76	74	71	71	70	71	69	66	72	70	76	76
		23	95	96	94	90	85	87	86	84	81	81	79	79	79
		24	—	—	—	—	—	—	—	—	—	—	—	—	—
		25	97	97	96	96	96	92	92	95	95	95	88	89	89
		26	84	83	80	77	73	75	69	69	67	64	62	64	64
		27	82	78	72	70	69	64	60	57	56	56	51	52	52
		28	95	91	87	87	74	72	71	69	66	71	74	79	79
		29	93	93	89	88	86	86	82	84	80	78	78	81	81
		30	97	95	97	89	89	89	85	82	76	73	73	83	83
		31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		89	87	83	79	77	76	75	74	72	72	72	72		
Tension of the Vapour.	SEPTEMBER.	1	In. .566	In. .615	In. .660	In. .624	In. .656	In. .719	In. .739	In. .742	In. .718	In. .720	In. .742	In. .730	
		2	.590	.627	.656	.666	.713	.761	.793	.855	.815	.839	.777	.783	
		3	—	—	—	—	—	—	—	—	—	—	—	—	
		4	.576	.590	.526	.552	.534	.552	.560	.662	.692	.544	.501	.512	.512
		5	.352	.424	.369	.407	.424	.465	.489	.504	.497	.513	.541	.501	.501
		6	.427	.427	.444	.431	.445	.513	.518	.564	.531	.517	.543	.544	.544
		7	.569	.580	.594	.590	.583	.595	.581	.606	.596	.578	.596	.538	.538
		8	.511	.512	.506	.540	.569	.614	.604	.621	.622	.609	.607	.460	.460
		9	.236	.240	.220	.229	.211	.233	.243	.245	.252	.244	.225	.211	.211
		10	—	—	—	—	—	—	—	—	—	—	—	—	—
		11	.212	.243	.236	.226	.224	.237	.269	.282	.282	.305	.320	.319	.319
		12	.221	.225	.235	.271	.301	.318	.343	.324	.339	.358	.327	.301	.301
		13	.236	.295	.285	.300	.313	.324	.348	.352	.356	.356	.362	.366	.366
		14	.409	.401	.393	.395	.401	.420	.425	.426	.428	.428	.413	.405	.405
		15	.470	.466	.466	.479	.500	.492	.507	.556	.593	.621	.544	.527	.527
		16	.409	.417	.430	.435	.428	.437	.474	.516	.540	.524	.539	.449	.449
		17	—	—	—	—	—	—	—	—	—	—	—	—	—
		18	.530	.655	.535	.491	.485	.526	.554	.504	.489	.486	.484	.482	.482
		19	.330	.358	.394	.406	.424	.444	.457	.460	.452	.460	.450	.433	.433
		20	.432	.422	.440	.471	.485	.500	.498	.562	.586	.557	.568	.536	.536
		21	.530	.594	.656	.734	.724	.731	.676	.672	.673	.660	.700	.695	.695
		22	.263	.267	.297	.300	.309	.315	.330	.338	.305	.325	.315	.339	.339
		23	.428	.441	.480	.495	.505	.518	.571	.647	.641	.649	.681	.675	.675
		24	—	—	—	—	—	—	—	—	—	—	—	—	—
		25	.412	.409	.408	.408	.405	.407	.412	.441	.449	.435	.408	.399	.399
		26	.269	.264	.247	.254	.229	.237	.226	.233	.223	.223	.209	.206	.206
		27	.181	.176	.161	.161	.182	.177	.186	.186	.194	.210	.195	.200	.200
		28	.185	.194	.216	.237	.244	.263	.289	.297	.296	.318	.304	.345	.345
		29	.259	.275	.299	.325	.362	.399	.410	.421	.440	.439	.418	.428	.428
		30	.264	.280	.356	.361	.394	.430	.428	.430	.414	.385	.377	.379	.379
		31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		.380	.399	.404	.415	.425	.447	.459	.479	.475	.473	.467	.452		

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
77	80	88	89	93	92	93	93	93	93	89	92	86
92	93	96	96	99	98	—	—	—	—	—	—	89
—	—	—	—	—	—	87	87	84	87	79	90	72
61	68	69	78	80	87	83	83	83	76	70	67	79
78	87	91	92	94	92	92	88	88	80	85	83	82
84	86	87	87	88	92	75	80	82	87	96	94	86
78	84	85	85	85	85	85	88	93	95	95	95	73
61	65	65	63	62	60	60	65	67	67	68	69	60
53	57	61	64	72	76	—	—	—	—	—	—	68
—	—	—	—	—	—	69	72	72	75	78	85	71
65	80	76	79	87	85	85	82	82	82	75	79	76
62	72	82	88	84	84	84	80	71	66	66	68	96
77	81	74	72	71	73	75	80	82	88	96	94	91
96	97	96	96	96	97	97	97	97	97	97	97	83
82	86	89	89	91	89	91	92	90	90	84	88	77
79	82	88	89	91	93	—	—	—	—	—	—	83
—	—	—	—	—	—	87	90	90	91	97	95	77
67	66	72	70	79	90	94	94	89	94	95	90	83
80	83	87	90	89	95	84	84	82	81	81	94	93
94	96	97	96	91	97	97	97	97	97	97	97	77
81	74	76	73	86	82	69	69	81	82	74	81	75
64	69	65	67	68	74	80	86	87	83	85	92	89
84	89	89	88	87	86	—	—	—	—	—	—	90
—	—	—	—	—	—	96	95	95	93	96	97	73
85	87	87	87	87	88	91	83	85	83	85	85	76
65	73	78	76	68	71	74	72	78	72	74	82	86
71	83	90	81	82	85	87	90	94	94	95	93	88
89	92	94	95	95	95	95	97	94	95	97	92	85
86	86	81	85	93	93	94	94	96	95	95	95	81
78	80	80	92	95	97	—	—	—	—	—	—	81
—	—	—	—	—	—	74	81	78	88	89	88	81
77	81	82	83	85	87	85	85	86	86	86	88	81
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·670	·635	·678	·660	·622	·569	·665	·648	·640	·619	·584	·580	·659
·790	·773	·780	·762	·765	·724	—	—	—	—	—	—	·723
—	—	—	—	—	—	·704	·692	·674	·689	·560	·564	·511
·510	·483	·466	·490	·483	·486	·480	·470	·453	·418	·378	·356	·452
·507	·486	·462	·443	·434	·432	·437	·430	·423	·403	·431	·427	·485
·549	·556	·561	·562	·570	·564	·371	·384	·387	·400	·423	·418	·543
·541	·534	·516	·495	·494	·495	·495	·512	·474	·466	·502	·504	·425
·403	·387	·351	·300	·284	·260	·246	·252	·247	·237	·235	·232	·227
·228	·222	·214	·216	·230	·230	—	—	—	—	—	—	·252
—	—	—	—	—	—	·226	·226	·217	·216	·216	·212	·270
·299	·278	·249	·242	·242	·226	·224	·230	·230	·229	·219	·223	·369
·283	·247	·247	·259	·235	·231	·230	·229	·240	·233	·244	·245	·427
·376	·401	·374	·378	·375	·364	·371	·384	·387	·401	·423	·418	·484
·402	·409	·415	·419	·431	·445	·454	·459	·469	·472	·470	·470	·489
·497	·483	·486	·449	·450	·461	·458	·451	·425	·423	·399	·403	·433
·454	·447	·447	·409	·436	·442	—	—	—	—	—	—	·413
—	—	—	—	—	—	·572	·566	·584	·587	·629	·576	·433
·445	·396	·381	·347	·345	·344	·335	·323	·308	·308	·334	·303	·413
·418	·405	·398	·400	·390	·421	·405	·406	·403	·395	·387	·426	·488
·514	·503	·501	·478	·437	·453	·444	·449	·470	·470	·480	·465	·527
·604	·483	·463	·412	·437	·406	·328	·316	·314	·299	·267	·271	·316
·271	·286	·280	·284	·271	·282	·348	·349	·358	·362	·388	·412	·536
·601	·590	·609	·637	·621	·606	—	—	—	—	—	—	·368
—	—	—	—	—	—	·420	·415	·412	·398	·412	·413	·211
·360	·353	·349	·344	·336	·334	·333	·292	·290	·278	·280	·280	·188
·203	·210	·219	·210	·181	·178	·179	·171	·182	·168	·167	·182	·256
·212	·206	·201	·189	·191	·192	·189	·192	·183	·177	·178	·183	·339
·294	·266	·250	·244	·245	·238	·228	·228	·227	·240	·247	·244	·369
·403	·356	·333	·334	·317	·286	·276	·292	·276	·273	·261	·257	—
·349	·360	·364	·416	·435	·440	—	—	—	—	—	—	—
—	—	—	—	—	—	·328	·346	·327	·340	·334	·323	—
·430	·410	·407	·399	·394	·389	·375	·374	·369	·365	·360	·361	·413

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	OCTOBER.	2	86	81	76	71	70	65	58	54	50	58	56	58	
		3	92	83	78	72	68	64	60	67	69	63	64	78	
		4	80	76	71	62	62	59	77	77	73	76	56	53	
		5	93	93	85	83	81	84	80	78	73	71	71	71	78
		6	93	96	97	92	83	86	84	82	82	79	84	86	87
		7	99	92	96	97	97	99	97	97	98	98	97	99	97
		8	—	—	—	—	—	—	—	—	—	—	—	—	—
		9	96	96	97	87	85	84	81	79	79	83	84	84	84
		10	98	90	84	78	87	86	88	85	85	82	81	81	83
		11	93	94	92	91	91	95	96	96	96	97	96	96	97
		12	95	90	87	81	73	68	65	77	66	66	70	72	71
		13	91	87	82	80	74	71	67	59	58	58	55	59	70
		14	93	91	87	87	80	68	73	79	80	84	84	74	73
		15	—	—	—	—	—	—	—	—	—	—	—	—	—
		16	93	95	92	88	84	79	84	74	72	74	74	78	90
		17	84	91	92	82	72	61	60	59	59	59	59	71	69
		18	82	82	82	77	73	61	52	56	66	63	63	70	68
		19	92	91	93	73	69	71	61	58	59	69	69	70	70
		20	93	93	89	88	82	79	78	76	79	73	73	73	77
		21	93	93	89	86	84	81	76	73	69	68	68	64	68
		22	—	—	—	—	—	—	—	—	—	—	—	—	—
		23	93	94	83	74	70	63	79	73	75	71	71	72	78
		24	92	96	95	69	50	82	82	78	70	69	69	73	83
		25	98	96	97	94	93	73	64	63	55	56	56	70	69
		26	96	96	95	87	73	62	48	68	60	70	73	73	78
		27	95	92	95	95	93	98	87	87	87	87	87	87	89
		28	88	92	89	87	68	56	65	70	73	72	71	71	79
		29	—	—	—	—	—	—	—	—	—	—	—	—	—
		30	80	80	89	79	70	62	56	78	73	78	75	75	70
		31	87	91	88	80	69	65	61	56	89	67	71	71	91
		Hourly Means		91	90	87	82	77	74	72	73	73	73	74	77
		Tension of the Vapour.	OCTOBER.	2	In. .323	In. .317	In. .311	In. .312	In. .314	In. .303	In. .294	In. .281	In. .258	In. .288	In. .283
3	.262			.260	.253	.256	.259	.253	.239	.260	.264	.249	.252	.273	
4	.222			.218	.218	.210	.224	.228	.263	.294	.272	.270	.213	.262	
5	.202			.229	.253	.269	.293	.310	.325	.344	.339	.349	.340	.340	.338
6	.255			.312	.353	.397	.403	.431	.456	.457	.450	.448	.423	.431	.431
7	.433			.410	.403	.406	.412	.421	.419	.424	.433	.432	.428	.400	.400
8	—			—	—	—	—	—	—	—	—	—	—	—	—
9	.204			.221	.254	.263	.277	.279	.288	.302	.285	.279	.276	.274	.274
10	.223			.219	.236	.249	.270	.280	.293	.291	.304	.285	.276	.266	.266
11	.326			.335	.330	.338	.343	.356	.368	.370	.380	.374	.371	.372	.372
12	.286			.228	.275	.285	.278	.266	.258	.279	.249	.254	.247	.240	.240
13	.186			.185	.191	.206	.205	.203	.203	.184	.179	.171	.180	.189	.189
14	.162			.166	.174	.190	.189	.176	.187	.210	.213	.218	.194	.184	.184
15	—			—	—	—	—	—	—	—	—	—	—	—	—
16	.217			.222	.223	.225	.236	.234	.269	.235	.226	.224	.233	.241	.241
17	.191			.202	.210	.202	.178	.164	.160	.159	.160	.158	.182	.167	.167
18	.188			.190	.198	.201	.217	.195	.178	.184	.216	.212	.218	.201	.201
19	.165			.171	.195	.182	.196	.199	.183	.182	.198	.235	.223	.206	.206
20	.243			.252	.263	.285	.290	.302	.308	.319	.350	.330	.345	.331	.331
21	.356			.336	.314	.307	.294	.271	.244	.226	.207	.197	.169	.170	.170
22	—			—	—	—	—	—	—	—	—	—	—	—	—
23	.128			.136	.144	.143	.147	.138	.185	.175	.188	.180	.184	.182	.182
24	.144			.148	.164	.146	.119	.204	.219	.217	.210	.206	.209	.204	.204
25	.219			.222	.231	.247	.277	.242	.208	.186	.166	.167	.171	.157	.157
26	.146			.142	.154	.165	.153	.136	.114	.157	.154	.164	.156	.158	.158
27	.150			.142	.148	.154	.159	.177	.156	.156	.156	.160	.162	.162	.162
28	.142			.146	.155	.164	.145	.128	.158	.180	.181	.187	.177	.173	.173
29	—			—	—	—	—	—	—	—	—	—	—	—	—
30	.161			.159	.177	.164	.151	.142	.129	.158	.151	.153	.143	.131	.131
31	.133			.135	.144	.143	.136	.138	.135	.127	.175	.157	.159	.192	.192
Hourly Means				.218	.219	.230	.235	.237	.238	.240	.244	.245	.244	.239	.235

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
72	77	90	77	77	87	85	71	83	87	91	89	74
78	78	77	79	83	87	89	92	94	91	88	88	78
62	75	77	83	87	90	89	90	92	92	93	97	77
89	81	85	92	93	92	92	88	91	95	94	95	86
91	91	88	91	96	97	98	98	98	99	99	99	91
97	97	97	98	88	90	—	—	—	—	—	—	96
—	—	—	—	—	—	87	94	98	97	98	98	—
87	88	88	93	94	97	94	94	96	95	93	98	89
86	91	88	89	89	90	93	93	92	93	94	93	88
96	96	96	97	92	96	89	93	92	91	95	95	94
74	81	85	91	92	93	95	96	96	95	94	93	83
79	80	83	89	96	95	93	91	92	93	94	93	80
74	86	81	79	80	79	—	—	—	—	—	—	—
—	—	—	—	—	—	95	95	93	95	95	95	84
95	95	94	90	87	88	87	88	85	85	86	86	86
72	72	72	78	74	73	79	82	81	81	92	82	75
74	80	76	78	93	86	93	91	90	91	94	93	78
84	85	88	93	94	96	95	97	96	96	96	95	83
78	81	80	81	82	84	86	83	84	84	85	86	82
71	79	73	78	81	82	—	—	—	—	—	—	—
—	—	—	—	—	—	81	84	70	77	92	94	79
90	—	—	92	91	95	87	96	95	95	96	93	84
89	91	95	95	95	97	95	95	98	96	79	98	86
73	73	78	81	90	92	92	95	92	86	87	96	82
75	78	74	74	75	72	76	94	94	93	96	96	79
93	93	92	93	92	93	96	97	93	92	94	88	92
88	90	88	88	84	85	—	—	—	—	—	—	—
—	—	—	—	—	—	79	78	79	87	87	82	80
77	82	80	80	77	77	80	77	79	82	85	85	77
99	96	86	85	81	91	94	84	85	78	70	69	80
82	85	84	86	87	89	89	90	90	90	91	91	83
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·288	·276	·274	·262	·258	·267	·251	·228	·267	·274	·273	·257	·281
·252	·242	·234	·229	·231	·236	·239	·242	·246	·237	·232	·232	·247
·209	·218	·219	·223	·237	·242	·238	·238	·237	·231	·214	·207	·231
·363	·329	·334	·320	·302	·295	·298	·308	·317	·311	·280	·267	·305
·413	·415	·408	·419	·432	·438	·442	·437	·430	·430	·433	·427	·414
·403	·416	·416	·416	·348	·342	—	—	—	—	—	—	—
—	—	—	—	—	—	·211	·212	·202	·199	·188	·191	·357
·273	·270	·266	·276	·273	·260	·245	·237	·217	·212	·211	·221	·257
·275	·284	·278	·278	·273	·271	·277	·279	·287	·296	·305	·318	·275
·354	·348	·350	·337	·309	·311	·301	·303	·290	·285	·294	·284	·334
·221	·225	·219	·216	·209	·204	·192	·179	·184	·183	·182	·190	·231
·196	·190	·189	·190	·178	·175	·171	·163	·162	·160	·163	·160	·182
·177	·192	·182	·175	·170	·166	—	—	—	—	—	—	—
—	—	—	—	—	—	·219	·215	·211	·221	·220	·219	·193
·238	·236	·234	·220	·204	·212	·209	·206	·199	·196	·195	·194	·222
·168	·168	·168	·195	·169	·170	·182	·188	·187	·189	·210	·188	·180
·209	·214	·200	·195	·210	·189	·183	·187	·179	·179	·172	·165	·195
·220	·217	·222	·223	·218	·206	·205	·208	·208	·212	·214	·217	·204
·340	·333	·342	·343	·340	·325	·341	·375	·356	·351	·359	·362	·324
·167	·176	·161	·168	·174	·175	—	—	—	—	—	—	—
—	—	—	—	—	—	·142	·145	·115	·121	·135	·134	·204
·170	—	—	·148	·148	·150	·136	·154	·146	·149	·149	·144	·156
·188	·172	·175	·178	·174	·171	·171	·178	·179	·179	·161	·208	·180
·158	·152	·156	·161	·150	·146	·148	·154	·147	·146	·144	·148	·179
·156	·162	·158	·157	·160	·155	·163	·178	·176	·168	·175	·162	·157
·166	·168	·168	·173	·174	·173	·170	·171	·158	·156	·145	·142	·160
·168	·163	·176	·179	·199	·206	—	—	—	—	—	—	—
—	—	—	—	—	—	·171	·161	·159	·164	·167	·163	·167
·133	·136	·130	·129	·126	·125	·127	·121	·125	·129	·135	·131	·140
·200	·173	·146	·151	·144	·140	·141	·134	·151	·157	·148	·147	·150
·235	·235	·232	·229	·223	·221	·214	·215	·213	·213	·212	·211	·228

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	NOVEMBER.	1	68	76	74	72	87	92	97	96	95	97	95	95	
		2	95	95	95	91	86	80	75	78	82	89	87	88	
		3	74	79	81	77	71	67	68	60	66	68	71	82	
		4	92	87	79	72	68	68	68	72	75	73	72	74	76
		5	—	—	—	—	—	—	—	—	—	—	—	—	—
		6	94	97	92	89	85	78	72	71	74	72	72	76	81
		7	95	96	91	86	81	79	78	73	72	72	77	81	93
		8	96	93	79	76	76	76	77	72	72	72	77	81	79
		9	84	95	83	78	76	59	59	69	71	70	70	73	73
		10	96	98	98	96	96	93	88	88	88	86	91	90	89
		11	96	96	96	96	96	95	95	94	94	94	91	88	94
		12	—	—	—	—	—	—	—	—	—	—	—	—	—
		13	82	84	82	81	78	72	72	96	96	78	81	80	76
		14	78	77	81	79	76	76	78	75	75	75	76	78	82
		15	80	82	81	76	78	76	73	94	94	94	86	93	89
		16	98	98	98	98	98	98	98	96	95	93	93	95	95
		17	96	98	96	78	93	90	93	93	93	96	97	97	97
		18	97	85	82	79	73	77	71	68	67	67	66	67	78
		19	—	—	—	—	—	—	—	—	—	—	—	—	—
		20	96	92	93	76	71	92	88	85	88	88	87	90	91
		21	95	97	97	95	85	84	77	83	75	82	82	84	82
		22	86	79	80	78	74	73	72	73	72	75	75	74	74
		23	96	96	96	93	66	81	90	84	83	85	85	90	86
		24	93	80	72	71	67	68	63	67	64	62	62	61	61
		25	95	86	83	76	71	64	58	63	59	61	61	63	70
		26	—	—	—	—	—	—	—	—	—	—	—	—	—
		27	87	79	81	76	74	73	69	69	67	66	66	68	78
		28	93	93	94	88	87	83	77	85	80	78	78	74	80
		29	84	81	81	82	79	73	73	75	74	75	75	75	79
		30	77	78	81	79	68	70	66	76	76	76	76	80	82
		Hourly Means		89	88	86	82	79	78	77	79	78	79	81	83
Tension of the Vapour.	NOVEMBER.	1	.149	.158	.157	.160	.184	.190	.188	.188	.182	.192	.197	.205	
		2	.191	.195	.199	.205	.202	.192	.182	.186	.189	.195	.187	.183	
		3	.130	.140	.145	.140	.135	.133	.140	.131	.138	.139	.139	.150	
		4	.132	.130	.120	.114	.115	.113	.121	.124	.122	.120	.122	.122	.122
		5	—	—	—	—	—	—	—	—	—	—	—	—	—
		6	.104	.105	.119	.133	.140	.139	.139	.139	.148	.147	.145	.145	.150
		7	.160	.163	.161	.153	.157	.159	.158	.153	.151	.182	.187	.187	.183
		8	.177	.170	.149	.145	.152	.154	.155	.151	.150	.156	.161	.161	.155
		9	.149	.161	.147	.155	.155	.132	.133	.157	.157	.161	.154	.154	.154
		10	.184	.189	.195	.195	.204	.217	.216	.216	.213	.219	.214	.214	.209
		11	.199	.206	.208	.210	.213	.212	.210	.211	.211	.202	.191	.191	.198
		12	—	—	—	—	—	—	—	—	—	—	—	—	—
		13	.140	.139	.140	.142	.148	.147	.150	.170	.155	.158	.135	.135	.123
		14	.090	.089	.093	.096	.096	.100	.110	.119	.118	.116	.111	.111	.107
		15	.136	.142	.147	.144	.150	.155	.150	.176	.177	.170	.185	.185	.189
		16	.235	.237	.244	.247	.258	.269	.279	.317	.316	.292	.280	.280	.262
		17	.164	.171	.177	.158	.213	.237	.247	.244	.244	.247	.247	.247	.246
		18	.254	.229	.224	.224	.217	.215	.200	.199	.190	.181	.175	.175	.190
		19	—	—	—	—	—	—	—	—	—	—	—	—	—
		20	.150	.156	.171	.155	.160	.226	.234	.238	.228	.234	.222	.222	.207
		21	.231	.235	.242	.252	.246	.243	.218	.230	.213	.219	.217	.217	.209
		22	.148	.138	.144	.153	.153	.151	.150	.154	.148	.155	.154	.154	.153
		23	.135	.145	.166	.175	.143	.177	.210	.200	.193	.199	.209	.209	.202
		24	.292	.303	.248	.219	.198	.196	.190	.192	.189	.175	.165	.165	.148
		25	.161	.146	.146	.146	.147	.138	.130	.150	.147	.152	.155	.155	.152
		26	—	—	—	—	—	—	—	—	—	—	—	—	—
		27	.107	.096	.098	.092	.090	.091	.090	.093	.095	.098	.100	.100	.101
		28	.087	.088	.095	.105	.114	.117	.121	.135	.131	.132	.128	.128	.129
		29	.131	.128	.131	.136	.141	.138	.141	.144	.143	.148	.146	.146	.149
		30	.105	.104	.106	.109	.100	.106	.103	.119	.116	.116	.121	.121	.123
		Hourly Means		.159	.160	.160	.160	.162	.167	.167	.174	.171	.173	.171	.169

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
95	95	95	95	95	93	94	95	95	95	97	98	91
87	91	90	85	79	80	80	82	79	82	81	78	86
87	88	90	88	88	88	86	93	90	90	94	96	81
78	77	79	77	76	74	—	—	—	—	—	—	80
—	—	—	—	—	—	95	91	93	94	94	95	87
91	89	89	88	90	90	91	93	94	93	96	96	87
93	91	89	94	89	88	86	85	90	90	86	93	87
78	78	82	95	89	92	89	89	89	88	82	81	83
75	74	78	82	82	84	89	96	97	99	98	98	81
92	91	93	93	95	95	96	96	97	98	98	96	94
96	94	84	97	95	86	—	—	—	—	—	—	91
—	—	—	—	—	—	87	84	85	81	84	80	80
76	79	79	80	76	77	82	82	75	86	87	82	82
84	88	86	79	81	94	88	88	89	90	89	85	82
98	99	99	99	99	98	97	89	89	92	94	98	90
93	87	88	90	96	98	96	93	94	95	98	95	95
97	97	97	98	97	97	97	97	95	90	89	90	94
82	86	85	84	87	89	—	—	—	—	—	—	83
—	—	—	—	—	—	92	93	95	96	96	96	90
90	88	82	84	93	93	93	95	97	97	94	93	85
82	82	83	85	86	79	79	78	74	87	87	91	84
75	76	81	86	88	93	89	94	94	94	98	98	90
83	88	92	97	97	97	96	93	93	90	88	89	72
66	69	62	70	73	74	74	78	74	78	81	88	80
78	82	95	100	89	90	—	—	—	—	—	—	83
—	—	—	—	—	—	92	91	91	92	82	86	81
89	89	89	92	92	94	92	92	91	92	92	93	81
78	78	78	73	76	77	77	79	79	80	81	81	80
79	80	81	82	86	89	89	82	76	79	77	77	81
80	84	87	89	64	87	95	95	93	82	89	91	81
85	85	86	88	87	88	89	89	89	90	90	90	85
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·207	·208	·208	·217	·219	·214	·209	·207	·199	·199	·200	·197	·193
·174	·177	·171	·160	·151	·147	·146	·150	·148	·151	·150	·139	·173
·154	·149	·152	·150	·148	·148	·137	·138	·131	·131	·134	·135	·140
·122	·118	·120	·117	·114	·111	—	—	—	—	—	—	·115
—	—	—	—	—	—	·118	·109	·110	·111	·102	·109	·145
·158	·151	·154	·153	·156	·155	·156	·158	·159	·157	·162	·161	·168
·182	·181	·177	·178	·175	·175	·167	·165	·172	·172	·167	·173	·156
·150	·151	·155	·177	·161	·164	·160	·162	·158	·157	·148	·144	·165
·162	·161	·169	·173	·179	·184	·186	·188	·187	·189	·187	·186	·204
·214	·212	·213	·213	·206	·200	·199	·193	·194	·200	·197	·199	·180
·197	·178	·162	·180	·167	·151	—	—	—	—	—	—	·126
—	—	—	—	—	—	·144	·140	·140	·134	·140	·134	·108
·118	·119	·117	·121	·108	·104	·106	·103	·089	·101	·101	·097	·188
·106	·115	·127	·120	·122	·141	·133	·135	·138	·143	·142	·144	·229
·205	·215	·220	·225	·225	·221	·216	·203	·208	·217	·226	·231	·232
·267	·236	·220	·203	·183	·177	·167	·157	·158	·160	·169	·166	·193
·251	·253	·261	·271	·260	·254	·255	·241	·236	·236	·236	·237	·208
·188	·189	·190	·192	·194	·191	—	—	—	—	—	—	·200
—	—	—	—	—	—	·176	·170	·169	·169	·169	·154	·146
·213	·209	·200	·207	·220	·217	·218	·220	·227	·233	·235	·230	·220
·201	·195	·197	·192	·194	·165	·163	·149	·141	·156	·153	·158	·220
·154	·150	·147	·151	·146	·144	·141	·141	·138	·133	·137	·137	·220
·203	·218	·231	·252	·256	·267	·286	·284	·286	·278	·291	·294	·178
·151	·151	·136	·147	·144	·150	·150	·153	·146	·151	·150	·146	·142
·164	·163	·173	·168	·146	·145	—	—	—	—	—	—	·096
—	—	—	—	—	—	·119	·117	·118	·119	·103	·108	·118
·101	·097	·096	·097	·096	·097	·096	·099	·095	·095	·090	·090	·134
·123	·121	·119	·113	·116	·118	·121	·125	·125	·126	·128	·127	·121
·148	·144	·139	·138	·141	·141	·139	·127	·116	·114	·108	·107	·134
·121	·127	·134	·133	·096	·130	·148	·148	·144	·134	·140	·142	·165
·170	·169	·169	·171	·166	·165	·163	·160	·158	·160	·160	·159	·165

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	DECEMBER.	1	92	95	92	92	83	78	74	73	74	74	80	82
		2	77	77	77	75	72	69	66	63	62	68	69	71
		3	—	—	—	—	—	—	—	—	—	—	—	—
		4	86	86	81	70	78	73	71	79	70	75	86	91
		5	89	92	83	83	74	81	81	78	77	78	82	83
		6	87	88	82	83	84	80	82	80	78	77	76	77
		7	89	89	91	89	86	82	86	94	95	95	96	96
		8	84	86	77	77	77	78	83	86	83	86	88	89
		9	81	78	77	82	79	79	83	76	76	76	78	80
		10	—	—	—	—	—	—	—	—	—	—	—	—
		11	82	89	79	79	73	64	65	67	69	62	67	81
		12	81	80	78	79	80	75	73	73	69	71	67	72
		13	95	92	91	91	86	85	82	76	76	77	75	76
		14	79	78	78	79	74	70	63	57	57	67	68	68
		15	82	81	85	85	82	79	82	86	88	93	97	97
		16	95	95	95	95	95	95	95	96	96	97	97	97
		17	—	—	—	—	—	—	—	—	—	—	—	—
		18	96	96	98	96	91	86	81	79	83	83	91	89
		19	92	92	92	92	86	83	83	85	86	89	95	93
		20	87	86	82	80	73	71	79	79	78	78	79	82
		21	91	93	93	95	93	91	88	89	88	87	85	89
		22	96	96	95	95	89	64	82	93	87	91	89	91
		23	83	86	86	85	86	85	89	90	91	95	95	95
		24	—	—	—	—	—	—	—	—	—	—	—	—
		25	—	—	—	—	—	—	—	—	—	—	—	—
		26	95	95	95	95	93	95	95	94	93	93	94	91
		27	98	96	95	87	87	82	75	73	70	82	85	79
		28	93	95	96	96	91	86	87	82	92	91	89	94
		29	80	80	80	77	77	76	79	78	77	77	77	79
		30	79	80	84	77	72	68	67	60	64	68	71	74
		31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		84	85	83	82	79	76	77	76	76	78	80	81	
Tension of the Vapour.	DECEMBER.	1	In. .144	In. .148	In. .146	In. .154	In. .147	In. .144	In. .142	In. .141	In. .143	In. .142	In. .146	In. .148
		2	.124	.126	.127	.129	.130	.133	.134	.133	.131	.138	.132	.126
		3	—	—	—	—	—	—	—	—	—	—	—	—
		4	.167	.167	.163	.149	.172	.179	.185	.192	.175	.179	.191	.194
		5	.135	.133	.117	.115	.102	.105	.102	.098	.101	.103	.097	.091
		6	.101	.105	.117	.124	.133	.132	.138	.137	.134	.131	.125	.128
		7	.136	.135	.141	.148	.151	.140	.152	.164	.167	.161	.162	.159
		8	.145	.146	.124	.117	.123	.128	.146	.148	.147	.156	.159	.164
		9	.130	.127	.124	.136	.138	.140	.152	.141	.141	.137	.135	.133
		10	—	—	—	—	—	—	—	—	—	—	—	—
		11	.173	.190	.177	.175	.161	.143	.144	.146	.151	.133	.138	.162
		12	.089	.077	.071	.074	.078	.076	.075	.076	.069	.069	.062	.064
		13	.056	.060	.071	.079	.093	.112	.114	.115	.120	.127	.119	.116
		14	.123	.127	.133	.141	.145	.144	.139	.128	.129	.147	.148	.146
		15	.163	.164	.169	.172	.176	.179	.186	.187	.191	.187	.187	.185
		16	.187	.187	.187	.187	.187	.187	.189	.191	.193	.194	.183	.181
		17	—	—	—	—	—	—	—	—	—	—	—	—
		18	.162	.162	.166	.167	.166	.161	.150	.151	.158	.156	.169	.159
		19	.146	.145	.147	.152	.155	.159	.163	.166	.168	.171	.177	.170
		20	.167	.166	.161	.161	.154	.151	.179	.180	.176	.177	.179	.179
		21	.175	.178	.180	.184	.189	.194	.195	.198	.199	.202	.192	.187
		22	.163	.156	.162	.166	.168	.140	.183	.210	.189	.194	.186	.186
		23	.159	.166	.167	.166	.168	.167	.173	.176	.176	.183	.184	.187
		24	—	—	—	—	—	—	—	—	—	—	—	—
		25	—	—	—	—	—	—	—	—	—	—	—	—
		26	.194	.194	.195	.191	.190	.199	.205	.207	.209	.211	.220	.214
		27	.223	.214	.204	.202	.208	.205	.182	.176	.173	.198	.200	.182
		28	.170	.172	.177	.180	.173	.178	.189	.182	.189	.189	.172	.169
		29	.120	.117	.116	.107	.107	.113	.116	.119	.118	.120	.120	.123
		30	.118	.121	.125	.118	.113	.108	.109	.098	.104	.104	.107	.108
		31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		.147	.147	.147	.148	.149	.149	.154	.154	.154	.156	.156	.154	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
75	71	67	73	73	75	77	78	78	77	78	81	79
77	80	80	79	79	84	—	—	—	—	—	—	77
—	—	—	—	—	—	95	86	86	86	83	86	83
89	90	89	87	86	72	82	96	89	91	92	85	85
81	83	85	87	91	88	90	92	89	89	86	87	80
77	75	77	77	78	78	79	81	82	81	84	87	91
95	95	94	89	89	88	88	91	91	89	86	92	86
89	89	89	88	86	92	97	94	91	86	79	78	—
77	79	85	84	84	85	—	—	—	—	—	—	79
—	—	—	—	—	—	79	76	78	74	59	79	76
82	86	81	87	83	86	81	67	64	79	79	76	80
80	81	80	80	83	83	85	85	92	95	90	95	79
76	76	77	76	74	76	72	75	73	74	77	77	71
64	63	63	67	65	69	72	73	76	81	80	82	92
98	97	98	98	98	98	97	98	97	96	95	95	96
97	96	95	98	98	92	—	—	—	—	—	—	90
—	—	—	—	—	—	94	94	94	95	96	96	89
90	91	90	91	92	91	90	95	94	90	89	90	84
82	86	88	86	88	89	89	92	91	91	88	91	91
83	87	86	87	89	90	90	91	90	92	92	93	87
89	89	91	94	91	94	92	88	94	92	95	93	87
96	87	87	88	81	81	82	80	91	82	83	83	—
96	96	97	98	98	98	—	—	—	—	—	—	93
—	—	—	—	—	—	—	—	—	—	—	—	96
95	98	96	98	98	98	98	99	99	98	98	98	85
79	83	80	81	81	83	88	95	91	90	94	91	86
78	78	78	77	78	81	85	85	80	76	84	80	79
76	79	77	91	85	77	76	78	78	80	79	84	—
76	74	80	77	77	77	—	—	—	—	—	—	78
—	—	—	—	—	—	86	85	86	88	90	92	—
81	81	81	82	82	82	83	83	84	83	83	84	81
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.133	.126	.117	.125	.124	.125	.127	.131	.131	.130	.127	.131	.136
.127	.126	.122	.119	.120	.124	—	—	—	—	—	—	.138
—	—	—	—	—	—	.181	.165	.164	.164	.161	.164	.171
.185	.184	.183	.185	.176	.144	.160	.169	.154	.155	.152	.133	.098
.091	.087	.084	.077	.087	.076	.086	.092	.093	.095	.097	.099	.129
.130	.130	.130	.131	.135	.137	.138	.138	.136	.131	.130	.134	.151
.155	.154	.150	.144	.145	.146	.148	.158	.156	.155	.152	.154	.145
.166	.162	.156	.155	.152	.145	.140	.134	.153	.146	.137	.128	.133
.118	.117	.115	.107	.107	.102	—	—	—	—	—	—	.143
—	—	—	—	—	—	.149	.147	.154	.153	.131	.164	.166
.162	.152	.140	.154	.146	.146	.131	.105	.097	.113	.105	.092	.109
.068	.068	.066	.062	.061	.058	.060	.053	.055	.155	.052	.055	.144
.117	.120	.122	.122	.122	.125	.118	.120	.116	.118	.117	.120	.182
.140	.136	.137	.143	.140	.147	.152	.153	.158	.163	.162	.163	.178
.186	.183	.185	.184	.184	.187	.183	.187	.185	.185	.184	.187	.155
.178	.174	.169	.169	.184	.152	—	—	—	—	—	—	.157
—	—	—	—	—	—	.167	.163	.162	.163	.163	.164	.174
.157	.156	.154	.152	.154	.151	.144	.149	.146	.144	.142	.143	.182
.146	.148	.148	.150	.149	.155	.154	.148	.156	.164	.164	.166	.174
.178	.184	.181	.182	.182	.177	.176	.176	.174	.177	.177	.178	.182
.185	.181	.180	.176	.176	.177	.174	.164	.166	.177	.175	.165	.174
.194	.181	.182	.183	.168	.164	.165	.161	.178	.163	.162	.163	—
.194	.197	.196	.201	.200	.197	—	—	—	—	—	—	.183
—	—	—	—	—	—	—	—	—	—	—	—	.214
—	—	—	—	—	—	.177	.182	.189	.196	.199	.199	.184
.225	.229	.223	.226	.128	.230	.230	.229	.224	.224	.224	.223	.152
.177	.178	.169	.166	.164	.163	.168	.177	.171	.167	.172	.168	.120
.134	.129	.128	.126	.124	.125	.129	.130	.123	.117	.124	.120	.120
.120	.124	.122	.142	.128	.122	.120	.122	.118	.120	.116	.124	—
.110	.108	.116	.113	.114	.115	—	—	—	—	—	—	.119
—	—	—	—	—	—	.126	.125	.125	.122	.119	.119	—
.151	.149	.147	.148	.147	.144	.148	.147	.147	.148	.146	.146	.149





**TORONTO, 1843.**

---

**DIRECTION AND FORCE OF THE WIND.**

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
JANUARY.		lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
	1	—	—	—	—	—	N.	0·2	—	—	—	—	
	2	S. by E.	2·0	—	—	S. E.	2·0	—	S. E.	2·0	S. E.	2·0	
	3	N. W.	1·0	N. W.	0·5	N. W.	0·5	N. W.	0·5	W. N. W.	0·5	W. N. W.	0·5
	4	S. W.	0·5	S. W.	0·5	S. W.	0·5	S. W.	0·5	S. W.	0·5	S. W.	2·0
	5	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	6	—	0·0	N. E.	0·5	—	0·0	E.	2·0	E.	2·0	E.	2·0
	7	S.	0·5	—	0·0	—	0·0	S.	0·2	S.	0·2	S.	0·5
	8	—	—	—	—	—	—	E. by N.	2·0	—	—	—	—
	9	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	10	N. E.	0·5	N. E.	0·5	N. E.	0·5	E. N. E.	0·5	E. N. E.	0·5	E. N. E.	0·2
	11	N. W.	0·2	N. W.	0·2	N. W.	0·2	N. N. W.	0·2	N. E.	0·2	N. E.	0·2
	12	N.	0·2	N.	0·2	N.	0·2	N. N. E.	0·2	N. E.	0·5	N. E. by E.	0·5
	13	—	0·0	E. by N.	0·2	E. by N.	0·2	W.	0·2	W.	0·2	S. W.	0·2
	14	W. by S.	0·5	W. S. W.	1·0	W. S. W.	2·0	W. S. W.	1·0	W. S. W.	1·0	W. S. W.	1·0
	15	—	—	—	—	—	—	S. W. by W.	1·0	—	—	—	—
	16	E. by S.	0·5	E. by S.	0·5	S. E. by E.	0·5	E. by S.	2·0	E. by S.	1·0	E. by S.	1·0
	17	E.	0·5	E.	0·5	E. by N.	0·5	—	0·0	—	0·0	E. by N.	0·5
	18	E. by S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	19	—	0·0	—	0·0	—	0·0	S. by W.	0·2	—	0·0	—	0·0
	20	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	21	—	0·0	—	0·0	—	0·0	S.	0·2	S.	0·2	S.	0·5
	22	—	—	—	—	—	—	W.	0·5	—	—	—	—
	23	—	0·0	S. W. by W.	0·5	S. W. by W.	0·5	S. W. by W.	0·5	W. S. W.	0·5	W. S. W.	0·5
	24	N. W.	2·0	N. W.	2·0	N. by W.	10·0	N. by W.	2·0	N. by W.	1·0	N. by W.	2·0
	25	W. N. W.	0·5	W. N. W.	0·5	N. N. W.	2·0	N. N. W.	2·0	N. by W.	2·0	N. by W.	2·0
	26	—	0·0	—	0·0	N. by E.	0·5	N. by E.	0·5	—	0·0	—	0·0
	27	E. by N.	0·5	E.	0·5	E. by N.	0·5	E. by N.	0·5	E. N. E.	0·5	N. E. by N.	0·5
	28	N.	0·5	N.	0·5	N. by E.	0·5	N. by E.	0·5	N. by E.	0·5	—	0·0
	29	—	—	—	—	—	—	—	0·0	—	—	—	—
	30	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	E. by N.	0·2
31	E.	0·5	E. by N.	2·0	E. by N.	2·0	E.	1·0	E. by N.	1·0	E. by N.	1·0	
JANUARY.													
	1	—	—	—	—	—	—	—	—	—	—	—	
	2	S. W.	2·0	S. W.	2·0	S. W.	1·0	S. W.	1·0	S. W.	1·0	S. W.	1·0
	3	W. by S.	2·0	W. by S.	2·0	W. by S.	2·0	W.	1·0	W.	1·0	W.	2·0
	4	S. W.	0·5	S. W.	0·5	S. W.	0·5	S. W.	0·5	—	0·0	—	0·0
	5	—	0·0	—	0·0	E.	0·2	E.	0·2	E.	0·2	E.	0·5
	6	E.	0·5	E.	0·5	E.	1·0	E.	0·5	E.	0·5	—	0·0
	7	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	N. W.	0·2
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	0·0	—	0·0	S. E.	0·2	S. E.	0·2	E. S. E.	0·2	S. E.	0·2
	10	N. by E.	0·2	N. N. W.	0·2	N. N. W.	0·2	N. W.	0·2	—	0·0	—	0·0
	11	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	12	E.	1·0	E. by N.	1·0	E. by N.	1·0	E. by N.	0·5	E. by N.	0·5	E. by N.	0·5
	13	N. N. W.	2·0	N. N. W.	1·0	N. N. W.	1·0	N. N. W.	0·5	W. N. W.	0·5	W. N. W.	0·5
	14	W. S. W.	1·0	W. S. W.	1·0	W. S. W.	1·0	W. S. W.	2·0	S. W. by W.	2·0	S. W. by W.	2·0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	E.	0·5	E.	0·5	E.	0·5	E. by S.	1·0	E. by S.	1·0	E. by S.	1·0
	17	E. by S.	0·2	E. by S.	0·2	E. by S.	0·2	E. by S.	0·2	—	0·0	—	0·0
	18	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	19	S. W.	0·5	S. W.	0·5	S. W.	0·5	S. W.	0·2	—	0·0	—	0·0
	20	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	21	S. W. by W.	0·5	W. S. W.	0·5	W.	0·5	W.	0·5	W.	0·5	W.	0·5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	W. by S.	2·0	W. by S.	1·0	W. by S.	0·5	W. by S.	0·2	—	0·0	W. by S.	0·5
	24	N. W.	1·0	N. W.	0·2	N. W.	0·5	N. W.	0·2	N. W.	0·2	N. W.	1·0
	25	N. by W.	1·0	N. by W.	1·0	N.	2·0	N. by E.	1·0	N. by E.	1·0	N. by E.	0·5
	26	N. E. by E.	0·2	N. E. by E.	0·5	E. by N.	0·5	E.	0·5	E. by S.	1·0	E. by S.	1·0
	27	N. E.	0·5	N. E.	0·5	N. E.	0·5	—	0·0	—	0·0	E. by N.	0·2
	28	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
31	—	0·0	S. by W.	0·5	S. by W.	1·0	S. by W.	2·0	S. E. by E.	10·0	S. E. by E.	10·0	





DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	N. W. by W.	2.0	1	
W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	2	
S. W. by S.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	3	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4	
—	—	—	—	E. by N.	10.0	E. N. E.	10.0	—	—	—	—	5	
W. N. W.	7.0	W. by N.	7.0	W. by N.	2.0	W. N. W.	7.0	W. N. W.	7.0	W. N. W.	2.0	6	
W. by N.	1.0	W.	1.0	W. N. W.	1.0	W. by N.	1.0	W. N. W.	1.0	W. by N.	1.0	7	
W. S. W.	0.2	W. by S.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.5	S. W. by W.	0.5	8	
N. W.	0.5	N. W.	0.5	N. W.	0.5	N. W. by N.	0.5	N. W. by N.	0.2	—	0.0	9	
E. by N.	5.0	E. by N.	2.0	E. N. E.	2.0	E. N. E.	2.0	E. by N.	2.0	E. by N.	2.0	10	
W. S. W.	2.0	W. by S.	2.0	W. by S.	2.0	W. S. W.	2.0	W. by S.	2.0	S. W.	2.0	11	
—	—	—	—	—	—	S. W. by W.	1.0	—	—	—	—	12	
—	0.0	N. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	N. W. by N.	0.5	N. W. by N.	0.2	13	
N. E.	7.0	N. E. by N.	2.0	N. E. by N.	2.0	N. N. E.	2.0	N. N. E.	2.0	N. N. E.	2.0	14	
W. S. W.	0.5	W. S. W.	1.0	W. by S.	2.0	W. N. W.	2.0	W. S. W.	2.0	W.	2.0	15	
W. by S.	1.0	W. by S.	1.0	W.	2.0	W.	2.0	W.	1.0	W.	0.5	16	
S. W.	1.0	S. W. by S.	1.0	S. W. by S.	1.0	S. W. by S.	1.0	S. W. by S.	1.0	S. W.	0.5	17	
S. W. by W.	0.2	S. W. by W.	0.2	—	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	18	
—	—	—	—	S. W. by W.	—	N. E.	0.5	—	—	—	—	19	
N. W. by N.	0.2	W.	0.2	S. W. by W.	0.5	S. W.	0.5	S. W.	0.5	N. W.	0.2	20	
S. W.	0.2	S. W.	0.2	S. W.	0.5	S. W.	0.5	W.	0.5	—	0.0	21	
N. W.	2.0	N. W. by W.	2.0	N. W.	2.0	N. W.	2.0	W. by N.	2.0	N. N. W.	2.0	22	
W.	2.0	W. S. W.	2.0	W. S. W.	2.0	W.	2.0	W.	1.0	W. by N.	0.5	23	
N. N. W.	0.2	S. W.	0.2	S. W.	0.2	—	0.0	—	0.0	—	0.0	24	
S. S. W.	1.0	S. S. W.	1.0	S. S. W.	1.0	S. W.	1.0	W. S. W.	1.0	W.	0.2	25	
—	—	—	—	—	—	N. E. by E.	0.2	—	—	—	—	26	
—	0.0	N. E. by N.	0.5	S. by E.	0.2	S. by E.	0.2	S by E.	0.2	—	0.0	27	
W. S. W.	0.2	—	0.0	—	0.0	W. by S.	0.2	W. by S.	0.5	W. S. W.	0.5	28	

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
W.	1.0	W.	1.0	W.	0.5	W.	0.2	—	0.0	—	0.0	1
S. W. by S.	3.0	S. W. by S.	3.0	S. W. by S.	3.0	S. W. by S.	3.0	S. W.	3.0	S. S. W.	2.0	2
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3
—	—	—	—	—	—	—	—	—	—	—	—	4
N. N. W.	2.0	N. W.	2.0	N. W.	2.0	N. W. by W.	10.0	N. N. W.	10.0	N. W. by W.	10.0	5
W. N. W.	1.0	W. N. W.	2.0	W. N. W.	2.0	W. N. W.	2.0	N. N. E.	2.0	N. W.	2.0	6
W. by S.	0.2	W. by S.	0.5	—	0.0	—	0.0	W. by S.	0.2	W. by S.	0.2	7
S. W. by W.	0.5	S. W. by W.	0.2	S. W. by W.	0.0	—	0.0	—	0.0	—	0.0	8
N. by W.	0.2	N. by W.	0.5	N. by W.	0.5	N. E. by N.	0.5	N. E. by N.	0.2	N. E. by N.	0.5	9
S. by E.	7.0	S. by E.	10.0	S. by W.	10.0	S. W.	10.0	S. W.	7.0	S. W. by W.	7.0	10
—	—	—	—	—	—	—	—	—	—	—	—	11
S. W.	0.2	S. W.	0.2	S. W.	0.5	S. W.	0.2	S. W.	0.2	S. W.	0.2	12
N.	0.5	—	0.0	N. E.	0.5	N. E.	0.5	N. E.	1.0	N. E. by N.	1.0	13
N.	1.0	N.	1.0	N.	1.0	N.	0.5	N. N. W.	0.5	N. E.	0.2	14
N. N. W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	16
W.	0.2	—	0.0	—	0.0	W.	0.2	—	0.0	—	0.0	17
—	—	—	—	—	—	—	—	—	—	—	—	18
N.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20
S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22
N. by W.	0.5	—	0.0	—	0.0	—	0.0	N.	0.5	—	0.0	23
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24
—	—	—	—	—	—	—	—	—	—	—	—	25
E. N. E.	1.0	E. N. E.	2.0	E. N. E.	1.0	E. N. E.	1.0	E. by N.	1.0	N. E. by E.	1.0	26
—	0.0	N. E. by N.	0.5	N. E. by N.	0.5	N. E. by N.	0.5	N. E. by N.	0.5	N. E. by N.	0.5	27
W.	0.2	W.	0.2	W.	0.2	W.	0.2	—	0.0	W.	0.2	28

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
MARCH.	1	W.	0.2	W.	0.2	W.	0.0	W. by N.	0.5	W.	0.5	W.	1.0
	2	W. by S.	0.2	—	0.0	—	0.0	S. W. by W.	0.5	W. S. W.	0.5	W. by S.	1.0
	3	—	0.0	W. S. W.	0.2	—	0.0	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2
	4	W. by S.	0.5	—	0.0	—	0.0	N.	0.2	N.	0.2	W. by S.	0.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	0.0	—	0.0	N. W.	0.2	N. W.	0.5	N. W.	0.5	N. W.	0.5
	7	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	8	S. E. by E.	0.2	E. S. E.	1.0	—	0.0	E.	0.5	E. by N.	1.0	E. by N.	0.5
	9	—	0.0	—	0.0	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.2	—	0.5
	10	E.	7.0	E. S. E.	7.0	E. S. E.	7.0	E. by S.	3.0	E. by S.	3.0	E. by S.	3.0
	11	S. W.	0.5	S. W.	0.5	W. by N.	2.0	W.	2.0	W.	2.0	W. by N.	2.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	E.	0.2	E.	0.2	E. S. E.	0.5	S. E.	0.2	S. E.	0.2	—	0.0
	14	S. W. by W.	1.0	S. W. by W.	1.0	W.	1.0	S. W. by W.	1.0	S. W. by W.	1.0	S. W.	1.0
	15	W. N. W.	7.0	W.	2.0	S. W. by W.	2.0	S. W. by W.	1.0	W. by N.	2.0	W. N. W.	7.0
	16	—	0.0	W. by S.	0.2	W. by S.	0.2	N.	0.2	N.	0.2	N. E.	0.5
	17	N. N. W.	2.0	N. N. W.	2.0	N. N. W.	2.0	W. N. W.	1.0	W. by N.	0.5	W. by N.	1.0
	18	W.	1.0	W. by S.	0.5	W. S. W.	1.0	W. S. W.	1.0	S. W. by W.	1.0	S. W. by W.	1.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	0.0	—	0.0	—	0.0	W. by S.	0.2	W. by S.	0.5	W. by S.	0.5
	21	—	0.0	W. by S.	0.2	W. S. W.	0.5	S. W.	1.0	S. S. W.	2.0	S. S. W.	2.0
	22	—	0.0	—	0.0	—	0.0	S.	0.2	S.	0.2	S. E.	0.2
	23	N. N. W.	2.0	N. N. W.	2.0	N. W.	2.0	N. W.	2.0	N. W.	2.0	N. W.	10.0
	24	W. by N.	0.2	W. by N.	0.2	—	0.0	W.	0.5	W. S. W.	0.5	W. S. W.	1.0
	25	—	0.0	S. E. by S.	0.5	S. E.	0.5	S. S. E.	0.5	S. S. E.	0.2	S. S. E.	0.2
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	E. S. E.	1.0	E. S. E.	1.0	E. S. E.	1.0	E. S. E.	2.0	E. by S.	2.0	E. by S.	2.0
	28	E. N. E.	7.0	N. E. by E.	2.0	N. E. by E.	2.0	E. N. E.	2.0	E. by N.	1.0	N. E.	0.5
	29	W. by S.	0.2	W. S. W.	0.2	S. W.	0.5	W. S. W.	1.0	S. W.	0.5	S. W.	0.5
	30	N. N. W.	0.2	N. by W.	0.2	N. N. W.	0.2	N. by W.	0.5	N. by W.	0.5	S. E.	0.5
	31	E.	7.0	E. by N.	7.0	N. E. by E.	7.0	N. E. by E.	10.0	E. by N.	10.0	E. by N.	10.0
MARCH.	12 <sup>h</sup> .		13 <sup>h</sup> .		14 <sup>h</sup> .		15 <sup>h</sup> .		16 <sup>h</sup> .		17 <sup>h</sup> .		
	1	W. by S.	0.5	W. by S.	0.5	W. by S.	0.5	W.	0.2	W.	0.2	W.	0.5
	2	W. S. W.	1.0	W. S. W.	1.0	W. S. W.	0.5	W. S. W.	0.2	—	0.0	W. S. W.	0.2
	3	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	4	N. by W.	1.0	N. by W.	1.0	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	—	0.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	N. W. by N.	1.0	N. W. by N.	1.0	N. W. by N.	1.0	N. W. by N.	0.5	—	0.0	—	0.0
	7	—	0.0	—	0.0	—	0.0	—	0.0	N. W.	0.2	N. W.	0.2
	8	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	9	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	10	E. by N.	1.0	E. by N.	1.0	E. by N.	1.0	E.	0.5	N. W. by W.	0.2	—	0.0
	11	W. by S.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	W. N. W.	2.0	W. N. W.	2.0	N. W. by W.	2.0	W. N. W.	2.0	W. N. W.	3.0	W. N. W.	2.0
	14	S. W.	1.0	S. W.	0.5	S. W.	0.2	—	0.0	—	0.0	S. W.	0.5
	15	W.	0.5	W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0
	16	—	0.0	—	0.0	—	0.0	N. N. W.	1.0	N. W. by N.	1.0	N. W. by N.	1.0
	17	W. by S.	2.0	W. by S.	2.0	W.	2.0	W.	2.0	W.	2.0	W.	2.0
	18	S. W. by W.	0.5	S. W. by W.	0.5	S. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	W. S. W.	0.2	W. S. W.	1.0	W. by S.	1.0	—	0.0	—	0.0	—	0.0
	21	S. W.	1.0	S. W.	0.5	S. W.	2.0	S. W.	1.0	S. S. W.	0.2	—	0.0
	22	W. by S.	0.5	W. by S.	0.5	W.	2.0	N. W.	2.0	S. W.	2.0	S. W.	2.0
	23	W. by N.	7.0	W. by N.	7.0	W. by N.	7.0	W. N. W.	3.0	W. N. W.	2.0	W. N. W.	2.0
	24	S. S. W.	1.0	S. S. W.	2.0	S. S. W.	2.0	S. S. W.	2.0	S. W.	1.0	—	0.0
	25	W. by S.	0.5	W. by S.	1.0	W.	1.0	W.	1.0	W.	0.5	—	0.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	E.	2.0	E.	2.0	E.	2.0	E.	2.0	E.	2.0	E.	2.0
	28	N. W. by W.	2.0	N. W. by W.	2.0	N. W. by W.	1.0	N. W. by W.	7.0	N. W. by W.	7.0	W.	7.0
	29	N. W.	0.5	N. W.	0.5	N. W.	0.5	N. W.	0.2	—	0.0	—	0.0
	30	E. by N.	0.2	—	0.0	E. N. E.	0.5	E. N. E.	0.5	E.	1.0	E.	1.0
31	N. E.	7.0	N. E.	2.0	N. E.	2.0	N. E.	0.0	N. E.	2.0	N. E. by E.	1.0	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
W.	1.0	W. by S.	1.0	W. by S.	1.0	W. by S.	1.0	W. by S.	0.5	W. by S.	0.5	1
W. by S.	1.0	W. by S.	1.0	W. by S.	1.0	W. by S.	1.0	W. by S.	0.5	W. by S.	0.5	2
W. S. W.	0.2	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	1.0	3
N. N. W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.5	N. by W.	0.5	4
—	—	—	—	—	—	—	—	—	—	—	—	5
N. W.	1.0	N. by W.	2.0	N. N. W.	1.0	N. N. W.	1.0	N. N. W.	1.0	N. W. by N.	1.0	6
N. by W.	0.2	N. N. W.	0.5	N. N. W.	0.5	S. W. by S.	0.5	S. W. by S.	0.5	—	0.0	7
E. by N.	1.0	E.	1.0	E.	1.0	E. by N.	1.0	E.	0.5	E. by N.	0.2	8
—	0.0	—	0.0	S.	0.2	S.	0.2	S.	0.2	—	0.0	9
E. by N.	3.0	E. N. E.	3.0	E. N. E.	3.0	E. by N.	1.0	E.	0.5	E.	0.5	10
W. by S.	2.0	W.	2.0	N. N. W.	2.0	W.	2.0	W.	1.0	W. by S.	0.5	11
—	—	—	—	—	—	—	—	—	—	—	—	12
—	0.0	—	0.0	S.	0.2	—	0.0	—	0.0	—	0.0	13
S. W. by S.	1.0	S. S. W.	1.0	S. S. W.	1.0	S. S. W.	1.0	S. W.	1.0	S. W.	2.0	14
W. by S.	7.0	W. by S.	3.0	W. by S.	3.0	W.	3.0	W.	3.0	W. by N.	0.5	15
N. E. by E.	0.5	—	0.0	N. E. by E.	0.0	—	0.0	E.	0.5	—	0.0	16
W. N. W.	2.0	W.	2.0	W.	2.0	W.	2.0	W.	1.0	W.	2.0	17
S. W. by W.	1.0	S. W. by W.	1.0	S. W. by W.	1.0	S. W. by W.	1.0	S. W. by W.	1.0	S. W. by W.	0.5	18
—	—	—	—	—	—	—	—	—	—	—	—	19
W. S. W.	0.5	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	20
S. S. W.	2.0	S. S. W.	2.0	S. S. W.	2.0	S. S. W.	2.0	S. S. W.	2.0	S. S. W.	2.0	21
S. E.	1.0	S.	1.0	S.	1.0	S. by W.	1.0	S. by W.	1.0	W. by S.	1.0	22
N. N. W.	5.0	N. N. W.	5.0	W.	2.0	W.	5.0	N. W. by W.	7.0	W. by N.	7.0	23
S. W. by W.	1.0	S. W.	0.5	S. W.	0.2	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	24
S. by E.	0.5	S.	0.5	S.	0.5	S. E.	0.5	S. W. by S.	0.5	S. W.	0.5	25
—	—	—	—	—	—	—	—	—	—	—	—	26
E. by N.	2.0	E.	2.0	E.	2.0	E.	2.0	E.	2.0	E.	2.0	27
N.	0.2	N.	0.2	N. E.	0.2	N. W. by N.	1.0	N. W.	2.0	N. W. by W.	1.0	28
S. W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	29
S. E. by E.	0.5	E.	0.2	E. S. E.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	30
E. by N.	7.0	E. by N.	10.0	E. N. E.	10.0	N. E. by E.	7.0	E. N. E.	7.0	N. E.	2.0	31

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
W.	0.5	W.	0.5	W.	0.5	—	0.0	—	0.0	W.	0.2	1
—	0.0	—	0.0	—	0.0	—	0.0	W. S. W.	0.2	—	0.0	2
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3
—	—	—	—	—	—	—	—	—	—	—	—	4
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	5
—	0.0	N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	6
N. W.	0.5	N.	0.2	W.	0.2	—	0.0	—	0.0	—	0.0	7
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	8
—	0.0	E. by N.	2.0	E. by N.	2.0	E. by N.	7.0	E. by N.	7.0	E. by N.	7.0	9
—	0.0	N. W.	0.5	W. N. W.	0.5	W.	0.5	S. W.	0.5	S. W.	0.5	10
—	—	—	—	—	—	—	—	—	—	—	—	11
E. by S.	1.0	E. by S.	1.0	E. by S.	1.0	E.	0.5	E.	0.5	E.	0.5	12
W.	1.0	W.	1.0	—	0.0	W.	1.0	W.	5.0	W.	5.0	13
S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.2	—	0.0	S. W. by S.	0.5	S. W. by S.	0.2	14
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
N. W. by N.	2.0	N. N. W.	2.0	N. N. W.	2.0	N. N. W.	2.0	N. N. W.	2.0	N. N. W.	2.0	16
W.	1.0	W.	0.5	W.	0.5	W.	0.2	W.	0.2	—	0.0	17
—	—	—	—	—	—	—	—	—	—	—	—	18
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21
S. W.	2.0	W.	2.0	W.	2.0	W.	2.0	N. N. W.	2.0	N. N. W.	2.0	22
W. N. W.	1.0	W. N. W.	2.0	N. W.	2.0	W. N. W.	0.5	W. N. W.	0.2	N. N. W.	0.2	23
S. S. W.	0.2	S. W.	0.2	—	0.0	S. S. W.	0.5	—	0.0	—	0.0	24
—	—	—	—	—	—	—	—	—	—	—	—	25
—	0.0	S. by W.	0.2	—	0.0	—	0.0	—	0.0	E. by S.	0.5	26
E.	7.0	E.	10.0	E.	10.0	E.	10.0	E.	10.0	E.	10.0	27
W.	10.0	W.	7.0	W. by S.	2.0	W. by S.	1.0	W. S. W.	0.5	—	0.0	28
N. by E.	0.5	N.	0.5	N. by W.	0.5	N. by W.	0.2	N.	0.2	—	0.0	29
E.	1.0	E.	1.0	E.	1.0	E. N. E.	1.0	E. N. E.	1.0	E. N. E.	7.0	30
N. W. by N.	1.0	N. W. by N.	1.0	N. W. by N.	1.0	N. W.	0.5	N. W.	0.5	N. W.	0.5	31





DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
N. N. W.	0.5	W. by N.	0.5	W.	0.5	W.	0.5	W.	0.5	N. N. W.	0.5	1
—	—	—	—	—	—	—	—	—	—	—	—	2
S.	0.2	S. E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	3
E. by N.	1.0	E. by N.	1.0	E. by N.	1.0	E. N. E.	0.5	E. N. E.	0.2	E. by N.	0.5	4
—	0.0	E. S. E.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.5	E. by S.	0.5	5
N. W.	0.5	S. W.	0.5	S. W.	0.5	S. W.	0.5	W.	0.5	W. by N.	1.0	6
S. W.	0.5	S.	0.5	S. by E.	1.0	S.	2.0	S.	0.5	S.	0.5	7
S. W. by W.	0.5	S. W. by W.	2.0	S. W.	1.0	S. W.	1.0	S. W.	1.0	N. W. by W.	2.0	8
—	—	—	—	—	—	—	—	—	—	—	—	9
N. N. W.	1.0	N. N. W.	1.0	N. N. W.	0.5	N. N. W.	0.5	N. by W.	0.5	N. N. W.	0.5	10
S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	S. by W.	0.2	11
—	0.0	S.	0.2	—	0.0	S.	0.2	S. E. by S.	0.2	—	0.0	12
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13
—	—	—	—	—	—	—	—	—	—	—	—	14
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
—	—	—	—	—	—	—	—	—	—	—	—	16
E.	0.5	E.	0.5	E.	0.5	E.	0.5	E. N. E.	0.5	E.	0.5	17
E. N. E.	1.0	N. E.	2.0	E. N. E.	2.0	E. N. E.	2.0	E. N. E.	1.0	—	0.0	18
E. N. E.	0.5	E. by N.	0.5	E. by N.	0.5	E. N. E.	0.2	E. N. E.	0.5	E. N. E.	0.5	19
S.	0.5	S.	0.5	S.	0.2	S.	0.2	S.	0.2	S.	0.2	20
—	0.0	—	0.0	E.	0.2	E.	0.2	E.	0.2	E.	0.2	21
E. N. E.	1.0	N. E. by N.	2.0	N. E. by E.	1.0	N. E. by E.	2.0	E. N. E.	1.0	E. N. E.	1.0	22
—	—	—	—	—	—	—	—	—	—	—	—	23
N. W.	1.0	N. W.	0.5	N. W.	0.2	W.	0.2	W.	0.2	W.	0.2	24
E.	1.0	E.	1.0	E.	1.0	E. S. E.	1.0	E. S. E.	0.5	E. by S.	0.5	25
—	0.0	—	0.0	—	0.0	S. W.	0.2	—	0.0	—	0.0	26
N. by W.	1.0	N. N. W.	0.5	N. N. W.	1.0	N. N. W.	1.0	N. N. W.	2.0	N. N. W.	0.5	27
S. W. by W.	1.0	S. W. by W.	2.0	S. W.	2.0	S. W.	2.0	W.	1.0	N. W.	0.5	28
E.	1.0	E. by S.	1.0	E. S. E.	1.0	E. by S.	1.0	E. by S.	1.0	E. by S.	1.0	29
—	—	—	—	—	—	—	—	—	—	—	—	30

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		Mean Göttingen Time.
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	—	—	—	—	—	—	—	—	—	—	—	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	2
—	0.0	—	0.0	N. E.	0.2	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	3
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	5
N. W.	0.5	N. W.	0.5	W. N. W.	0.5	W. N. W.	0.5	N. W.	0.5	—	0.0	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
—	—	—	—	—	—	—	—	—	—	—	—	8
N. W.	2.0	N. W.	2.0	N. W.	2.0	N. N. W.	2.0	N. N. W.	2.0	N. W.	0.5	9
N. W.	0.5	—	0.0	—	0.0	—	0.0	N. W.	0.2	—	0.0	10
—	0.0	—	0.0	S. S. W.	0.2	—	0.0	—	0.0	—	0.0	11
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12
—	—	—	—	—	—	—	—	—	—	—	—	13
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14
—	—	—	—	—	—	—	—	—	—	—	—	15
N. by W.	2.0	N. by W.	1.0	N. by W.	0.5	N. by W.	0.2	N. by E.	0.5	E. N. E.	0.5	16
E. N. E.	0.5	E. N. E.	1.0	E. N. E.	1.0	E. N. E.	1.0	E.	2.0	E.	7.0	17
E. by N.	1.0	E. N. E.	2.0	E. N. E.	1.0	E.	1.0	N. E. by E.	1.0	N. E. by E.	1.0	18
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20
—	—	—	—	—	—	—	—	—	—	—	—	21
—	—	—	—	—	—	—	—	—	—	—	—	22
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23
N.	0.5	N.	0.5	N.	0.5	—	0.0	—	0.0	—	0.0	24
E.	0.5	E.	0.5	E.	0.5	E.	0.5	E.	0.5	S. W.	0.2	25
—	0.0	N. W.	0.5	N. W.	0.5	N. W.	0.5	N. N. W.	0.5	N. by W.	0.2	26
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	27
N.	0.2	N.	0.2	N.	0.2	—	0.0	—	0.0	E.	0.5	28
—	—	—	—	—	—	—	—	—	—	—	—	29
—	0.0	—	0.0	—	0.0	W.	0.2	W.	0.2	—	0.0	30

APRIL.

APRIL.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
MAY.		lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
	1	—	0·0	S. W.	0·5	S. W. by S.	0·5	S. W. by S.	0·5	S. W. by S.	0·5	S. W.	0·5
	2	—	0·0	—	0·0	—	0·0	S. W.	0·2	S. S. W.	0·5	S. W.	0·5
	3	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	E.	0·5
	4	—	0·0	—	0·0	—	0·0	N. W. by N.	1·0	N. N. W.	1·0	N. by W.	2·0
	5	E. N. E.	0·5	E. N. E.	0·5	E. N. E.	2·0	E. by N.	2·0	E. N. E.	2·0	E.	2·0
	6	N. N. E.	7·0	E. N. E.	2·0	E. N. E.	2·0	N. E.	2·0	E. N. E.	1·0	N. by E.	1·0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	0·0	—	0·0	W.	0·5	W.	0·5	W.	0·5	W.	0·5
	9	—	0·0	—	0·0	—	0·0	S. E.	0·2	S. E.	0·2	S. E.	0·2
	10	E. N. E.	2·0	E. N. E.	2·0	E. N. E.	7·0	E. N. E.	7·0	E. N. E.	7·0	E. by N.	2·0
	11	N. E.	0·2	N. E.	0·2	—	0·0	E. N. E.	0·2	E.	0·2	S. E.	0·2
	12	—	0·0	N. E. by N.	0·2	N. E. by N.	0·2	S. by E.	0·2	S.	0·2	S.	0·2
	13	—	0·0	—	0·0	S.	0·5	S.	0·5	—	0·0	S.	0·2
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·2	S. by W.	1·0
	16	W. by S.	0·5	W. by S.	1·0	W. by S.	2·0	W. by S.	2·0	W. by S.	2·0	W. by S.	2·0
	17	N. W. by N.	0·5	N. W. by N.	0·5	N. W.	0·5	N. W.	0·5	W. S. W.	0·5	S. W.	0·5
	18	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. by E.	0·5
	19	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·5	E. S. E.	0·5
	20	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. S. E.	0·5
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	23	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. by E.	0·5
	24	N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W. by W.	1·0	N. W. by W.	0·5
	25	—	0·0	—	0·0	—	0·0	E. S. E.	0·5	S. E.	0·5	S. E.	0·5
	26	E. by N.	0·5	E. by N.	0·5	E. by N.	0·5	E. by S.	1·0	E.	1·0	E. by S.	1·0
	27	S. W.	1·0	S. W.	1·0	S. W.	0·5	W. S. W.	1·0	W. S. W.	0·5	W. S. W.	1·0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	0·0	—	0·0	E.	0·5	E. by S.	0·5	S. E.	0·5	S. E.	0·5
	30	—	0·0	—	0·0	—	0·0	S. E.	0·5	S. E.	0·5	S. E.	0·5
31	N.	0·0	N.	1·0	N. N. E.	0·5	N. by W.	0·5	N. by W.	0·5	N. N. W.	1·0	
MAY.													
	1	S. W. by S.	0·5	S. W. by S.	1·0	S. W. by S.	2·0	S. W. by S.	1·0	S. W.	0·5	W. by S.	1·0
	2	S. W.	0·5	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	3	E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	4	N. by W.	0·5	N. by W.	0·5	N. by W.	0·5	N. by W.	0·5	—	0·0	N.	0·5
	5	E.	0·5	E.	0·5	E.	0·5	E.	0·5	E.	0·5	E.	2·0
	6	E. by N.	1·0	E.	0·5	E.	0·5	E.	0·2	E.	0·5	E.	0·5
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	N. N. W.	0·2	N. N. W.	0·5	N.	0·2	N.	0·2	—	0·0	—	0·0
	9	—	0·0	—	0·0	—	0·0	N. W.	0·2	N.	0·2	N. E.	0·2
	10	S. E.	0·5	S. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	11	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	12	S. S. E.	0·5	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	13	S.	0·5	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	W. S. W.	7·0	W. N. W.	2·0	W. by N.	2·0	W. by N.	2·0	W. by N.	2·0	W. by N.	2·0
	16	N. N. W.	2·0	N. N. W.	2·0	N.	2·0	N.	2·0	N. by W.	2·0	N. by W.	0·5
	17	N. N. E.	0·2	N.	0·2	N.	0·2	—	0·0	—	0·0	—	0·0
	18	S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	19	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	20	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	23	N. W.	2·0	N. W.	0·5	N. W.	0·2	—	0·0	—	0·0	—	0·0
	24	N. N. E.	0·5	N. by E.	0·5	N. by E.	0·5	N.	0·2	N.	0·2	N.	0·2
	25	E. by S.	0·2	E.	0·2	—	0·0	—	0·0	—	0·0	E. by S.	0·5
	26	E.	0·5	E.	0·2	E.	0·2	—	0·0	—	0·0	—	0·0
	27	W. N. W.	0·5	W. N. W.	0·2	N. W.	0·5	N. W.	0·2	N. W.	0·2	—	0·0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	30	N. N. E.	1·0	N. W.	0·2	N. W.	0·2	N. N. W.	0·2	N. N. W.	0·5	N.	0·5
31	N.	0·5	N.	0·5	N.	0·5	N.	0·5	N. N. W.	0·5	N. N. W.	1·0	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
S. W.	0.5	S. W.	2.0	W. by S.	0.5	W. by S.	1.0	S. W.	1.0	S. W. by S.	0.5	1	
S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	2	
E. by S.	0.5	E. by S.	0.5	E. by S.	0.5	E.	0.5	E.	0.5	E.	0.2	3	
N. by E.	2.0	N. by W.	2.0	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	4	
E. by N.	2.0	E.	1.0	E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E.	0.5	5	
E. N. E.	1.0	E. N. E.	1.0	N. E. by E.	0.5	N. E. by E.	0.5	N. E. by E.	0.5	E.	1.0	6	
—	—	—	—	—	—	—	—	—	—	—	—	7	
W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.2	S. W.	0.2	W. N. W.	0.2	N. N. W.	0.2	8	
S. E. by E.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2	—	0.0	9	
E. by N.	2.0	E. by N.	2.0	E. N. E.	1.0	E. N. E.	1.0	E. N. E.	1.0	E. N. E.	1.0	10	
S. E.	0.2	S. E.	0.2	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.2	—	0.0	11	
S.	0.2	S.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	S. S. E.	0.5	12	
S.	0.2	S.	0.2	S.	0.2	S. E.	0.2	—	0.0	S.	0.5	13	
—	—	—	—	—	—	—	—	—	—	—	—	14	
S. W.	2.0	S. W.	2.0	S. W.	2.0	S. W.	2.0	W. S. W.	2.0	W. S. W.	7.0	15	
W. S. W.	2.0	W. by S.	2.0	W.	2.0	W. N. W.	2.0	W. by N.	2.0	W. N. W.	2.0	16	
N. by W.	0.5	S.	0.5	S. by W.	0.5	S. by W.	0.5	S.	0.5	S.	0.2	17	
S. by E.	0.5	S.	0.5	S.	0.5	S.	0.5	S.	0.5	S.	0.5	18	
E. by S.	0.5	S. E.	0.5	S. E.	0.5	S. E. by E.	0.5	S. E. by E.	0.5	—	0.0	19	
S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	20	
—	—	—	—	—	—	—	—	—	—	—	—	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22	
S. by E.	0.5	S. by E.	0.5	S. W.	1.0	W. by N.	1.0	W. N. W.	2.0	W. N. W.	2.0	23	
S. W. by S.	0.5	S. W. by S.	0.5	S. W.	0.5	S. W.	0.5	W. by S.	1.0	N. E. by N.	0.5	24	
S. E.	0.5	S. E.	0.5	S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	25	
E.	1.0	N. E.	0.5	—	0.0	E. by N.	0.5	E.	0.5	E.	0.5	26	
W. S. W.	0.5	S. W.	1.0	W. S. W.	1.0	W. S. W.	1.0	W.	1.0	W.	0.5	27	
—	—	—	—	—	—	—	—	—	—	—	—	28	
S. E.	0.5	S. E.	0.5	S. E.	0.5	S. E.	0.2	S. E.	0.2	—	0.0	29	
N. E.	0.5	N. by E.	0.5	N. N. E.	1.0	N. N. E.	1.0	N. N. E.	1.0	N. N. E.	1.0	30	
N. N. W.	0.5	N.	0.5	N.	0.5	N. N. W.	0.5	N. by W.	0.5	N.	0.5	31	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
W.	1.0	W. S. W.	0.5	W. S. W.	0.5	W.	0.5	W.	0.5	—	0.0	1	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	2	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3	
N.	0.5	N.	0.5	N.	0.5	N.	0.5	N.	0.5	N. E. by E.	0.5	4	
E. by N.	2.0	N. N. E.	2.0	N. N. E.	2.0	N. N. E.	2.0	N. E.	2.0	N. by E.	7.0	5	
—	—	—	—	—	—	—	—	—	—	—	—	6	
W.	0.2	W.	0.2	W.	0.2	—	0.0	—	0.0	—	0.0	7	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	8	
E. N. E.	0.2	—	0.0	N. E.	0.5	E. N. E.	0.5	E. N. E.	1.0	E. N. E.	1.0	9	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12	
—	—	—	—	—	—	—	—	—	—	—	—	13	
N. W.	0.2	—	0.0	S. E.	0.2	S. E.	0.2	S. S. E.	0.2	—	0.0	14	
W. by N.	1.0	W. by N.	1.0	W. by N.	1.0	W. S. W.	1.0	W. S. W.	1.0	W. by S.	1.0	15	
N. N. W.	0.5	N. N. W.	0.2	N. N. W.	0.5	N. N. W.	0.5	N. W. by N.	0.5	N. W. by N.	0.5	16	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19	
—	—	—	—	—	—	—	—	—	—	—	—	20	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22	
—	0.0	—	0.0	—	0.0	N. W.	0.2	N. W.	0.5	N. W.	0.5	23	
N.	0.5	—	0.0	—	0.0	—	0.0	N.	0.2	—	0.0	24	
E.	1.0	E.	2.0	E.	2.0	E.	2.0	E. N. E.	1.0	E. by N.	0.5	25	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. W.	0.5	26	
—	—	—	—	—	—	—	—	—	—	—	—	27	
N. N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5	—	0.0	28	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	29	
N.	0.5	N.	0.5	N.	0.2	N. by E.	0.2	N. N. E.	0.2	N. N. E.	0.5	30	
N. N. W.	1.0	N. N. W.	0.5	N. N. W.	2.0	N.	2.0	N. by W.	0.5	N. by W.	0.5	31	

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
JUNE.	1	N. by W.	0.5	N. by W.	1.0	N. by W.	1.0	N. N. W.	1.0	N. by W.	1.0	N. W.	1.0
	2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	3	—	0.0	—	0.0	N. by E.	1.0	N. by E.	2.0	N.	2.0	N. by W.	2.0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	N. N. E.	0.2	E. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	N. E.	0.2
	6	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	7	—	0.0	—	0.0	—	0.0	S. by E.	0.2	S. by E.	0.2	S. by E.	0.5
	8	—	0.0	E. by N.	0.5	E. by N.	0.5	E.	1.0	E.	0.2	E. by N.	0.2
	9	—	0.0	—	0.0	—	0.0	—	0.0	S. W. by W.	0.2	S. W.	0.2
	10	N. by W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	13	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. by E.	0.5
	14	S. W.	0.5	S. W.	0.5	S. W.	0.5	S. W.	1.0	W. S. W.	1.0	W. S. W.	1.0
	15	—	0.0	—	0.0	—	0.0	S. W.	0.5	S. W. by S.	0.5	S. W. by S.	0.5
	16	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	17	N. by W.	0.5	N. by W.	0.5	N.	0.5	N. N. E.	1.0	E.	0.2	S. E. by S.	0.2
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	—	0.0	—	0.0	—	0.0	—	0.0	E. S. E.	0.2	E. S. E.	0.2
	20	—	0.0	—	0.0	—	0.0	—	0.0	E. S. E.	0.2	S. E.	0.2
	21	—	0.0	—	0.0	—	0.0	S.	0.2	S.	0.2	S.	0.2
	22	—	0.0	S.	0.2	S.	0.2	S.	0.5	S.	0.5	S.	0.5
	23	S.	0.2	S.	0.2	S.	0.2	S.	1.0	S.	1.0	S.	1.0
	24	—	0.0	—	0.0	—	0.0	—	0.0	S.	0.2	S.	1.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	—	0.0	—	0.0	—	0.0	S.	0.2	—	0.0	—	0.0
	27	—	0.0	—	0.0	—	0.0	—	0.0	S. by E.	0.2	S. by E.	0.2
	28	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	29	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	E. S. E.	0.2
	30	—	0.0	N. N. W.	0.2	—	0.0	W. by S.	0.2	S. W.	0.2	W. S. W.	0.2
JUNE.	1	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	2	E.	1.0	E.	1.0	E.	1.0	E.	1.0	E.	1.0	E.	1.0
	3	N.	0.5	N.	0.2	N.	0.2	—	0.0	—	0.0	—	0.0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	N. E.	0.5	N. E.	0.2	N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5
	6	S.	0.2	S. W.	0.2	S. W.	0.2	—	0.0	—	0.0	—	0.0
	7	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	8	E.	1.0	E.	0.5	E.	0.5	E. by S.	0.2	E. by S.	0.2	E. by S.	0.5
	9	N.	1.0	N.	0.5	N.	0.5	N.	1.0	N.	1.0	N. by W.	0.5
	10	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	E. S. E.	0.2	E. S. E.	0.5	E.	0.2	E.	0.2	—	0.0	—	0.0
	13	S. S. W.	0.5	—	0.0	W. S. W.	2.0	W. S. W.	0.5	—	0.0	—	0.0
	14	W. N. W.	1.0	W. by N.	0.5	W. by N.	0.5	W. N. W.	1.0	W. N. W.	1.0	W. N. W.	1.0
	15	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	16	S. S. W.	0.2	N. N. W.	0.5	—	0.0	N. N. W.	0.5	N.	1.0	N.	1.0
	17	S. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	N	0.2
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	20	S.	1.0	S.	0.2	S.	0.2	S. E.	0.2	S.	0.2	—	0.0
	21	S.	0.5	S.	0.5	S.	0.2	—	0.0	—	0.0	—	0.0
	22	S.	0.5	S.	0.2	S.	0.2	S.	0.2	—	0.0	—	0.0
	23	S. by E.	0.2	S. by E.	1.0	S. by E.	0.5	—	0.0	—	0.0	—	0.0
	24	W. N. W.	0.5	W. N. W.	0.2	—	0.0	—	0.0	N. W.	0.2	—	0.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	S. by E.	0.5	S. by E.	0.5	S. by E.	0.2	—	0.0	—	0.0	—	0.0
	27	S. by W.	1.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	28	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	29	N. N. W.	1.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	30	S. S. W.	0.5	—	0.2	—	0.0	—	0.0	—	0.0	—	0.0



DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
JULY.	1	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	N. W.	0·2	—	0·0	W.	0·5	S. W.	0·5	S. W.	0·5	S. S. W.	0·5
	4	—	0·0	—	0·0	W. S. W.	0·5	W. S. W.	0·5	W. S. W.	0·5	S. W. by S.	2·0
	5	N. N. W.	0·5	N. by E.	0·5	N. by E.	0·5	N.	0·5	E. S. E.	0·5	S. S. E.	1·0
	6	—	0·0	—	0·0	S.	0·2	S. S. W.	0·2	S. S. W.	0·2	S. S. W.	1·0
	7	—	0·0	—	0·0	—	0·0	S.	0·2	S. by W.	0·5	W. N. W.	2·0
	8	—	0·0	N. W.	0·5	W. N. W.	0·5	W.	1·0	W.	2·0	W.	2·0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	0·0	—	0·0	N. E.	0·2	N. E.	0·2	S. W.	0·2	S. W.	0·2
	11	—	0·0	—	0·0	—	0·0	E. by S.	0·2	—	0·0	S.	0·5
	12	—	0·0	—	0·0	—	0·0	—	0·0	N. E.	0·2	E. by S.	0·2
	13	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·2	S. E.	0·2
	14	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2
	15	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	18	—	0·0	W. N. W.	0·5	W. N. W.	0·5	W. N. W.	0·5	S. W. by W.	0·5	S. W.	1·0
	19	N.	0·5	N.	1·0	N.	2·0	N.	1·0	N.	1·0	N. by W.	1·0
	20	—	0·0	N. by E.	0·2	N.	0·2	N.	0·2	N.	0·2	S. E.	0·5
	21	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·5
	22	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·5
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	—	0·0	—	0·0	W.	0·5	S. by W.	0·5	N. W.	0·5	N. N. W.	0·5
	25	—	0·0	—	0·0	—	0·0	S. W.	0·2	S. W.	0·5	S. W.	0·5
	26	—	0·0	—	0·0	S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·2
	27	—	0·0	—	0·0	—	0·0	S. E.	0·2	E. S. E.	0·2	E. S. E.	0·2
	28	—	0·0	—	0·0	—	0·0	E.	0·2	S. E. by E.	0·2	S. E. by E.	0·2
	29	W. N. W.	0·5	N. W.	0·5	N. W.	1·0	N. W.	0·5	N. by W.	0·5	N. by W.	0·5
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	—	0·0	—	0·0	—	0·0	—	0·0	W.	0·2	S. W.	0·5
JULY.	1	S. S. W.	0·5	S. S. W.	1·0	S. S. W.	1·0	S. S. W.	0·5	—	0·0	—	0·0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	S. W. by W.	0·5	S. W. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	4	—	0·0	N.	1·0	N.	0·5	N.	1·0	N. N. W.	1·0	N. N. W.	1·0
	5	S. by E.	0·5	S. by E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	6	S. S. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	7	N. W.	3·0	N. W.	1·0	N. W. by W.	0·5	N. W.	2·0	N. W. by W.	0·5	—	0·0
	8	N. W.	3·0	N. W.	0·5	N. W.	0·5	N. W.	0·2	—	0·0	—	0·0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	N.	1·0	N. W.	1·0	N. W.	1·0	N. W.	1·0	N.	0·5	N.	0·5
	11	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	12	S. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	13	S. E.	0·5	E. S. E.	0·2	E.	0·2	E.	0·5	E.	0·2	—	0·0
	14	E.	0·2	N. N. E.	0·5	—	0·0	—	0·0	—	0·0	—	0·0
	15	S.	0·2	S.	0·2	S.	0·2	—	0·0	—	0·0	—	0·0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	W. N. W.	1·0	—	0·0	W. N. W.	0·2	—	0·0	—	0·0	—	0·0
	18	W.	2·0	—	0·0	N. W.	0·2	W.	0·2	W.	0·2	—	0·0
	19	N. by E.	0·5	N.	0·2	N.	0·5	N.	0·5	N.	0·5	N.	1·0
	20	S.	0·2	S.	0·2	S.	0·2	—	0·0	—	0·0	—	0·0
	21	S.	1·0	S.	1·0	S.	0·2	S.	0·2	—	0·0	—	0·0
	22	S. by E.	1·0	S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	N. N. W.	0·5	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·5	N. N. W.	0·2	N. N. W.	0·5
	25	S. W.	0·5	S. W.	0·2	S. W.	0·2	—	0·0	—	0·0	—	0·0
	26	N.	2·0	N. W.	0·5	S. W.	1·0	—	0·0	—	0·0	—	0·0
	27	E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	E.	0·2
	28	W. S. W.	2·0	S. W.	0·2	S. W.	0·2	S. W.	0·2	—	0·0	—	0·0
	29	N. by W.	0·2	N. by W.	0·2	N. by W.	0·2	N. W.	0·2	N. W.	0·2	N. W.	0·2
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	—	0·0	—	0·0	S. W.	0·2	S. W.	0·2	—	0·0	—	0·0

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
S.	0.2	S.	0.2	S.	0.2	S.	0.5	S.	1.0	S. S. W.	1.0	1	
—	—	—	—	—	—	—	—	—	—	—	—	2	
S. W.	0.5	S. S. W.	0.5	S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	3	
S. W. by S.	2.0	S. W.	2.0	S. W.	2.0	S. W.	2.0	S. W.	0.5	S. W.	0.5	4	
S. S. E.	1.0	S. S. E.	1.0	S. by E.	0.5	S. by E.	0.5	S. by E.	0.5	S. by E.	0.5	5	
S. S. W.	0.5	S. S. W.	0.5	S. S. W.	1.0	S. S. W.	1.0	S. S. W.	1.0	S. S. W.	0.5	6	
W. N. W.	10.0	W. N. W.	7.0	W. N. W.	7.0	W. N. W.	3.0	W. N. W.	3.0	W. N. W.	3.0	7	
W. N. W.	10.0	N. W.	2.0	N. W. by W.	2.0	W. by N.	2.0	W. N. W.	3.0	N. W.	3.0	8	
—	—	—	—	—	—	—	—	—	—	—	—	9	
S. W.	0.2	S. S. W.	0.5	S. S. W.	2.0	S. S. W.	2.0	S. S. W.	2.0	N.	2.0	10	
S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	—	0.0	11	
E. S. E.	0.2	E. S. E.	0.2	S. E.	0.2	S. E. by E.	0.2	S. E.	0.2	S. E.	0.2	12	
S. E.	0.2	S. E.	0.5	S. E.	0.5	S. E.	0.5	S. E.	0.5	S. E.	0.5	13	
S.	0.2	S.	0.2	S.	0.2	S.	0.2	E.	0.2	E.	0.2	14	
N. N. E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E.	0.2	S. E.	0.2	15	
—	—	—	—	—	—	—	—	—	—	—	—	16	
S. W.	0.5	S. W.	0.5	S. W.	0.5	—	0.0	S. W.	2.0	S. W.	0.5	17	
S. W.	1.0	S. W.	1.0	S. W. by W.	2.0	S. W. by W.	2.0	S. W. by W.	2.0	W.	2.0	18	
N.	1.0	N.	1.0	N.	1.0	N.	0.5	N. by E.	1.0	N. N. E.	0.5	19	
S. E.	1.0	S.	2.0	S.	1.0	S.	1.0	S.	0.5	S.	0.5	20	
S.	0.5	S.	2.0	S.	2.0	S.	2.0	S.	1.0	S.	1.0	21	
S.	0.5	S.	1.0	S.	1.0	S.	1.0	S by E.	1.0	S. by E.	1.0	22	
—	—	—	—	—	—	—	—	—	—	—	—	23	
N. N. W.	0.5	N. N. W.	0.5	N. N. W.	1.0	N. N. W.	1.0	N. N. W.	1.0	N. N. W.	1.0	24	
S. W.	0.5	S. W.	0.5	S. W.	0.5	S. W.	0.5	S. S. W.	0.5	S. W.	0.2	25	
S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.5	S.	1.0	S. by W.	2.0	S. by W.	2.0	26	
E.	0.2	E. by S.	0.5	E.	1.0	E. by S.	1.0	E. by N.	0.5	E.	0.5	27	
S. E.	0.5	S. S. W.	1.0	S. S. W.	2.0	S. S. W.	2.0	S. W.	2.0	S. W.	2.0	28	
N. N. W.	0.5	N. N. W.	0.5	N. by W.	0.5	N.	0.2	N. by W.	0.2	N. by W.	0.2	29	
—	—	—	—	—	—	—	—	—	—	—	—	30	
S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	31	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	—	—	—	—	—	—	—	—	—	—	—	1	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	2	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3	
N. N. W.	0.5	N. W.	0.5	—	0.0	—	0.0	—	0.0	N. W. by N.	0.5	4	
—	0.0	—	0.0	—	0.0	N.	0.2	—	0.0	—	0.0	5	
—	0.0	—	0.0	—	0.0	—	0.0	S. S. W.	0.5	—	0.0	6	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7	
—	—	—	—	—	—	—	—	—	—	—	—	8	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9	
N.	0.5	N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11	
—	0.0	—	0.0	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.2	—	0.0	12	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13	
—	0.0	—	0.0	—	0.0	N.	0.2	—	0.0	—	0.0	14	
—	—	—	—	—	—	—	—	—	—	—	—	15	
—	0.0	N. E.	0.2	N.	0.5	N.	0.5	—	0.0	E.	0.5	16	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. N. W.	0.5	18	
N.	0.5	—	0.0	—	0.0	—	0.0	N. N. W.	0.2	N. N. W.	0.2	19	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21	
—	—	—	—	—	—	—	—	—	—	—	—	22	
—	0.0	—	0.0	—	0.0	W.	0.2	—	0.0	—	0.0	23	
N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.5	—	0.0	—	0.0	N.	0.2	24	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	25	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	26	
E. N. E.	0.2	E. N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	27	
—	0.0	—	0.0	N. W.	0.5	N. W.	0.5	N. W.	0.5	W. by N.	0.5	28	
—	—	—	—	—	—	—	—	—	—	—	—	29	
S. by E.	0.2	S. by E.	0.2	—	0.0	S. by E.	0.2	S. by E.	0.2	—	0.0	30	
—	0.0	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	—	0.0	31	



DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
AUGUST.	1	—	0·0	—	0·0	—	0·0	S. S. E.	0·5	E. S. E.	0·5	E. S. E.	0·2
	2	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·5	S. E. by S.	0·2
	3	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. S. E.	0·2
	4	—	0·0	—	0·0	—	0·0	E.	0·2	E. S. E.	0·2	E. by S.	0·2
	5	—	0·0	—	0·0	—	0·0	E. by N.	0·2	—	0·0	—	0·0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	8	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	9	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2
	10	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	11	N. N. E.	0·5	N. N. E.	0·5	N. N. E.	0·5	N. by E.	0·5	N. by E.	0·2	S. E.	0·2
	12	—	0·0	S. E. by S.	0·2	N. by W.	0·2	N. by W.	0·2	N. by W.	0·2	N. N. W.	0·2
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	15	—	0·0	—	0·0	N. W.	0·2	W. by N.	0·2	W. by N.	0·2	—	0·0
	16	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. W.	0·2
	17	—	0·0	—	0·0	—	0·0	S.	0·2	S.	0·2	S.	0·2
	18	—	0·0	—	0·0	—	0·0	—	0·0	S. W. by S.	0·2	—	0·0
	19	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	W. by S.	0·2
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	—	0·0	E.	0·2	E.	0·2	E.	0·2	E.	0·5	E. by S.	0·5
	22	—	0·0	E. by N.	0·2	E. by N.	0·2	N. E. by E.	0·2	N. E. by E.	0·2	E. S. E.	0·2
	23	—	0·0	—	0·0	—	0·0	E. N. E.	0·2	N. E. by N.	0·2	S. E.	0·2
	24	—	0·0	—	0·0	—	0·0	—	0·0	S. S. E.	0·2	S. S. E.	0·2
	25	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. S. E.	0·2
	26	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	—	0·0	—	0·0	—	0·0	—	0·0	N. by W.	0·2	N. E.	0·2
	29	—	0·0	—	0·0	—	0·0	N. E.	0·2	E. N. E.	0·2	E. N. E.	0·2
	30	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	31	—	0·0	—	0·0	—	0·0	W. N. W.	0·2	W. N. W.	0·2	W. S. W.	0·5
AUGUST.	1	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	2	S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	3	—	0·0	—	0·0	—	0·0	S. by E.	0·2	S. by E.	0·2	S. S. E.	0·2
	4	E. by N.	0·5	—	0·0	E. by N.	0·2	E. by N.	0·2	E. by N.	0·2	—	0·0
	5	E. N. E.	0·2	E. N. E.	0·2	E. by N.	0·2	—	0·0	—	0·0	—	0·0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	8	—	0·0	—	0·0	—	0·0	S.	0·2	S.	0·2	—	0·0
	9	—	0·0	—	0·0	—	0·0	S.	0·2	—	0·0	S.	0·2
	10	E. N. E.	0·2	—	0·0	E. N. E.	0·2	E. N. E.	0·2	E. N. E.	0·2	E. N. E.	0·2
	11	—	0·0	—	0·0	N. E.	0·2	N. E.	0·2	—	0·0	—	0·0
	12	—	0·0	—	0·0	S. by W.	0·2	—	0·0	—	0·0	—	0·0
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	N. W. by N.	0·5	N. W. by N.	0·2	W. by N.	0·2	—	0·0	W. by N.	0·2	W. by N.	0·5
	15	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	16	S. S. E.	0·5	S. by E.	0·5	—	0·0	—	0·0	—	0·0	—	0·0
	17	S. W. by S.	0·2	S. W. by S.	0·2	S. W. by S.	0·2	S. W. by S.	0·2	—	0·0	—	0·0
	18	—	0·0	N. by W.	0·5	N. N. W.	1·0	N. N. W.	0·5	N. N. W.	1·0	N. N. W.	1·0
	19	—	0·0	S. by W.	0·2	—	0·0	—	0·0	W. N. W.	0·2	N. N. W.	0·2
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	22	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	23	E.	0·2	—	0·0	S. E.	0·2	—	0·0	S. S. E.	0·5	S. S. E.	0·5
	24	—	0·0	—	0·0	—	0·0	S. by E.	0·2	—	0·0	—	0·0
	25	E. by S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	26	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	29	E. S. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	30	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	31	S. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
S. E. by E.	0.2	S.	0.2	S. E.	0.2	S. E.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	1
S.	0.2	S. S. E.	0.5	S. S. E.	0.2	S. S. E.	0.2	S.	0.2	S.	0.2	2
S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	3
E.	0.2	E. by S.	0.5	E. S. E.	0.5	E. by S.	0.5	E.	0.2	E. by N.	0.5	4
E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	E.	0.2	E.	0.5	E.	0.5	5
—	—	—	—	—	—	—	—	—	—	—	—	6
S. S. E.	0.2	S. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	7
S.	0.2	S.	0.5	S.	0.5	S.	0.2	S.	0.2	—	0.0	8
S.	0.2	S.	0.5	S.	0.2	S.	0.2	S.	0.2	S.	0.2	9
S.	0.2	S.	0.2	S.	0.2	S.	0.2	S. S. E.	0.5	E. by N.	0.2	10
S. E.	0.2	S. E.	0.2	S. E. by S.	0.5	S. E. by S.	0.5	S. E. by S.	0.2	S.	0.2	11
N. N. W.	0.2	S. W.	0.5	S. W. by S.	0.5	S. W. by S.	0.5	S. W. by S.	0.5	S. W. by S.	0.5	12
—	—	—	—	—	—	—	—	—	—	—	—	13
—	0.0	W. S. W.	0.2	W. S. W.	0.5	N. N. W.	0.5	N. W. by N.	0.5	N. W. by N.	1.0	14
W. N. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	S. W. by W.	0.2	S. W. by S.	0.2	—	0.0	15
S. S. W.	0.2	S. S. W.	0.2	S. S. E.	0.2	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.2	16
S.	0.2	S.	0.2	S. W. by S.	0.5	S. W. by S.	0.5	S. W. by S.	0.5	S. W. by S.	0.2	17
S. W. by S.	0.2	S. W. by S.	0.2	S. W. by S.	0.2	S. W. by S.	0.2	S. W. by S.	0.2	—	0.0	18
S. by W.	0.2	—	0.0	S. by W.	0.2	S. by W.	0.2	S. by W.	0.2	S. by W.	0.2	19
—	—	—	—	—	—	—	—	—	—	—	—	20
S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	21
E. S. E.	0.2	S. by E.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	S. E.	0.2	—	0.0	22
S. E. by S.	0.2	S. E. by S.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.2	S.	0.2	23
S. S. E.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2	S. by E.	0.2	24
—	0.0	S. S. E.	0.2	—	0.0	E. S. E.	0.2	E. by S.	0.5	E. by S.	0.5	25
S.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	—	0.0	26
—	—	—	—	—	—	—	—	—	—	—	—	27
E.	0.2	E. by S.	0.2	E. S. E.	0.2	S. E. by E.	0.2	—	0.0	—	0.0	28
E. by N.	0.2	E.	0.5	E.	0.2	E.	0.2	E.	0.2	E. S. E.	0.2	29
—	0.0	E. S. E.	0.0	S.	0.2	—	0.0	—	0.0	—	0.0	30
W. S. W.	0.5	W. S. W.	0.5	S. by W.	1.0	S. by W.	1.0	S. by W.	0.5	S. by W.	0.2	31

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	1
—	0.0	—	0.0	S. S. E.	0.2	—	0.0	—	0.0	—	0.0	2
S. S. E.	0.2	—	0.0	—	0.0	N. E.	0.2	—	0.0	S. S. E.	0.2	3
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4
—	—	—	—	—	—	—	—	—	—	—	—	5
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
S.	0.2	—	0.0	—	0.0	S.	0.2	—	0.0	—	0.0	8
S.	0.2	S.	0.2	S. by E.	0.2	—	0.0	—	0.0	—	0.0	9
N. E.	0.2	N. E.	0.5	N. E.	0.5	N. N. E.	1.0	N. N. E.	0.5	N. N. E.	0.5	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
—	—	—	—	—	—	—	—	—	—	—	—	12
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13
W. by N.	0.5	W. by N.	0.2	W. by N.	0.2	W. by N.	0.5	W. by N.	0.2	—	0.0	14
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	16
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18
—	—	—	—	—	—	—	—	—	—	—	—	19
—	0.0	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	—	0.0	20
—	0.0	—	0.0	—	0.0	—	0.0	E. N. E.	0.2	—	0.0	21
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22
S. S. E.	0.2	S. S. E.	0.2	—	0.0	—	0.0	S. S. E.	0.2	—	0.0	23
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	25
—	—	—	—	—	—	—	—	—	—	—	—	26
N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	27
E.	0.2	—	0.0	—	0.0	S. E. by E.	0.2	N. E. by E.	0.2	—	0.0	28
—	0.0	—	0.0	—	0.0	—	0.0	E. S. E.	0.2	—	0.0	29
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	30
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	31

AUGUST.

AUGUST.



DIRECTION AND FORCE OF THE WIND												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 October.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
S.	0.2	S.	0.2	S.	0.2	S.	0.2	—	0.0	S. E.	0.2	SEPTEMBER.	
S.	0.2	S. by W.	0.5	S.	0.2	S.	0.2	S.	0.2	—	0.0		
—	—	—	—	—	—	—	—	—	—	—	—		
W. by S.	0.2	S. S. W.	0.2	S. S. W.	0.2	W.	0.2	N. W.	0.2	N. by W.	0.5		
E. S. E.	1.0	E. S. E.	0.5	E. S. E.	0.5	E. by S.	0.5	E. by S.	0.5	E. by S.	0.2		
E. N. E.	0.2	E. by N.	0.2	E.	0.2	E. by N.	0.2	E. by N.	0.2	—	0.0		
E. by S.	1.0	E.	1.0	E.	2.0	E.	1.0	E.	1.0	E. by N.	0.5		
S. E. by S.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	S. W. by S.	0.5	W.	0.5	N. W.	2.0		
W. N. W.	1.0	N. W. by W.	1.0	W.	1.0	W. by N.	1.0	W. by N.	1.0	W. by N.	0.5		
—	—	—	—	—	—	—	—	—	—	—	—		
E. S. E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2		
E.	0.2	E.	0.2	E. by S.	0.5	E. by S.	0.5	E. S. E.	0.2	E. S. E.	0.2		
E.	7.0	E. by S.	7.0	E.	6.0	E. by S.	5.0	E.	3.0	E.	3.0		
E. S. E.	3.0	E. S. E.	3.0	E. S. E.	3.0	E. by S.	2.0	E.	2.0	E. by N.	2.0		
E. S. E.	0.5	S. S. E.	0.2	S. S. E.	0.2	S. by E.	0.5	S. by W.	1.0	S. S. W.	1.0		
S. W.	2.0	S. W.	2.0	S. S. W.	3.0	S. S. W.	3.0	S. S. W.	3.0	S. S. W.	3.0		
—	—	—	—	—	—	—	—	—	—	—	—		
N. N. E.	0.2	N. by E.	0.2	N. by E.	0.2	N. E. by N.	0.2	N. E. by N.	0.2	N. E. by N.	0.2		
E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.5	E. S. E.	0.2	E. S. E.	0.2	—	0.0		
—	0.0	—	0.0	E.	0.2	E.	0.2	E.	0.2	E.	0.2		
S. W.	2.0	W. by S.	5.0	W.	5.0	W.	5.0	W. by N.	5.0	N. N. W.	2.0		
E. by N.	0.2	E. N. E.	0.2	E. N. E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	E. N. E.	0.2		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		
—	—	—	—	—	—	—	—	—	—	—	—		
N. E. by E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	N. N. E.	0.2	N.	0.2		
N.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. by W.	0.5	N. by W.	0.5		
N. N. W.	0.2	N. W. by N.	0.2	N.	0.2	N. W. by N.	0.2	N. W. by N.	0.2	N. N. W.	0.2		
—	0.0	N. N. W.	0.2	N. N. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2		
S. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2		
S. by E.	0.2	E.	0.5	E. by N.	0.5	E. N. E.	0.5	E.	0.5	N. E. by E.	0.2		
—	—	—	—	—	—	—	—	—	—	—	—		
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		SEPTEMBER.	
S. by W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		
—	—	—	—	—	—	—	—	—	—	—	—		
W. S. W.	0.5	W. S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0		
N.	0.5	—	0.0	—	0.0	N.	0.2	N.	0.5	—	0.0		
—	0.0	—	0.0	E.	0.2	E. by N.	0.5	E. by N.	0.5	—	0.0		
E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.2		
—	0.0	—	0.0	—	0.0	—	0.0	E. by S.	0.2	—	0.0		
N. W.	1.0	N. W.	1.0	N. W.	1.0	N. W.	1.0	N. W.	1.0	N. W.	1.0		
—	—	—	—	—	—	—	—	—	—	—	—		
N. E. by E.	0.5	N. E. by E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	—	0.0		
N. E. by E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	—	0.0		
—	0.0	—	0.0	E. S. E.	0.2	E. by S.	0.5	E. by S.	0.2	E. by S.	0.2		
E. S. E.	1.0	E. S. E.	0.5	E. by S.	0.5	E. by S.	0.2	E.	0.0	—	0.0		
E. by S.	2.0	E.	2.0	E.	2.0	E.	2.0	E.	2.0	E.	2.0		
S. by W.	2.0	S. by W.	2.0	S. by W.	0.5	S. by W.	0.5	S. by W.	0.2	S. W. by S.	0.2		
—	—	—	—	—	—	—	—	—	—	—	—		
S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	—	0.0		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		
E. by N.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.5	—	0.0		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		
N.	0.2	—	0.0	—	0.0	N.	0.2	N.	0.2	—	0.0		
E. N. E.	0.2	E. N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0		
—	—	—	—	—	—	—	—	—	—	—	—		
N. E. by E.	0.5	N. E. by E.	0.2	—	0.0	—	0.0	N. E. by E.	0.2	—	0.0		
N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2		
N. by E.	0.5	N. by E.	0.5	N. by E.	0.2	N. by E.	0.2	N.	0.2	N. by E.	0.2		
N.	0.2	N. W. by N.	0.2	N. W. by N.	0.2	—	0.0	N. W. by N.	0.2	—	0.0		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		
—	—	—	—	—	—	—	—	—	—	—	—		
S. by W.	2.0	S. S. W.	5.0	S. S. W.	1.0	S. W. by S.	0.5	S. W.	0.2	S. W.	0.0		
—	—	—	—	—	—	—	—	—	—	—	—		

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	S. W.	0.2	S. W.	0.5	S. W.	0.5	S. W.	2.0	S. W.	2.0	S. W.	2.0
	3	—	0.0	—	0.0	S. W.	0.5	S. W. by S.	2.0	S. W.	3.0	S. W. by S.	5.0
	4	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.5	W. by N.	0.5	W. N. W.	0.5	W. by N.	0.5
	5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	6	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	7	—	0.0	—	0.0	—	0.0	E. by N.	0.2	E. N. E.	0.2	E. N. E.	0.5
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	10	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	11	—	0.0	—	0.0	—	0.0	S. by E.	0.2	—	0.0	—	0.0
	12	—	0.0	—	0.0	S. S. W.	0.2	N. W.	0.5	W. N. W.	0.5	W. N. W.	1.0
	13	—	0.0	N. W.	0.2	N. W.	0.2	N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2
	14	—	0.0	—	0.0	N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W.	0.2
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2
	17	S. W. by S.	0.5	S. W. by S.	0.5	S. W. by S.	0.5	S. W. by S.	1.0	S. W. by S.	2.0	S. W.	5.0
	18	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.5
	19	—	0.0	—	0.0	S. W. by S.	0.5	S. W. by W.	0.5	W.	0.5	W.	0.5
	20	—	0.0	—	0.0	—	0.0	—	0.0	S. W.	0.2	S. W.	0.5
	21	N. by E.	5.0	N.	2.0	N.	2.0	N.	2.0	N. by W.	1.0	N. by W.	1.0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. by W.	0.2
	24	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	25	—	0.0	—	0.0	—	0.0	S. S. W.	0.2	S. S. W.	0.2	S. W.	2.0
	26	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	27	N. E. by E.	2.0	N. E. by E.	2.0	N. E. by N.	5.0	N. E. by N.	5.0	N. E. by N.	2.0	N. E. by N.	1.0
	28	—	0.0	N. W. by W.	0.2	N. W. by W.	0.2	N. W. by W.	0.2	—	0.0	—	0.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	S. W.	1.0	S. W.	1.0	S. W.	0.2	—	0.0	S. W.	0.2	S. W.	0.5
	31	—	0.0	—	0.0	—	0.0	W.	0.2	W.	0.2	W.	0.2
OCTOBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	S. W.	0.2	S. W.	0.2	—	—	—	—	—	—	—	
	3	W. S. W.	0.5	W. S. W.	0.2	W. S. W.	0.2	W. by S.	0.2	W. by S.	0.2	W. by S.	0.2
	4	W. by N.	2.0	W. by N.	1.0	W. N. W.	0.5	—	0.0	—	0.0	—	0.0
	5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	
	6	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	
	7	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	W. by N.	0.5	W. by N.	0.5	W. by N.	0.2
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	10	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	11	—	0.0	—	0.0	—	0.0	S.	0.2	—	0.0	—	0.0
	12	N. W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	13	N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W.	0.2	—	0.0	—	0.0
	14	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. W. by S.	0.2
	17	S. W. by W.	1.0	S. W. by W.	2.0	S. W. by W.	2.0	S. W. by W.	2.0	S. W. by W.	1.0	S. W. by W.	1.0
	18	W. S. W.	0.2	—	0.0	—	0.0	S. W. by W.	0.2	—	0.0	—	0.0
	19	—	0.0	W. S. W.	0.2	W. S. W.	0.2	—	0.0	—	0.0	—	0.0
	20	S. W. by S.	2.0	S. W. by S.	0.5	S. W. by S.	2.0	S. W. by S.	1.0	S. W. by S.	2.0	S. W. by S.	3.0
	21	N. by W.	2.0	N. by W.	0.5	N. by W.	0.5	N. N. W.	0.2	N. N. W.	0.2	—	0.0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	—	0.0	—	0.0	—	0.0	S. S. W.	0.2	—	0.0	—	0.0
	24	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	25	W. N. W.	2.0	W. N. W.	1.0	W. N. W.	0.5	—	0.0	—	0.0	—	0.0
	26	—	0.0	S. E. by S.	0.5	S. E. by E.	1.0	S. E. by E.	1.0	S. E. by E.	1.0	S. E. by E.	1.0
	27	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	28	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.5	S. S. E.	1.0	S. S. E.	1.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	W. by N.	0.5	W. by N.	0.2	W. by N.	0.5	W. by N.	0.5	W.	0.5	W. by S.	0.5
	31	S. W. by W.	0.2	S. W. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	lbs.	—	lbs.	—	lbs.	—	bs.	—	lbs.	—	lbs.	1
S. W.	2.0	S. W.	3.0	S. W.	3.0	S. W.	3.0	S. W.	3.0	S. W.	0.2	2
W. S. W.	7.0	W. S. W.	7.0	W.	10.0	W. S. W.	7.0	W. S. W.	7.0	W. S. W.	5.0	3
W. S. W.	2.0	W. S. W.	2.0	W. S. W.	1.0	W.	2.0	W.	2.0	W. by N.	2.0	4
W. S. W.	0.2	S. W.	0.2	S. by W.	0.2	S. by W.	0.2	S.	0.2	—	0.0	5
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6
E. N. E.	0.5	N. E. by E.	1.0	E. N. E.	0.5	E. N. E.	0.2	E. N. E.	0.2	E. N. E.	0.2	7
—	—	—	—	—	—	—	—	—	—	—	—	8
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9
—	0.0	S.	0.2	S.	0.2	S.	0.2	—	0.0	—	0.0	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
S. W. by W.	1.0	W. by S.	1.0	W. N. W.	2.0	N. W.	2.0	N. W.	1.0	N. W.	1.0	12
N. E. by N.	0.2	N. E. by N.	0.2	N. N. E.	0.5	N. by W.	0.2	N. by W.	0.2	N. W.	0.2	13
N. W.	0.2	S. W. by W.	0.2	S. W.	0.2	S. W.	0.2	—	0.0	—	0.0	14
—	—	—	—	—	—	—	—	—	—	—	—	15
S. W. by S.	0.2	S. W. by S.	0.2	S. W. by S.	1.0	S. W. by S.	0.2	S. W. by S.	0.2	—	0.0	16
W. S. W.	5.0	W. S. W.	2.0	W. S. W.	2.0	S. W.	3.0	S. W.	2.0	S. W. by W.	2.0	17
S. W.	2.0	S. W.	1.0	S. W.	0.2	S. W. by W.	1.0	S. W. by W.	1.0	W. S. W.	0.5	18
W. S. W.	0.5	S. W. by S.	0.2	W. by S.	0.5	S. W.	0.5	S. W.	0.5	W. S. W.	0.2	19
S. W.	2.0	S. S. W.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	20
N. by W.	1.0	N. by W.	3.0	N. by W.	3.0	N.	2.0	N. by W.	1.0	N. by W.	1.0	21
—	—	—	—	—	—	—	—	—	—	—	—	22
S. by W.	0.2	S. S. W.	0.2	S. S. W.	0.5	S. by W.	0.2	S. by W.	0.2	—	0.0	23
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24
W. by N.	5.0	W. by N.	7.0	W. N. W.	7.0	W. N. W.	5.0	W. N. W.	3.0	W. N. W.	3.0	25
S. by E.	0.2	S.	0.2	S. by E.	0.2	S. by E.	0.2	S. S. E.	0.2	S. S. E.	0.2	26
N. E. by N.	0.2	N. E. by N.	0.2	N. E. by N.	0.2	—	0.0	—	0.0	—	0.0	27
—	0.0	—	0.0	S. W. by S.	0.2	S. W. by S.	0.2	S by E.	0.2	S. S. E.	0.2	28
—	—	—	—	—	—	—	—	—	—	—	—	29
W. S. W.	0.5	W.	2.0	W. by S.	1.0	W. N. W.	1.0	W. N. W.	1.0	W. N. W.	0.5	30
S. W.	0.2	W.	0.2	W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	31

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .	
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.
—	—	—	—	—	—	—	—	—	—	—	—
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
W. by S.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
W. S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	—	—	—	—	—	—	—	—	—	—	—
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
S.	0.2	S	0.2	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	N. W.	0.2	—	0.0
—	—	—	—	—	—	—	—	—	—	—	—
E. by N.	0.2	E. by N.	0.2	E. by N.	0.2	E. N. E.	0.2	E. N. E.	0.2	—	0.0
S. W. by S.	0.5	S. W. by S.	0.2	S. W. by S.	1.0	S. W. by S.	1.0	S. W. by S.	1.0	S. W. by S.	1.0
S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5
—	0.0	S. W. by W.	0.2	S. W. by W.	0.2	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0	S. W. by S.	2.0
—	—	—	—	—	—	—	—	—	—	—	—
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
N. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
E. S. E.	1.0	E. by S.	1.0	E.	1.0	E.	1.0	E.	1.0	E. by N.	1.0
—	0.0	—	0.0	N. E. by N.	0.5	—	0.0	—	0.0	—	0.0
—	—	—	—	—	—	—	—	—	—	—	—
S. W.	0.5	S. W.	0.5	S. W.	0.5	S. W.	0.5	S. W.	0.2	S. W.	1.0
W.	1.0	W.	1.0	W.	1.0	W.	0.5	W.	0.2	W.	0.2
—	0.0	—	0.0	S. S. E.	0.5	S. S. E.	2.0	S. S. E.	2.0	S. S. E.	2.0

OCTOBER.

OCTOBER.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
NOVEMBER.	1	S. S. E.	2.0	S. by E.	2.0	S. by E.	2.0	S. by E.	5.0	S. by E.	5.0	S. by E.	3.0
	2	—	0.0	—	0.0	—	0.0	W. by S.	0.2	S. by W.	1.0	S. S. W.	0.5
	3	N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W.	0.5	N. W.	0.5	N. W.	0.5
	4	—	0.0	—	0.0	N. by E.	0.2	N. E. by N.	0.2	—	0.0	—	0.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2	N.	0.2
	7	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	8	—	0.0	N. W.	0.5	N. N. W.	2.0	N. N. W.	2.0	N.	0.5	N.	0.5
	9	—	0.0	—	0.0	—	0.0	N. E.	0.2	E. N. E.	0.2	E. S. E.	0.5
	10	E. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	S.	0.2
	11	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	W.	0.5	W.	0.5	W.	0.5	W.	0.2	W.	0.2	W.	2.0
	14	N. W. by W.	0.2	N. W. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0
	15	S. E. by E.	0.5	S. E. by E.	0.5	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2
	16	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	17	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2	E. N. E.	0.5
	18	S. W.	5.0	S. W.	5.0	S. W.	3.0	W. S. W.	5.0	W.	7.0	W.	5.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	0.0	—	0.0	—	0.0	—	0.0	S. W.	0.2	—	0.0
	21	S.	5.0	S.	2.0	S.	0.5	S.	0.5	S. W.	0.5	S. W.	0.5
	22	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	1.0	W. S. W.	2.0	W. S. W.	2.0	W. S. W.	2.0
	23	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	E. by S.	0.2
	24	S. S. W.	1.0	S. W.	2.0	W. by S.	5.0	W.	5.0	W.	2.0	W.	2.0
	25	—	0.0	W.	0.2	W.	0.2	W.	0.2	W.	0.2	W.	0.5
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2
	28	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	29	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	30	N. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
NOVEMBER.	1	S. by W.	1.0	S. by W.	1.0	S. by W.	1.0	S. by W.	0.5	S. by W.	1.0	S. by W.	1.0
	2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	W.	0.5	W. N. W.	0.5	W. N. W.	0.5
	3	N. W.	0.2	N. W.	0.2	N. W.	0.2	—	0.0	N. W.	0.2	N. W.	0.2
	4	N. E.	0.5	N. E.	0.5	N. E.	0.5	N. E.	0.2	N. E.	0.2	N. E.	1.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	7	—	0.0	N. N. W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0
	8	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	—	0.0	—	0.0
	9	E. by S.	1.0	E. S. E.	1.0	E. S. E.	1.0	E. S. E.	1.0	E. S. E.	0.5	E. S. E.	1.0
	10	—	0.0	S. W.	0.2	—	0.0	S. W.	0.2	—	0.0	—	0.0
	11	W. N. W.	1.0	—	0.0	—	0.0	N. W.	0.2	N. W.	0.2	N. W. by N.	0.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	N. W.	0.2	N. W.	0.5	W. N. W.	0.5	N. W.	1.0	N. W.	1.0	N. W. by W.	1.0
	14	S.	0.2	—	0.0	S. E. by S.	0.2	S. E.	0.5	S. E.	1.0	S. E.	0.5
	15	E. S. E.	0.2	E. S. E.	0.2	S. E. by E.	0.2	—	0.0	—	0.0	—	0.0
	16	N.	0.2	N.	0.5	—	0.0	—	0.0	—	0.0	—	0.0
	17	E.	7.0	E.	10.0	E.	5.0	E.	2.0	E.	2.0	E.	2.0
	18	W. by S.	0.5	W. by S.	0.5	W. by S.	0.2	W. by S.	0.2	W. by S.	0.5	W. by S.	0.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	E.	1.0	E.	1.0	E.	2.0	E.	2.0	E. by S.	2.0	S. E.	1.0
	21	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	1.0	W. by S.	2.0
	22	W.	0.5	W.	1.0	—	0.0	—	0.0	—	0.0	—	0.0
	23	E. by N.	0.2	E. by N.	0.5	E. by N.	0.2	E.	0.2	E.	0.2	—	0.0
	24	W.	0.2	W.	0.2	W.	0.2	W.	0.2	W.	0.2	—	0.0
	25	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	28	S. W.	0.2	S. W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	—	0.0
	29	W. N. W.	0.2	N. W.	0.5	N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W.	0.2
	30	—	0.0	—	0.0	E. by S.	0.2	—	0.0	—	0.0	—	0.0

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
S. by E.	2·0	S. by E.	1·0	S. S. E.	0·5	S. S. E.	0·2	S. by E.	0·2	S.	1·0	1
S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·2	S. S. W.	0·5	S. S. W.	0·2	S. S. W.	0·5	2
N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·2	3
—	0·0	N.	0·2	N. by E.	0·5	N. by E.	0·5	N. E.	0·5	N. E.	0·5	4
N.	0·5	N.	0·2	N.	0·2	N.	0·2	N.	0·5	N.	0·2	5
—	0·0	N. by W.	0·2	N. by W.	0·2	W.	0·2	W.	0·2	W.	0·2	6
N.	0·5	N. by W.	0·5	N. by W.	0·5	N. by W.	0·5	N. by W.	0·5	N. by W.	0·2	7
S. E. by E.	0·5	S. E. by E.	0·5	S. E. by E.	0·5	S. E. by E.	1·0	E. S. E.	1·0	E. by S.	1·0	8
S.	0·2	S.	0·5	S.	0·5	S. by W.	0·5	S. E. by E.	0·5	S. W.	0·5	9
—	0·0	—	0·0	S. W.	0·2	W. N. W.	1·0	W. N. W.	1·0	W. N. W.	1·0	10
—	—	—	—	—	—	—	—	—	—	—	—	11
W.	2·0	W.	3·0	W.	5·0	W. N. W.	7·0	N. W.	5·0	N. W.	1·0	12
—	0·0	S.	0·5	S.	0·2	S.	0·2	S.	0·2	S.	0·2	13
S. E. by E.	0·2	S. E. by E.	1·0	E. S. E.	0·5	S. E. by E.	0·5	E. S. E.	0·2	E. S. E.	0·2	14
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. E. by E.	0·2	15
E.	0·5	E.	3·0	E. N. E.	3·0	E.	5·0	E.	7·0	E.	10·0	16
W.	5·0	W. by N.	5·0	W.	3·0	W.	3·0	W. by S.	3·0	W. by S.	1·0	17
—	—	—	—	—	—	—	—	—	—	—	—	18
—	0·0	—	0·0	—	0·0	S. S. E.	0·2	S. S. E.	0·2	E. S. E.	0·2	19
S. W. by W.	0·5	S. W. by W.	1·0	S. W.	1·0	W. S. W.	0·5	W. S. W.	0·5	W. S. W.	0·5	20
W. by S.	2·0	W. by S.	2·0	W.	2·0	W.	1·0	W.	1·0	W.	0·5	21
E.	0·2	E. by N.	0·2	E.	0·2	E. by N.	0·2	E.	0·5	E. by N.	0·5	22
W.	2·0	W.	2·0	W. S. W.	2·0	W. by S.	1·0	W. by S.	1·0	W. N. W.	0·5	23
W.	0·5	W.	0·2	S. S. W.	0·5	S. S. W.	0·2	S. S. W.	0·5	—	0·0	24
—	—	—	—	—	—	—	—	—	—	—	—	25
N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	—	0·0	26
N. N. W.	0·2	W. S. W.	0·2	W. S. W.	0·2	W. S. W.	0·2	W. S. W.	0·2	S. W.	0·2	27
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	28
—	0·0	E. by S.	0·2	E. by S.	0·2	E. by S.	0·2	E. by S.	0·2	E. by S.	0·2	29
—	—	—	—	—	—	—	—	—	—	—	—	30

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
S. by W.	0·5	S. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	1
W. N. W.	0·5	W. N. W.	2·0	W. N. W.	1·0	N. W.	0·5	N. W.	1·0	N. W.	0·5	2
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	3
N.	0·2	N.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	4
N.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	5
—	0·0	N. N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·5	6
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	7
E. S. E.	0·5	E. S. E.	0·2	E. S. E.	0·2	E. S. E.	0·5	E. S. E.	0·2	E. S. E.	0·2	8
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	9
—	—	—	—	—	—	—	—	—	—	—	—	10
W.	0·5	—	0·0	—	0·0	W.	0·2	W.	0·5	W.	0·5	11
N. W. by W.	1·0	N. W. by W.	0·2	N. W. by W.	0·2	N. W. by W.	0·2	N. W. by W.	0·2	N. W. by W.	0·2	12
S. E. by E.	0·5	S. E. by E.	0·5	S. E. by E.	0·5	S. E. by E.	0·5	S. E. by E.	0·5	S. E. by E.	0·5	13
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	14
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	15
E.	1·0	E.	0·5	S. W.	0·5	S. W.	3·0	S. W.	2·0	S. W.	3·0	16
—	—	—	—	—	—	—	—	—	—	—	—	17
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	18
S. E. by S.	1·0	S. S. E.	1·0	S. S. E.	0·5	S. S. E.	1·0	S. by E.	2·0	S.	5·0	19
W. by S.	2·0	S. W. by W.	2·0	S. W. by W.	3·0	S. W. by W.	1·0	S. W. by W.	0·5	W. S. W.	0·2	20
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	21
—	0·0	—	0·0	—	0·0	—	0·0	S. S. W.	0·5	S. W. by S.	0·5	22
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	23
—	—	—	—	—	—	—	—	—	—	—	—	24
N. by W.	1·0	N.	2·0	N.	1·0	N. by E.	0·5	N. by E.	1·0	N. by E.	0·5	25
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	26
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	27
—	0·0	—	0·0	—	0·0	N. N. W.	1·0	N. by W.	0·2	—	0·0	28
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	29
—	—	—	—	—	—	—	—	—	—	—	—	30

NOVEMBER.

NOVEMBER.






DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			DECEMBER.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	lbs. 0·0	—	lbs. 0·0	—	lbs. 0·0	—	lbs. 0·0	S.	lbs. 0·2	—	lbs. 0·0	1	
W. by N.	0·2	W. by N.	0·2	W. by N.	0·2	W. S. W.	0·2	W. S. W.	0·2	W. S. W.	0·2	2	
—	—	—	—	—	—	—	—	—	—	—	—	3	
S. W.	1·0	S. W.	0·2	S. W.	0·5	S. W.	1·0	W. S. W.	1·0	W. S. W.	0·5	4	
N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	—	0·0	N. by E.	0·2	5	
S.	0·2	S.	0·5	S. by W.	0·5	S. by W.	1·0	S. by W.	1·0	S. by W.	1·0	6	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	7	
S. S. W.	0·2	S. by W.	2·0	S.	1·0	S.	1·0	S.	1·0	S.	0·2	8	
S. W.	0·5	S. W.	0·5	S. W.	0·5	S. W.	1·0	S. W.	1·0	W. S. W.	1·0	9	
—	—	—	—	—	—	—	—	—	—	—	—	10	
W.	0·5	W. by N.	0·5	W. by N.	0·5	W.	0·5	W.	0·2	W. by S.	0·2	11	
N. W. by N.	5·5	N. W. by N.	5·0	N. W. by N.	5·5	N. W. by N.	5·5	N. W. by N.	5·5	N. W. by N.	3·0	12	
S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·5	S. by W.	0·5	S. S. W.	1·0	S. by W.	1·0	13	
S. by W.	0·2	S. by W.	0·2	S. by W.	0·2	S. by W.	0·5	S. by W.	0·5	S. by W.	0·5	14	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	15	
N.	0·2	N.	0·2	N.	0·2	—	0·0	—	0·0	—	0·0	16	
—	—	—	—	—	—	—	—	—	—	—	—	17	
—	0·0	—	0·0	N. W.	0·2	N. W.	0·2	N. W.	0·2	N. W.	0·2	18	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	19	
W. S. W.	0·2	W. S. W.	0·2	W. S. W.	0·2	W. S. W.	0·5	W. S. W.	0·2	W. S. W.	0·2	20	
W. S. W.	0·2	W. S. W.	0·2	W. S. W.	0·2	—	0·0	—	0·0	W. S. W.	0·2	21	
N. E.	0·5	N. E. by N.	0·5	N. E.	0·5	E. N. E.	0·5	E. N. E.	0·2	E. N. E.	0·2	22	
E. N. E.	1·0	E.	1·0	N. E. by E.	0·5	E. N. E.	1·0	N. E.	1·0	N. E.	0·5	23	
—	—	—	—	—	—	—	—	—	—	—	—	24	
—	—	—	—	—	—	—	—	—	—	—	—	25	
E. by S.	3·0	E. S. E.	2·0	E. by S.	1·0	E.	0·5	E. by S.	0·2	E. by S.	0·5	26	
W. by N.	0·2	W. by N.	0·2	W. by N.	0·2	W.	0·2	W.	0·2	W.	0·2	27	
—	0·0	—	0·0	—	0·0	—	0·0	W. by N.	0·2	W. by N.	0·5	28	
N. W.	0·2	N. W.	0·2	W. N. W.	0·5	W. N. W.	0·2	W. N. W.	0·2	W. N. W.	0·2	29	
N. W.	1·0	N. W. by W.	3·0	N. W.	3·0	N. W.	2·0	W.	3·0	W.	3·0	30	
—	—	—	—	—	—	—	—	—	—	—	—	31	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		DECEMBER.	
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
S. W.	0·2	S. W.	0·2	S. W.	0·5	—	0·0	—	0·0	—	0·0	1	
—	—	—	—	—	—	—	—	—	—	—	—	2	
S. W.	0·2	S. W.	0·5	S. W.	0·5	—	0·0	—	0·0	S. W.	0·2	3	
W.	1·0	W.	0·2	W. by N.	0·2	W. N. W.	0·2	W. N. W.	0·2	N. W. by N.	1·0	4	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	5	
S. S. W.	0·5	S. S. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	6	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	7	
—	0·0	—	0·0	S. by W.	0·2	S. by W.	0·2	S. S. W.	0·5	—	0·0	8	
—	—	—	—	—	—	—	—	—	—	—	—	9	
S. by W.	0·5	S. by W.	0·5	S. by W.	0·5	S. by W.	0·5	S. by W.	0·5	—	0·0	10	
W. N. W.	0·5	W. N. W.	1·0	W. N. W.	1·0	N. W. by N.	7·0	N. W. by N.	3·0	N. N. W.	5·0	11	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	12	
S. S. W.	3·0	S. W. by S.	4·0	S. S. W.	3·0	S. S. W.	2·0	S. S. W.	1·0	S. S. W.	1·0	13	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	14	
E. N. E.	0·5	E. N. E.	1·0	E.	2·0	E.	3·0	E.	3·0	E. by N.	2·0	15	
—	—	—	—	—	—	—	—	—	—	—	—	16	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	17	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	18	
W. S. W.	0·5	W. S. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	19	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	20	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	21	
N. E. by N.	0·5	N. E. by N.	0·5	N. E. by N.	0·5	N. E.	0·5	N. E.	0·5	N. E.	0·5	22	
—	—	—	—	—	—	—	—	—	—	—	—	23	
—	—	—	—	—	—	—	—	—	—	—	—	24	
W.	0·2	W.	0·2	W. by N.	0·5	E. by N.	0·5	E. by N.	0·5	E. by N.	0·5	25	
E. S. E.	0·2	E. S. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	26	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	27	
W. N. W.	0·5	W. N. W.	0·5	W. N. W.	0·5	W. N. W.	0·5	W. N. W.	0·5	W. N. W.	0·5	28	
W. N. W.	2·0	W. N. W.	3·0	N. W. by W.	2·0	W. N. W.	1·0	W. N. W.	0·5	W. by N.	0·5	29	
—	—	—	—	—	—	—	—	—	—	—	0·0	30	
N. W. by N.	0·2	N. W. by N.	0·2	N. W.	0·5	N. W.	0·5	N. W.	0·5	—	—	31	



**T O R O N T O, 1842-43.**

---

**O B S E R V A T I O N S O F T H E A U R O R A.**

OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED.					
Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.	Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.
APRIL.			APRIL.		
D. H. M.		D.	D. H. M.		D.
14 10 24	Partially clouded; strong light in N. but no remarkable feature	3.8	15 08 00	Very sudden burst of auroral light in the N. in patches, banks, and streamers, which disappeared in a few minutes	4.8
36	Clouded round N. horizon; streamers appearing above the clouds	—	35	A few faint streamers visible in N.; one very large streamer extending from E. to zenith remaining steady	—
11 00	Faint light in N.; a few pulsations in N.W.; some scattered clouds	—	45	Light in N. fainter; streamer still in the E. but not so near the zenith	—
12	Faint light; clouding rapidly from N.W.	—	55	Light in N. the same as the last remark; streamer in E. very bright, longer, and branching like a Y in the zenith	—
30	Calm; faint light in N. almost entirely clouded over with light cir. and cir.-strat.	—	09 00	Streamer in E. extending across the zenith nearly to W. forming a bright belt across the sky; broader in zenith than at either end	—
36	Faint light only	—	05	Streamer in E. diminished considerably, and moving towards the S.	—
54	Clear in N., light stronger; pulsations very rapid and distinct	—	10	Wind springing up from N.W.; streamer in E. disappeared; Aurora brightening up in N.; sky perfectly clear	—
12 00	Luminous band of patches and pulsations extending across the zenith from E. to W.; strong steady light in the N.	—	25	Light in N. very faint, in form of an arch; streamer disappeared	—
06	Band appearing to have moved about 15° to S. of zenith	—	40	Aurora brightening; appearing in form of two arches thus  extending from N.W. to N.E., altitude of the exterior arch about 20°, of interior one about 12°; a few streamers at the Eastern extremity	—
12	Pulsations converging from every part of the horizon except the S.W. to zenith, and covering the whole sky; light steady in N.; clear except a few cir. in the N.W.	—	45	Features of the Aurora changing very rapidly from banks to patches and streamers; dying away and suddenly brightening again	—
18	Light air sprung up from N.; low range of strat. appearing in N. horizon; remainder of the sky perfectly clear; pulsations apparently proceeding from N.E. and crossing the zenith to W. in three distinct bands	—	57	Remarkably bright bank in N.E. from which a great number of streamers issue; nothing visible to W. of N.	—
36	Arch of patches varying their form every moment in N., general altitude about 25°, beneath which light cir.-strat. rests upon the horizon; splendid belt of luminous pulsations across the zenith from E. to W.	—	10 00	Bright light only in N.	—
54	Extremely bright and steady light in the N., pulsations converging to zenith from every direction, and forming a most splendid crown or circle of light of a reddish colour	—	10	Aurora entirely disappeared; sky perfectly clear	—
13 00	Wind N., very light; low bank of strat. in N., remainder of the sky perfectly clear; very vivid pulsation, as before	—	20	A streamer in S.E. extending to zenith, but neither so bright nor so well defined as that before-mentioned; a few patches in N.	—
12	Wind N., almost calm; range of dense cum.-strat. rising in N., streamers appearing to rise from behind the clouds; pulsations as before	—	25	Streamer very bright and extending from S.E. to N.W. inclining to S. of zenith (like a bow); a few bright patches and pulsations in the N.	—
24	Calm; very dense mass of clouds rising in N.; pulsations as before	—	35	A number of banks appearing and disappearing very rapidly in the N.E. and N.W.	—
42	Calm, a few detached clouds in N.; streamers very brilliant in N. and N.E.; pulsations remaining as before	—	15 10 45	Large streamer again invisible; a few patches occasionally in N.	—
14 15	Pulsations rather diminished in extent and brightness; numberless streamers covering the sky between the W.N.W. and E.N.E. rising to an average altitude of 50°; patches of light extending 20° to the S. of zenith	—	50	Bright banks in N. and N.E., with slight pulsations	—
25	Features unaltered; pulsations more bright	—	11 00	Two faint arches only in N.	—
30	Luminous haze covering .4 of the sky to N.; pulsations as before; streamers disappeared; clouds rising in, and passing over from N.W.	—	05	One broad bright arch extending from N.E. to N.W.	—
35	Range of dense strat. in the N., above which a bright light appears and extends over .4 of the sky; pulsation as before	—	15	No auroral light, except a very faint arch in N. altitude, about 15°	—
40	Pulsations undiminished in extent, and remarkably bright	—	20	The same as at 11 <sup>h</sup> 15 <sup>m</sup>	—
50	Aurora appearing over about .6 of the sky; a few streamers visible	—	30	A number of bright patches and streamers in the N., enclosed in an arch of luminous haze; altitude about 20°	—
55	Features unaltered but larger in extent; streamers disappeared	—	40	A number of bright banks; patches and streamers forming, disappearing, and reforming again very quickly; luminous haze surrounding the whole to an altitude of 25°	—
15 10	Pulsations almost disappeared; faint luminous haze over .5 of the sky	—	45	Streamers, patches, and banks becoming fainter, but retaining the same features as before	—
20	Pulsations brighter; faint streamers and patches in the N.	—	50	Aurora still the same, but brighter	—
35	The same as 15 <sup>h</sup> 20 <sup>m</sup>	—	55	Nothing remaining but a faint luminous haze, and a few very faint streamers	—
45	Faint sheet of light in N., a few pulsations in N.W.	—	12 00	Faint arch of light, and a number of pulsations beginning to vibrate upwards, and disappearing at an altitude of 45°	—
55	Bank of light brighter; a number of streamers; pulsations continuing	—	05	The same appearance as last recorded	—
16 15	Bank of light fainter; pulsations gone; light cir.-cum. dispersed over zenith; clouds passing from N.W.	—	10	Light wind sprung up from the N. by W.; sky perfectly clear; bank of light and faint arch above it in the N.; pulsations proceeding from the N. towards the zenith	—
25	Wind N. by E.; nearly calm; light indistinct	—	30	Patches and streamers moving backwards and forwards with great rapidity; vivid pulsations	—
35	.5 clouded generally over the sky with cir.-cum. and cir.-strat.; daylight breaking; auroral light just perceptible in the N.N.W.	—	35	The same appearance as last recorded	—
45	No traces of Aurora	—	40	The same as last recorded, but pulsations rather extended	—
17 00	Wind N., almost calm; about .4 clouded, principally to the E. with cir.-cum. and cir.-strat.; fair	—	45	Range of streamers suddenly appeared between N.E. and N.W.; pulsations as before	—
			50	Streamers disappeared; pulsations remarkably bright	—
			55	Pulsations very vivid and extending from E. to N.W. by N.; bright streamers appearing and disappearing in quick succession	—

OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED.

Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.	Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.
<b>APRIL.</b>			<b>JUNE.</b>		
D. H. M.		D.	D. H. M.		D.
15 13 00	The same appearance as last recorded - - - - -	—	4 09 22	Bow of light disappeared; luminous haze in N., and a few faint streaks of light in zenith alone visible - - - - -	—
05	Pulsations still very vivid, reaching from S.E. round the N. as far as W. by S. - - - - -	—	27	Luminous haze, with very faint patches and streamers in N. - - - - -	—
10	Pulsations the same; several bright streamers in N.E. - - - - -	—	32	Appearance nearly the same - - - - -	—
15	Pulsations fainter and not so extended; bright streamers in E. and N.E. - - - - -	—	37	The same appearance as last recorded, with faint streamers moving from E. to W. - - - - -	—
20	The same appearance as last recorded - - - - -	—	42	The same appearance; streamers becoming brighter - - - - -	—
25	Pulsations fainter, ranging from E. to N.W. - - - - -	—	47	Light much brighter; innumerable streamers extending from E. to W. by N., and rising to an altitude of 50° - - - - -	—
30	Considerably fainter; streamers in N.E. - - - - -	—	52	Light fainter; scarcely perceptible; low clouds in N. horizon	—
35	The same as last recorded, but streamers in N. and N.E. fainter	—	57	Patches rather brighter; faint streamers rising above them; a small streamer in the S.E. - - - - -	—
40	A few faint patches of light, altitude about 15°; pulsations as before reaching to an altitude of 55° - - - - -	—	10 02	A faint luminous haze with a few very faint streamers at either end of the light alone visible - - - - -	—
45	Nearly the same as last recorded; a few faint streamers at intervals - - - - -	—	07	Bright light in N.N.E., with bright patches visible behind a low range of clouds in the N.; faint streamers in N.W. - - - - -	—
55	Bank of luminous haze, altitude about 20°, with a few faint patches; pulsations considerably fainter - - - - -	—	12	Clouds rising in the N.; faint light and streamers above them	—
14 00	Bank rather brighter; pulsations the same; a few faint streamers in N.E. - - - - -	—	17	Clouds rising in the N.; faint light and streamers above them; occasional sheet lightning in N.W. - - - - -	—
05	Very nearly the same as last recorded - - - - -	—	22	Calm; bright streamers and pulsations extending from E. to N.W.; patches of light visible behind the clouds - - - - -	—
10	Calm; clear and unclouded; arch of light, altitude 25°, with a few faint streamers and pulsations - - - - -	—	27	Appearance nearly the same; pulsations reaching to an altitude of about 45° - - - - -	—
20	Arch of light rather brighter, altitude about 30°; very faint pulsations just above it - - - - -	—	32	Range of bright streamers extending from E. to N.W.; faint pulsations - - - - -	—
30	Light and pulsations the same; a few very faint streamers in N.W. - - - - -	—	37	About 1 overspread with light cir.-cum. and cir.-strat. in N.; bright streamers in the E. and N.W.; sheet lightning in N.W. - - - - -	—
40	Bright arch of light from N.E. to N.W., throwing out a few streamers at its N.W. extremity; pulsations just perceptible above the arch - - - - -	—	42	A faint light seen behind the clouds; Aurora otherwise disappeared - - - - -	—
50	Very nearly the same as last recorded - - - - -	—	47	Bright streamers and pulsations again breaking out; bright patches of light in N.E. - - - - -	—
15 00	Arch fainter; faint streamers shooting from it; faint pulsations	—	52	Steady patch of light in N.E. and N.N.W.; faint pulsations reaching to an altitude of 50°; sheet lightning in W.N.W.	—
10	Arch of light brighter; streamers and pulsations entirely gone	—	57	Light brighter in N.W. and fainter in N.E.; pulsations as before - - - - -	—
20	Arch of light the same; a few very faint pulsations - - - - -	—	11 02	Very bright patches of light, principally in the N.W., and very vivid pulsations over the whole northern portion of the sky; calm; 1 overcast with cir.-cum. and cir.-strat. - - - - -	—
30	The same as last recorded - - - - -	—	07	Patches of light fainter; pulsations continuing - - - - -	—
40	Arch of light the same; pulsations gone - - - - -	—	12	Pulsations remarkably vivid; clouds becoming more dense - - - - -	—
16 00	Light very faint; calm, clear, and unclouded; Aurora not perceptible - - - - -	—	15	Patches of light very faint; pulsations over the whole northern portion of the sky - - - - -	—
<b>JUNE.</b>			<b>JUNE.</b>		
4 07 42	Calm; clear and unclouded, except a few light cir.-strat. in N. horizon; no auroral light visible - - - - -	25.2	17	Pulsations from all quarters converging to a point in zenith; several splendid streamers rising from behind the clouds in N. - - - - -	—
08 27	A few patches of light beginning to appear in N.N.W. horizon; the evening not sufficiently advanced to observe their features with accuracy - - - - -	—	22	Pulsations fainter; streamers disappeared - - - - -	—
47	All auroral light disappeared - - - - -	—	27	Bright streamers and patches appearing and disappearing with great rapidity; pulsations as before - - - - -	—
52	Bright waves of light drifting from E. across the zenith, in appearance like light cir. clouds; faint light in N. horizon; sky clear - - - - -	—	32	The same appearance as last recorded - - - - -	—
54	A large stream of light rose in E. horizon, and after passing through zenith sunk in N.W.; the bow remained perfect and appeared to continue its onward motion - - - - -	—	37	Streamers, patches and pulsations much fainter - - - - -	—
57	An innumerable number of faint streamers extending from E. to W., and covering the whole of the N. sky; the bow of light as before; the centre of it passing through a point 10° S. of zenith - - - - -	—	42	A few faint streamers and pulsations - - - - -	—
09 02	A number of small bright streamers in S.E., rising to an altitude of from 10° to 20°; streamers in N. disappeared, except a few in N.E.; strip of light becoming fainter at the western, and brighter in the eastern extremity; the whole gradually moving to the S. - - - - -	—	47	Pulsations and light very faint - - - - -	—
09	A number of remarkably bright patches of light in zenith, having gradually approached from E.; bright patches of light in N. horizon - - - - -	—	52	Pulsations and light very faint - - - - -	—
12	The bow of light still remaining, and appearing to act as a conductor to a constant and steady stream of patches of light which rising in E., and moving its course to zenith, where they disappear; patches of light in N. - - - - -	—	57	Aurora disappeared except a faint light in N., with a few very faint streamers; calm; light cir.-cum. and cir.-strat. dispersed round the N. horizon - - - - -	—
			12 02	Faint bank of light, altitude about 20°; sheet lightning in N.W. horizon - - - - -	—
			07	Faint auroral light alone remaining - - - - -	—
			12	Very faint auroral light alone remaining; sheet lightning in the W. and N.W. horizon - - - - -	—
			17	The same appearance as before - - - - -	—
			27	Nearly the same appearance - - - - -	—
			37	Bank of light rather brighter; very faint pulsations just above it - - - - -	—

OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED.					
Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.	Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.
JUNE.			JULY.		
D. H. M.		D.	D. H. M.		D.
4 12 47	Very faint light; no pulsations - - - - -	—	12 14 48	A few clouds in S.E. and S.; streamers and pulsations much diminished, but still ascending to zenith, and there disappearing - - - - -	—
57	Nearly the same appearance; calm; zenith clear; cir.-strat. and haze round horizon - - - - -	—	54	A few pulsations alone visible - - - - -	—
13 08	Calm; thin haze in zenith; cir.-strat. and haze round horizon; bright patches of light in N.E. moving backwards and forwards behind the clouds - - - - -	—	15 00	Aurora disappeared except a few faint streamers to E. of N. - - - - -	—
15	A very faint light alone visible through the clouds - - - - -	—	06	A few pulsations still seen although nearly obscured by the advance of day - - - - -	—
22	Aurora entirely disappeared; clouds becoming more dense - - - - -	—	12	Day rapidly breaking; the auroral light could not any longer be seen; calm; clear and unclouded - - - - -	—
14 02	Aurora entirely disappeared; calm; overcast with cir.-strat. and thin haze; almost incessant sheet lightning in W. and N.W. - - - - -	—	1843		
32	Calm; clouded with cir.-cum. and haze; clouds from N.W. - - - - -	—	MARCH.		
57	Calm; clouded with cir.-cum. and haze; clouds from N.W. - - - - -	—	6 11 00	Clear and unclouded; faint auroral light in N. - - - - -	5.4
JULY.			12 00	Clear and unclouded; auroral light in N.; streamers and patches - - - - -	—
3 12 12	Steady strong light in N., very bright streamers in N.W. and E., in each of which directions pulsations rise and meet in a circle extending to the S. of zenith - - - - -	24.8	13 00	Bank of auroral light in N.; faint patches and streamers - - - - -	—
18	The streamers before mentioned remarkably brilliant, more extended, and meeting together in zenith; the whole north one sheet of light with vivid pulsations; clear except a few cir.-cum. scattered - - - - -	—	14 00	Clear; appearance of auroral light the same as at last observation - - - - -	—
24	Bank of clouds in N.W.; haze in N., behind which pulsations are seen; streamers in N.W. undiminished in brightness, shooting forth broad flashes across the zenith; very bright light in the E. near horizon; streamers as before circling or entwining in every shape - - - - -	—	15 00	Clear bank of auroral light extending from N.W. to N.E., altitude about 5° - - - - -	—
12 12 30	Vivid and very broad pulsations and streamers covering the whole northern sky - - - - -	4.4	16 00	Perfectly clear; light almost disappeared - - - - -	—
33	Slight pulsations in N.W., eastern streamers and flashes considerably diminished; light in N. increased and throwing up streamers and pulsations which meet in zenith - - - - -	—	17 00	Perfectly clear; light almost disappeared - - - - -	—
42	Calm, a few cir.-cum. scattered over the N. horizon; pulsations and streamers still rising in N.W. and forming a semicircle across the zenith to N.E.; light very bright from N.E. to N.W. from which a constant succession of pulsations follow each other as waves of the sea, disappearing in the N.E. - - - - -	—	18 00	Clear and unclouded - - - - -	—
48	The whole very much lessened in brilliancy; pulsations and streamers from N.W. very faint, in N.E. entirely disappeared; waves of light from N. very faint, but still joining those from the W. in zenith - - - - -	—	19 00	Clear and unclouded - - - - -	—
54	Calm; a few cir.-cum. scattered; light in E. nearly gone; pulsations and flashes from N.W. hardly reaching the zenith; arch of light extending from N.W. to N.E., altitude at centre about 20°; occasional slight pulsations - - - - -	—	20 00	Clear and unclouded - - - - -	—
13 00	Streamers in N.W. and light in N. increased, throwing out very bright flashes or waves illuminating all the N.; the whole appearance very brilliant - - - - -	—	APRIL.		
12	The whole of the N. very brilliantly lighted up with banks, patches, arches, and streamers; the features in constant change; pulsations very rapid - - - - -	—	5 04 00	Partially overcast with light flexuous cir.-strat. and haze; fair; .4 clear - - - - -	5.7
18	The same appearance as last recorded - - - - -	—	05 00	Dense bank of cum. and cum.-strat. in N. and N.W.; dense masses of vapour rolling up from the lake; .3 clear - - - - -	—
24	The same appearance as recorded at 18 <sup>m</sup> - - - - -	—	06 00	.5 clouded with dense masses of cum.-strat.; remainder clear; fair - - - - -	—
30	Pulsations rather diminished in extent, and motion not so rapid; the other features as before - - - - -	—	07 00	.6 overcast with dense cum.-strat.; clear spaces generally - - - - -	—
36	The same as last recorded - - - - -	—	08 00	Overcast with cir.-cum.; cum.-strat. and haze - - - - -	—
42	Rather diminished, but still much the same - - - - -	—	09 00	Detached cir.-cum. passing across the zenith; haze round horizon; .5 clear - - - - -	—
48	Diminishing; general features the same - - - - -	—	10 00	Clear except haze round horizon; faint bank of auroral light in the N.; altitude at the centre about 18° - - - - -	—
14 00	Still more faint; pulsations much slower - - - - -	—	11 00	.4 clear in zenith and to the S., remainder overcast with cir.-cum. and haze - - - - -	—
12	The whole nearly disappeared; a few flashes, and those at considerable intervals from each other - - - - -	—	12 00	Partially overcast with cir.-strat.; cir.-cum. and haze - - - - -	—
24	The same appearance as last recorded - - - - -	—	13 00	Partially clouded with cir.-strat., cir.-cum. and haze - - - - -	—
36	Again brightening; pulsations and streamers - - - - -	—	14 00	Partially clouded with light cir.; strong auroral light in the N. .4 clear to S., remainder overcast with light cir. and haze - - - - -	—
42	Brilliant streamers and flashes from N.W. as at first, but not nearly so bright and vivid; streamers and banks extending from N.W. to N.E.; a few pulsations - - - - -	—	15 00	Quite clear; bright arch of auroral light with streamers issuing therefrom - - - - -	—
			16 00	Clear and unclouded; faint auroral light in the N. - - - - -	—
			17 00	Clear except a bank of strat. along the S. horizon; fair - - - - -	—
			18 00	Clear except a range of strat. on S. and W. horizon; fair - - - - -	—
			19 00	Haze and strat. round horizon; zenith clear; fair - - - - -	—
			20 00	Partially clouded round horizon with cir.-cum.; .8 clear; fair - - - - -	—
			21 00	Partially clouded with cir.-cum. and cir.-strat.; .8 clear; fair - - - - -	—
			22 00	Clear; double arch of auroral light in the N., altitude of upper edge of the highest one about 48°; of lower 23°; faint streamers at the W. end of the upper arch - - - - -	6.7
			6 08 00	Clear and unclouded; faint auroral light in N. - - - - -	—
			09 00	Clear and unclouded; faint auroral light in N. - - - - -	—
			10 00	Clear and unclouded; faint auroral light in N. - - - - -	—
			11 00	Clear and unclouded; faint auroral light in N. - - - - -	—
			12 00	Clear and unclouded - - - - -	—
			JULY.		
			25 09 00	Clear and unclouded; faint auroral light in N. - - - - -	27.9
			10 00	Clear and unclouded; faint auroral light in N. - - - - -	—
			11 00	Clear and unclouded; faint auroral light in N. - - - - -	—
			12 00	Cloudless; auroral light almost gone - - - - -	—

\* The Aurora above recorded first appeared on the 3rd, at 10 h. (Sunday), and continued with various changes till 12 h., when the observations were commenced.

**TORONTO, 1843.**

**METEOROLOGICAL JOURNAL.**



Day.	Weather and Phenomena.	Extent of Cloudy/Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
<b>JANUARY.</b>									
1	Densely clouded all day, with brisk wind from 12 <sup>h</sup> to 17 <sup>h</sup> ; snow from 18 <sup>h</sup>	0.3	—	1.0	—	24.0	3.2	—	30.9
2	Densely clouded; continued snowing to 3 <sup>h</sup> , and again from 10 <sup>h</sup> 20 <sup>m</sup> to 12 <sup>h</sup> ; quite clear at 15 <sup>h</sup> ; brisk wind all day	1.0	1.0	0.9	0.3	27.2	1.8	—	40.7
3	Generally clouded; with brisk wind	0.3	0.4	1.0	1.0	31.7	9.4	—	31.5
4	Clouded; light snow from 10 <sup>h</sup> 50 <sup>m</sup> to 21 <sup>h</sup>	1.0	1.0	1.0	1.0	15.8	9.3	—	24.7
5	Cleared up at 14 <sup>h</sup> and remained so to 18 <sup>h</sup>	1.0	0.1	0.8	1.0	27.5	11.7	—	32.7
6	Densely clouded; brisk wind; rain from 4 <sup>h</sup> 20 <sup>m</sup> to 9 <sup>h</sup>	1.0	1.0	1.0	1.0	34.5	22.7	0.115	46.3
7	Clouded all day; occasional light rain	1.0	1.0	—	1.0	42.7	32.3	—	41.9
8	Densely overcast; brisk wind and rain	1.0	—	0.7	1.0	44.3	35.3	0.410	45.9
9	Partially clouded to 3 <sup>h</sup> ; remainder of day densely clouded	0.7	1.0	1.0	1.0	44.9	20.5	0.230	50.7
10	Overcast; snow and rain to 6 <sup>h</sup> 30 <sup>m</sup>	1.0	1.0	0.6	1.0	33.6	24.0	0.940	50.8
11	Clouded; cir., cir.-cum. and haze	1.0	1.0	1.0	1.0	37.0	25.2	—	39.0
12	Densely clouded; slight rain and snow from 6 <sup>h</sup> to 14 <sup>h</sup> ; slight snow continued from 20 <sup>h</sup>	1.0	1.0	1.0	1.0	33.1	27.9	0.100	36.9
13	Densely clouded; slight snow continued to 10 <sup>h</sup> ; slight snow from 19 <sup>h</sup> 30 <sup>m</sup> to 23 <sup>h</sup>	1.0	1.0	1.0	1.0	33.7	30.3	—	34.1
14	Densely clouded	1.0	1.0	—	1.0	33.6	21.2	—	33.7
15	Clouded	0.9	—	1.0	1.0	29.9	23.7	—	30.0
16	Overcast; dense haze	1.0	1.0	1.0	1.0	33.7	18.2	—	35.1
17	Overcast; dense haze	1.0	1.0	1.0	0.8	26.2	20.1	—	25.3
18	Partially clouded; a shock of an earthquake was felt this day on Lake St. Peters in Lower Canada	0.7	0.5	—	1.0	31.5	26.4	—	32.3
19	Densely clouded	1.0	1.0	1.0	1.0	44.2	32.7	—	58.5
20	Thick fog	1.0	1.0	1.0	0.2	44.2	32.0	—	47.5
21	Clear from 3 <sup>h</sup> to 8 <sup>h</sup> ; remainder of the day clouded	0.0	0.1	—	1.0	41.9	34.4	—	50.7
22	Clouded	0.6	—	0.1	1.0	55.4	32.5	—	63.9
23	Occasionally clouded and clear; snow from 21 <sup>h</sup> 45 <sup>m</sup> to 22 <sup>h</sup> 20 <sup>m</sup>	0.7	0.4	0.4	1.0	40.7	34.1	—	49.4
24	Clouded; high wind	0.1	1.0	0.0	0.7	36.1	30.7	—	50.0
25	Partially clouded to 7 <sup>h</sup> , when it became quite clear	0.4	0.0	0.0	0.1	36.1	28.1	—	45.1
26	Generally clouded; showers of hail from 9 <sup>h</sup> to 13 <sup>h</sup>	0.5	1.0	1.0	1.0	29.5	2.4	—	33.3
27	Densely clouded; snowing from 10 <sup>h</sup> 30 <sup>m</sup>	1.0	1.0	1.0	1.0	25.5	18.4	—	33.2
28	Snow continued to 3 <sup>h</sup> ; quite clear at 10 <sup>h</sup> ; continued so	1.0	0.1	—	0.1	30.9	24.2 <sup>a</sup>	—	35.0
29	Generally clear to 15 <sup>h</sup> , when it clouded over	0.0	—	1.0	1.0	30.1	6.7	—	36.3
30	Clouded all day; began to snow at 14 <sup>h</sup> , and turned to rain at 20 <sup>h</sup>	0.5	0.3	1.0	1.0	31.4	11.1	—	53.0
31	Continued raining to 10 <sup>h</sup> , when it ceased	1.0	1.0	1.0	1.0	35.5	27.7	2.500	51.0
<b>FEBRUARY.</b>									
1	Generally clouded; brisk wind and snow from 5 <sup>h</sup> to 8 <sup>h</sup>	0.4	1.0	1.0	0.1	37.1	15.4	—	35.0
2	Partially clouded and calm to 8 <sup>h</sup> ; afterwards clouded and brisk wind	0.8	0.6	1.0	1.0	19.7	-2.7	—	36.0
3	Densely clouded; light winds; a few particles of snow occasionally	1.0	1.0	1.0	1.0	24.7	5.1	—	34.6
4	Clouded nearly all day; calm, and light wind with slight snow; high wind from 21 <sup>h</sup>	0.7	1.0	—	1.0	27.5	15.7	—	29.5
5	Clouded; constant snow; high wind continued to 14 <sup>h</sup>	1.0	—	1.0	1.0	32.3	23.8	—	59.9
6	Clouded; high wind; heavy drift of snow all day	1.0	1.0	0.5	0.8	28.1	11.7	—	43.1
7	Clouded; moderate and light winds	1.0	1.0	1.0	1.0	17.2	3.1	—	—
8	Overcast to 3 <sup>h</sup> ; partially clear from 4 <sup>h</sup> to 14 <sup>h</sup> ; halo round the moon at 11 <sup>h</sup>	1.0	0.1	1.0	1.0	18.4	9.2	—	47.5
9	Clouded all day; chiefly cir.-strat., cir., and cum.-strat.; light winds	1.0	1.0	1.0	1.0	18.9	2.1	—	26.0
10	Overcast; wind brisk and squally; rain and sleet	1.0	1.0	0.9	0.9	21.9	10.3	0.475	35.7
11	Partially clear; snow showers at intervals; brisk wind	0.4	0.3	—	0.2	38.5	21.3	—	36.3
12	Densely clouded from 12 <sup>h</sup> to 17 <sup>h</sup> ; halo round the moon at 12 <sup>h</sup> ; light wind; parhelia at 23 <sup>h</sup>	0.5	—	1.0	0.5	24.0	11.8	—	36.4
13	Generally clouded; cir., cir.-strat., and cum.-strat.; halo round moon at 10 <sup>h</sup>	1.0	1.0	1.0	1.0	16.6	12.4	—	29.7
14	Overcast; cir. and haze; snowing most of the day; brisk wind; ceased snowing at 12 <sup>h</sup>	1.0	1.0	1.0	0.8	21.5	12.3	—	49.9
15	Mostly clouded; cum., cir.-cum., and haze; slight snow and sleet occasionally; brisk wind from 18 <sup>h</sup>	1.0	0.5	1.0	0.1	11.9	5.1	—	—
16	Generally clear; brisk wind continued to 4 <sup>h</sup> ; subsequently light winds	1.0	0.1	0.1	0.7	19.3	5.5	—	29.4
17	Partially clouded, with moderate and light winds	0.8	0.9	0.1	0.4	15.2	-9.4	—	26.8
18	Partially clear to 6 <sup>h</sup> ; remainder of day clouded; light wind; began to snow at 21 <sup>h</sup>	0.8	1.0	—	1.0	15.2	-8.0	—	33.3
19	Clouded to 12 <sup>h</sup> ; constant snow continued to 10 <sup>h</sup> 30 <sup>m</sup> , when it ceased	1.0	—	0.5	0.2	18.3	5.7	—	38.7
20	Partially clear to 3 <sup>h</sup> , slight snow at 16 <sup>h</sup> 30 <sup>m</sup>	0.9	1.0	1.0	1.0	22.5	-0.3	—	26.9
21	Generally clouded; light snow	1.0	0.2	1.0	1.0	26.9	9.1	—	52.4
22	Partially clouded to 7 <sup>h</sup> ; clear to 12 <sup>h</sup> ; subsequently overcast with haze; slight snow occasionally	0.4	0.0	1.0	0.1	29.9	11.6	—	37.5
23	Mostly clear to 8 <sup>h</sup> ; subsequently overcast with cir.-strat. and haze	0.2	1.0	1.0	1.0	23.4	1.9	—	38.5

<sup>a</sup> Taken from the lowest reading of the Standard Thermometer.

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
<b>FEBRUARY.</b>									
24	Clouded and calm - - - - -	1.0	1.0	1.0	0.8	19.9	5.5	In.	33.9
25	Mostly clouded with cir.-cum. and cir.-strat.; a few flakes of snow -	1.0	1.0	—	1.0	28.5	14.7	—	50.5
26	Clouded all day; snow from 3 <sup>h</sup> to 13 <sup>h</sup> - - - - -	1.0	—	1.0	1.0	34.7	24.1	—	47.0
27	Clouded and snowing to 19 <sup>h</sup> ; partially clear to 23 <sup>h</sup> , when the day became clouded - - - - -	1.0	1.0	1.0	0.3	31.6	19.7	—	42.7
28	Clouded all day - - - - -	1.0	1.0	1.0	1.0	29.1	19.5	—	43.5
<b>MARCH.</b>									
1	Clouded to 8 <sup>h</sup> and occasional slight snow; clear and clouded alternately from 8 <sup>h</sup> , with haze round horizon - - - - -	1.0	0.5	0.1	0.1	29.9	12.4	—	43.2
2	Clouded and clear alternately; cir.-cum. and cir.-strat. till 2 <sup>h</sup> ; totally clouded from 2 <sup>h</sup> - - - - -	1.0	0.1	1.0	1.0	21.9	7.3	—	29.0
3	Clouded and dull to 13 <sup>h</sup> , when it cleared up - - - - -	1.0	1.0	1.0	0.1	20.9	1.9	—	33.7
4	Partially clouded to 6 <sup>h</sup> with cir.-cum. detached - - - - -	0.3	0.0	—	0.1	23.1	2.5	—	35.5
5	Clear and calm; faint auroral light from 14 <sup>h</sup> - - - - -	0.0	—	0.0	0.0	26.7	-2.5	—	51.9
6	Clear all day; Aurora from 7 <sup>h</sup> to 14 <sup>h</sup> ; slight appearance of a comet -	0.0	0.0	0.0	0.0	24.5	5.7	—	40.5
7	Clear to 15 <sup>h</sup> ; remainder partially clouded with light cir. and haze; slight appearance of comet at 7 <sup>h</sup> - - - - -	0.0	0.0	0.7	0.9	26.5	-2.4	—	42.2
8	Dull and clouded with cir.-cum., cum.-strat. and haze to 13 <sup>h</sup> ; clearing gradually to 17 <sup>h</sup> ; partially clouded to 23 <sup>h</sup> ; halo round the sun from 21 <sup>h</sup> to 23 <sup>h</sup> - - - - -	1.0	1.0	0.2	0.6	27.1	7.1	—	49.2
9	Overcast at night; halo round the moon; clouded - - - - -	1.0	0.2	1.0	1.0	30.2	14.7	—	41.0
10	Clouded all day; snow and sleet; wind fresh and gusty; partially clouded with cir.-cum. and cum.-strat. from 20 <sup>h</sup> - - - - -	1.0	1.0	1.0	0.8	31.3	16.3	0.250	52.3
11	Partially clouded with cir.-cum., and cum.-strat. to 3 <sup>h</sup> ; wind brisk and gusty; clear and calm from 4 <sup>h</sup> to 11 <sup>h</sup> ; partially clouded from 21 <sup>h</sup> -	0.2	0.0	—	0.0	34.7	28.2	—	36.7
12	Partially clouded to 3 <sup>h</sup> ; snow fell continuously from 11 <sup>h</sup> 50 <sup>m</sup> - - -	0.7	—	1.0	1.0	31.7	3.9	—	44.7
13	Snow continued falling to 7 <sup>h</sup> ; halo round the moon at 9 <sup>h</sup> ; remainder clouded with cir.-cum. and cum.-strat. - - - - -	1.0	1.0	1.0	0.2	32.7	24.7	—	44.2
14	Partially clouded to 3 <sup>h</sup> ; halo and parhelia round the sun at 4 <sup>h</sup> ; halo round the moon at night - - - - -	0.5	1.0	1.0	1.0	38.1	12.3	—	46.1
15	Clouded with cir.-cum. and haze to 8 <sup>h</sup> ; high wind; remainder light cir. and haze; halo round the moon at 14 <sup>h</sup> and 15 <sup>h</sup> - - - - -	1.0	0.1	1.0	1.0	31.1	17.7	—	39.4
16	Overcast with cir.-strat., cir.-cum. and haze; constant snow from 8 <sup>h</sup> to 20 <sup>h</sup> - - - - -	1.0	1.0	1.0	1.0	32.1	6.9	—	43.3
17	Densely overcast with haze to 10 <sup>h</sup> - - - - -	1.0	1.0	0.4	1.0	29.8	19.1	—	44.7
18	Generally clouded; a few flakes of snow occasionally during the day; halo round the sun at 21 <sup>h</sup> , diameter 30° - - - - -	1.0	0.6	—	0.2	33.4	17.3	—	39.7
19	Nearly clear in the morning; halo round the moon at 14 <sup>h</sup> - - - - -	1.0	—	0.4	1.0	29.7	19.1	—	42.3
20	Generally clouded; a few flakes of snow between 4 <sup>h</sup> and 5 <sup>h</sup> - - - -	1.0	1.0	1.0	0.4	31.7	15.3	—	45.7
21	Partially clouded; cir.-cum. dispersed and light cir.-strat. and haze; halo round the moon at 16 <sup>h</sup> and 17 <sup>h</sup> - - - - -	0.3	0.9	1.0	1.0	30.2	17.9	—	37.5
22	Overcast with light cir. and haze; occasional slight snow till 2 <sup>h</sup> ; remainder of the day dense haze - - - - -	0.6	1.0	1.0	1.0	29.7	11.1	—	41.9
23	High wind; snow and drift to 13 <sup>h</sup> , when snow ceased and wind moderated	1.0	0.7	0.1	0.1	33.6	11.9	—	49.7
24	Generally clear; halo round the sun at 3 <sup>h</sup> , 4 <sup>h</sup> , and 5 <sup>h</sup> ; clouded over at 12 <sup>h</sup> ; almost clear to 22 <sup>h</sup> ; clouded from 22 <sup>h</sup> - - - - -	0.2	0.2	1.0	0.1	18.7	10.7	—	29.5
25	Continued clouded to 8 <sup>h</sup> ; slight snow occasionally; quite clear at 11 <sup>h</sup> -	1.0	0.8	—	0.0	26.7	14.4	—	46.7
26	Nearly clear during the day; overcast with haze from 12 <sup>h</sup> ; constant snow and heavy drift from 20 <sup>h</sup> - - - - -	0.3	—	1.0	1.0	30.7	5.9	—	40.3
27	Snow and heavy drift continued to 14 <sup>h</sup> , when it turned to rain; very high wind - - - - -	1.0	1.0	1.0	1.0	35.9	18.9	0.375	60.0
28	Constant rain and high wind to 6 <sup>h</sup> 30 <sup>m</sup> , when it became almost calm, and the rain ceased; cleared rapidly from 11 <sup>h</sup> to 12 <sup>h</sup> ; clear from 12 <sup>h</sup> to 17 <sup>h</sup> ; partially clouded from 18 <sup>h</sup> to 19 <sup>h</sup> - - - - -	1.0	1.0	0.2	1.0	34.5	25.9	—	37.9
29	Generally clouded all day with cir.-cum. and cum., with clear spaces -	0.9	0.5	0.9	0.6	39.9	19.3	—	54.6
30	Partially clouded with cir., cir.-strat., and cir.-cum. to 2 <sup>h</sup> ; remainder of the day densely clouded; snow from 10 <sup>h</sup> to 17 <sup>h</sup> - - - - -	1.0	1.0	1.0	1.0	35.9	18.5	—	53.2
31	Densely overcast; constant snow and much drift to 13 <sup>h</sup> ; remainder clouded - - - - -	1.0	1.0	1.0	0.8	30.9	22.2	—	51.7
<b>APRIL.</b>									
1	Generally clouded with cir.-cum. and cum.-strat.; clear at 10 <sup>h</sup> ; some slight snow - - - - -	0.6	0.8	—	0.1	30.6	21.1	—	37.9
2	Clear to 18 <sup>h</sup> ; light cir.-cum. to 20 <sup>h</sup> ; clear from 20 <sup>h</sup> - - - - -	0.0	—	0.0	0.1	34.9	14.7	—	50.2
3	The day and night clear; morning generally clouded - - - - -	0.0	0.0	0.1	1.0	39.1	15.3	—	—
4	Generally clouded; snow from 1 <sup>h</sup> 40 <sup>m</sup> to 9 <sup>h</sup> 50 <sup>m</sup> ; remainder of day hazy	1.0	1.0	0.5	1.0	39.4	23.1	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
APRIL.									
5	Hazy and partially clouded with cir.-cum.; auroral light in N. from 10 <sup>h</sup> to 17 <sup>h</sup>	0.7	0.5	0.6	0.2	38.3	26.2	—	—
6	Generally clouded to 7 <sup>h</sup> ; occasional showers of hail; aurora from 8 <sup>h</sup> to 14 <sup>h</sup> , and clear; partially clouded from 18 <sup>h</sup> to 0 <sup>h</sup>	0.9	1.0	0.0	0.7	41.6	28.4	—	—
7	Partially clouded with light cir. and haze; halo round the moon from 8 <sup>h</sup> to 10 <sup>h</sup>	1.0	1.0	1.0	0.8	42.9	25.2	—	—
8	Generally clouded with cir.-cum., cir.-strat. and haze; very slight rain from 6 <sup>h</sup> to 9 <sup>h</sup>	0.8	1.0	—	1.0	44.9	33.5	—	—
9	Clouded generally with cir.-cum. and cum.-strat.; brisk wind	0.5	—	1.0	0.2	49.9	30.2	—	—
10	Clear all day except a few light cir. and cir.-strat.; clouds on horizon	0.0	0.0	0.1	0.1	43.8	31.3	—	—
11	Clear, except a few cir.-cum. and cir.-strat. occasionally appearing	0.1	0.0	0.0	0.0	44.4	29.5	—	—
12	Quite clear to 19 <sup>h</sup> ; densely clouded with cir.-cum. and haze from 19 <sup>h</sup>	0.0	0.0	0.0	1.0	49.8	27.4	—	—
13	Densely clouded with cir.-cum. and haze	1.0	1.0	—	1.0	53.8	32.7	—	—
14	Generally clouded with cir.-cum. and haze; foggy	1.0	—	1.0	1.0	50.2	37.4	—	—
15	Generally clouded with cir.-cum. and haze	1.0	0.6	—	0.4	54.6	35.5	—	—
16	Partially clouded with cir.-cum. and cir.-strat.; halo round the sun from 19 <sup>h</sup> to 23 <sup>h</sup> , diameter about 30°	1.0	—	0.1	1.0	56.0	37.7	—	—
17	Overcast; light cir. and haze; heavy snow from 19 <sup>h</sup>	1.0	1.0	1.0	1.0	53.3	36.2	—	—
18	Clouded all day with cir.-cum. and haze; heavy snow continued to 2 <sup>h</sup> 20 <sup>m</sup> ; turned to rain; ceased at 8 <sup>h</sup>	1.0	1.0	1.0	1.0	47.4	34.2	0.680	—
19	Clouded with cir.-cum., cum.-strat. and haze to 22 <sup>h</sup> ; partially clouded from 22 <sup>h</sup>	1.0	1.0	1.0	1.0	37.4	33.7	—	—
20	Partially clouded to 8 <sup>h</sup> ; remainder clear, save light haze; halo round the moon at 1 <sup>h</sup> and 15 <sup>h</sup> , diameter 30°	0.5	0.1	0.0	0.0	43.5	35.6	—	—
21	Clear to 8 <sup>h</sup> ; remainder of day partially clouded with light cir.-cum., cir.-strat. and haze	0.1	0.7	1.0	0.5	50.3	31.2	—	—
22	Clouded to 4 <sup>h</sup> with cir.-cum., when it began to rain and continued to 12 <sup>h</sup>	1.0	1.0	—	1.0	59.8	43.2	0.550	—
23	Cloudy; cir.-cum., cum.-strat. and haze; rain at 16 <sup>h</sup>	0.7	—	1.0	1.0	56.3	42.5	0.300	—
24	Densely clouded all day with cum.-strat.; cir.-strat. and haze	1.0	1.0	1.0	1.0	64.7	48.2	—	—
25	Partially clouded to 12 <sup>h</sup> , sheet lightning and densely clouded to 17 <sup>h</sup> ; showers of rain at 18 <sup>h</sup> , 19 <sup>h</sup> , and 20 <sup>h</sup>	0.2	0.2	1.0	1.0	58.8	43.7	—	—
26	Clouded; lightning and thunder at 8 <sup>h</sup> ; rain from 14 <sup>h</sup> to 21 <sup>h</sup>	1.0	1.0	1.0	1.0	53.8	41.7	0.055	—
27	Clear and calm	0.8	0.1	0.1	0.1	62.5	40.7	0.800	—
28	Generally clear, except detached cir.-cum. dispersed about	0.8	0.1	1.0	1.0	59.5	37.7	0.050	—
29	Clouded to 1 <sup>h</sup> ; remainder partially clouded with cir.-strat.; commenced to rain at 20 <sup>h</sup> ; and became constant from 21 <sup>h</sup>	0.6	0.3	—	1.0	71.6	38.2	—	—
30	Constant rain continued to 7 <sup>h</sup> ; clouded densely with cir.-cum. and cum.-strat.	1.0	—	0.7	1.0	43.1	37.2	0.750	—
MAY.									
1	Densely clouded all day with cir.-cum. and cum.-strat.; halo round the sun from 18 <sup>h</sup> , diameter 40° to 35°; parhelia at 19 <sup>h</sup>	1.0	1.0	1.0	1.0	47.9	35.7	—	—
2	Halo continued round the sun to 3 <sup>h</sup> ; clear from 7 <sup>h</sup>	1.0	0.0	0.0	0.1	44.8	32.1	—	—
3	Partially clouded with cir., cir.-strat. and haze; clear at 5 <sup>h</sup>	0.5	0.3	0.7	1.0	51.8	29.2	—	—
4	Generally clouded; cir. and haze; very slight rain from 1 <sup>h</sup> to 2 <sup>h</sup> , 5 <sup>h</sup> to 7 <sup>h</sup> , and 10 <sup>h</sup> to 12 <sup>h</sup>	1.0	1.0	0.6	1.0	53.8	37.7	—	—
5	Densely clouded all day with cir.-cum. and cum.-strat.; brisk wind from N.E. and E.; slight shower of rain at 21 <sup>h</sup> 45 <sup>m</sup>	1.0	1.0	1.0	1.0	47.4	36.7	—	—
6	Densely clouded; cir., cir.-cum. and haze; halo and lightning at 9 <sup>h</sup>	1.0	1.0	—	0.1	47.9	38.0	—	—
7	Partially clear to 3 <sup>h</sup> ; remainder clouded with cir.-cum. and haze	0.7	—	1.0	1.0	58.0	40.7	—	—
8	Clouded with cum.-strat. and cir.-cum. to 9 <sup>h</sup> ; remainder of day quite clear	1.0	0.2	0.0	0.7	64.0	44.7	—	—
9	Generally clouded with cum. and cir.-cum.; occasionally a few clear spaces	1.0	1.0	1.0	1.0	57.0	31.9	—	—
10	Uniformly clouded all day; rain from 7 <sup>h</sup> to 12 <sup>h</sup>	1.0	1.0	1.0	0.3	58.3	46.0	0.190	—
11	Generally clear, except light cir. and haze; double halo from 8 <sup>h</sup> to 10 <sup>h</sup> , single halo from 10 <sup>h</sup> to 13 <sup>h</sup>	0.0	0.1	0.2	0.0	57.8	46.5	—	—
12	Mostly clear to 6 <sup>h</sup> ; remainder clouded with cir., cir.-cum. and haze	0.3	1.0	1.0	0.8	65.5	42.7	—	—
13	Partially clear most of the day; occasionally entirely clouded with cir.-cum. and cum.-strat.	0.2	1.0	—	0.6	70.0	48.5	—	—
14	Partially clouded with cum.-strat. and cir.-cum.; lightning and thunder from 12 <sup>h</sup> to 14 <sup>h</sup> ; rain at 23 <sup>h</sup> 30 <sup>m</sup>	0.4	—	0.8	0.4	72.8	51.0	—	—
15	Loud peal of thunder at 0 <sup>h</sup> ; partially clouded all day with cum. and cum.-strat.	0.6	0.7	1.0	0.0	71.3	51.0	—	—
16	Generally clear; a few clouds appeared occasionally; detached cir.-cum.	0.1	0.0	0.0	0.1	79.8	49.2	—	—
17	Generally clear; a few cir.-cum. and cir.-strat. appeared; wind shifted at 6 <sup>h</sup> from S. to N.N.E.	0.6	0.1	0.4	0.2	67.3	35.7	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
18	Generally clear to 12 <sup>h</sup> ; remainder of day clouded with cir.-strat. and haze	0.0	0.5	1.0	1.0	61.9	30.2	In.	o
19	Overcast with cir. and haze till 2 <sup>h</sup> ; remainder quite clear, except haze round horizon	0.4	0.1	0.0	0.0	66.5	40.7	—	—
20	Clear all day; haze round horizon from 6 <sup>h</sup> to 11 <sup>h</sup>	0.0	0.1	—	0.0	62.5	33.7	—	—
21	Generally clear to 13 <sup>h</sup> ; remainder overcast with dense cir. and haze; slight rain from 23 <sup>h</sup>	0.3	—	1.0	1.0	69.0	35.2	—	—
22	Overcast with dense haze; rain continued slightly to 7 <sup>h</sup> , and again at 9 <sup>h</sup> ; heavy showers of rain and hail, also lightning and thunder from 23 <sup>h</sup>	1.0	1.0	1.0	1.0	70.8	45.7	0.120	—
23	Rain, hail, thunder, and lightning continued to 2 <sup>h</sup> ; clouded to 7 <sup>h</sup> ; quite clear from 8 <sup>h</sup> to 17 <sup>h</sup> ; halo round the sun at 22 <sup>h</sup> , diameter 30°	0.3	0.0	0.0	1.0	59.3	46.7	0.350	—
24	Mostly clear; sheet lightning in S.W. at 11 <sup>h</sup> and 12 <sup>h</sup> ; clouded from 18 <sup>h</sup> to 23 <sup>h</sup>	0.0	0.0	0.2	1.0	62.5	40.7	—	—
25	Partially clear to 10 <sup>h</sup> ; remainder of day clouded; sheet lightning and thunder in S.W. from 10 <sup>h</sup> to 14 <sup>h</sup> ; light rain between 12 <sup>h</sup> and 13 <sup>h</sup>	0.3	0.8	1.0	1.0	71.2	40.9	—	—
26	Clouded all day with cir., cir.-cum. and haze; lightning and thunder with showers of rain from 1 <sup>h</sup> to 3 <sup>h</sup> ; heavy shower of rain at 6 <sup>h</sup> with loud thunder, sheet lightning, and distant thunder from 9 <sup>h</sup> to 12 <sup>h</sup>	1.0	1.0	1.0	1.0	62.5	49.2	0.170	—
27	Generally clouded cum.-strat., cir.-cum. and haze	1.0	0.6	—	0.0	59.5	47.7	—	—
28	Mostly clear; halo round the sun at 3 <sup>h</sup> 40 <sup>m</sup> , diameter about 30°	0.3	—	0.3	0.5	57.3	44.2	—	—
29	Partially clouded to 8 <sup>h</sup> with cum. and cum.-strat.; remainder quite clear	0.3	0.0	0.0	0.5	62.7	47.7	—	—
30	Clouded and raining from 0 <sup>h</sup> to 5 <sup>h</sup> 15 <sup>m</sup> ; clear from 10 <sup>h</sup> to 14 <sup>h</sup> ; remainder partially clouded	1.0	0.2	0.3	1.0	67.5	38.2	0.740	—
31	Generally clouded cir.-cum. and cum.-strat.; a few clear spaces occasionally	1.0	0.8	0.8	1.0	55.8	36.2	—	—
JUNE.									
1	Clouded to 8 <sup>h</sup> with cum.-strat. and cir.-cum.; remainder of day light cir. occasionally; frost at night	0.9	0.3	0.1	1.0	46.9	35.6	—	—
2	Densely clouded all day; rain from 5 <sup>h</sup> to 10 <sup>h</sup> 40 <sup>m</sup> and 13 <sup>h</sup> to 17 <sup>h</sup>	1.0	1.0	1.0	1.0	51.6	28.2	0.600	—
3	Clouded; a few clear spaces occasionally; rain from 18 <sup>h</sup> to 22 <sup>h</sup> 30 <sup>m</sup>	1.0	1.0	—	1.0	53.8	40.7	—	—
4	Clouded; slight rain from 12 <sup>h</sup> to 17 <sup>h</sup>	1.0	—	1.0	1.0	54.8	43.7	0.765	—
5	Clouded; slight drizzling rain all day, except at 0 <sup>h</sup> , 1 <sup>h</sup> , 8 <sup>h</sup> , 11 <sup>h</sup> and 17 <sup>h</sup>	1.0	1.0	1.0	0.8	54.8	43.7	0.330	—
6	Clouded to 9 <sup>h</sup> ; cir.-strat., cum.-strat. and cir.-cum.; slight rain at 4 <sup>h</sup> and 6 <sup>h</sup> ; quite clear from 10 <sup>h</sup> to 17 <sup>h</sup> ; clear at 21 <sup>h</sup> and 22 <sup>h</sup> ; halo round the sun at 18 <sup>h</sup> , 19 <sup>h</sup> , 20 <sup>h</sup> , and 23 <sup>h</sup> , diameter 40°—25°	1.0	0.6	0.0	0.0	53.3	43.9	0.055	—
7	Halo round the sun at 0 <sup>h</sup> ; generally overcast with cir. and haze; halo round the sun at 18 <sup>h</sup> and 19 <sup>h</sup> ; slight rain from 22 <sup>h</sup>	1.0	1.0	0.2	1.0	57.8	35.2	—	—
8	Clouded; slight rain continued to 1 <sup>h</sup> ; remainder showery; sheet lightning in the west at 17 <sup>h</sup> ; halo round the sun at 21 <sup>h</sup> , diameter 30° and 35°; thunder storms and vivid lightning at intervals	1.0	1.0	1.0	1.0	63.0	44.2	0.160	—
9	Clouded with cir.-cum. and cum.; halo round the moon at 9 <sup>h</sup> , diameter 30° and 35°; thunder storms and vivid lightning during the day; heavy showers of rain; rainbow at 5 <sup>h</sup> , lightning and thunder at night	1.0	1.0	1.0	1.0	71.8	48.1	1.220	—
10	Clouded with cir.-strat. and haze; light and moderate rain during the day, except from 0 <sup>h</sup> to 1 <sup>h</sup> ; clouded with cir. and haze from 18 <sup>h</sup> to 21 <sup>h</sup>	1.0	1.0	—	1.0	77.8	47.2	0.600	—
11	Partially clouded; quite clear at 17 <sup>h</sup>	0.6	—	0.4	0.0	55.3	45.7	—	—
12	Generally clear except light cir. and haze occasionally; halo round the sun at 5 <sup>h</sup> and 6 <sup>h</sup> , diameter 30°; clouded from 18 <sup>h</sup>	0.1	0.3	0.4	1.0	61.5	44.7	—	—
13	Clouded at 0 <sup>h</sup> ; remainder of day partially clouded with nim., cir.-cum. and cum.; thunder storms and showers of rain during the day; rainbow at 5 <sup>h</sup> 30 <sup>m</sup>	0.4	0.6	0.1	0.5	73.8	48.2	0.270	—
14	Partially clouded to 5 <sup>h</sup> ; remainder of day quite clear	0.3	0.0	0.0	0.0	70.3	50.5	—	—
15	Clear to 1 <sup>h</sup> ; remainder of day clouded with cir.-cum. and cir.-strat.; slight rain at 12 <sup>h</sup> , 16 <sup>h</sup> , and 17 <sup>h</sup>	0.7	1.0	1.0	1.0	70.1	39.2	0.030	—
16	Generally clouded with cum.-strat., cum. and nim.; rain from 7 <sup>h</sup> to 8 <sup>h</sup> ; wind shifted at 7 <sup>h</sup> from S.S.W. to N.N.W.; double rainbow at 7 <sup>h</sup> 30 <sup>m</sup>	0.6	1.0	0.7	0.1	61.5	49.9	0.165	—
17	Clear, except a few detached cir.-cum. generally dispersed	0.3	0.0	—	0.0	67.0	49.2	—	—
18	Generally clear	0.2	—	0.0	0.0	68.0	42.2	—	—
19	Clear, except a few cir. occasionally dispersed; partially clouded from 21 <sup>h</sup>	0.2	0.0	0.0	1.0	69.8	43.2	—	—
20	Partially clouded to 9 <sup>h</sup> ; remainder of day quite clear; halo round the sun at 0 <sup>h</sup> , diameter 30°	0.6	0.7	0.1	1.0	71.8	48.5	—	—
21	Partially clouded from 0 <sup>h</sup> to 4 <sup>h</sup> ; remainder quite clear	0.2	0.1	0.0	—	77.8	58.0	—	—
22	Clouded with cir. and haze at 3 <sup>h</sup> and 4 <sup>h</sup> ; remainder partially clouded; sheet lightning in N.E. and S.W. at 13 <sup>h</sup> and 14 <sup>h</sup>	1.0	0.7	0.2	1.0	80.8	55.0	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3h.	9h.	15h.	21h.				
<b>JUNE.</b>									
23	Mostly clouded with cum. and cir.-cum.; thunder in N. and N.W. at 0 <sup>h</sup> and 1 <sup>h</sup> ; sheet lightning from 9 <sup>h</sup> to 13 <sup>h</sup> in N.W., E. and S.E.; rain from 18 <sup>h</sup> to 23 <sup>h</sup>	0.7	0.7	1.0	1.0	81.8	60.0	—	—
24	Mostly clouded to 9 <sup>h</sup> , remainder clear; clouded at 21 <sup>h</sup>	0.6	0.0	—	1.0	79.8	59.5	0.350	—
25	Clear	0.2	—	0.0	0.5	80.8	57.5	—	—
26	Partially clouded to 5 <sup>h</sup> with cir.-cum. and haze; remainder quite clear	0.5	0.0	0.0	0.0	73.8	52.0	—	—
27	Clear to 1 <sup>h</sup> ; partially clouded from 2 <sup>h</sup> to 11 <sup>h</sup> ; remainder clouded with cum.-strat., cir.-strat. and cir.-cum.; clouded to 23 <sup>h</sup> ; rain from 18 <sup>h</sup> to 19 <sup>h</sup>	0.5	0.4	1.0	1.0	81.8	59.0	Not appreciable.	—
28	Partially clouded from 0 <sup>h</sup> to 13 <sup>h</sup> ; remainder clouded with cum.-strat., cir.-cum. and cum.; rain from 15 <sup>h</sup> to 16 <sup>h</sup> ; sheet lightning in S.W. at 16 <sup>h</sup> ; clouded till 23 <sup>h</sup>	0.2	0.6	1.0	1.0	83.3	62.5	0.050	—
29	Partially clouded from 0 <sup>h</sup> to 9 <sup>h</sup> ; remainder clear; thunder in N. at 4 <sup>h</sup> ; clouded from 18 <sup>h</sup> to 20 <sup>h</sup>	0.9	0.4	0.1	0.7	79.3	60.5	—	—
30	Mostly clear; auroral light in N. at 12 <sup>h</sup> and 13 <sup>h</sup>	0.6	0.3	0.0	0.4	80.8	54.5	—	—
<b>JULY.</b>									
1	Generally clear; a few light cum.-strat. and haze occasionally round horizon; clouded at 21 <sup>h</sup> ; partially clouded from 22 <sup>h</sup>	0.1	0.0	—	1.0	82.3	62.5	—	—
2	Partially clouded to 11 <sup>h</sup> ; quite clear from 12 <sup>h</sup> to 17 <sup>h</sup> ; faint auroral light at 14 <sup>h</sup> ; clouded from 23 <sup>h</sup>	0.6	—	0.0	0.1	86.8	66.5	—	—
3	Clouded to 6 <sup>h</sup> ; remainder of the day quite clear	1.0	0.0	0.0	0.6	75.8	44.7	—	—
4	Generally clouded with cir.-cum. and cir.-strat.; slight rain between 7 <sup>h</sup> and 8 <sup>h</sup> , and from 12 <sup>h</sup> to 17 <sup>h</sup> ; detached cum. occasionally from 18 <sup>h</sup>	0.8	1.0	1.0	0.2	72.5	47.9	0.100	—
5	Mostly clear; detached cum. occasionally to 6 <sup>h</sup> ; remainder quite clear	0.2	0.1	0.0	0.0	72.2	57.0	—	—
6	Partially clear from 0 <sup>h</sup> to 8 <sup>h</sup> ; remainder clouded; rain from 15 <sup>h</sup> to 19 <sup>h</sup> 45 <sup>m</sup>	0.2	1.0	1.0	1.0	74.8	50.5	0.310	—
7	Mostly clear from 0 <sup>h</sup> to 9 <sup>h</sup> ; remainder quite clear; auroral light in N. at 13 <sup>h</sup> and 14 <sup>h</sup> ; partially clouded from 18 <sup>h</sup> with cum. and cir.-cum. dispersed	0.2	0.2	0.0	0.1	76.6	53.7	—	—
8	Partially clouded with cum. and cir.-cum. widely dispersed to 21 <sup>h</sup> ; clear from 21 <sup>h</sup>	0.5	0.1	—	0.0	78.2	50.7	—	—
9	Partially clouded with cir. and cir.-cum.	1.0	—	0.6	0.7	82.8	54.0	—	—
10	Generally clouded with cir.-cum. and cir.-strat.; a few clear spaces; halo round the moon at 10 <sup>h</sup> , 12 <sup>h</sup> , and 13 <sup>h</sup> , diameter 35° to 40°; halo round the sun from 20 <sup>h</sup> , diameter from 40° to 35°	0.8	1.0	1.0	0.8	80.0	55.5	—	—
11	Halo continued round the sun to 5 <sup>h</sup> ; generally overcast with light cir. and haze; clear from 14 <sup>h</sup> ; white frost at 17 <sup>h</sup>	1.0	0.7	0.0	0.0	77.2	49.5	—	—
12	Unclouded, but hazy all day	0.0	0.1	0.0	0.0	67.5	38.7	—	—
13	Unclouded, but hazy to 6 <sup>h</sup> ; remainder of the day light cir.-cum. and cir.; hazy from 18 <sup>h</sup> to 22 <sup>h</sup>	0.0	1.0	0.7	0.0	77.8	46.9	—	—
14	Clouded with cir.-cum. and haze; rain from 17 <sup>h</sup> to 20 <sup>h</sup> 30 <sup>m</sup>	1.0	1.0	1.0	1.0	75.8	53.0	0.150	—
15	Clouded with cir.-cum. and cir.-strat.; sheet lightning in W. and N. at 11 <sup>h</sup>	1.0	1.0	—	0.6	84.3	62.2	1.000	—
16	Mostly clouded with cir.-cum. and cir.-strat.; incessant sheet lightning in E. and S. horizon from 12 <sup>h</sup> to 15 <sup>h</sup> ; rain at 17 <sup>h</sup>	0.9	—	1.0	1.0	75.5	61.6	0.100	—
17	Generally clouded, with occasional clear intervals; heavy thunder-storms with rain during the day, and vivid forked and sheet lightning	1.0	0.3	0.2	0.6	77.3	63.5	1.690	—
18	Mostly clear; detached cum. and cir.-cum. occasionally dispersed over the sky	0.5	0.1	0.0	0.1	81.0	62.5	—	—
19	Clear all day except occasional cir.-cum. and cum.-strat. in S. and W. horizon	0.1	0.0	0.0	0.0	84.4	60.2	—	—
20	Quite clear all day	0.0	0.0	0.0	0.0	71.5	45.2	—	—
21	Quite clear all day	0.0	0.0	0.0	0.0	75.3	42.2	—	—
22	In general clear; a few light cir. and cir.-cum. to 7 <sup>h</sup> ; clear at 21 <sup>h</sup> ; partially clouded from 22 <sup>h</sup>	0.4	0.0	—	0.0	75.8	52.0	—	—
23	Partially clouded to 13 <sup>h</sup> ; remainder of the day densely clouded; lightning and thunder from 12 <sup>h</sup> to 14 <sup>h</sup> ; rain from 14 <sup>h</sup> to 17 <sup>h</sup> 45 <sup>m</sup>	0.4	—	1.0	1.0	81.8	55.5	0.550	—
24	Partially clouded from 0 <sup>h</sup> to 6 <sup>h</sup> ; remainder of day quite clear	0.6	0.0	0.0	0.0	82.8	63.5	—	—
25	Partially clouded from 1 <sup>h</sup> to 8 <sup>h</sup> with cir. and cir.-strat.; remainder of day quite clear; auroral light in N. from 9 <sup>h</sup> to 13 <sup>h</sup>	0.7	0.0	0.0	0.4	77.6	56.7	—	—
26	Partially clouded at intervals; thunder and lightning at 0 <sup>h</sup> and 1 <sup>h</sup> with drops of rain; very heavy storm of lightning and rain at 6 <sup>h</sup> ; lightning continued to 14 <sup>h</sup> ; auroral light in N. at 10 <sup>h</sup> , 14 <sup>h</sup> , and 15 <sup>h</sup>	0.7	0.1	0.0	0.0	77.8	52.5	0.525	—
27	Generally clear to 17 <sup>h</sup> , when it clouded over with cir.-strat., cir. and haze	0.1	0.1	0.5	0.0	85.8	57.5	—	—
28	Clouded and clear alternately with cir.-cum. and cir.-strat.; lightning, thunder and rain from 3 <sup>h</sup> to 5 <sup>h</sup> ; lightning in S. at 10 <sup>h</sup> and 11 <sup>h</sup>	0.9	0.1	0.8	1.0	75.8	58.0	0.180	—
29	Partially clear	0.7	0.2	—	0.0	82.3	61.8	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
JULY.									
30	Clear except at 3 <sup>h</sup> ; cir.-cum. and cir. dispersed; clear at intervals	0.5	—	0.0	0.0	70.8	50.5	In.	°
31	Partially clouded with cum. and cir.-cum.; generally clear from 18 <sup>h</sup> to 22 <sup>h</sup>	0.7	0.6	0.3	0.0	71.8	44.7	—	—
AUGUST.									
1	Clear from 14 <sup>h</sup> to 17 <sup>h</sup> ; remainder of day mostly clouded with detached cir.-cum.	0.8	0.8	1.0	0.0	73.8	51.5	—	—
2	Clear from 12 <sup>h</sup> to 17 <sup>h</sup> ; remainder of day partially clouded with light cir.-cum.	0.2	0.3	0.0	0.0	72.8	44.0	—	—
3	Generally clear; light haze; auroral light from 9 <sup>h</sup> 30 <sup>m</sup> to 10 <sup>h</sup> 15 <sup>m</sup>	0.1	0.0	0.0	0.0	75.8	49.2	—	—
4	Uncolored and light haze to 2 <sup>h</sup> ; remainder of day clouded with cir.-cum. and cum.-strat.; a few clear spaces	0.3	0.7	0.9	1.0	80.8	53.5	—	—
5	Clouded with cir.-cum. and haze to 6 <sup>h</sup> , some clear spaces during the remainder of the day	1.0	0.4	—	1.0	78.8	60.0	—	—
6	Generally clouded with cir., cir.-strat. and haze	0.9	—	1.0	1.0	79.2	58.5	—	—
7	Clouded all day with cir.-cum. and cir.-strat.; thunder and rain between 0 <sup>h</sup> and 3 <sup>h</sup> ; halo round the moon at 12 <sup>h</sup> and 13 <sup>h</sup> , diameter about 40°	1.0	1.0	1.0	1.0	77.3	63.0	0.205	—
8	Clouded all day with cum., cir.-cum. and haze; halo round the moon at 12 <sup>h</sup> , 13 <sup>h</sup> , and 14 <sup>h</sup> ; imperfect	1.0	1.0	1.0	1.0	81.8	61.5	—	—
9	Clouded all day with cir.-cum. and haze; light cir. and cir.-strat. from 18 <sup>h</sup> to 23 <sup>h</sup>	1.0	1.0	0.9	0.0	76.8	52.5	—	—
10	Uncolored but hazy; light cir. and cir.-strat. to 14 <sup>h</sup>	1.0	0.9	0.0	0.0	74.3	56.5	—	—
11	Generally unclouded; hazy; light cir.-cum. and cum. occasionally from 0 <sup>h</sup> to 10 <sup>h</sup>	0.5	0.2	0.0	0.8	77.8	60.0	—	—
12	Clouded generally with cir. and haze to 8 <sup>h</sup> ; remainder of day clear	0.7	0.0	—	0.0	79.5	55.5	—	—
13	Mostly clouded with cir.-cum. and cir.; rain from 19 <sup>h</sup> to 21 <sup>h</sup> 30 <sup>m</sup>	0.6	—	0.9	1.0	82.3	53.5	1.270	—
14	Partially clouded from 0 <sup>h</sup> to 9 <sup>h</sup> with cir.-cum. and cum.-strat; remainder of the day clear	0.3	0.3	0.0	0.6	82.8	60.0	—	—
15	Clear from 9 <sup>h</sup> to 14 <sup>h</sup> ; remainder of day partially clouded with cir.-cum. and cum.-strat.	0.4	0.0	0.5	0.0	80.8	57.5	—	—
16	Clear to 12 <sup>h</sup> ; remainder of the day clouded with cir.-cum. and cum.-strat.; lightning in N.W. at 9 <sup>h</sup> ; thunder and lightning from 14 <sup>h</sup> to 18 <sup>h</sup> , accompanied with rain; halo round the moon at 12 <sup>h</sup>	0.0	0.0	1.0	1.0	77.0	54.0	0.125	—
17	Clouded with cir.-cum. and cum.-strat. all day	1.0	1.0	1.0	1.0	81.9	62.0	—	—
18	Clear from 8 <sup>h</sup> to 11 <sup>h</sup> ; remainder of day mostly clouded; halo round the sun from 20 <sup>h</sup>	0.8	0.0	0.5	0.5	78.0	56.9	—	—
19	Halo continued round the sun to 2 <sup>h</sup> , diameter about 30°; mostly clouded with light cir. and haze	1.0	1.0	—	1.0	73.3	47.7	—	—
20	Clouded most of the day with cir.-strat. and cir.-cum.; clear at 12 <sup>h</sup> and 17 <sup>h</sup>	1.0	—	0.8	0.0	72.3	57.5	—	—
21	Clear, except a few scattered cum. in N. horizon; hazy to 21 <sup>h</sup>	0.1	0.2	0.0	0.0	72.6	55.0	—	—
22	Partially clouded to 6 <sup>h</sup> ; remainder of the day clouded with cir.-cum. and cir.-strat.	0.3	1.0	0.6	0.0	74.8	51.5	—	—
23	Generally clear; a few cum. and cir.-cum. occasionally	0.2	0.1	0.0	0.0	72.8	51.5	—	—
24	Mostly clear; overcast from 5 <sup>h</sup> to 9 <sup>h</sup> with light cir. and cir.-strat.	0.2	0.4	0.0	0.0	75.6	46.7	—	—
25	Clouded with light cir. and haze from 4 <sup>h</sup> to 8 <sup>h</sup> ; remainder of day clear	0.3	0.0	0.0	0.0	75.8	48.7	—	—
26	Partially clouded with cir.-cum. and haze	0.5	0.7	—	1.0	77.3	55.0	—	—
27	Generally clouded; heavy rain from 9 <sup>h</sup> to 11 <sup>h</sup> 30 <sup>m</sup> with lightning and thunder; slight rain and sheet lightning continued to 15 <sup>h</sup> ; clouded to 23 <sup>h</sup> , when the weather began to clear	0.9	—	0.8	1.0	83.1	61.0	3.250	—
28	Cleared gradually to 7 <sup>h</sup> ; remainder of day quite clear	0.4	0.0	0.0	0.0	79.3	65.0	—	—
29	Clear all day, except light haze round horizon	0.0	0.0	0.0	0.0	77.8	60.0	—	—
30	Uncolored, but light haze to 5 <sup>h</sup> ; remainder of day partially clouded with cir.-cum. and cir.-strat.	0.1	0.4	0.8	0.5	77.8	55.5	—	—
31	Partially clouded all day with cir.-cum.; clear spaces	0.4	0.6	0.1	1.0	83.0	64.5	—	—
SEPTEMBER.									
1	Clouded all day with cir.-cum. and haze; a few drops of rain at 21 <sup>h</sup>	1.0	1.0	0.8	1.0	85.8	62.3	—	—
2	Clouded all day with cir.-cum. and haze; a few drops of rain at 4 <sup>h</sup> and 5 <sup>h</sup> ; fog at 11 <sup>h</sup>	0.8	1.0	—	1.0	80.0	64.5	—	—
3	Dense mist; partially clear from 3 <sup>h</sup> ; sheet lightning in horizon at 12 <sup>h</sup> and 13 <sup>h</sup> ; partially clouded from 18 <sup>h</sup>	0.6	—	0.8	0.2	83.3	70.0	—	—
4	Partially clouded from 0 <sup>h</sup> to 12 <sup>h</sup> ; totally clouded with cum.-strat. and cir.-cum. to 23 <sup>h</sup>	0.6	0.3	1.0	1.0	89.0	65.0	—	—
5	Partially clouded from 0 <sup>h</sup> to 9 <sup>h</sup> ; remainder of day clouded with cir., cir.-cum. and cir.-strat.	0.3	0.5	1.0	1.0	80.8	60.0	—	—
6	Clouded all day with cir.-cum. and haze; rain from 10 <sup>h</sup> to 20 <sup>h</sup> 15 <sup>m</sup>	1.0	1.0	1.0	1.0	72.3	57.5	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
SEPTEMBER.									
7	Partially clear from 0 <sup>h</sup> to 11 <sup>h</sup> ; remainder of day clouded with cir.-cum. and cum.-strat. - - - - -	0·6	0·0	1·0	1·0	71·8	64·5	0·470	—
8	Partially clouded to 12 <sup>h</sup> ; remainder of day quite clear - - - - -	0·7	0·2	0·0	0·0	72·8	60·0	—	—
9	Partially clouded from 0 <sup>h</sup> to 8 <sup>h</sup> ; remainder clouded; halo round the moon at 8 <sup>h</sup> , 9 <sup>h</sup> , and 10 <sup>h</sup> , diameter about 35° to 40° - - - - -	0·2	0·8	—	1·0	75·8	47·2	—	—
10	Clouded to 11 <sup>h</sup> , remainder nearly clear; frost at 18 <sup>h</sup> - - - - -	0·9	—	0·1	0·1	63·4	43·2	—	—
11	Clear all day except a few light cir.-cum. in S. horizon - - - - -	0·0	0·0	0·0	0·0	62·0	39·7	—	—
12	Unclouded but hazy; clouded with cir.-cum. and haze from 19 <sup>h</sup> - - - - -	0·0	0·0	0·0	1·0	65·5	41·7	—	—
13	Clouded with cir.-cum. and haze; rain from 12 <sup>h</sup> to 17 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	62·5	42·2	0·200	—
14	Continued raining from 0 <sup>h</sup> to 22 <sup>h</sup> 30 <sup>m</sup> ; clouded - - - - -	1·0	1·0	1·0	1·0	62·0	54·5	3·455	—
15	Clouded to 1 <sup>h</sup> ; remainder partially clear and clouded alternately; rain at intervals from 5 <sup>h</sup> to 13 <sup>h</sup> - - - - -	0·7	0·1	0·4	0·1	59·3	54·5	1·720	—
16	Partially clouded to 6 <sup>h</sup> ; remainder of day quite clear - - - - -	0·6	0·0	—	0·0	71·1	56·0	—	—
17	Clear to 13 <sup>h</sup> ; remainder partially clouded; sheet lightning round horizon from 12 <sup>h</sup> to 14 <sup>h</sup> - - - - -	0·0	—	0·8	0·4	69·8	57·0	—	—
18	Partially clear to 7 <sup>h</sup> ; remainder of day quite clear; faint auroral light in the N. at 10 <sup>h</sup> and 14 <sup>h</sup> - - - - -	0·8	0·0	0·0	0·0	75·8	60·8	—	—
19	Cloudy from 0 <sup>h</sup> to 6 <sup>h</sup> , and at 8 <sup>h</sup> and 9 <sup>h</sup> ; clear at 17 <sup>h</sup> ; remainder partially clear; rain between 21 <sup>h</sup> and 23 <sup>h</sup> - - - - -	1·0	0·3	1·0	0·8	76·8	47·2	—	—
20	Slight showers; generally clear - - - - -	0·2	0·0	0·0	0·0	65·7	54·5	0·400	—
21	Clouded from 1 <sup>h</sup> to 6 <sup>h</sup> ; cir.-cum. and cum.-strat.; remainder mostly clear; heavy shower of rain at 4 <sup>h</sup> 30 <sup>m</sup> ; sheet lightning from 6 <sup>h</sup> to 10 <sup>h</sup> in S.S.E., N.W. and N.; auroral light in N. at 12 <sup>h</sup> ; halo round the sun at 22 <sup>h</sup> , diameter 35° - - - - -	0·9	0·2	0·1	0·3	78·1	57·0	0·080	—
22	Densely clouded all day; heavy shower of rain at 16 <sup>h</sup> 30 <sup>m</sup> ; hazy from 18 <sup>h</sup> to 22 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	86·6	46·7	—	—
23	Generally clear; very heavy rain at 23 <sup>h</sup> - - - - -	0·6	0·7	—	1·0	63·5	53·7	0·140	—
24	Mostly clouded; very heavy rain from 6 <sup>h</sup> to 22 <sup>h</sup> 40 <sup>m</sup> ; lightning and thunder - - - - -	0·7	—	1·0	1·0	75·8	62·2	2·250	—
25	Clouded all day with cir.-cum., cum.-strat. and haze - - - - -	1·0	1·0	1·0	0·8	78·3	54·0	0·045	—
26	Generally clouded all day; a few clear spaces; cir.-strat. and haze generally - - - - -	0·8	0·6	1·0	0·3	59·0	46·2	—	—
27	Clear all day; auroral light in the N. from 9 <sup>h</sup> to 14 <sup>h</sup> ; frost; halo round the sun at 22 <sup>h</sup> , diameter about 35° - - - - -	0·0	0·0	0·0	1·0	49·8	36·7	—	—
28	Clouded to 5 <sup>h</sup> with cir. and haze; clear from 6 <sup>h</sup> to 12; remainder of day mostly clouded - - - - -	0·8	0·0	0·9	1·0	51·8	32·2	—	—
29	Partially clouded to 5 <sup>h</sup> , remainder clear; faint auroral light in N. at 10 <sup>h</sup> ; clouded from 18 <sup>h</sup> to 20 <sup>h</sup> ; clear at 21 <sup>h</sup> ; partially clear from 22 <sup>h</sup> - - - - -	0·5	0·0	0·0	0·0	56·8	38·2	—	—
30	Partially clear from 0 <sup>h</sup> to 4 <sup>h</sup> ; remainder of day clouded; rain from 9 <sup>h</sup> - - - - -	0·3	1·0	—	1·0	63·0	41·7	1·000	—
OCTOBER.									
1	Generally clouded with cir. and cir.-strat.; clear from 15 <sup>h</sup> to 17 <sup>h</sup> - - - - -	0·6	—	0·0	0·8	64·5	55·5	0·180	—
2	Partially clouded with cir.-cum. generally dispersed - - - - -	0·5	0·0	0·3	0·4	68·0	49·7	—	—
3	Generally clouded with cum. and cum.-strat.; squally; light showers of rain occasionally - - - - -	1·0	0·9	1·0	0·3	61·3	43·5	0·060	—
4	Partially clouded with cir.-cum. and cir.; a few showers of rain; quite clear at 10 <sup>h</sup> , 11 <sup>h</sup> , and from 17 <sup>h</sup> to 23 <sup>h</sup> - - - - -	0·4	0·1	0·2	0·0	54·8	41·2	0·055	—
5	Partially clouded with light cir. and cir.-strat.; clear from 18 <sup>h</sup> to 20 <sup>h</sup> - - - - -	0·1	0·8	0·1	0·8	54·3	35·2	—	—
6	Clouded with cir.-cum., cir.-strat. and haze; slight rain from 10 <sup>h</sup> to 17 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	59·6	42·7	0·130	—
7	Constant rain to 12 <sup>h</sup> - - - - -	1·0	1·0	—	0·3	64·7	54·0	1·685	—
8	Clouded at 3 <sup>h</sup> ; quite clear from 12 <sup>h</sup> - - - - -	1·0	—	0·0	1·0	56·8	46·7	0·040	—
9	Clouded to 10 <sup>h</sup> ; a few drops of rain at 8 <sup>h</sup> and 9 <sup>h</sup> ; remainder of day clear; halo round the sun at 21 <sup>h</sup> , diameter about 40°; imperfect - - - - -	1·0	1·0	0·1	1·0	53·8	32·7	0·010	—
10	Clouded with cir.-strat., cir.-cum. and haze - - - - -	1·0	1·0	1·0	1·0	52·6	34·5	—	—
11	Densely clouded with cir.-strat. and haze; moderate drizzling rain at intervals. - - - - -	1·0	1·0	1·0	0·5	51·8	45·2	0·220	—
12	Partially clear to 6 <sup>h</sup> ; slight rain at 1 <sup>h</sup> ; quite clear from 7 <sup>h</sup> to 13 <sup>h</sup> - - - - -	0·8	0·0	0·2	0·7	52·8	38·7	0·045	—
13	Partially clear to 7 <sup>h</sup> ; remainder of day quite clear - - - - -	1·0	0·0	0·0	1·0	54·3	32·1	—	—
14	Generally clouded with cir.-cum. and cum.-strat.; a few drops of rain at 4 <sup>h</sup> - - - - -	1·0	1·0	—	1·0	47·9	29·7	—	—
15	Clouded with cir.-strat. and cir.-cum.; drizzling rain from 12 <sup>h</sup> to 17 <sup>h</sup> ; slight rain from 18 <sup>h</sup> to 19 <sup>h</sup> - - - - -	1·0	—	1·0	1·0	44·1	28·9	0·290	—
16	Clouded with cir.-strat. and haze; slight rain from 18 <sup>h</sup> to 20 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	46·4	37·7	0·030	—
17	Clouded with cum.-strat., cir.-cum. and haze; a few flakes of snow at 3 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	49·0	36·7	0·015	—
18	Clouded to 9 <sup>h</sup> ; remainder of the day generally clear - - - - -	1·0	1·0	0·1	0·6	44·1	37·4	—	—
19	Mostly clouded with cir.-cum. and cum.-strat.; clear from 7 <sup>h</sup> to 10 <sup>h</sup> - - - - -	0·6	0·0	0·7	1·0	50·3	30·9	—	—
20	Generally clear; sheet lightning in W. horizon from 14 <sup>h</sup> to 17 <sup>h</sup> ; heavy rain from 18 <sup>h</sup> to 19 <sup>h</sup> 30 <sup>m</sup> - - - - -	0·3	0·0	0·6	1·0	48·9	35·2	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
<b>OCTOBER.</b>									
21	Mostly clouded with cir.-cum. and haze; clear at 21 <sup>h</sup> - - -	0.3	1.0	—	0.0	57.8	48.7	0.580	—
22	Clouded at 3 <sup>h</sup> ; quite clear from 12 <sup>h</sup> to 17 <sup>h</sup> - - -	1.0	—	0.0	0.0	51.8	32.7	—	—
23	Quite clear to 14 <sup>h</sup> ; remainder of the day partially clear - - -	0.0	0.0	0.6	0.5	41.9	24.2	—	—
24	Generally clear to 15 <sup>h</sup> ; remainder clouded; rain from 16 <sup>h</sup> 30 <sup>m</sup> to 19 <sup>h</sup> 15 <sup>m</sup> - - -	0.8	0.0	0.3	0.5	40.4	27.2	—	—
25	Partially clear from 0 <sup>h</sup> to 12 <sup>h</sup> ; remainder clouded with cir.-cum. and cum.-strat. - - -	0.8	0.3	1.0	0.5	45.9	31.1	0.460	—
26	Generally clouded with cir.-cum. and cum.-strat.; snow from 13 <sup>h</sup> to 23 <sup>h</sup> - - -	0.3	1.0	1.0	1.0	48.4	26.2	—	—
27	Clouded to 11 <sup>h</sup> ; remainder of the day quite clear - - -	1.0	1.0	0.0	0.0	41.9	27.5	—	—
28	Partially clouded to 9 <sup>h</sup> ; remainder of the day clouded with cir. and haze; halo round the moon at 8 <sup>h</sup> and 9 <sup>h</sup> , diameter about 35°, imperfect - - -	0.4	0.6	—	1.0	33.4	25.2	—	—
29	Clouded to 11 <sup>h</sup> ; cir.-strat. and haze; occasional showers of rain, hail, and snow; clear from 12 <sup>h</sup> to 17 <sup>h</sup> , clouded from 18 <sup>h</sup> to 23 <sup>h</sup> - - -	1.0	—	0.1	1.0	42.9	31.7	—	—
30	Partially clear from 0 <sup>h</sup> to 9 <sup>h</sup> ; cum., cir.-cum. and haze; clear from 11 <sup>h</sup> to 14 <sup>h</sup> remainder partially clear; slight showers of snow occasionally - - -	0.5	0.7	0.9	0.2	45.9	32.2	—	—
31	Generally clouded with cir.-cum. and haze; a few clear spaces occasionally; slight snow from 22 <sup>h</sup> - - -	0.9	0.2	1.0	1.0	38.4	25.7	—	—
<b>NOVEMBER.</b>									
1	Clouded all day with cir.-strat. and haze; slight snow continued to 2 <sup>h</sup> , and turned to rain, which continued all day - - -	1.0	1.0	1.0	1.0	40.5	27.2	0.975	—
2	Generally clouded; slight rain at 2 <sup>h</sup> , 3 <sup>h</sup> , and 7 <sup>h</sup> - - -	1.0	0.2	0.9	0.6	38.7	33.3	—	—
3	Clouded and partially clear alternately; cum., cir.-cum. and haze - - -	0.9	1.0	0.3	0.4	39.9	30.7	—	—
4	Densely clouded all day with cum.-strat. and cum. - - -	1.0	1.0	—	1.0	37.1	23.7	—	—
5	Clear throughout the day - - -	0.0	—	0.0	1.0	30.7	24.7	—	—
6	Generally clouded; cum., cir.-strat. and cir.-cum.; slight snow from 17 <sup>h</sup> to 22 <sup>h</sup> - - -	0.5	1.0	1.0	1.0	30.2	18.4	—	—
7	Generally clouded; cir.-cum., cum.-strat., cir.-strat. and haze; partially clear from 18 <sup>h</sup> to 21 <sup>h</sup> - - -	1.0	1.0	0.3	0.7	35.6	27.2	—	—
8	Densely clouded all day with cir.-cum., cum.-strat., and haze - - -	1.0	1.0	1.0	1.0	36.9	31.7	—	—
9	Overcast all day with cir.-strat. and haze; imperfect halo round the sun at 0 <sup>h</sup> , diameter about 30°; slight sleet and drizzling rain from 11 <sup>h</sup> to 22 <sup>h</sup> - - -	1.0	1.0	1.0	1.0	37.7	30.2	0.250	—
10	Densely clouded with cir.-cum. and haze; slight rain commenced at 21 <sup>h</sup> 30 <sup>m</sup> - - -	1.0	0.6	1.0	1.0	39.4	33.2	0.240	—
11	Rain continued to 5 <sup>h</sup> ; clouded to 6 <sup>h</sup> ; remainder of the day nearly clear - - -	1.0	0.1	—	—	40.4	33.7	0.250	—
12	Clouded with cir.-strat., cum. and cum.-strat.; halo round the moon from 14 <sup>h</sup> to 16 <sup>h</sup> , diameter about 22°, perfect - - -	1.0	—	1.0	1.0	37.9	25.7	—	—
13	Clouded to 4 <sup>h</sup> with cir.-cum. and haze; squalls of wind and showers of snow from 0 <sup>h</sup> to 4 <sup>h</sup> ; remainder of the day partially clear - - -	1.0	0.2	0.7	0.5	33.9	27.7	—	—
14	Partially clear to 14 <sup>h</sup> ; remainder of the day clouded with cir.-cum., cir.-strat. and haze; halo round the moon at 13 <sup>h</sup> 30 <sup>m</sup> , diameter about 35° - - -	0.5	0.8	1.0	1.0	36.9	19.9	—	—
15	Overcast all day with cir.-strat. and haze; snow from 0 <sup>h</sup> to 2 <sup>h</sup> 15 <sup>m</sup> , when it turned to rain and continued to 23 <sup>h</sup> - - -	1.0	1.0	1.0	1.0	33.1	22.2	0.175	—
16	Clouded to 7 <sup>h</sup> with cir.-cum. and haze; remainder of the day clear - - -	1.0	0.0	0.5	1.0	41.4	32.7	—	—
17	Clouded to 12 <sup>h</sup> with cir.-cum. and haze; remainder of the day nearly clear; rain from 1 <sup>h</sup> to 12 <sup>h</sup> 20 <sup>m</sup> ; high wind with occasional violent gusts - - -	1.0	1.0	0.1	1.0	49.2	29.2	2.020	—
18	Clouded to 4 <sup>h</sup> with cum.-strat. and cum.; remainder of the day partially clear - - -	1.0	1.0	—	1.0	43.9	34.7	—	—
19	Clouded from 0 <sup>h</sup> to 3 <sup>h</sup> with cir.-cum. and cum.-strat.; remainder of the day quite clear - - -	1.0	—	0.0	0.0	45.9	30.7	—	—
20	Clouded and clear alternately to 5 <sup>h</sup> ; remainder of the day clouded with cir.-strat. and cir.-cum.; slight rain from 9 <sup>h</sup> to 19 <sup>h</sup> 30 <sup>m</sup> - - -	0.7	1.0	1.0	1.0	42.4	27.2	0.400	—
21	Clouded to 5 <sup>h</sup> with cir.-cum., cum.-strat. and haze; remainder of day partially clear - - -	1.0	0.5	0.0	1.0	43.4	35.2	—	—
22	Clouded to 7 <sup>h</sup> with cir.-cum. and cum.-strat.; remainder of day quite clear; slight rain from 21 <sup>h</sup> to 23 <sup>h</sup> - - -	1.0	0.0	0.0	1.0	45.4	30.2	0.070	—
23	Clouded all day with cir.-strat. and haze; slight rain from 6 <sup>h</sup> 20 <sup>m</sup> to 10 <sup>h</sup> 40 <sup>m</sup> - - -	1.0	1.0	0.9	0.9	36.7	24.5	0.210	—
24	Partially clouded from 0 <sup>h</sup> to 10 <sup>h</sup> ; clouded from 11 <sup>h</sup> to 15 <sup>h</sup> with cir.-cum. and cir.-strat.; remainder clear - - -	0.3	0.4	1.0	0.1	52.6	33.7	—	—
25	Generally clear; a few light cir. occasionally - - -	0.2	0.0	—	1.0	46.4	27.9	—	—
26	Clouded all day with cir.-cum., cum.-strat. and haze - - -	1.0	—	1.0	1.0	40.9	27.2	—	—
27	Clouded to 1 <sup>h</sup> with cir.-cum., cum.-strat. and cum.; clear to 21 <sup>h</sup> ; from 21 <sup>h</sup> clouded with cir.-cum. - - -	0.0	0.0	0.0	0.2	37.1	20.7	—	—
28	Clouded all day with cir.-cum. and haze - - -	1.0	1.0	1.0	1.0	26.7	14.1	—	—



Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Solar Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
NOVEMBER.									
29	Clouded to 18 <sup>h</sup> with cir.-cum. and cum.-strat.; a few light showers of snow; faint auroral light in the N. at 7 <sup>h</sup> ; partially clear from 18 <sup>h</sup> to 22 <sup>h</sup> ; clouded with cir.-cum. and haze from 22 <sup>h</sup> - - -	1.0	1.0	1.0	0.3	30.9	21.5	—	—
30	Clouded all day with cir.-cum. and haze - - - - -	1.0	1.0	1.0	1.0	34.3	22.7	—	—
DECEMBER.									
1	Clouded all day with cir.-cum., cum.-strat. and haze - - -	1.0	1.0	1.0	1.0	30.7	24.7	—	—
2	Clouded to 2 <sup>h</sup> ; remainder of the day mostly clear - - -	0.6	0.1	—	0.0	33.9	27.7	—	—
3	Generally clear; from 21 <sup>h</sup> clouded with cir.-cum., cir.-strat. and haze -	0.2	—	0.0	0.0	36.9	22.2	—	—
4	Clouded all day with cir.-cum., cir.-strat. and haze; slight rain at 4 <sup>h</sup> , and constant snow from 12 <sup>h</sup> to 19 <sup>h</sup> 20 <sup>m</sup> - - -	1.0	1.0	1.0	1.0	37.3	29.2	—	—
5	Generally clouded all day with cir.-cum. and cum.-strat. - - -	0.7	1.0	1.0	1.0	42.4	24.1	—	—
6	Clouded all day with cir.-cum. and haze; snowing from 0 <sup>h</sup> to 8 <sup>h</sup> -	1.0	1.0	1.0	1.0	27.7	12.4	—	—
7	Clouded all day with cir.-cum. and haze; snowing from 0 <sup>h</sup> to 8 <sup>h</sup> -	1.0	1.0	1.0	1.0	31.9	25.7	—	—
8	Clouded all day with cir.-cum., cir.-strat. and haze; halo round the moon from 10 <sup>h</sup> to 11 <sup>h</sup> , diameter about 40°; began to snow at 23 <sup>h</sup> 30 <sup>m</sup>	1.0	1.0	1.0	1.0	31.9	27.2	—	—
9	Snow ceased at 2 <sup>h</sup> 40 <sup>m</sup> ; clouded till 5 <sup>h</sup> with cir.-cum. and haze; remainder of the day nearly clear - - - - -	1.0	0.1	—	1.0	32.9	25.2	—	—
10	Clouded all day with cir.-cum., cir.-strat., and haze; halo round the moon at 14 <sup>h</sup> , diameter about 40°, imperfect - - -	1.0	—	1.0	1.0	33.1	17.3	—	—
11	Generally clouded to 10 <sup>h</sup> with cir.-cum. and cum.-strat.; partially clouded to 21 <sup>h</sup> ; faint auroral light in N. at 7 <sup>h</sup> and 8 <sup>h</sup> ; squalls of wind with sleet between 6 <sup>h</sup> and 7 <sup>h</sup> ; clear from 21 <sup>h</sup> - - -	0.4	0.8	0.3	1.0	37.5	25.3	—	—
12	Clear to 18 <sup>h</sup> ; high wind; clouded with cir.-cum. and haze from 18 <sup>h</sup> to 21 <sup>h</sup> ; remainder of day partially clear - - - - -	0.1	0.0	0.0	1.0	38.1	13.9	—	—
13	Partially clear and clouded alternately throughout the day; halo round the sun at 0 <sup>h</sup> , and round the moon at 12 <sup>h</sup> , both imperfect; diameters respectively about 30° and 35° - - - - -	0.1	1.0	0.2	0.8	18.7	3.1	—	—
14	Clouded all day with cir.-cum., cir.-strat. and haze - - - - -	1.0	1.0	1.0	1.0	31.9	14.4	—	—
15	Clouded all day with cir. and haze; constant rain and snow from 2 <sup>h</sup> -	1.0	1.0	1.0	1.0	38.4	31.7	0.450	—
16	Rain continued to 6 <sup>h</sup> ; clouded all day with dense haze - - -	1.0	1.0	—	1.0	38.1	33.2	0.400	—
17	Clouded all day with cir.-cum. and haze; slight rain from 12 <sup>h</sup> to 14 <sup>h</sup> ; snow from 14 <sup>h</sup> to 21 <sup>h</sup> 15 <sup>m</sup> - - - - -	1.0	—	1.0	1.0	35.1	28.7	—	—
18	Clouded all day with cir.-cum. and haze - - - - -	1.0	1.0	1.0	1.0	38.7	29.7	—	—
19	Clouded all day with cir.-cum. and haze - - - - -	1.0	1.0	1.0	1.0	33.9	27.7	—	—
20	Clouded all day with cir.-cum., cir.-strat. and haze - - - - -	0.9	1.0	1.0	1.0	34.6	28.7	—	—
21	Partially clear from 1 <sup>h</sup> to 8 <sup>h</sup> ; remainder of day densely clouded -	0.9	1.0	1.0	1.0	48.5	33.2	—	—
22	Clouded all day with cir., cir.-cum. and haze - - - - -	1.0	1.0	1.0	1.0	38.9	28.7	—	—
23	Clouded all day with cir.-cum. and haze; raining from 1 <sup>h</sup> to 11 <sup>h</sup> -	1.0	1.0	—	1.0	38.4	31.5	0.090	—
24	Clouded all day with cir.-cum. and haze - - - - -	1.0	—	—	1.0	35.3	33.2	—	—
25	Clouded all day with cir.-cum., cir.-strat. and haze - - - - -	0.9	—	1.0	1.0	39.8	32.7	—	—
26	Clouded all day with cir.-cum. and haze; high wind; slight rain from 3 <sup>h</sup> to 14 <sup>h</sup> - - - - -	1.0	1.0	1.0	0.7	38.7	28.7	0.100	—
27	Clouded all day with cir.-cum. and haze - - - - -	1.0	1.0	1.0	1.0	39.7	34.7	—	—
28	Clouded all day with cir.-cum. and haze; slight snow from 0 <sup>h</sup> to 4 <sup>h</sup> -	1.0	1.0	1.0	1.0	40.8	31.7	—	—
29	Generally clouded with cir.-cum. and cum.-strat.; a few clear spaces at intervals - - - - -	1.0	0.9	0.6	0.6	37.7	24.7	—	—
30	Generally clear all day - - - - -	0.1	0.0	—	0.5	28.5 <sup>a</sup>	25.2 <sup>a</sup>	—	—
31	Partially clouded with light cir.-strat. - - - - -	0.2	—	0.0	1.0	30.7	25.7	—	—

<sup>a</sup> Taken from the highest and lowest readings of the Standard Thermometer.

**TORONTO, 1844.**



**MAGNETICAL OBSERVATIONS.**

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'·721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JANUARY.	1	127·0	125·8	129·0	130·4	128·8	125·0	122·0	123·0	123·4	122·8	123·2	125·5
	2	127·3	126·6	122·5	126·7	126·2	125·2	121·1	122·6	120·4	120·3	120·5	123·3
	3	125·2	126·1	128·0	129·2	128·0	126·1	124·2	122·8	123·0	123·2	125·0	126·0
	4	126·2	127·0	128·8	131·0	128·8	125·5	123·3	123·9	124·1	124·2	122·6	122·5
	5	128·8	129·0	128·0	131·6	130·2	127·1	123·5	121·4	118·9	121·0	116·7	124·1
	6	125·0	127·0	129·5	128·8	125·7	127·4	126·3	122·4	123·2	120·1	125·8	124·0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	124·0	128·0	127·4	127·6	125·5	126·0	123·2	122·8	124·0	123·8	121·5	128·2
	9	127·0	128·0	129·8	129·2	128·3	127·6	124·9	125·0	121·8	124·6	122·9	123·3
	10	123·9	128·4	129·4	130·0	131·3	130·2	125·8	121·1	119·7	119·2	120·0	125·3
	11	127·0	127·1	130·0	134·3	132·8	128·8	125·0	121·4	120·0	121·5	124·8	125·3
	12	126·3	127·2	129·2	130·0	128·3	125·9	121·5	119·0	119·1	121·2	124·0	124·9
	13	127·2	127·3	129·8	131·1	128·5	124·6	121·4	120·3	120·7	123·1	125·0	126·5
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	127·3	127·0	129·3	130·0	129·2	126·9	122·5	121·5	123·1	123·4	124·1	125·5
	16	126·0	129·0	130·0	131·2	128·1	124·7	121·9	121·2	121·8	123·4	125·3	126·2
	17	128·4	127·0	130·0	129·8	128·2	124·8	121·5	120·0	120·0	120·0	123·1	124·9
	18	127·5	128·0	129·1	131·0	126·0	123·6	121·2	123·5	124·1	125·1	125·0	125·9
	19	127·0	128·2	128·8	128·1	128·0	126·8	125·0	124·0	123·9	124·0	124·9	125·2
	20	130·0	129·5	129·3	129·0	128·0	126·8	125·2	125·0	125·0	125·8	125·4	125·9
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	127·0	127·2	126·5	119·7	121·0	121·0	120·2	118·2	121·2	125·1	125·8	126·4
	23	131·0	129·0	130·1	127·0	125·0	123·2	122·2	120·8	123·3	126·0	126·8	126·7
	24	128·0	129·0	129·8	129·0	126·8	123·1	121·1	120·2	121·4	124·3	125·6	126·5
	25	128·2	124·9	125·2	121·3	119·5	124·0	123·8	123·0	125·1	126·4	127·7	127·2
	26	127·6	128·6	130·0	129·0	127·2	125·2	123·5	122·4	123·5	125·8	125·2	125·1
	27	128·0	128·3	130·0	128·8	127·4	125·5	126·0	124·2	122·8	126·0	125·7	126·0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	125·0	126·7	128·3	129·8	128·4	127·0	124·9	122·0	122·0	122·3	123·4	125·4
	30	127·4	125·7	127·9	128·0	126·8	125·2	123·2	123·0	123·9	124·7	125·8	125·4
	31	127·6	128·1	129·0	127·8	127·4	126·3	126·5	124·3	122·7	121·9	123·2	127·1
Hourly Means	127·07	127·54	128·69	128·87	127·39	125·69	123·37	122·19	122·30	123·30	124·04	125·49	
FEBRUARY.	1	125·0	124·2	125·0	127·6	126·2	120·5	118·6	118·5	120·7	118·1	128·7	124·5
	2	129·3	127·0	127·8	128·5	128·0	123·4 <sup>b</sup>	113·9	114·6	121·9	125·1	127·2	126·0
	3	127·0	130·0	129·2	127·0	126·4	124·1	123·7	121·2	122·1	126·7	123·5	124·0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	127·2	126·5	134·1	131·8	126·9	120·9	117·4	118·1	120·6	115·1	119·7	125·4
	6	127·3	127·9	129·9	129·3	126·3	123·5	120·2	121·2	122·6	122·5	126·7	127·0
	7	128·0	128·2	127·8	128·2	124·6	121·0	120·0 <sup>b</sup>	121·2	118·1	122·6	126·5	121·8
	8	131·0	135·4	137·1	129·0	126·0 <sup>c</sup>	112·1	115·0	118·4	120·8	123·2	125·2	127·2
	9	128·0	129·0	128·2	128·0	126·6	125·0	123·0	122·0	123·8 <sup>a</sup>	125·2	126·9	126·6
	10	129·5	129·0	128·2	128·0	127·1	126·0	124·4	124·1	122·8	122·0	123·3	124·1
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	125·8	127·6	128·0	127·3	126·8	125·2	123·1 <sup>a</sup>	123·0	123·5	125·7	126·1	125·8
	13	128·0	129·0	128·3	128·6	128·0	125·0	124·0	122·5	124·0	125·6	126·5	124·9
	14	127·3	127·6	127·4	128·9	126·7	125·0	124·1	124·2	124·9	127·3	127·1	126·0
	15	128·1	130·0	129·0	128·2	125·0	122·0	120·1	121·5	123·6	124·1 <sup>d</sup>	123·2	123·2
	16	128·8	128·3	128·0	127·6	124·8	123·8	123·0	123·6	125·0	126·2	126·0	124·8
	17	129·0	129·0	129·7	129·0	125·1	123·0	120·0	119·0	121·0	123·8	125·9	127·7
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	129·0	129·7	131·0	128·0	124·8	121·9	121·4	121·2	121·6	123·0	125·4	126·3
	20	130·5	129·5	129·9	129·0	126·7	125·0	123·0	122·1	122·2	124·0	125·2	125·7
	21	127·8	129·0	129·2	129·2	127·2	125·0	122·4	121·6	122·8	123·7	125·0	126·3
	22	130·0	132·0	132·1	130·4	127·5	125·2 <sup>a</sup>	122·2	120·3	120·0	119·4	122·8	126·2
	23	128·2	129·2	130·7	128·8	125·8	124·8	122·4	122·2	123·2	124·4	124·8	124·7
	24	129·0	129·9	130·2	129·1	127·0	122·2	122·0	123·0	124·6	126·1	126·1	126·0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	129·2	129·0	129·6	129·0	127·0	126·7	124·6	124·6	123·9	124·1	126·1	125·9
	27	128·4	131·0	129·1	129·5	128·0	124·3	123·0	121·9	122·8	124·8	126·0	126·2
	28	129·0	130·5	130·0	130·4	127·2	128·2	124·0	124·6	120·0	120·8	120·8	112·0
	29	124·0	127·0	128·8	129·8	127·6	125·1	122·7	118·8	122·1	123·6	124·4	125·8
Hourly Means	128·18	129·02	129·53	128·81	126·53	123·56	121·53	121·34	122·34	123·48	125·16	124·96	

<sup>a</sup> Five minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Four minutes late.

<sup>d</sup> Three minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'·721. Increasing numbers denote decreasing Westerly Declinations.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
126·5	127·4	127·5	127·5	127·3	126·4	126·0	125·8	125·5	125·5	126·5	127·1	128·0
125·5	126·7	128·9	127·2	127·0	125·8	125·8	125·5	125·2	125·4	125·5	125·5	124·86
126·0	126·4	126·4	126·5	126·8	127·5	126·2	125·6	126·0	125·4	125·8	125·0	125·85
121·2	126·6	127·0	126·8	149·0	133·9	130·9	127·2	125·8	125·2	129·2	124·5	127·30
126·1	127·4	127·0	131·2	128·5	125·0	128·0	128·5	128·0	127·5	127·2	120·0	126·03
127·5	127·8	128·3	129·8	128·5	127·6	—	—	—	—	—	—	126·44
—	—	—	—	—	—	126·3	127·0	128·0	127·2	125·4	126·0	126·29
128·0	133·5	127·7	131·1	135·0	127·3	128·6	126·5	127·2	125·0	122·9	123·0	126·58
125·0	128·1	127·9	129·4	132·2	128·5	127·5	129·4	126·3	124·3	126·0	124·2	126·72
125·0	124·0	126·1	128·0	128·8	127·0	126·9	127·8	128·3	127·0	127·0	128·0	126·17
125·1	129·8	125·4	128·1	128·2	127·7	127·2	127·9	126·4	125·0	125·2	125·2	126·63
125·6	128·3	129·8	128·8	127·8	128·0	128·0	127·5	128·4	130·9	127·4	127·1	126·42
127·4	127·2	128·0	128·8	128·2	127·3	—	—	—	—	—	—	126·33
—	—	—	—	—	—	126·8	127·2	127·0	126·5	125·8	126·2	126·02
125·0	125·6	125·8	129·0	127·6	126·5	125·4	125·4	125·8	126·1	126·0	126·6	126·42
127·4	128·3	128·5	127·2	127·5	125·6	127·0	126·2	126·6	127·0	126·9	127·0	125·80
126·2	127·1	128·5	127·9	127·2	126·6	125·0	125·4	126·0	127·8	127·0	126·9	126·42
128·0	128·9	127·1	127·2	127·2	126·8	125·0	125·4	127·5	127·1	127·0	126·8	126·88
126·0	125·5	128·4	128·4	128·1	126·7	124·0	126·7	127·3	128·8	131·9	129·5	126·78
126·2	127·2	127·0	127·2	128·3	125·1	—	—	—	—	—	—	126·34
—	—	—	—	—	—	125·8	125·2	125·5	126·2	128·1	126·0	125·30
126·5	126·2	128·1	126·9	127·0	126·4	123·6	126·7	126·9	129·6	129·9	130·0	126·30
127·4	127·4	127·2	126·8	126·8	126·2	125·9	126·0	126·0	126·0	126·8	127·6	128·27
128·0	127·8	127·1	126·2	134·7	131·0	138·1	135·6	129·5	134·2	131·3	130·1	125·27
127·0	127·6	127·0	127·2	126·8	125·2	124·0	122·8	123·0	126·7	126·8	126·2	126·39
126·1	125·7	128·5	128·0	127·4	124·4	127·4	125·2	126·0	127·4	127·8	126·3	126·27
126·6	126·0	126·5	126·2	125·9	126·5	—	—	—	—	—	—	126·17
—	—	—	—	—	—	126·2 <sup>a</sup>	125·2	125·0	126·8	124·5	124·0	126·30
126·1	128·7	126·4	126·7	127·1	128·1	127·0	127·5	127·2	127·0	127·0	128·1	127·49
124·8	125·1	126·2	126·5	129·0	130·4	128·2	125·6	123·9	127·8	128·5	128·1	126·30
127·8	127·0	127·5	127·6	126·1	128·0	129·8	129·0	127·0	131·4	132·3	134·4	126·35
126·22	127·31	127·40	127·86	129·04	127·24	127·09	126·84	126·50	127·19	127·35	126·54	126·35
125·4	127·5	128·0	127·0	128·7	128·9	129·0	127·2	128·0	128·0	128·9	126·2	125·43
135·8	126·0	129·2	128·7	130·5	100·6	137·0	128·8	124·4	129·5	126·2	127·0	125·68
128·0	126·2	128·0	131·7	128·2	125·5	—	—	—	—	—	—	126·00
—	—	—	—	—	—	124·5	123·5	123·8	124·2	127·5	128·1	125·58
122·3	128·1	129·3	130·8	133·1	131·7	134·3	125·7	122·4	120·7	120·6	131·3	126·10
127·2	126·8	130·0	128·2	126·4	127·0	127·3	123·6	120·2	129·5	127·2	128·6	125·18
121·9	124·8	124·5	127·5	127·0	126·0	125·0	126·0	125·8	124·5	129·2	134·0	126·28
127·5	127·4	132·8	131·5	126·7	125·4	126·0	125·5	126·2	127·4	127·0	127·0	126·88
126·5	127·0	127·5	128·2	131·3	127·4	125·0	127·2	124·8	129·1	127·6	131·2	126·63
142·3	123·7	128·7	127·2	127·0	126·5	—	—	—	—	—	—	126·33
—	—	—	—	—	—	125·4	127·1	126·8	124·0	125·1	126·8	126·53
126·0	126·0	126·0	127·3	129·2	126·0	127·2	127·0	126·1	128·0	127·0	128·1	126·33
127·8	125·9	126·1	126·1	126·7	126·2	126·8	128·0	127·1	127·0	127·5	127·0	126·53
126·0	126·2	127·1	127·1	128·0	126·5	127·0	129·1	130·3	130·7	133·3	133·8	127·57
125·0	126·2	127·0	127·0	127·0	126·4	126·4	125·2	127·2	127·5	127·6	128·0	125·77
124·3	125·0	125·2	126·8	125·4	125·0	125·0	126·2	127·5	127·5	127·5	130·8	126·09
126·5	130·7	129·9	131·0	128·5	125·6	—	—	—	—	—	—	126·51
—	—	—	—	—	—	126·0	126·2	126·5	127·2	127·0	129·0	126·03
126·7	127·0	127·0	125·5	128·0	127·0	125·8	125·5	127·2	127·0	126·5	128·4	126·45
126·3	126·9	127·0	128·6	128·0	128·0	126·2	125·9	125·0	127·3	127·8	125·0	126·65
126·1	126·0	125·8	126·6	127·4	127·5	127·4	125·6	128·2	129·1	130·2	130·5	126·52
126·2	126·6	127·4	127·0 <sup>d</sup>	127·2	127·0	126·8	127·6	128·0	127·5	129·1	128·0	126·27
125·2	125·5	126·2	125·5	126·2	127·0	126·8	127·0	127·0	128·0	128·8	128·1	126·68
125·5	126·0	127·0	127·2	127·0	130·6	—	—	—	—	—	—	126·89
—	—	—	—	—	—	127·0	125·6	126·0	128·2	127·0	128·0	126·48
125·5	125·2	126·5	126·3	126·2	128·0	128·2	128·6	128·5	127·8	129·4	125·5	127·74
126·0	126·0	126·2	126·4	126·8	126·8	127·0	127·0	127·2	128·1	125·0	128·0	127·56
124·6	125·3	126·7	125·6	164·0	131·0	134·0	128·0	127·1	127·0	126·0	129·0	126·31
125·2	126·0	126·0	126·2	124·0	127·2	126·0	126·0	126·4	126·2	127·0	127·6	126·31
126·79	126·32	127·40	127·64	129·14	126·19	127·48	126·52	126·31	127·24	127·44	128·60	126·31

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	128.2	129.0	129.8	128.7	125.6	122.7	119.9	120.0	121.1	123.1	124.0	124.0
	2	133.5	130.2	131.5	126.1	126.8	121.9	119.0	118.0	118.0	115.8	120.0	118.5
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	131.6	125.5	131.0	129.3	125.7	126.3	120.4	119.1	120.1	122.8	121.5	126.0
	5	131.0	129.0	129.1	127.0	127.0 <sup>a</sup>	124.5	120.5	119.2	122.0	122.9	118.2	128.4
	6	113.5	125.0	122.3	120.0	115.3	121.3	118.1	118.7	121.6	124.8	125.4	125.2
	7	127.0	131.3	128.1	124.5	120.6	122.4	119.7	120.0	114.9	120.8	125.4	135.2
	8	130.2	131.1	132.5	131.4	130.8	124.6	121.0	116.5	120.9	121.8	133.0	125.7
	9	126.4	130.0	130.0	130.0	127.6	123.0	121.1	121.9	121.1	119.8	121.9	125.4
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	129.0	131.0	131.3	131.7	131.0	127.5	124.5	122.3	122.6	122.0	121.0	122.1
	12	127.0	126.1	126.0	129.9	126.6	122.0 <sup>c</sup>	118.0	119.8	121.0	121.9	122.8	122.1
	13	128.0	129.0	129.4	130.4	128.1	123.5	121.0	121.0	120.6	122.1	122.5	124.0
	14	128.0	130.2	131.3	131.3	127.8	125.0	123.2	123.2	123.8	122.9	123.0	124.2
	15	128.4	126.6	125.9	127.8	125.5	122.1	119.7	119.5	121.8	123.0	124.0	124.5
	16	128.8	129.0	121.4	130.2	126.5	122.8	119.2	119.1	120.4	122.0	124.4	125.8
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	129.2	130.3	133.0	135.1	132.0	127.5	122.2	118.5	117.4	118.7	119.9	118.2 <sup>d</sup>
	19	132.0	132.5	133.9	133.0	129.8	125.0	120.5	119.2	118.8	119.5	121.6	123.8
	20	129.2	131.2	131.0	130.0	128.0	124.0	120.0	118.6	118.0	118.8	120.3	123.8
	21	130.0	131.0	132.7	132.2	129.5	124.6	121.2	118.5	118.0	119.1	120.7	123.8
	22	123.0	131.8	133.7	133.3	128.2	124.0	119.8	117.9	116.6	117.7	120.4	121.5
	23	130.0	131.2	132.4	131.9	130.0	125.8	122.1	120.1	118.8	120.2	121.8	123.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	130.0	131.0	132.0	134.0	130.0	124.0	121.0	120.1	118.0	117.2	119.4	122.2
	26	129.0	131.0	131.7	130.8	127.0	123.5	121.5	120.8	120.8	121.0	121.2	122.9 <sup>e</sup>
	27	128.0	129.5	131.0	130.2	129.5	124.2	121.0	114.1	114.6	115.1	118.1	121.0
	28	129.6	132.0	131.2	128.8	126.0	125.2	120.3	116.3	115.9	120.1	122.0	123.8
	29	131.9	133.5	130.7	132.5	125.9	124.0	122.0	121.0	121.8	119.0	114.0	114.3
	30	114.0	126.6	134.2	127.4	128.4	123.0	116.6	124.2	119.5	129.7	121.4	130.8
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	127.94	129.79	130.27	129.90	127.28	124.02	120.52	119.52	119.54	120.84	121.84	123.88	
APRIL.	1	125.4	122.2	125.9	126.6	123.1	120.6	116.6	114.1	119.8	118.8	121.7 <sup>d</sup>	120.3
	2	131.0	132.8	133.5	133.9	130.6	124.0	119.3	119.7	117.1	119.8	119.7	122.3
	3	133.4	132.2	134.1	133.9	122.8	116.3	113.1	118.9	119.0	120.1	123.4	124.0
	4	125.2	127.5	132.9	133.0	130.6	128.8	124.8	120.4	119.5	118.2	119.2	121.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	129.2	130.0	131.6	131.8	129.4	127.0	123.6	120.8	118.1	118.9	125.4	123.8
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	128.1	129.0	130.6	128.1	127.0	124.2	122.4	120.7	118.6	118.0	118.4	120.1
	9	128.7	130.8	130.0	129.0	126.0 <sup>a</sup>	123.6	122.6	120.2	118.9	118.4 <sup>a</sup>	119.4	121.4
	10	132.2	130.8	133.0	127.8	128.3	124.0	121.0	118.2	118.0	120.6	121.9	123.7
	11	130.5	131.1	130.7	128.7	124.0	120.0	118.0	116.4	118.2	121.6	121.8	123.7
	12	132.1	133.0	131.0	127.0	122.0	117.0	115.2	115.6	117.4	119.8	121.3	123.7
	13	130.1	132.0	133.0	130.4	126.2	120.8 <sup>e</sup>	118.8	118.0	116.8	118.9	121.5	124.0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	130.3	128.0	125.0	125.0	124.3	121.5	119.2	118.0	118.3	118.9	121.9	122.0
	16	129.2	129.8	130.3	129.5	124.0	117.0	114.0	115.6	118.1	121.2	123.4	125.6
	17	111.8	93.1	108.2	126.7	118.5	114.4	111.1	109.0	107.3	111.4	116.6	112.5
	18	135.0	136.0	134.5	133.4	128.6	125.0	123.2	119.9	119.3	119.7	118.1	123.8
	19	129.9	131.2	131.0	129.2	128.0	123.1	117.7	116.8	117.2	118.6	120.7	122.8
	20	127.0	130.1	133.1	130.4	128.0	125.5	121.1	119.0	118.1	119.6	121.8	123.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	127.0	129.0	130.7	129.3	124.2	120.4	118.3	116.2	117.0	117.4	119.4	122.0
	23	126.0	128.5	130.9	126.6	125.0	121.9	120.1	117.6	117.3	118.3	118.8	120.0
	24	130.0	131.0	131.9	132.0	127.9	121.8	119.2	116.8	117.7	118.8	121.2	122.3
	25	127.0	129.1	122.8	117.0	117.7	121.0	118.7	117.1	115.2	117.7	119.0	120.6
	26	119.0	123.0	133.0	131.9	130.2	117.6	113.9	119.1	117.2	121.6	122.4	123.0
	27	124.0	127.3	128.6	126.2	123.8	120.9	121.5	119.3	121.2	122.4	119.9	132.4
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	133.0	129.0	125.8	125.7	122.1	118.0	117.0	117.8	116.9	119.4	120.8	122.6
	30	124.0	122.8	128.2	127.3	123.8	120.0	118.0	116.2	117.7	117.1	119.8	121.1
Hourly Means	127.99	127.97	129.61	128.82	125.44	121.38	118.74	117.66	117.60	119.01	120.70	122.48	

<sup>a</sup> Two minutes late. <sup>b</sup> Thirty-eight minutes late. <sup>c</sup> Three minutes late. <sup>d</sup> Five minutes late. <sup>e</sup> Ten minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
124.0	122.5	125.0	124.4	127.5	126.6	125.5	126.2	129.3	120.5	132.7	129.6	125.41
121.3	130.5	126.0	125.9	133.4	125.0	—	—	—	—	—	—	124.56
—	—	—	—	—	—	129.2	123.5	122.2	119.2	126.0	130.0	127.56
125.1	125.5	131.7	138.6	144.6	130.9	119.4	128.2	129.8	124.3	134.0	130.0	127.50
126.4	136.7	139.6	134.0	133.8	135.9	128.8	127.5	127.8	126.5	128.0	116.1	125.02
123.0	128.1	126.8	125.9	128.0	133.4	134.0	141.2	130.2	123.1	127.7	127.9	127.86
129.5	130.4	129.5	147.0	148.1	129.5	118.5	126.5	128.0	129.0	132.2	130.5	126.88
126.9	126.2	143.2	132.1	125.1	123.8	120.2	126.0	126.0	125.2	124.0	127.0	126.00
124.0	128.1	126.1	125.6	127.0	132.7	—	—	—	—	—	—	125.95
—	—	—	—	—	—	128.0 <sup>b</sup>	125.0	126.7	129.5	126.8	126.2	125.02
123.0	124.4	125.5	126.1	125.2	125.4	125.8	126.0	126.0	127.1	126.2	126.2	125.95
128.5	124.0	125.6	125.0	125.8	125.8	128.0	125.2	126.3	127.4	127.5	128.1	125.02
123.6	124.5	125.0	125.4	125.4	125.6	126.0	126.0	126.4	127.2	125.6	127.0	125.30
124.4	123.9	124.6	125.8	125.4	126.3	126.1	126.2	125.8	129.9	128.0	128.1	126.18
124.2	125.3	125.3	126.0	125.6	126.0	126.5	126.4	127.2	127.0	127.8	127.0	125.13
125.0	125.6	125.8	125.4	124.8	125.6	—	—	—	—	—	—	125.02
—	—	—	—	—	—	124.9	125.4	124.7	127.2	127.6	129.0	126.07
122.8	124.4	126.1	127.1	131.0	128.5	126.0	130.2	132.4	121.3	124.0	130.0 <sup>c</sup>	126.52
124.5	125.0	126.1	126.5	127.4	139.1	123.2	125.2	128.0	127.3	126.7	128.0	125.87
126.1	127.2	126.8	126.0	126.1	126.4	133.4	130.9	126.2	125.6	125.3	128.0	125.71
124.2	125.2	125.8	125.9	126.8	127.6	126.4	128.0	122.3	125.6	131.0	127.0	125.57
124.1	124.8	125.2	125.0	127.8	128.5	128.1	128.0	129.2	127.3	129.0	128.7	126.02
124.2	125.6	124.9	126.0	125.8	125.8	—	—	—	—	—	—	125.61
—	—	—	—	—	—	126.4	127.6	127.8	127.4	127.0	127.8	125.41
124.5	126.0	125.4	126.0	126.8	126.1	126.0	126.7	127.0	127.5	127.4	127.0	124.81
124.3	123.8	124.1	124.9	125.2	125.2	126.3	126.0	127.0	127.5	127.4	127.0	126.11
122.0	132.2	125.6	125.0	125.6	126.0	125.2	127.8	126.7	130.0	129.6	123.5	129.49
125.0	125.0	125.5	124.8	124.1	126.6	129.9	130.3	133.5	132.2	125.1	133.5	126.53
110.3	126.3	172.1	140.2	144.5	132.3	89.2	156.7	146.4	111.4	141.2	146.5	—
125.8	125.0	129.7	140.0	128.3	128.7	—	—	—	—	—	—	—
—	—	—	—	—	—	132.0	130.2	124.8	124.0	125.2	127.2	—
124.10	126.39	129.12	128.64	129.20	128.20	125.12	128.73	127.98	125.76	128.18	128.28	126.04
121.7	125.3	128.7	145.2	125.0	123.0	133.5	131.4	129.2	126.0	120.2	126.1	124.66
124.1	122.7	124.7	125.0	137.2	134.0	125.5	128.1	129.4	126.1	128.0	124.0	126.35
127.6	125.0	124.9	134.1	141.6	131.2	129.0	131.0	127.6	120.6	121.6	125.0	126.27
129.7	125.1	127.9	130.3	127.9	131.1	— <sup>h</sup>	—	—	—	—	—	126.45
—	—	—	—	—	—	118.6	127.7	130.1	129.4	128.6	127.0	—
122.4	126.2	129.0	128.2	132.4	133.2	—	—	—	—	—	—	126.64
—	—	—	—	—	—	125.0	125.0	126.4	128.0	126.8	127.2	125.00
122.0	122.5	132.0	124.0	127.5	126.8	126.0	126.2	126.6	127.0	127.0	127.3	125.12
122.5	123.5	124.8	124.1	124.8	125.5	125.8	125.7	126.0	129.4	130.9	130.8	125.08
125.8	120.9	124.0	124.8	127.2	127.0	126.3	121.3	124.0	126.0	125.6	129.4	125.23
125.0	124.6	124.4	124.2	124.5	133.4	129.9	125.1	127.0	125.5	128.0	129.2	124.22
125.0	124.4	124.2	124.8	124.1	124.7	125.2	125.9	126.1 <sup>a</sup>	126.3	127.6	127.8	125.41
125.2	124.2	124.4	125.0	124.0	125.1	—	—	—	—	—	—	123.75
—	—	—	—	—	—	129.5	127.8	129.2	127.8	128.2	129.0	130.19
122.5	122.0	124.8	124.7	124.7	124.0	124.7	125.0	125.5	126.0	126.8	127.0	117.91
125.8	124.2	129.7	130.1	126.3	132.4	138.0	140.0	160.1	170.9	161.0	108.4	125.47
113.1	120.0	114.8	122.0	126.0	124.0	124.0	125.6	124.8	128.1	133.0	133.9	124.42
121.4	122.0	124.0	123.7	124.0	124.5	125.3	125.9	125.7	125.8	125.4	127.0	124.98
124.0	123.8	124.7	125.0	124.1	125.5	124.9	125.0	124.5	126.4	127.4	124.6	123.62
124.4	124.8	124.5	124.8	125.0	125.0	—	—	—	—	—	—	123.82
—	—	—	—	—	—	125.8	123.6	127.0	126.1	125.8	126.0	124.78
123.0	123.8	123.8	124.5	124.2	124.5	124.7	124.5	125.0	125.0	127.0	126.0	123.32
121.5	121.6	123.0	123.0	128.2	124.8	129.0	124.6	124.2	125.0	126.8	129.0	125.08
123.0	123.0	123.3	123.0	123.5	130.9	120.1	127.9	125.5	126.3	128.2	129.5	126.07
118.1	121.3	122.0	124.6	127.0	135.8	126.1	128.9	127.6	125.8	128.5	131.0	123.75
123.3	139.9	128.0	126.9	134.1	130.8	125.7	116.0	124.7	127.6	127.0	126.0	124.14
122.8	122.5	135.6	126.2	129.3	135.4	—	—	—	—	—	—	—
—	—	—	—	—	—	126.5	124.2	127.0	131.6	126.4	130.0	—
122.4	123.7	123.3	125.2	129.0	127.2	124.9	124.1	123.8	125.0	125.9	127.5	—
129.6	127.5	132.0	133.0	130.5	125.6	125.0	124.4	127.0	119.2	120.5	129.0	—
123.44	124.18	125.70	126.66	127.68	128.22	126.36	126.20	127.76	128.04	128.09	127.11	124.87

<sup>f</sup> Six minutes late.

<sup>g</sup> Five minutes late.

<sup>h</sup> Good Friday.

<sup>i</sup> Ten minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
MAY.	1	131.0	131.9	133.9	131.0	125.4	122.4	120.6	118.0	118.2	118.6	117.3
	2	127.0	131.2	130.0	128.2	125.0	122.8	116.9	114.8	114.5	116.0	118.1
	3	131.0	133.7	135.0	132.0	126.6	118.6	116.9	114.2	113.0	115.4	119.2
	4	130.2	131.2	132.8	132.0	128.4	124.0	120.6	117.4	116.0	117.2	119.7
	5	—	—	—	—	—	—	—	—	—	—	—
	6	131.0	130.0	130.1	131.8	125.0	123.1	118.0	112.6	115.3	116.1	118.8
	7	128.0	129.0	130.0	127.9	123.3	120.2	119.0	117.0	116.2	116.8	119.3
	8	133.8	132.3	125.8	125.9	123.6 <sup>a</sup>	121.5	115.3	116.2	114.8	114.0	115.0
	9	131.7	132.1	135.2	131.6	128.9	125.6 <sup>b</sup>	122.9	121.2	120.9	121.6	122.1
	10	128.0	130.0	129.2	130.4	125.2	119.2	118.3	118.9	117.5	118.5	120.4
	11	127.0	129.0	127.0	124.1	120.3	119.0	117.4	117.4	118.8	120.8	121.9
	12	—	—	—	—	—	—	—	—	—	—	—
	13	132.0	132.2	132.1	130.0	127.9	120.6	117.0	122.8	117.8	119.4	121.5
	14	129.5	135.5	135.8	133.5	124.8	122.2	119.5	115.8	116.6	118.8	121.6
	15	132.0	133.5	132.0	130.4	125.0	123.0	116.0	113.8	114.3	117.8	122.0
	16	132.9	133.4	132.0	129.0	123.2	119.0	117.0	116.0	117.8	119.3	123.0
	17	130.8	133.0	132.6	130.7	126.7	121.1	117.0	115.2	114.9	117.2 <sup>d</sup>	119.7
	18	128.9	130.0	130.0	128.2	126.6	124.0	121.6	121.1	117.9	119.8	121.8
	19	—	—	—	—	—	—	—	—	—	—	—
	20	131.0	132.0	132.1	131.0	127.9	124.0	119.1	118.8	118.4	119.8	120.6
	21	129.0	132.0	134.4	131.6	129.0	124.0	120.0	116.3	115.1	114.6	118.4
	22	135.0	128.8	130.0	134.5	129.0	131.1	122.0	116.9	114.8	112.9	110.0
	23	128.6	130.0	131.2	129.8	127.8	123.1	119.1	119.0	121.3	120.0	121.0
	24	133.0	131.3	128.8	127.2	124.5	120.1	120.3	112.0	112.8	114.9	122.0
	25	128.4	130.4	129.9	127.2	123.6	121.1	115.4	115.9	118.5	118.0	120.3
	26	—	—	—	—	—	—	—	—	—	—	—
	27	130.5	131.2	128.3	125.8	120.0	116.0	115.1	115.7	—	—	117.1 <sup>d</sup>
	28	130.0	131.5	131.3	129.4	124.6	119.0	115.0	113.7	113.1	115.3	119.2
	29	129.5	131.0	131.5	128.3	125.0	120.9	115.8	112.9	112.5	115.0	118.2
	30	131.7	131.5	130.8	129.2	124.7	122.1	117.5	116.0	116.2	117.5	120.1
	31	129.1	131.0	130.5	128.8	125.5	121.4	117.0	114.5	113.0	113.7	116.5
Hourly Means	130.39	131.43	131.20	129.61	125.46	121.82	118.16	116.45	116.16	117.27	119.44	121.84
JUNE.	1	132.0	135.4	130.7	128.0	124.1	119.4	115.5	110.9	112.0	114.8	117.9
	2	—	—	—	—	—	—	—	—	—	—	—
	3	129.0	128.0	132.0	129.1	125.9	121.1	119.8	115.5	115.0	115.0	117.2
	4	129.3	131.0	133.7	130.1	127.0	122.8	118.6	117.8	116.8	117.4	117.0
	5	126.0	129.2	126.4	130.0	125.0	120.7	116.1	115.0 <sup>b</sup>	118.2	119.4	117.0
	6	128.8	131.0	131.2	128.3	124.9	121.1	119.3	117.4	116.8	117.0	118.1
	7	127.4	130.4	129.5	127.0	122.0	117.6	115.4	116.0	118.1	119.0	119.6
	8	129.7	130.1	128.1	127.1	125.1	119.2	115.0	114.1	115.4	118.3	119.2
	9	—	—	—	—	—	—	—	—	—	—	—
	10	123.4	129.8	131.4	128.0	123.1	117.1 <sup>a</sup>	116.4	113.0	114.0	116.1	119.3
	11	132.1	133.9	132.8	130.4	127.1	123.8 <sup>d</sup>	117.2	115.9	117.2	120.8	121.7 <sup>d</sup>
	12	132.4	132.8	132.0	129.6	124.1	121.6	119.3	114.9	116.1	118.1	121.0
	13	135.5	137.8	136.8	131.3	124.2	119.1	115.7	112.5	114.0	115.2	119.6
	14	128.8	133.5	135.5	131.2	126.0	120.2	114.9	113.1	114.2	117.1	120.9
	15	129.9	130.0	129.2	129.0	124.5	121.5	119.1	117.8	116.1	118.4	120.8
	16	—	—	—	—	—	—	—	—	—	—	—
	17	135.0	127.6	132.3	126.9	122.3	113.9	113.2	112.1	116.0	114.1	118.0
	18	136.2	130.5	133.0	128.9	135.2	121.5	115.3	113.5	114.5	115.8	116.4
	19	128.5	129.0	129.9	128.0	123.1	119.0	114.9	113.8	115.0	115.2	116.9
	20	130.0	130.5	131.0	129.2	125.4	121.5	116.7	115.8	112.3	115.1	118.9
	21	133.8	134.7	130.9	130.3	125.2	119.8	115.0	113.2	113.2 <sup>e</sup>	111.4	116.2
	22	131.0	132.6	131.5	129.6	126.2	121.6	117.2	117.0	115.8	118.0	118.0
	23	—	—	—	—	—	—	—	—	—	—	—
	24	130.8	130.5	129.7	128.0	122.0	115.5	113.0	113.8	114.9	115.0	117.7
	25	129.4	129.6	130.0	127.4	123.0	119.2	115.0	115.2	117.0	118.2	118.9
	26	129.2	129.8	127.3	125.6	123.6	117.0	114.4	114.3	113.2	115.3	116.5
	27	129.7	132.0	131.1	127.5	124.4	119.7	116.9	116.8	117.2	119.8	121.2
	28	131.2	134.1	133.6	131.2	123.8	119.2	115.2	112.9	111.9	113.1	118.0
	29	127.3	134.0	133.0	132.7	123.9	117.8	112.6	111.7	117.7	120.2	124.0
	30	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	130.26	131.51	131.30	128.98	124.84	119.64	116.07	114.56	115.30	116.71	118.80	121.00

<sup>a</sup> Three minutes late. <sup>b</sup> Fifteen minutes late. <sup>c</sup> Seven minutes late. <sup>d</sup> Two minutes late. <sup>e</sup> Twenty minutes late. <sup>f</sup> Nine minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div. 121.2	Sc. Div. 121.1	Sc. Div. 123.4	Sc. Div. 125.7	Sc. Div. 126.0	Sc. Div. 127.9	Sc. Div. 122.8	Sc. Div. 122.0	Sc. Div. 123.2	Sc. Div. 125.0	Sc. Div. 127.2	Sc. Div. 124.0	Sc. Div. 123.98
127.8	126.3	124.8	123.0	125.9	128.4	133.7	131.4	131.2	128.5	126.4	126.7	125.05
124.0	125.0	125.2	125.7	125.4	125.2	128.4	127.9	124.2	125.0	126.1	127.2	124.45
123.3	123.8	124.0	125.0	—	—	—	—	—	—	—	—	124.64
—	—	—	—	—	—	126.2	125.3	128.9	125.2	122.8	126.8	—
123.0	126.0	124.0	125.2	130.7	125.4	125.0	126.2	122.5	124.7	125.4	128.0	124.14
124.8	124.6	124.5	123.2	142.0	126.0	133.6	145.4	128.2	124.9	125.0	130.0	125.72
125.1	133.8	120.0	130.4	133.3	128.0	125.2	129.0	128.2	129.4	129.5	128.1	124.94
123.8	122.7	123.2	126.6	128.2	126.0	125.9	126.1	125.3	125.9	126.2	127.0	125.97
123.2	123.3 <sup>c</sup>	124.2	124.8	134.5	125.2	125.9	126.0	126.0	125.5	125.9	128.0	124.59
122.4	123.0	123.1	123.6	124.0	126.0	—	—	—	—	—	—	—
—	—	—	—	—	—	125.2	127.0	125.9	127.0	127.0	130.0	123.75
123.1	123.4	123.0	123.0	123.3	124.0	132.9	128.8	125.0	122.9	126.5	127.0	124.96
123.8	129.7	125.0	132.1	157.2	131.0	127.5	128.7	124.5	122.4	126.4	130.5	127.31
127.0	127.0	123.9	124.0	126.4	124.8	124.0	124.0	123.4	124.2	123.3	129.6	124.54
125.2	124.6	123.7	123.0	125.3	125.8	125.0	124.5	125.0	124.7	124.7	127.5	124.40
126.3	124.5	122.0	124.0	124.0	124.5	125.0	125.0	124.2	124.2	123.5	127.6	124.03
124.2	126.2	123.3	124.3	123.8	126.1	—	—	—	—	—	—	—
—	—	—	—	—	—	125.0	124.3	126.6	127.0	124.7	128.6	124.89
122.4	123.1	122.8	123.2	123.8	124.2	125.0	126.2	126.6	126.4	127.2	130.0	124.89
118.6	126.6	122.4	123.2	125.1	124.9	126.0	126.0	125.0	126.2	128.0	131.0	124.62
118.0	136.3	124.3	135.2	126.4	136.8	138.0	133.0	121.8	124.6	127.0	124.1	126.20
121.8	122.6	128.0	128.8	127.5	125.2	125.0	125.6	124.7	122.5	125.0	129.0	124.97
119.0	114.1	115.8	122.0	115.0	117.0	116.1	123.3	117.0	120.5	123.7	126.9	120.70
122.7	121.6	125.6	125.6	123.9	124.0	—	—	—	—	—	—	—
—	—	—	—	—	—	125.6	121.2	124.5	124.0	125.2	127.5	123.38
120.2	121.2	121.0	124.0	120.3	118.3	124.5	121.2 <sup>e</sup>	124.6	127.7	127.7	130.7	122.73
123.0	123.4	122.2	122.0	125.0	126.0	122.5	121.8	122.0	122.0	123.5	127.8	122.75
123.0	123.0	121.5	121.2	120.8	121.4	122.8	129.2	129.7	132.3	128.8	131.5	123.57
122.5	122.8	123.0	121.8	122.0	122.2	122.3	122.8	124.0	122.8	125.3	127.2	123.23
120.0	121.3	120.9	121.0	121.8	124.2	122.5	123.0	124.1	127.5	127.0	129.8	122.64
122.94	124.48	123.14	124.87	126.98	125.33	125.99	126.48	125.05	125.31	125.70	128.23	124.34
121.0	122.9	120.2	130.5	127.2	125.0	—	—	—	—	—	—	123.25
—	—	—	—	—	—	122.3	128.0	126.0	124.0	125.0	127.3	—
122.7	123.6	123.2	122.9 <sup>f</sup>	122.5	122.5 <sup>g</sup>	125.1	123.5	124.2	122.9	124.4	127.1	123.02
123.9	125.0	124.0	123.4	123.0	122.5	122.7	122.0	122.7	123.6	123.2	125.5	123.51
121.8	122.4	122.7	122.0	121.0	124.0	122.7	123.0	123.0	124.0	125.0	126.4	122.58
120.9	122.4	122.9	123.2	124.2	123.1	124.0	124.0	124.1	125.8	127.0	128.2	123.48
122.0	122.0	121.7	121.0	123.4	122.2	123.0	123.0	123.2	123.2	126.3	128.0	122.58
120.0	122.8	120.8	120.4	122.0	125.6	—	—	—	—	—	—	—
—	—	—	—	—	—	123.0	123.8	126.8	125.8	126.2	127.2	122.73
121.2	122.2	124.0	134.0	123.0	124.0	123.2	123.9	123.2	118.9	123.5	127.2	122.57
124.1	123.7	122.6	123.0	127.2	129.7	125.0	125.8	124.4	120.7	124.2	128.2	124.80
125.0	124.2	123.0	126.1	126.9	130.9	131.1	125.0	125.0	122.8	127.2	129.8	125.05
123.1	123.2	123.6	122.0	122.8	122.1	122.0	123.0	123.6	124.0	125.4	126.0	123.49
124.1	124.8	123.0	122.9	122.2	122.8	124.8	123.3	123.2	124.2	124.1	126.2	123.51
124.8	124.2	124.8	122.3	122.0	122.1	—	—	—	—	—	—	—
—	—	—	—	—	—	124.0	126.6	129.7	132.4	131.2	132.0	124.88
120.2	122.0	135.6	124.4	125.0	129.5	126.0	127.1	123.0	130.5	129.2	131.2	124.00
121.4	121.0	121.2	122.0	128.3	124.2	124.8	123.3	124.2	124.2	124.2	126.2	123.54
122.0	122.5	121.4	122.6	121.0	123.0	122.6 <sup>i</sup>	121.3	123.3	124.8	125.5	128.7	122.17
122.2	121.8	122.2	127.2	123.9	132.5	120.4	126.8	125.8	121.8	124.5	127.2	123.57
118.5	120.5	122.5	120.8	121.0	124.3	124.7	124.0	124.4	124.8	125.7	129.1	122.56
121.0	122.1	122.0	121.6	122.0	123.4	—	—	—	—	—	—	—
—	—	—	—	—	—	122.5	124.7	125.3	125.9	126.7	129.2	123.52
121.0	120.2	120.1	121.2	121.0	122.2	123.1	123.1	127.0	127.1	130.5	129.8	122.38
122.0	122.2	121.4	118.0	121.0	121.0	122.6	125.6	127.8	127.4	131.2	130.0	123.00
120.4	120.2	122.1	122.0	122.0	122.6	124.0	123.8	124.0	123.2	125.0	127.0	121.78
122.2	121.6	121.0	123.4	124.1	122.9	122.2	123.2	123.8	124.9	126.2	128.8	123.44
120.6	123.8	124.5	121.5	124.0 <sup>l</sup>	127.8 <sup>m</sup>	125.9	121.4	126.4	123.4	127.1	127.0	123.24
126.0	124.6	129.3	125.1	125.4	128.7	—	—	—	—	—	—	—
—	—	—	—	—	—	121.3	122.1	122.2	115.6	121.9	128.0	123.72
121.08	122.64	123.19	123.34	123.40	124.74	123.72	124.05	124.65	124.24	126.02	128.05	123.29

<sup>a</sup> Eighteen minutes late.

<sup>b</sup> Ten minutes late.

<sup>c</sup> Five minutes late.

<sup>d</sup> Four minutes late.

<sup>e</sup> Two minutes early.



DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0' 721. Increasing numbers denote decreasing Westerly Declination.												
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
JULY.	1	131.0	131.0	130.0	127.3	123.7	118.8	116.5	114.0	114.3	115.0	117.5
	2	125.4	132.7	134.6	133.5	133.5	128.8	122.5	117.7	113.7	112.2	114.8
	3	125.7	129.2	127.9	129.7	126.7	123.2	121.5	114.8	114.6	116.0	118.4
	4	130.6	132.0	132.1	129.0	124.2	121.9	116.4	112.2	113.0	112.0	115.2
	5	129.0	130.2	133.0	132.1	127.3	121.8	119.6	116.7	116.5	116.1	117.1
	6	127.7	130.5	131.0	129.9	125.3	121.3	119.4	115.0	114.0	114.9	119.5
	7	—	—	—	—	—	—	—	—	—	—	—
	8	129.6	135.1	133.4	129.5	121.1	115.0	116.3	120.3	119.8	122.0	123.8
	9	125.3	129.4	129.0	125.5	121.0	119.1	118.8	119.0	122.3	122.0	123.4
	10	128.1	128.4	126.6	125.8	124.2	120.8	120.1	119.0	118.1	119.3	118.9
	11	123.0	131.0	131.9	130.0	125.8	122.0	119.0	115.5	116.8	118.6	119.1
	12	128.8	129.6	128.0	126.2	122.2	119.1	117.5	117.0	118.4	120.2	121.1
	13	137.0	134.7	134.0	127.0	115.5	116.8	114.5	114.7	116.6	115.8	117.6
	14	—	—	—	—	—	—	—	—	—	—	—
	15	132.0	134.4	136.3	133.4	128.3	123.2	118.6	118.3	114.0	112.9	116.4
	16	131.0	132.7	131.4	129.4	122.3	116.6	113.0	110.5	113.0	115.0	118.1
	17	130.0	132.1	132.9	129.3	124.0	117.5 <sup>a</sup>	116.8	116.9	114.5	113.2	118.2
	18	134.8	135.2	137.2	127.0	125.0	121.2	115.3	111.0	111.9	114.4	119.8
	19	129.2	133.9	131.9	131.3	126.3	123.7	119.8	116.4	115.2	115.1	117.8
	20	127.0	130.0	131.6	130.0	126.2	122.0	116.4	113.8	114.0	115.8	117.2
	21	—	—	—	—	—	—	—	—	—	—	—
	22	132.0	131.5	131.0	130.0	127.5	122.0	117.8	115.6	118.0	121.6	123.0
	23	135.0	135.0	134.4	134.0	130.0	126.5	124.9	118.0	117.7	118.9	120.2
	24	129.0	131.3	133.0	131.0	125.9	123.7	119.3	117.7	118.8	119.7	119.9
	25	127.4	120.2	129.0	131.1	125.0	120.6	115.6	117.0	112.1	118.0	119.2
	26	129.8	134.0	133.0	132.0	129.1	122.5	120.0	118.0	116.2	118.0	120.1
	27	125.4	132.5	132.1	130.0	128.8	121.3	118.3	118.0	111.8	118.5	120.8
	28	—	—	—	—	—	—	—	—	—	—	—
	29	129.2	134.0	133.6	131.9	125.0	118.0	115.0	113.1	115.0	116.1	117.8
	30	129.8	136.6	135.2	132.4	122.6	112.9	109.0	108.8	110.2	116.0 <sup>e</sup>	121.2
	31	132.5	134.2	134.2	127.3	124.8	121.6	117.2	116.0	113.4	115.4	117.1
Hourly Means	129.46	131.90	132.16	129.84	125.23	120.81	117.74	115.74	115.33	116.77	119.01	
AUGUST.	1	131.0	137.6	132.8	133.2	127.4	127.7	116.2	110.1	104.5	106.1	165.5
	2	132.8	131.0	132.8	127.6	124.3	120.8	118.8	117.3	118.5	118.9	118.3
	3	125.0	129.4	130.8	126.8	123.0	120.4	119.1	112.9	115.0	119.5	112.0
	4	—	—	—	—	—	—	—	—	—	—	—
	5	131.0	126.0	130.2	125.3	120.9	116.8	117.6	117.0	116.4	115.8	117.7
	6	128.3	129.6	131.1	129.5	124.7	118.4	115.2	114.0	115.4	118.0	121.1
	7	127.2	129.1	129.3	127.4	122.4	118.8	115.2	113.0	114.5	117.0	119.8
	8	129.0	135.5	133.8	131.0	126.4	121.8	119.4	118.5	120.0	121.4	122.0
	9	129.0	125.4	129.0	127.2	122.9	108.9	113.7	106.8	102.7	109.2	116.0
	10	133.5	134.7	135.3	132.0	126.2	123.1	120.9	119.3	119.8	122.9	122.5
	11	—	—	—	—	—	—	—	—	—	—	—
	12	129.2	131.8	131.0	128.7	125.1	119.2	116.1	116.1	116.1	117.9	120.0
	13	127.9	133.1	132.4	128.0	123.9	126.9 <sup>d</sup>	114.0	111.6	113.7	116.5	120.0
	14	131.2	134.2	133.9	130.2	122.8	116.1	113.1	112.0	112.9	115.6	118.8
	15	130.4	132.5	131.3	130.0	121.5	113.5	111.9	110.9	112.0	116.0	118.7
	16	131.7	133.0	132.9	128.8	123.2	116.8	114.0 <sup>e</sup>	109.1	108.0	113.0	116.6
	17	130.2	132.0	132.9	130.2	124.0	117.7	115.1	112.0	112.2	115.2	117.6
	18	—	—	—	—	—	—	—	—	—	—	—
	19	130.2	133.5	133.4	131.4	124.2	117.9	112.5	111.6	112.8	113.0	117.2 <sup>f</sup>
	20	128.8	130.2	130.8	127.8	123.5	116.6	113.8	107.9	109.4	113.0	116.1
	21	129.4	132.6	132.8	131.6	124.6	119.0	115.1	121.6	114.0	118.5	121.1
	22	134.5	134.6	133.8	122.3	112.8	107.8	112.5	107.2	117.9	118.7	121.3
	23	129.9	129.9	130.8	125.8	120.1	113.4	107.6	113.3	113.2	117.0	121.7
	24	131.0	132.0	129.3	126.5	120.6	118.7	118.7	117.8	117.6	119.0	123.8
	25	—	—	—	—	—	—	—	—	—	—	—
	26	134.0	130.8	129.8	125.9	119.9	115.9	112.5	113.1	116.4	120.0	121.9
	27	128.2	130.4	129.9	125.5	119.1	115.7	114.1	113.8	114.9	118.2	121.8
	28	130.5	132.6	132.0	124.8	119.0 <sup>e</sup>	113.8 <sup>d</sup>	109.8	109.7	121.6	121.2	120.5
	29	132.4	133.9	132.0	128.6 <sup>c</sup>	120.0	113.6	111.7	111.6	113.4	115.9	117.8
	30	130.8	129.9	127.8	122.8	123.0	110.7	112.2	110.0	115.5	118.1	121.4
	31	126.3	125.2	123.5	125.1	121.6	116.1	115.3	115.4	117.0	119.5	121.2
	32	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	130.13	131.50	131.31	127.93	122.49	117.26	114.67	113.10	114.26	116.86	118.98	

<sup>a</sup> Seven minutes late.

<sup>b</sup> Eight minutes late.

<sup>c</sup> Four minutes late.

<sup>d</sup> Three minutes late.

<sup>e</sup> Two minutes late.

<sup>f</sup> The wire of the

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
123.3	124.7	124.3	123.0	126.2	125.6	125.0	124.7	124.0	122.4	122.6	126.0	122.97
120.6	122.9	123.2	123.0	123.2	123.0	127.0	122.8	122.0	123.0	123.7	125.6	123.63
123.0	123.0	122.5	123.2	124.0	124.9	123.1	125.1	127.0	125.0	126.2	128.3	123.48
122.7	123.4	123.8	127.3	122.9	122.9	123.0	123.3	123.0	121.8	124.0	126.9	122.65
123.2	123.0	122.2	121.6	124.1	124.2	123.7	125.4	124.0	123.5	125.8	127.0	123.60
122.6	122.6	121.2	121.4	121.6	124.0	—	—	—	—	—	—	—
—	—	—	—	—	—	121.5	123.0	127.0	125.4	128.0	119.7	122.89
123.4	121.3	121.3	122.3	136.5	141.0	139.6	133.8	120.4	122.0	125.4	130.0	126.10
124.8	123.6	122.0	123.8	128.7	124.0	126.8	129.6	122.9	119.0	122.2	128.1	123.89
121.1	122.8	121.3	121.3	123.2	123.4	122.8	122.3	122.6	122.8	124.0	125.5	122.62
121.8	121.8	121.9	128.0	127.7	124.7	127.5	126.0	122.0	126.2	124.8	128.1	123.96
123.4	123.2	121.8	121.1	122.2	126.2	135.4	131.2	126.3	125.0	125.2	135.9	124.38
123.6	124.5	122.2	124.9	124.6	123.8	—	—	—	—	—	—	—
—	—	—	—	—	—	124.6	125.8	124.1	124.6	123.2	126.6	123.20
122.0	125.2	125.7	122.1	122.0	123.8	122.3	122.8	122.8	123.3	124.9	128.9	123.90
123.6	123.2	122.4	121.8	123.2	122.7	122.0	122.4	123.0	124.8	123.7	123.0	122.06
119.8	120.9	128.7	122.7	121.8	121.1	126.0	125.8	126.9	126.7	126.9	134.0	123.60
121.2	121.8	121.3	122.2	124.0	122.7	124.0	121.9	122.1	123.4	124.8	125.0	122.90
121.7	121.8	121.2	121.0	127.0	121.9	123.0	123.1	124.0	124.2	124.3	123.6	123.24
121.7	123.6	122.4	122.0	126.4	124.0	—	—	—	—	—	—	—
—	—	—	—	—	—	123.3	123.1	123.0	124.0	124.2	125.8	122.79
126.0	126.0	126.2	126.0	127.1 <sup>b</sup>	129.4	129.3	129.5	129.8	131.4	134.0	130.0	126.65
121.0	121.1	121.3	122.5	122.6	126.0	123.2	122.4	124.9	125.9	127.0	128.0	125.06
121.1	121.5	121.4	120.9	121.0	124.3	127.0	128.2	125.6	129.8	139.1	132.1	125.06
126.0	126.2	122.6	123.0	127.0	131.3	127.7	127.0	133.6	122.3	130.8	127.3	124.29
125.0	124.0	124.7	123.1	123.2	124.4	126.5	125.8	121.1	114.0	119.1	129.0	124.01
121.1	130.9	136.3	126.1	125.9	127.0	—	—	—	—	—	—	—
—	—	—	—	—	—	126.6	123.6	123.2	123.9	125.8	127.2	124.87
122.2	123.8	123.0	123.1	125.8	123.7	123.2	123.8	122.0	124.3	125.2	121.2	122.83
124.4	124.2	123.1	124.3	122.0	122.8	125.2	134.6	125.1	126.6	126.6	128.3	123.55
118.8	118.2	118.3	121.0	122.0	124.0	127.4	129.2	125.9	125.9	127.1	128.9	123.23
122.56	123.30	123.20	123.06	124.64	125.07	125.80	125.79	124.38	124.12	125.87	127.41	123.76
118.3	120.0	117.5	125.2	134.0	129.0	127.3	130.7	128.0	115.4	110.1	121.4	121.82
130.6	124.5	127.4	117.0	128.9	117.9	126.1	128.0	122.0	120.0	119.0	128.9	123.77
122.6	128.2	122.2	124.5	131.1	136.3	—	—	—	—	—	—	—
—	—	—	—	—	—	126.1	133.0	120.8	116.0	121.7	128.2	123.67
125.0	123.2	123.0	122.8	122.2	122.0	123.2	124.6	122.8	121.5	119.8	120.8	121.94
124.8	123.8	123.3	126.2	122.5	123.8	123.6	123.9	122.0	120.5	121.0	123.7	122.83
123.5	123.4	123.6	122.3	122.3	124.0	122.8	123.4	125.2	125.9	126.9	130.0	122.87
124.9	123.0	123.0	122.0	122.0	122.0	127.6	123.0	125.8	124.8	124.0	119.6	124.33
124.4	120.0	120.1	122.3	129.5	123.0	123.0	121.2	122.2	118.0	122.5	132.1	120.12
127.2	120.8	121.7	128.0	121.7	121.0	—	—	—	—	—	—	—
—	—	—	—	—	—	124.2	123.0	123.3	124.3	124.6	126.6	124.96
123.0	122.4	122.0	127.0	123.1	126.1	123.4	127.4	128.5	124.2	123.2	129.2	123.86
123.0	121.4	121.4	122.0	121.9	122.2	122.8	123.8	124.6	125.2	126.4	122.7	122.84
121.9	122.0	121.4	121.8	122.0	122.3	122.6	124.5	124.5	125.0	126.8	126.0	122.60
122.1	121.2	121.2	120.5	121.0	121.8	122.8	123.0	123.5	124.8	126.0	128.7	121.94
123.0	122.5	122.8	121.4	121.9	125.4	122.2	122.7	124.0	124.7	124.7	127.6	122.03
120.8	121.0	121.4	122.7	122.8	124.1	—	—	—	—	—	—	—
—	—	—	—	—	—	123.9	123.7	125.1	122.9	120.6	124.6	122.25
120.5	123.5	125.9	121.5	122.6	122.6	121.2	123.6	122.6	122.0	124.0	125.5	122.19
121.5	121.6	123.1	116.8	123.4	124.0	123.6	125.0	124.8	125.8	125.8	127.8	121.66
122.6	122.8	120.8	122.3	125.7	126.8	124.2	124.6	123.8	124.0	125.8	123.8	123.72
125.3	129.7	142.7	131.6	128.8	123.2	123.3	123.8	131.5	134.0	134.7	120.5	124.93
123.2	125.3	132.0	136.6	130.1	114.2	127.8	131.6	123.4	129.9	129.0	124.0	123.85
124.6	128.8	135.7	121.5	122.8	122.6	—	—	—	—	—	—	—
—	—	—	—	—	—	139.3	120.4	120.2	122.7	126.8	128.5	124.73
124.1	124.0	125.7	125.5	121.6	122.0	122.0	124.8	124.0	124.8	127.9	127.8	123.33
123.0	124.7	123.8	123.1	126.8	122.2	122.5	121.8	120.9	123.2	126.8	127.8	122.56
123.8	122.7	122.1	122.6	122.6	122.8	123.3	123.6	124.3	124.8	127.8	130.7	122.89
125.8	122.3	129.5	124.8	120.8	129.9	129.8	121.9	115.5	107.5	127.9	128.9	122.25
122.6	127.2	128.8	122.2	123.6	129.8	133.0	123.6	121.3	120.3	120.4	117.6	122.27
123.9	124.1	123.6	128.8	123.9	128.3	—	—	—	—	—	—	—
—	—	—	—	—	—	127.5	123.8	119.7	124.4	123.8	125.8	122.73
123.56	123.49	124.66	123.81	124.43	124.05	125.15	124.61	123.49	122.84	124.37	125.88	122.92

Reading Telescope was found to have given way between the hours of 9 and 10; the connexion was continued by means of the auxiliary Declination Magnetometer.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.*	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	124.0	119.9	120.6	121.0	116.0	112.1	108.7	107.8	109.8	113.8	116.8	118.8
	2	125.4	128.0	127.9	123.8	116.5	110.5	108.6	107.6	110.3	113.8	117.3	120.2
	3	128.2	129.2	127.1	124.2	117.7	117.9	117.2	116.8	110.1	113.9	122.1	116.8
	4	124.5	126.5	125.0	121.8	115.2	111.6	109.2	110.3	113.2	116.5	119.8	119.8
	5	120.7	122.9	120.8	120.2	115.0	109.2	108.1	108.2	109.8	112.1	116.5	118.0
	6	128.1	128.0	126.2	120.1	116.2	112.9	105.0	105.6	108.5	113.0	116.8	116.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	126.3	128.2	126.2	121.0	116.2	112.8	111.7	110.7	113.4	116.9	120.6	119.0
	9	125.0	125.8	123.1	119.8	115.5	111.7	109.8	110.4	114.0	118.0	120.0	120.0
	10	125.3	126.0	124.0	120.2	115.5	111.0	107.3	108.4	111.9	115.7	118.9	118.9
	11	124.6	127.4	125.5	120.8	115.4	108.9	105.1	116.5	110.2	114.0	119.6	118.4
	12	125.7	129.2	127.2	121.8	115.6	110.4	106.9	107.8	109.6	114.0	117.7	118.2
	13	127.2	126.3	125.8	122.8	115.4	108.2	106.0	104.9	107.5	113.9	117.0	119.0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	125.2	126.0	127.6	123.6	117.7	113.7	110.3	110.2	111.9	114.9	117.0	118.3
	16	122.9	125.0	125.8	123.5	118.5	114.2	110.6	110.2	111.3	113.6	115.8	117.1
	17	125.0	126.6	127.3	123.2	119.4	114.5	111.0	111.1	112.2	113.1	115.6	116.8
	18	117.0	119.8	121.1	120.0	119.8	118.0	115.2	112.5	112.0	113.8	115.1	116.0
	19	134.8	126.3	122.5	128.3	115.9	110.1	107.6	109.0	107.9	109.0	114.0	120.9
	20	120.0	118.8	124.0	122.1	115.0	112.8	109.3	110.6	111.6	113.9	115.5	117.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	114.0	120.0	120.6	115.7	113.6	109.5	108.3	111.5	113.8	116.2	118.2	119.0
	23	119.3	123.7	117.7	112.7	108.9	109.4	108.7	109.4	113.1	117.4	120.3	119.8
	24	123.0	126.2	117.1	123.0	117.2	113.1	107.4	109.8	113.6	113.8	115.7	117.0
	25	120.9	129.0	120.1	117.3	107.1	106.5	105.5	107.0	100.0	110.3	112.7	120.7
	26	128.0	126.0	127.5	121.0	113.0	107.0	110.2	109.8	110.0	112.2	117.7	119.0
	27	121.2	121.9	123.6	123.2	119.7	113.2	109.5	110.3	113.2	116.1	117.7	118.2
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	121.4	119.2	114.9	116.4	117.5	107.1	103.7	111.1	111.2	113.6	118.0	118.0
Hourly Means	123.91	125.04	123.57	121.10	115.74	111.45	108.84	109.90	110.80	114.14	117.46	118.44	
OCTOBER.	1	99.3	74.4	98.1	108.8	113.2	114.1	104.1	113.8	106.3	113.2	121.9	114.8
	2	119.5	122.4	123.2	123.0	120.2	116.8	114.5	102.0 <sup>a</sup>	105.8	111.7	114.0	115.7
	3	123.0	124.0	121.0	119.0	116.4	113.9	111.7	110.0	112.4	114.2	116.7	116.8
	4	122.0	124.4	123.4	124.0	118.3	114.0	108.0	110.0	111.9	114.9	116.0	115.9
	5	121.7	121.0	122.8	122.0	121.3	119.0	114.7	113.5	113.8	115.3 <sup>b</sup>	112.7	116.0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	121.5	122.5	118.7	118.2	117.5	112.0	110.4	111.3	114.1	116.3	116.5	117.6
	8	121.7	124.6	121.9	119.8	119.0	115.0	112.9 <sup>c</sup>	114.2	115.0	117.3	117.8	117.6
	9	124.0	121.5	121.6	121.8	118.1	113.5	110.5	112.1	114.0	117.4	118.8	119.0
	10	120.0	121.2	122.7	122.8	117.6	112.9	111.7	111.8	113.4	115.7	116.2	116.7
	11	119.8	121.9	121.8	121.9	119.7	115.5	112.8	112.9	113.8	115.1 <sup>d</sup>	117.3	117.0
	12	120.5	121.8	124.9	124.9	121.0	119.3	109.8	109.7	112.0	114.3	116.2	115.8
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	120.6	123.0	125.1	125.2	123.2	118.0	114.0	111.8	111.7	113.0	115.2	114.8
	15	120.8	122.9	125.0	124.6	120.0	113.0	109.2	110.0	112.2	115.0	116.8	117.9
	16	120.1	122.6	125.1	124.1	121.5	117.1	113.4	111.6	112.5	114.4	116.2	117.0
	17	118.2	121.8	124.1	125.7	120.7	114.2	110.0	108.1	109.0	112.2	113.7	112.0
	18	118.2	126.3	126.3	124.8	119.7	113.4	111.8	111.0	112.8	114.6	115.4	116.2
	19	120.8	121.0	123.8	122.8	119.9	115.5	113.5	113.3	113.8	115.9	117.3	118.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	108.3	101.5	114.7	117.8	109.5	113.0	115.1	115.0	116.1	118.2	123.4	124.4
	22	119.4	120.6	119.2	118.5	117.9	116.3	114.9	114.5	116.8	116.1	117.3	117.4
	23	119.8	120.8	117.2	117.2	111.1	110.3	109.1	109.4	111.1	114.3	116.0	116.8
	24	118.8	120.2	118.5	115.8	115.0	111.8	110.2	112.1	114.6	117.0	118.1	118.4
	25	127.0	124.8	122.0	118.4	115.8	113.0	112.0	112.8	113.8	105.7	114.2	115.4
	26	124.6	123.8	124.1	117.7	113.3	108.6	112.0	112.3	111.3	114.8	110.4	133.6
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	119.1	121.1	122.6	120.1	120.5	114.3	114.1	114.7	114.9	113.9	113.0	115.1
	29	119.1	120.1	119.0	119.6	115.2	113.9	113.8	113.2	114.2	116.7	115.3	119.0
	30	110.9	117.1	123.7	121.8	119.5	115.8	112.4	112.5	113.5	115.5	117.2	116.9
	31	119.8	121.0	122.0	123.1	122.4	120.9	116.4	112.8	112.0	115.0	115.0	115.3
Hourly Means	119.20	119.57	121.20	120.87	118.06	114.63	111.96	111.72	112.70	114.73	116.24	117.45	

\* The Scale readings in this and following months require a correction of 4.63 divisions to be added to them in order to connect them with the Scale readings in the month of August.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'·721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>b</sup> .	13 <sup>b</sup> .	14 <sup>b</sup> .	15 <sup>b</sup> .	16 <sup>b</sup> .	17 <sup>b</sup> .	18 <sup>b</sup> .	19 <sup>b</sup> .	20 <sup>b</sup> .	21 <sup>b</sup> .	22 <sup>b</sup> .	23 <sup>b</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
117·5	119·2	120·7	117·0	126·3	118·0	117·1	117·5	117·6	119·8	114·1	121·1	117·30
118·0	117·1	117·0	117·6	117·7	117·0	126·2	119·1	118·8	117·8	110·9	119·6	117·78
118·2	117·9	118·3	118·6	125·8	122·8	119·0	117·8	118·9	118·1	122·3	122·8	120·07
119·0	118·6	117·2	116·5	117·0	117·4	118·0	118·0	118·8	119·0	119·2	119·0	117·96
117·3	117·4	116·8	116·8	116·4	117·5	123·0	122·2	119·6	122·6	124·1	124·1	117·47
114·9	114·3	116·4	116·0	116·4	117·2	—	—	—	—	—	—	—
—	—	—	—	—	—	123·7	115·7	118·8	120·6	124·1	125·2	117·49
120·2	133·1	113·2	118·2	117·9	117·4	118·8	116·4	119·0	119·8	122·1	120·9	119·17
117·9	116·6	118·8	117·0	116·8	116·9	118·3	118·1	119·0	120·2	121·1	122·2	118·17
116·6	116·1	116·7	117·0	119·4	117·4	119·0	119·3	120·4	121·2	122·0	122·8	117·96
117·8	116·9	116·9	115·7	116·1	117·0	118·0	119·5	120·6	122·3	121·4	122·4	117·96
117·0	117·0	117·2	120·4	119·3	118·0	120·8	118·3	120·6	124·8	126·2	127·0	118·78
118·0	117·9	118·8	158·1	126·9	118·8	—	—	—	—	—	—	—
—	—	—	—	—	—	126·1	125·7	125·1	121·4	122·3	124·8	120·77
118·5	127·1	119·4	118·6	117·5	117·2	117·9	119·6	121·2	118·6	122·9	121·7	119·02
118·9	116·9	115·7	124·0	120·1	121·3	118·8	120·0	121·6	120·0	123·3	123·0	118·84
117·2	118·6	119·4	120·0	120·0	117·0	117·5	118·9	119·5	121·0	121·7	121·7	118·68
118·0	117·0	117·2	118·7	133·3	122·0	129·8	129·2	125·3	125·3	123·2	120·3	119·98
120·3	117·0	119·8	124·7	117·6	118·7	121·7	102·0	118·8	116·6	124·8	122·2	117·98
118·0	116·8	126·8	117·8	116·3	118·3	—	—	—	—	—	—	—
—	—	—	—	—	—	120·4	123·2	106·2	115·4	124·1	122·0	117·33
118·6	118·5	118·2	122·1	119·2	116·4	119·8	116·1	121·6	121·2	121·7	122·2	117·33
120·5	118·8	118·8	133·7	119·3	118·2	118·0	117·6	116·5	119·0	122·1	118·9	117·57
111·6	117·9	138·6	130·8	140·5	128·2	123·3	125·0	114·1	125·2	117·2	122·7	120·50
125·4	122·0	127·9	118·3	118·8	119·0	119·7	121·1	139·3	110·2	115·1	108·0	116·75
126·5	124·0	123·1	132·9	128·0	126·8	119·2	119·0	118·7	119·0	119·0	118·4	119·83
120·7	117·8	118·2	118·3	117·9	118·2	—	—	—	—	—	—	—
—	—	—	—	—	—	129·0	117·0	127·0	117·4	122·1	121·2	118·86
120·5	127·1	154·4	138·0	127·3	130·0	134·7	127·4	118·3	139·5	94·5	85·2	119·54
118·71	119·26	121·02	122·67	121·27	119·47	121·51	119·35	120·25	120·64	120·06	119·98	118·52
117·0	118·3	119·0	119·5	118·5	118·0	118·8	119·8	118·0	120·0	120·0	120·4	112·89
114·1	117·1	115·9	118·9	118·0	115·7	117·0	—	116·9 <sup>b</sup>	117·2	120·9	120·1	116·55
115·8	115·3	115·3	117·0	116·3	117·2	118·2	117·5	117·8	118·3	121·2	121·0	117·08
119·0	116·0	114·7	116·2	117·0	117·8	119·0	117·8	122·3	118·8	117·6	121·6	117·52
114·3	116·9	125·7	117·0	116·6	116·0	—	—	—	—	—	—	—
—	—	—	—	—	—	118·6	116·0	119·8	120·4	119·8	121·8	118·20
116·0	116·8	117·8	129·4	119·0	112·7	120·0	119·4	118·4	118·0	120·0	120·2	117·68
116·0	116·0	115·5	116·8	117·0	116·6	118·0	118·8	118·9	120·2	119·7	120·7	117·96
116·8	117·0	117·2	116·6	117·1	117·3	117·8	118·0	117·8	116·6	117·4	118·2	117·50
116·8	117·5	117·7	117·8	118·0	118·1	118·2	118·4	119·4	118·4	116·3	121·2	117·52
117·0	117·4	117·8	118·4	118·0	117·6	118·0	118·4	118·8	119·2	119·3	119·3	117·86
116·9	117·0	117·6	118·0	118·0	117·8	—	—	—	—	—	—	—
—	—	—	—	—	—	118·2	119·0	119·8	120·0	119·9	120·7	118·05
115·1	116·4	122·0	117·0	121·0	121·4	119·8	122·2	120·7	110·1	119·4	120·8	118·40
117·2	117·2	117·3	118·4	118·4	117·9	118·0	118·2	118·0	118·0	117·6	118·4	117·58
117·2	119·1	122·1	118·3	121·0	117·9	117·3	117·7	117·9	118·4	119·2	119·7	118·39
116·1	117·2	117·0	118·9	118·4	124·9	122·4	118·2	118·0	119·2	119·3	117·4	117·36
117·3	118·0	118·3	118·2	117·8	118·8	120·8	119·0	117·3	118·0	118·5	119·8	118·01
117·0	117·1	117·5	117·5	118·1	121·7	—	—	—	—	—	—	—
—	—	—	—	—	—	128·7	138·9	124·4	119·0	107·1	110·0	118·86
119·0	117·9	120·9	126·2	122·1	122·2	120·1	116·9	116·7	112·0	118·9	118·1	117·00
117·0	117·2	117·1	126·5	122·2	118·9	116·9	117·9	108·2	116·8	122·8	119·0	117·89
122·2	122·7	122·9	118·2	118·8	120·2	117·9	109·3	116·2	119·5	117·7	118·1	116·53
118·5	118·5	120·8	119·1	121·2	117·5	120·0	121·8	109·9	117·0	131·0	127·2	118·04
120·9	126·1	119·9	121·1	127·0	147·6	119·0	113·2	128·8	115·0	116·5	117·3	119·47
115·8	124·9	118·3	125·5	116·1	114·3	—	—	—	—	—	—	—
—	—	—	—	—	—	120·3	118·8	117·6	117·0	116·2	118·4	117·90
125·2	119·0	118·1	119·0	123·4	120·2	118·9	121·2	121·4	118·5	119·9	117·5	118·57
118·0	117·9	120·0	130·8	123·9	118·2	118·6	117·3	117·0	115·9	123·2	119·2	118·30
117·0	119·8	119·0	120·4	119·4	118·3	117·1	119·0	118·0	118·5	119·0	119·4	117·57
117·1	118·4	110·0	118·8	118·8	119·0	—	119·0	118·8	119·6	120·0	121·0	118·49
117·42	118·25	118·68	119·98	119·30	119·40	119·14	118·91	118·40	117·76	119·20	119·50	117·67

<sup>a</sup> Five minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Eight minutes late.

<sup>d</sup> Three minutes late.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0' .721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
NOVEMBER.	1	119.9	123.2	124.6	125.6	123.5	117.0	115.3	111.5	111.7	115.2	114.0	117.9
	2	120.4	122.7	120.8	120.2	119.0	116.7	112.7	111.0	113.1	111.9	112.6	125.7
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	119.0	120.7	121.7	121.7	117.9	111.8	113.6	111.2	113.8	112.2	112.8	114.1
	5	116.8	119.1	119.4	120.4	117.0	115.3	113.5	112.3	113.1	114.9	113.2	115.3
	6	119.6	119.0	121.0	121.0	119.9	116.1	114.0	110.9	113.0	116.9	117.8	118.0
	7	120.0	121.4	120.0	119.6	116.1	114.8	113.2	112.0	112.4	115.0	115.8	118.0
	8	118.7	120.7	122.1	119.8	117.9	115.2	113.5	114.1	115.2	117.3	118.6	118.5
	9	119.0	120.6	122.1	121.7	119.5	115.4	114.3	115.0	115.9	117.6	118.0	117.2
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	109.1	122.7	119.5	118.0	118.7	111.2	105.1	106.8	105.5	119.0	117.3	107.8
	12	118.1	119.0	120.8	120.7	113.9	102.9	108.6	108.8	109.0	113.6	115.8	115.9
	13	116.8	119.4	117.6	120.0	118.8	116.7	114.9	113.9	114.7	114.3	115.5	115.0
	14	119.0	121.0	122.0	120.7	119.8	115.7	113.0	110.5	112.3	114.1	115.2	116.0
	15	118.3	120.2	122.2	122.0	119.7	117.7	114.4	112.0	112.0	112.7	114.2	117.3
	16	114.0	118.0	111.5	105.8	106.9	102.6	100.9	111.6	99.1	103.9	114.2	119.9
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	106.8	119.0	121.4	122.7	120.1	115.0	114.1	113.1	114.4	117.4	121.2	113.7
	19	101.3	115.6	117.8	117.0	118.2	115.4	113.7	112.5	114.1	113.8	116.4	117.2
	20	118.0	115.8	119.8	120.3	118.8	115.0	114.0	112.8	112.0	113.2	114.7	116.0
	21	118.1	118.7	118.1	117.8	116.2	113.5	111.8	110.8	113.0	115.0	115.6	116.9
	22	130.0	127.0	123.8	120.0	114.2	113.2	109.0	114.2	111.3	108.9	113.3	116.4
	23	110.0	114.5	116.4	117.0	117.8	110.0	111.6	109.0	115.8	114.0	113.0	117.3
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	116.8	117.0	120.2	122.2	118.3	117.0	112.7	113.0	115.2	116.0	116.7	118.0
	26	118.6	119.3	119.8	120.6	119.2	116.3	113.8	113.0	114.1	115.9 <sup>b</sup>	117.0	118.0
	27	119.3	118.9	122.9	123.5	121.8	117.9	114.4	113.0	113.4	115.0	116.3	118.0
	28	121.5	118.3	116.6	115.5	115.0	112.8	110.6	110.0	114.2	115.0	115.4	117.3
	29	119.5	120.0	121.0	123.4	120.0	115.2	114.0	114.0	113.8	114.0	114.5	117.1
	30	117.9	118.5	119.8	119.7	120.0	118.1	115.3	114.2	114.4	114.2	115.2	116.1
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	117.17	119.63	120.11	119.88	118.01	114.17	112.38	111.97	112.71	114.27	115.55	116.87	
DECEMBER.	2	118.6	119.7	120.2	122.1	120.9	116.2	112.8	112.8	113.5	114.2	116.5	117.6
	3	119.7	119.0	119.7	120.1	119.6	118.2	115.8	113.9	114.8	115.0	115.7	116.1
	4	121.0	121.9	111.1	119.7	117.8	116.3	112.9	114.4	110.8	111.4	108.3	110.8
	5	119.0	119.0	119.6	120.0	120.0	115.5	114.6	113.0	113.5	114.4	116.0	116.1
	6	127.5	117.0	116.5	119.8	120.1	118.3	114.8	113.7	113.1	113.8	115.4	116.2
	7	118.0	118.0	118.1	119.3	120.0	119.3	117.0	114.4	113.8	113.9	115.0	116.0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	118.8	118.8	118.0	118.7	118.8	117.0	115.1	113.8	114.0	115.8	115.7	118.8
	10	122.1	119.7	120.1	120.8	117.9	116.0 <sup>c</sup>	115.0	113.5	114.4	116.0	117.2	118.5
	11	118.5	120.2	118.9	118.6	118.6	116.3	114.8	114.2	113.9	115.4	116.8	118.0
	12	119.8	118.4	119.6	120.5	120.5	118.4	114.2	112.3	113.2	114.8 <sup>d</sup>	116.1	117.7
	13	118.8	119.9	119.5	120.9	119.8	117.7	114.8	112.0	112.6	115.4	115.9	117.6
	14	118.2	120.0	117.9	120.9	122.0	118.0	111.2	100.8	98.4	105.3	114.1	115.6
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	117.7	117.1	119.1	119.0	119.5	113.9	112.4	109.4	113.2	114.0	116.2	116.4
	17	117.5	117.5	118.0	118.6	120.4	119.2	118.9	116.1	115.4	114.9	115.2	117.0
	18	117.6	118.2	119.0	119.8	120.7	119.1	118.0	117.7	116.4	116.0	116.8	116.9
	19	118.2	115.8	118.2	119.5	114.7	113.0	112.2	114.3	114.5	114.8	113.6	114.0
	20	121.9	115.1	110.0	113.1	117.0	116.6	115.4	113.6	113.7	108.5	117.6	117.4
	21	104.8	116.0	119.3	117.3	111.0	108.0	116.5	112.0	114.0	114.6	116.2 <sup>e</sup>	118.8 <sup>b</sup>
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	117.8	118.0	120.0	120.4	118.2	116.0	115.2	115.4	117.0	117.0	116.0	118.2
	24	118.2	118.7	119.2	120.9	119.5	117.4	114.5	114.7	115.2	116.3	116.4	116.9
	25 <sup>f</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	112.4	113.3	120.0	122.3	119.0	116.6	112.0	116.2	110.0	111.8	115.4	115.0
	27	119.8	119.2	121.2	122.2	121.0	117.4	114.7	112.4	114.0	114.9	115.4	116.9
	28	118.8	121.0	121.2	121.4	120.8	114.1	111.9	110.0	111.0	114.2	116.0	117.2
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	119.6	125.4	123.5	118.0	120.4	114.0 <sup>g</sup>	111.5	112.1	108.5	114.3	116.0	119.1
	31	118.3	129.0	129.4	128.2	120.6	119.6	118.0	115.3	114.0	116.5	117.6	118.2
	Hourly Means	118.50	119.04	119.09	120.08	119.15	116.48	114.57	113.12	112.92	114.13	115.68	116.84

<sup>a</sup> Seven minutes late.

<sup>b</sup> Three minutes late.

<sup>c</sup> Ten minutes late.

<sup>d</sup> Four minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div. 118.1	Sc. Div. 117.4	Sc. Div. 117.9	Sc. Div. 129.6	Sc. Div. 120.0	Sc. Div. 119.1	Sc. Div. 119.4	Sc. Div. 118.0	Sc. Div. 113.6	Sc. Div. 119.0	Sc. Div. 115.5	Sc. Div. 119.6	Sc. Div. 118.61
112.3	114.8	134.0	117.2	120.9	122.0	—	—	—	—	—	—	118.54
115.0	124.1	119.0	117.8	118.6	117.8	123.9	121.2	116.7	118.4	118.2	118.5	117.12
116.8	115.9	115.6	118.7	117.5	118.0	118.8	117.2	117.2	119.2	118.3	117.5	116.72
117.9	118.1	118.0	117.2	117.8	117.4	118.9	118.8	118.9	119.0	120.8	120.4	117.93
118.4	118.7	118.0	117.4	117.4	117.1	117.0	117.0	117.8	118.8	118.8	119.2	117.25
118.1	119.2	119.4	119.0	117.9	117.1	116.9	116.2	116.0	117.7	118.0	119.1	117.76
117.4	118.5	117.7	118.8	119.0	118.0	—	—	—	—	—	—	118.27
113.4	122.0	116.8	119.0	119.7	118.7	118.1	119.5	119.9	117.8	117.0	120.5	115.76
116.1	117.9	116.9	117.2	119.0	121.5	106.8	118.1	116.0	117.0	114.8	118.0	115.27
122.0	123.8	120.1	121.0	120.0	115.7	121.1	116.8	107.4	115.1	120.4	119.3	117.51
117.8	118.1	118.0	118.4	117.8	118.4	117.6	116.6	116.0	117.0	117.4	117.3	117.07
117.4	118.2	118.7	118.1	119.2	118.5	117.7	119.5	119.3	112.4	116.1	125.0	117.62
125.2	123.2	127.6	117.4	118.0	118.8	—	—	—	—	—	—	113.77
117.6	116.7	118.3	126.0	129.3	126.2	121.0	111.5	115.9	118.3	117.3	108.0	117.30
117.8	119.0	118.6	120.0	120.8	117.0	107.6	104.5	118.8	120.0	113.4	118.0	116.15
117.7	117.9	117.8	118.0	116.3	116.6	117.6	117.8	115.3	116.6	116.1	118.0	116.67
117.1	118.5	118.2	126.2	120.0	121.2	118.2	118.1 <sup>a</sup>	115.0	118.3	118.0	117.8	116.80
122.4	116.4	126.4	132.4	125.9	100.2	97.2	117.9	118.6	122.0	101.9	118.0	116.80
118.1	119.0	119.0	118.9	118.5	117.0	—	113.9	114.4	118.0	107.5	114.6	116.28
—	—	—	—	—	—	117.0	116.2	115.2	116.2	114.9	117.8	115.59
119.2	119.0	119.3	119.8	119.2	124.0	118.0	115.2	116.0	117.2	119.4	118.4	117.82
119.0	118.6	120.7	121.4	119.4	118.0	117.2	116.8	117.6	117.4	120.8	119.8	118.01
117.4	123.0	118.3	121.3	124.1	123.3	124.6	118.0	117.2	119.5	117.8	112.0	118.79
118.8	118.3	118.5	124.4	122.4	123.3	127.3	118.4	118.1	120.6	120.0	120.5	118.03
117.7	118.0	119.0	118.8	119.0	118.0	118.0	117.0	117.6	117.8	118.0	118.2	117.65
117.3	117.2	117.8	118.2	118.0	118.0	—	—	—	—	—	—	117.38
—	—	—	—	—	—	118.2	117.8	117.4	118.0	118.5	117.4	—
117.85	118.87	119.60	120.47	119.83	118.50	117.36	116.88	116.60	118.05	116.70	118.00	117.14
117.1	118.3	120.0	121.4	118.2	118.3	117.5	116.7	116.1	117.4	118.4	117.9	117.60
117.0	117.5	117.8	118.6	119.0	118.6	118.2	118.0	118.1	117.6	118.0	120.6	117.77
119.8	118.5	118.5	127.2	127.0	118.0	122.3	118.0	115.0	116.7	114.8	117.0	117.05
117.7	117.4	117.8	118.8	118.1	117.2	118.0	117.7	118.1	117.1	117.0	117.4	117.21
117.1	117.1	117.9	118.0	117.8	117.3	118.0	118.3	117.0	117.4	117.0	118.2	117.39
117.0	117.8	118.8	118.8	119.3	118.1	—	—	—	—	—	—	117.65
—	—	—	—	—	—	118.2	118.9	118.6	117.7	118.6	119.0	117.65
118.4	117.6	118.0	118.4	116.8	123.9	120.2	119.1	119.0	119.1	121.2	118.1	118.05
119.3	118.8	118.6	118.0	118.0	117.9	117.6	117.3	117.0	117.7	118.2	118.6	117.84
119.2	118.5	118.5	118.3	118.2	119.8	117.9	117.0	117.0	115.8	119.0	119.2	117.61
118.1	118.2	118.6	118.8	119.1	121.0	118.8	118.0	115.5	117.4	117.0	118.8	117.70
118.1	118.5	118.7	118.3	118.0	118.3	117.2	117.0	117.2	117.3	118.8	119.9	117.59
117.2	119.0	118.0	124.2	141.3	123.9	—	—	—	—	—	—	116.80
—	—	—	—	—	—	118.3	114.0	114.2	117.0	116.8	117.0	117.18
118.0	128.2	118.6	118.7	119.7	119.3	118.2	117.5	115.1	117.0	117.2	117.0	117.97
118.0	118.4	118.8	118.7	118.0	124.8	117.7	117.7	116.6	117.2	118.0	119.0	117.95
117.1	118.0	119.5	119.7	119.0	118.6	119.8	117.4	116.0	120.6	132.8	125.0	119.15
117.8	118.2	119.8	120.0	121.4	122.6	121.0	119.5	117.0	118.2	119.6	120.8	117.45
118.7	125.6	129.0	123.9	126.6	124.9	126.0	124.3	116.4	117.1	117.0	109.1	118.27
120.0	118.2	119.5	120.8	119.3	117.6	—	—	—	—	—	—	116.09
—	—	—	—	—	—	116.4	116.7	116.7	117.7	117.0	117.8	117.67
118.2	118.7	118.7	120.0	118.9	118.0	116.8	116.4	116.5	116.9	117.0	117.8	117.67
117.8	119.0	119.0	118.2	118.8	117.8	—	—	—	—	—	—	117.59
—	—	—	—	—	—	117.0 <sup>e</sup>	117.0	117.0	117.3	118.1	117.2	117.59
116.2	118.0	117.8	119.0	119.0	121.2	122.8	121.0	118.6	117.3	118.0	116.6	117.06
115.0	120.5	116.8	118.7	118.0	117.0	118.0	118.5	117.8	118.2	118.3	118.0	117.66
117.2	117.8	117.4	119.0	118.8	118.1	—	—	—	—	—	—	116.95
—	—	—	—	—	—	115.0	116.4	118.4	114.0	118.6	118.6	118.57
119.0	127.0	124.0	122.2	129.0	124.0	119.8	118.6	118.2	116.1	113.2	112.2	118.57
119.0	118.6	121.0	120.4	128.3	119.2	118.9	117.6	115.1	115.9	115.0	117.7	119.64
117.92	119.32	119.24	119.92	121.02	119.82	118.78	117.94	116.89	117.27	118.18	117.94	117.66

<sup>e</sup> Five minutes late.

<sup>f</sup> Christmas-day.

<sup>g</sup> Twelve minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JANUARY.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	530.0	531.5	534.0	534.0	528.0	517.0	517.6	521.0	524.0	525.0	520.8	525.3
	2	524.0	520.0	521.0	530.5	530.2	523.1	522.6	513.7	512.1	514.6	513.5	516.5
	3	519.0	519.5	520.1	518.3	511.5	506.0	507.5	511.3	514.3	515.6	518.7	517.8
	4	524.3	522.0	528.0	524.5	524.8	522.3	517.5	522.0	521.9	523.6	524.0	526.7
	5	526.0	529.0	519.8	521.3	515.0	512.5	509.8	514.5	506.3	516.6	519.5	521.4
	6	519.0	522.0	516.9	517.0	506.0	513.5	510.0	515.7	517.7	511.6	514.2	518.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	528.0	526.0	524.9	526.5	528.3	526.0	519.0	515.8	524.1	524.0	528.1	518.4
	9	529.0	526.5	526.1	524.5	522.8	519.8	510.5	513.0	512.9	516.0	526.2	526.1
	10	522.5	525.0	521.3	515.5	517.0	515.0	510.0	512.8	517.2	520.5	519.3	516.9
	11	524.0	523.5	521.0	526.0	523.3	520.5	516.0	514.5	517.2	524.6	529.7	527.1
	12	525.0	525.5	523.5	520.5	510.8	510.3	512.2	515.7	521.5	525.6	516.5	527.0
	13	517.0	518.0	515.8	511.0	504.6	502.4	504.1	511.7	517.0	523.8	527.5	522.8
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	530.0	530.0	527.9	524.0	520.0	515.1	514.5	518.7	521.5	527.8	530.1	529.0
	16	526.0	526.0	525.8	521.0	516.0	513.3	513.6	517.6	521.0	523.6	525.1	525.0
	17	518.0	520.0	521.0	517.0	509.0	502.0	503.0	504.2	509.3	511.8	523.2	521.5
	18	524.0	526.0	526.3	521.5	514.3	513.0	516.0	521.3	520.6	521.1	524.8	521.2
	19	523.0	524.0	523.8	524.0	526.0	521.0	520.0	520.6	525.6	526.5	527.0	525.7
	20	529.5	532.5	530.4	528.0	525.0	526.0	528.0	527.5	525.8	528.5	431.9	530.6
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	545.5	547.0	544.0	539.0	547.0	539.0	539.0	540.0	536.8	540.0	538.2	536.8
	23	528.0	528.0	527.3	524.0	522.0	523.0	528.0	531.2	535.3	533.0	531.8	528.4
	24	520.0	520.5	517.5	510.0	504.0	504.1	509.5	514.5	522.6	527.9	530.8	530.7
	25	527.5	531.1	535.0	530.4	534.8	525.6	522.6	526.3	534.2	536.4	541.1	538.7
	26	544.3	544.8	542.2	537.9	535.0	534.5	536.3	537.9	539.8	542.3	545.2	540.6
	27	545.5	545.6	544.8	542.3	538.6	535.3	538.5	540.6	539.8	539.0	540.8	540.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	550.0	549.0	546.0	546.8	543.0	541.5	537.0	540.3	538.7	542.7	543.0	543.2
	30	545.3	542.8	545.0	545.0	542.0	535.7	535.3	536.7	539.7	535.0	534.2	535.9
31	553.6	553.8	539.0	539.3	536.5	533.7	535.2	542.0	537.2	529.5	539.0	541.2	
Hourly Means	529.59	529.99	528.46	526.66	523.54	520.41	519.75	522.26	524.23	526.17	528.30	527.87	
TEMPERATURE OF THE BIFILAR MAGNET.													
JANUARY.	°	°	°	°	°	°	°	°	°	°	°	°	
	1	36.0	36.5	36.5	36.5	37.0	37.5	38.0	38.5	39.0	39.5	40.5	40.4
	2	39.5	39.5	39.5	39.5	39.5	39.8	40.0	40.4	40.4	40.6	40.6	40.8
	3	44.5	44.5	44.6	44.9	44.9	44.9	45.0	45.2	45.0	45.0	45.4	45.4
	4	44.0	43.8	43.0	42.4	42.0	41.8	41.6	41.5	41.5	41.8	41.7	41.2
	5	40.2	39.8	38.8	39.0	39.5	40.5	40.6	40.8	41.2	41.8	42.2	42.0
	6	41.0	41.0	40.8	40.6	41.0	41.2	41.5	42.0	42.0	42.0	41.8	41.4
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	33.1	33.0	33.0	33.1	33.8	34.5	35.5	35.4	36.5	37.2	37.5	37.5
	9	35.5	35.5	34.7	34.6	35.5	36.0	36.0	36.4	36.8	37.4	37.8	37.8
	10	40.8	40.6	40.5	40.4	40.5	41.0	41.5	41.6	41.5	42.9	42.4	41.6
	11	37.6	37.2	36.0	36.5	36.5	37.0	37.5	38.2	38.5	39.4	39.5	39.2
	12	40.5	41.0	40.5	40.5	41.0	41.2	42.0	42.0	42.4	43.0	43.5	43.0
	13	45.4	45.2	45.0	44.5	43.6	43.5	43.4	43.9	42.1	42.2	42.8	43.1
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	36.0	36.0	36.0	37.4	38.5	39.5	39.5	39.8	40.2	40.2	40.4	40.0
	16	42.0	42.5	42.2	42.4	42.5	43.0	43.9	44.4	44.6	45.0	45.1	45.5
	17	47.0	47.0	46.0	45.5	45.0	45.0	45.2	45.5	45.4	45.2	45.2	44.6
	18	41.5	41.5	40.5	40.5	40.5	41.0	41.0	41.0	40.8	41.2	41.6	41.3
	19	39.6	39.4	39.0	38.6	38.5	38.6	39.4	39.3	39.6	39.9	40.0	40.0
	20	35.5	35.3	34.5	34.8	35.5	36.4	36.5	36.5	36.6	36.8	37.0	36.8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	29.2	29.5	29.4	30.0	31.0	32.0	32.5	33.3	33.8	34.2	34.2	34.4
	23	39.0	39.0	39.7	40.1	40.5	41.2	42.0	42.8	44.0	45.1	46.0	46.4
	24	43.5	43.2	43.0	43.0	43.0	43.2	43.0	42.7	42.2	41.9	41.6	41.6
	25	34.5	34.0	32.8	32.0	31.6	32.0	32.5	32.5	32.4	32.4	32.4	32.2
	26	24.5	24.5	24.5	24.5	24.5	25.5	26.0	26.5	26.5	27.2	28.4	28.6
	27	25.0	25.0	24.7	25.0	26.0	27.0	27.8	28.8	29.6	30.6	30.4	30.4
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	23.5	23.5	23.5	23.0	23.0	24.5	25.6	26.7	27.5	28.5	29.2	29.2
	30	31.0	31.0	31.0	31.0	32.0	33.0	34.4	35.5	36.0	36.8	37.2	36.4
31	32.6	32.0	31.5	32.0	33.4	33.6	33.5	33.5	33.6	34.2	34.8	34.6	
Hourly Means	37.13	37.07	36.71	36.75	37.05	37.57	37.98	38.32	38.51	38.93	39.23	39.09	

HORIZONTAL FORCE.												
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah. = .00027.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 525.0	Sc. Div. 524.0	Sc. Div. 523.2	Sc. Div. 521.0	Sc. Div. 519.7	Sc. Div. 524.8	Sc. Div. 524.1	Sc. Div. 524.6	Sc. Div. 525.1	Sc. Div. 526.6	Sc. Div. 524.9	Sc. Div. 527.0	Sc. Div. 524.93
517.1	518.4	517.8	520.0	519.8	518.1	518.4	519.2	519.2	519.3	519.2	518.8	519.46
517.5	514.2	515.0	515.0	516.0	517.2	518.1	519.6	517.7	516.7	521.2	523.0	516.28
525.4	521.0	523.8	521.4	516.8	517.2	511.1	500.8	527.4	525.9	529.0	517.5	521.62
522.6	523.1	522.6	526.0	523.7	522.9	516.0	524.0	520.4	523.4	515.6	513.0	519.38
518.2	523.8	521.8	524.0	522.8	518.5	—	—	—	—	—	—	—
—	—	—	—	—	—	523.5	523.4	523.4	527.0	528.1	529.2	519.39
515.6	518.0	529.0	521.0	532.0	528.8	525.0	521.6	523.1	524.6	528.2	527.5	524.31
524.6	527.0	526.4	523.1	523.0	521.6	521.8	518.3	524.8	525.0	524.1	522.8	522.32
516.0	516.0	516.2	517.1	521.2	520.4	521.0	521.2	520.4	522.8	524.8	525.0	518.96
524.9	517.5	522.7	528.0	526.0	525.0	525.0	525.0	522.5	523.5	525.0	525.0	523.22
522.2	522.0	523.0	521.8	521.0	518.8	519.8	521.2	520.0	518.4	517.0	517.0	519.85
522.0	522.0	520.6	518.4	517.7	518.4	—	—	—	—	—	—	—
—	—	—	—	—	—	525.0	521.9	522.0	524.2	528.2	530.0	518.59
524.6	522.5	520.1	520.0	521.3	521.5	522.2	524.8	524.6	525.3	525.5	525.0	523.58
521.4	521.0	521.0	514.3	514.6	512.7	515.5	515.6	514.8	517.2	518.5	519.0	519.15
520.9	521.0	520.6	519.0	518.2	517.4	517.4	519.0	520.7	518.9	521.2	523.5	516.58
516.5	525.0	524.4	522.4	522.2	518.8	521.2	521.9	520.0	522.2	524.5	524.3	521.40
526.5	523.1	525.4	522.9	525.4	525.0	523.6	521.6	519.0	525.5	526.4	529.3	524.20
530.2	531.4	530.6	531.0	530.0	531.1	—	—	—	—	—	—	—
—	—	—	—	—	—	539.0	540.1	540.5	543.7	545.4	545.5	532.59
536.0	534.7	537.6	535.6	533.9	535.4	530.1	525.8	523.5	523.2	524.4	526.6	535.80
527.2	523.3	524.0	525.8	524.5	523.1	519.0	519.8	523.1	522.0	519.8	521.0	525.53
529.3	533.0	528.9	517.8	506.2	496.5	500.0	502.6	508.3	507.9	525.3	530.3	516.63
535.4	535.0	533.1	532.3	526.6	534.6	545.7	538.9	538.7	540.3	541.5	544.0	530.58
539.2	541.1	539.0	540.0	541.7	548.1	542.6	544.8	546.2	547.0	545.3	548.5	541.84
545.3	542.7	536.9	534.6	533.0	537.1	—	—	—	—	—	—	—
—	—	—	—	—	—	—	542.4	545.0	539.0	542.2	548.0	540.74
543.8	538.2	543.1	542.0	541.5	541.2	539.9	538.3	538.8	540.8	539.8	541.2	542.07
528.9	528.0	532.2	531.0	530.8	525.7	528.8	529.6	530.5	532.8	534.0	537.0	535.08
542.6	540.0	539.2	533.1	541.2	540.5	546.8	541.0	538.5	537.5	541.5	539.5	540.06
526.63	526.19	526.60	525.13	524.84	524.46	524.64	524.70	525.86	526.69	528.17	528.83	525.33

TEMPERATURE OF THE BIFILAR MAGNET.												
40.2	40.2	40.0	39.6	38.4	38.4	38.5	38.5	38.6	39.0	38.7	39.3	38.55
40.8	41.4	41.8	42.2	42.0	42.0	42.2	43.0	43.8	44.5	45.0	44.5	41.39
45.3	45.0	44.7	44.5	44.5	44.8	45.0	45.0	44.8	44.8	44.6	44.0	44.85
41.5	41.7	41.5	41.4	40.4	40.8	41.2	40.6	41.4	41.3	41.0	40.6	41.65
41.8	41.0	40.6	40.3	40.4	40.6	40.4	40.5	40.7	40.7	40.7	41.0	40.63
41.9	42.0	41.9	41.8	41.5	41.4	—	—	—	—	—	—	—
—	—	—	—	—	—	34.3	33.8	33.5	33.1	33.1	33.1	39.49
37.8	37.2	36.6	36.0	35.6	35.3	35.3	35.0	34.7	35.0	35.4	35.5	35.40
37.8	38.3	38.8	39.0	39.5	40.2	40.5	40.8	41.0	40.8	41.2	40.7	38.03
41.2	41.0	40.6	40.4	40.4	40.2	39.6	38.6	38.2	37.7	37.7	38.0	40.33
38.4	37.8	37.5	37.5	38.0	37.8	38.4	38.5	38.8	39.5	39.8	40.0	38.13
43.2	43.6	44.0	44.2	44.0	44.0	44.0	44.5	45.0	45.5	45.6	45.4	43.07
43.5	43.5	43.7	43.6	43.0	43.0	—	—	—	—	—	—	—
—	—	—	—	—	—	35.8	35.8	35.8	36.0	36.0	36.0	41.68
40.0	40.0	40.4	40.5	40.5	40.7	41.4	41.7	42.0	41.8	41.8	41.5	39.83
46.1	46.4	46.5	46.8	46.5	46.8	46.6	46.0	46.0	46.4	46.6	47.0	45.03
44.4	44.0	44.0	43.5	43.1	42.6	42.2	41.8	41.8	42.0	42.0	41.6	44.15
41.4	41.0	41.0	40.7	41.1	41.8	41.8	41.5	41.2	40.8	40.5	40.1	41.05
40.2	40.2	39.7	39.0	38.8	38.5	38.4	38.0	37.4	36.2	36.3	36.2	38.78
36.5	36.4	36.0	35.6	35.1	34.5	—	—	—	—	—	—	—
—	—	—	—	—	—	27.5	27.4	27.3	27.5	27.8	28.6	33.85
34.8	35.0	35.2	35.5	35.5	35.6	36.4	36.6	37.1	37.7	38.1	38.6	34.15
46.4	45.7	45.1	45.1	44.4	44.8	44.4	44.5	44.2	44.0	43.5	43.5	43.39
42.0	41.9	41.8	41.6	41.4	40.0	38.8	38.0	37.3	36.6	36.2	35.0	40.94
31.6	31.2	30.5	29.5	28.9	28.4	27.5	26.2	25.4	24.6	24.4	24.5	30.17
28.6	28.2	27.8	27.5	26.6	26.4	26.3	26.2	26.0	25.8	25.5	25.4	26.31
30.5	30.4	30.2	30.0	29.5	29.2	—	—	—	—	—	—	—
—	—	—	—	—	—	—	25.3	24.7	24.0	24.0	24.0	27.48
29.3	29.4	29.8	29.4	29.9	30.0	30.1	30.0	30.4	30.5	30.8	31.0	27.85
36.9	37.1	36.7	36.0	35.7	35.5	35.4	34.6	34.2	34.0	33.6	33.5	34.52
34.0	35.2	35.4	35.0	34.6	34.6	34.2	33.2	32.3	32.6	33.0	33.0	33.60
39.11	39.07	38.96	38.75	38.49	38.44	37.93	37.24	37.17	37.13	37.14	37.10	37.95



HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fahr. = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
FEBRUARY.	1	535.5	536.3	540.8	544.0	530.0	519.0	523.6	525.0	531.5	515.3	514.3	531.6
	2	530.0	529.0	526.0	531.5	526.0	520.5 <sup>a</sup>	500.6	524.3	531.9	533.8	532.9	531.8
	3	522.0	520.0	518.8	516.0	515.0	515.0	514.0	517.0	513.6	521.8	524.5	521.8
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	515.0	521.0	525.6	524.0	512.5	513.5	509.5	509.0	518.4	519.4	507.0	520.9
	6	514.5	515.5	516.8	509.5	510.0	506.0	501.3	507.6	516.6	520.5	507.8	515.0
	7	520.0	518.0	517.3	516.0	519.0	515.3	510.5 <sup>a</sup>	516.3	519.9	514.5	492.1	511.8
	8	517.0	518.0	513.9	512.0	503.0 <sup>b</sup>	494.5	504.5	508.0	514.2	519.5	515.4	516.1
	9	525.0	523.8	522.1	519.5	516.5	518.0	517.0	519.7	526.8 <sup>c</sup>	532.8	531.2	530.6
	10	534.0	532.0	530.0	524.5	523.8	521.5	520.0	521.8	525.0	517.4	522.2	524.5
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	530.0	530.3	527.5	528.5	524.5	521.5	518.5 <sup>c</sup>	522.8	521.9	525.6	522.3	521.6
	13	524.0	524.0	521.0	518.5	516.8	517.9	518.0	518.0	520.0	522.8	521.0	519.0
	14	522.0	523.0	521.3	519.5	519.3	519.5	520.0	523.4	526.6	528.9	525.9	525.5
	15	526.0	525.0	520.5	522.0	524.0	520.5	526.0	527.4	528.1	523.4 <sup>d</sup>	517.8	519.0
	16	523.0	520.0	522.0	522.0	523.0	523.0	522.0	522.5	523.0	521.6	518.3	513.8
	17	526.5	524.5	520.4	517.0	517.0	516.0	519.0	524.5	526.8	529.5	520.3	523.5
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	534.0	533.0	529.8	526.0	523.1	518.0	515.5	518.3	521.3	528.7	529.0	518.5
	20	527.0	526.0	522.0	520.0	518.0	515.0	510.5	512.3	514.0	518.7	522.6	522.5
	21	518.0	517.5	517.1	515.5	515.0	511.8	510.5	511.9	511.3	515.0	519.5	519.0
	22	517.0	516.5	516.0	516.0	516.0	513.0 <sup>c</sup>	511.0	510.0	505.8	510.4	514.0	511.2
	23	516.0	515.0	512.0	509.5	508.0	506.0	508.8	509.7	515.5	516.3	517.5	519.0
	24	524.4	523.3	519.8	518.6	519.1	521.9	527.0	528.0	530.6	527.4	528.4	525.4
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	523.0	529.0	531.5	534.0	530.0	527.4	521.8	522.1	524.8	525.1	527.3	518.0
	27	524.0	525.0	523.0	522.0	521.0	518.0	517.0	520.0	521.8	522.7	526.0	528.8
	28	528.0	526.0	524.4	521.0	520.5	523.8	524.5	515.5	508.8	514.1	509.9	509.1
	29	507.0	509.0	509.3	506.0	506.6	506.0	510.5	506.8	514.3	515.2	517.2	511.5
Hourly Means	523.32	523.23	521.96	520.52	518.31	516.10	515.26	517.68	520.50	521.66	519.38	521.18	
TEMPERATURE OF THE BIFILAR MAGNET.													
FEBRUARY.	1	32.5	32.4	31.5	32.0	32.5	33.8	34.8	35.5	35.8	36.2	36.5	36.0
	2	37.5	37.5	37.5	37.5	37.7	38.4 <sup>a</sup>	39.6	39.8	40.4	41.2	41.7	41.8
	3	40.5	40.5	40.5	41.3	42.5	43.0	43.5	43.4	43.7	44.1	44.4	44.2
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	38.0	38.5	38.5	38.7	39.5	40.5	41.0	41.2	41.8	42.6	42.8	42.6
	6	44.5	44.6	44.5	44.5	44.5	45.0	45.5	45.7	46.2	46.5	46.4	46.2
	7	42.0	41.5	41.4	41.5	43.0	44.0	44.5 <sup>a</sup>	44.4	44.5	44.4	44.5	44.6
	8	41.0	40.7	40.0	40.0	40.5 <sup>b</sup>	41.4	41.6	42.4	43.2	43.8	43.8	43.1
	9	37.2	36.0	35.4	35.8	36.2	37.0	37.0	37.0	37.2 <sup>c</sup>	38.1	38.3	38.4
	10	37.0	37.0	36.8	36.6	37.0	37.6	38.6	39.2	40.0	40.4	40.6	40.6
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	38.0	37.6	37.6	38.5	40.3	41.6	42.5 <sup>c</sup>	43.1	43.8	43.7	45.1	44.7
	13	43.0	43.0	42.6	42.6	43.0	44.0	45.0	45.4	45.8	46.0	46.0	45.7
	14	43.5	43.3	42.5	42.5	42.5	42.7	43.5	44.2	44.4	45.0	45.4	45.5
	15	41.4	41.2	41.1	40.6	41.0	42.0	42.6	43.0	43.5	43.6 <sup>d</sup>	43.4	43.4
	16	44.6	44.5	44.6	44.4	45.0	45.5	46.0	46.2	46.2	46.4	46.6	46.7
	17	43.0	43.0	42.0	41.6	42.3	42.6	42.7	43.2	43.6	43.7	43.6	42.6
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	36.5	36.7	37.4	39.0	40.4	41.5	42.0	42.5	43.4	44.5	45.8	46.4
	20	43.0	43.0	44.0	45.4	46.6	47.5	48.0	48.4	49.0	49.4	49.8	49.8
	21	47.2	47.5	47.5	48.0	48.5	49.0	49.5	49.7	50.3	50.6	51.0	51.3
	22	47.5	47.5	47.5	47.8	49.0	49.5 <sup>c</sup>	50.0	50.2	50.8	52.0	53.0	53.4
	23	47.5	47.0	46.4	46.0	46.0	46.0	45.5	44.8	44.6	44.6	44.5	45.0
	24	43.0	42.6	42.8	42.4	43.0	43.6	44.0	44.4	44.6	45.0	45.6	43.5
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	38.5	38.5	39.0	40.3	41.5	42.5	43.3	44.1	44.7	44.8	44.7	44.4
	27	43.6	43.5	43.0	42.5	42.5	42.5	43.5	43.2	43.4	43.6	44.1	45.1
	28	42.5	42.5	43.0	44.2	45.5	46.5	47.4	47.8	48.0	48.5	48.7	47.5
	29	45.5	45.5	46.0	46.0	46.4	46.7	47.0	47.4	47.6	48.0	47.8	46.0
Hourly Means	41.54	41.42	41.32	41.59	42.28	42.98	43.54	43.85	44.26	44.67	44.96	44.90	

<sup>a</sup> Two minutes late.

<sup>b</sup> Four minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fahr. = '00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
530·4	532·7	530·0	529·2	526·1	524·3	525·6	528·7	524·9	527·2	527·8	529·0	528·45
515·5	519·0	517·0	512·0	515·4	499·6	511·9	512·9	520·2	515·8	517·4	521·0	520·67
517·8	510·0	504·9	519·9	515·9	517·1	—	527·9	529·2	530·6	527·5	532·4	524·0
—	—	—	—	—	—	—	—	—	—	—	—	519·86
511·5	512·5	528·7	525·4	521·0	523·9	520·4	510·4	503·4	500·0	507·2	513·5	515·57
516·8	515·5	515·9	514·7	513·7	515·0	515·4	512·3	510·6	514·2	516·3	517·4	513·29
510·2	507·0	509·8	514·2	514·3	517·5	518·3	519·2	516·0	512·9	515·6	518·0	514·32
522·8	522·3	501·3	508·7	518·6	519·5	518·6	518·1	520·0	520·9	521·3	525·5	514·74
530·0	532·3	530·0	531·6	527·7	526·9	525·5	525·0	527·0	524·7	526·2	531·0	525·87
511·3	522·3	526·1	524·9	525·3	525·9	—	—	—	—	—	—	—
—	—	—	—	—	—	525·0	524·4	526·2	527·8	528·8	530·0	524·78
521·6	521·3	521·0	522·0	521·9	518·5	517·2	516·9	518·1	520·0	520·1	523·0	522·40
516·2	524·5	523·8	524·1	521·1	520·2	521·0	518·8	520·0	520·0	521·0	522·0	520·57
524·9	525·0	525·6	525·0	522·9	520·8	522·0	523·8	521·0	520·6	519·0	522·0	522·81
520·7	523·2	522·0	521·2	520·9	520·0	518·6	520·0	520·0	519·4	521·0	521·3	522·00
514·0	517·7	521·0	521·0	515·0	515·0	518·0	519·0	519·8	520·0	521·9	523·0	519·98
525·0	515·0	514·1	517·0	514·8	516·9	—	—	—	—	—	—	—
—	—	—	—	—	—	517·0	528·8	527·0	531·5	532·9	535·0	522·50
524·7	524·2	522·7	525·0	522·0	525·2	526·0	526·0	523·9	521·9	521·3	525·0	524·71
523·4	523·4	520·2	519·3	521·1	518·5	517·5	518·2	518·6	518·2	517·8	518·0	519·28
516·6	508·6	511·6	513·2	514·2	513·4	511·9	510·9	507·1	511·6	511·4	513·0	513·57
509·9	511·8	512·9	511·0 <sup>d</sup>	510·2	510·2	511·3	514·1	514·0	513·0	515·1	516·0	512·77
520·7	522·0	519·2	519·5	519·6	519·0	519·0	520·0	520·9	521·9	524·1	523·4	516·78
525·0	524·2	523·5	523·6	522·2	525·2	—	—	—	—	—	—	—
—	—	—	—	—	—	528·7	527·8	529·9	530·6	531·2	532·0	525·74
527·8	527·2	525·6	525·0	524·1	530·9	530·0	521·1	518·5	521·0	521·5	519·0	525·65
526·8	526·0	525·0	525·2	524·9	526·1	523·8	524·2	525·3	525·0	524·7	528·0	523·93
509·9	514·1	509·7	501·8	464·9	484·6	498·9	503·8	502·5	506·6	509·5	511·0	510·12
513·1	509·5	509·4	508·0	509·9	510·0	510·0	510·3	510·5	511·0	511·8	512·0	510·20
519·46	519·65	518·84	519·30	517·11	517·77	519·18	519·36	519·04	519·33	520·69	522·12	519·62

TEMPERATURE OF THE BIFILAR MAGNET.												
36·6	36·6	37·4	37·4	37·4	37·4	38·1	38·5	38·5	38·2	38·0	37·5	35·88
41·0	41·0	41·0	40·7	40·5	40·6	40·8	41·0	41·0	40·5	40·6	40·4	39·99
44·0	43·5	42·6	41·6	40·5	39·4	—	—	—	—	—	—	—
—	—	—	—	—	—	34·8	35·4	36·2	37·0	37·4	37·6	40·90
42·6	43·1	43·0	43·5	43·8	43·8	44·2	44·4	44·6	44·6	44·6	44·0	42·16
46·2	46·2	45·5	45·4	44·6	44·6	44·6	44·0	43·5	43·6	43·5	42·8	44·94
44·8	45·0	44·6	43·8	43·5	42·7	42·0	42·0	42·0	42·0	41·6	41·3	43·15
43·0	42·8	42·8	42·8	42·6	42·6	42·2	42·0	41·0	40·6	40·0	38·0	41·75
37·8	37·6	37·5	37·2	36·4	36·5	36·8	36·6	37·0	37·0	36·8	36·8	36·98
40·4	40·6	39·8	39·5	39·0	38·7	—	—	—	—	—	—	—
—	—	—	—	—	—	38·6	38·0	38·4	38·6	38·5	38·0	38·73
44·2	43·8	43·5	43·5	43·2	43·5	43·6	43·2	42·9	42·7	42·5	42·5	42·32
45·2	45·2	45·4	45·0	45·5	45·4	45·2	44·5	44·2	44·2	44·0	43·5	44·56
45·3	45·0	44·1	43·8	43·3	42·8	42·5	41·8	41·5	41·4	41·5	40·9	43·29
44·0	44·3	44·5	44·5	44·7	44·8	44·8	44·1	44·2	44·3	44·4	44·5	43·33
46·6	46·4	45·8	45·5	45·1	44·7	44·2	43·8	43·4	43·2	43·0	43·0	45·06
41·7	41·0	40·6	40·3	40·1	40·0	—	—	—	—	—	—	—
—	—	—	—	—	—	35·0	35·1	35·3	35·5	35·5	36·0	40·42
46·4	46·0	45·1	44·7	44·2	43·6	43·0	42·8	43·0	43·2	43·5	43·5	42·71
49·7	49·6	49·1	49·0	49·0	49·2	49·0	48·8	49·0	48·8	48·5	47·8	47·97
51·0	51·0	51·0	50·4	49·6	49·2	49·0	48·2	48·0	47·8	47·4	47·5	49·17
52·8	52·5	51·5	50·6 <sup>d</sup>	49·8	49·2	48·6	48·2	48·2	48·0	48·0	47·8	49·72
45·3	45·5	45·7	45·8	46·2	46·0	46·0	45·5	45·2	44·8	44·2	43·5	45·48
46·1	45·6	45·0	44·2	43·2	43·0	—	—	—	—	—	—	—
—	—	—	—	—	—	38·8	38·5	38·5	38·2	38·2	38·0	42·66
44·1	43·6	43·8	43·9	43·7	43·6	43·5	44·0	44·5	44·5	44·6	44·5	43·11
45·4	45·4	44·2	43·7	43·7	44·0	43·6	42·7	42·3	42·5	42·5	42·5	43·46
47·0	46·5	46·4	46·0	45·8	46·1	46·0	46·5	46·4	46·4	46·2	45·5	46·12
48·2	48·9	49·8	50·0	50·2	50·0	49·7	49·7	49·6	49·8	49·8	49·5	48·21
44·78	44·67	44·39	44·11	43·82	43·66	42·98	42·77	42·73	42·70	42·59	42·28	43·28

<sup>c</sup> Five minutes late.

<sup>d</sup> Three minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	511.0	510.0	508.4	507.0	508.6	509.1	505.8	512.3	515.5	518.3	512.1	510.4
	2	515.0	510.0	499.5	512.5	511.0	506.8	502.4	506.5	512.5	512.0	500.4	500.2
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	520.0	520.0	517.8	503.5	509.5	515.5	509.5	507.5	497.0	516.5	514.8	518.3
	5	512.5	516.5	515.0	512.0	518.5 <sup>a</sup>	512.5	507.0	506.7	506.5	520.3	517.3	503.0
	6	499.0	510.3	508.0	499.8	505.5	500.8	499.5	494.6	503.9	513.8	513.0	514.0
	7	516.5	513.5	505.5	490.3	486.0	493.6	479.0	485.8	495.3	500.6	508.8	499.2
	8	516.0	508.5	501.3	504.0	496.5	498.0	492.5	490.2	501.6	500.0	503.9	504.6
	9	507.0	507.5	505.5	503.5	502.0	499.8	492.9	503.1	508.8	502.2	502.8	508.5
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	516.0	515.0	514.0	511.5	507.5	503.0	502.0	502.0	504.4	516.5	510.0	506.0
	12	510.0	505.0	508.5	511.0	508.5	497.8	496.0	498.5	507.6	508.3	509.4	503.1
	13	513.0	510.0	505.9	505.6	500.2	494.8	497.5	505.0	507.1	509.0	509.0	516.8
	14	516.0	518.0	513.0	509.8	507.0	506.3 <sup>d</sup>	506.8	507.2	510.5	519.8	524.0	514.5
	15	522.0	518.5	513.6	514.0	514.5	513.0	513.0	513.5	518.1	521.9	513.5 <sup>a</sup>	522.0
	16	517.0	515.3	512.9	509.5	504.0	502.0	507.0	512.5	517.0	520.0	520.0	518.3
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	530.3	528.5	523.5	517.0	512.2	508.8	511.2	511.9	519.1	517.0	519.6	521.5 <sup>e</sup>
	19	536.0	531.0	526.8	524.0	520.5	514.0	514.0	519.8	517.8	527.0	533.5	530.6
	20	527.0	523.0	518.8	514.0	509.5	510.5	511.1	513.8	521.8	524.0	524.0	520.6
	21	527.1	524.0	522.1	519.3	510.4	505.7	504.7	505.8	516.3	519.4	520.0	518.0
	22	519.0	526.0	526.0	518.0	512.0	508.0	506.0	507.5	512.7	519.5	523.6	520.5
	23	527.7	527.5	525.7	524.0	517.2	512.0	512.7	520.2	519.2	524.5	528.2	526.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	526.7	525.7	524.7	519.0	510.7	503.7	503.7	506.9	506.4	512.0	515.7	516.7
	26	520.7	519.5	517.7	515.7	514.7	511.2	509.7	509.5	513.9	516.5	515.0	517.2 <sup>e</sup>
	27	519.6	518.7	519.7	514.7	511.0	510.4	504.3	500.9	509.7	526.1	514.6	524.0
	28	517.7	519.7	512.7	512.7	504.1	504.7	507.7	504.0	507.9	520.8	524.4	522.7
	29	520.0	512.7	511.2	508.7	506.5	504.2	507.7	511.7	518.5	527.0	524.7	508.4
	30	471.0	521.7	503.5	483.7	486.7	493.7	468.2	476.6	506.3	511.0	513.0	526.3
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	516.68	517.54	513.90	510.18	507.49	505.35	502.77	505.15	510.59	516.31	515.97	515.08	

TEMPERATURE OF THE BIFILAR MAGNET.													
MARCH.	1	49.5	49.5	49.5	49.6	49.3	49.8	50.0	50.3	50.7	51.0	51.2	51.0
	2	51.5	51.5	50.0	49.5	49.2	49.4	49.6	50.2	50.7	51.1	51.2	51.2
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	40.5	39.5	39.5	39.5	41.0	41.4	41.5	41.6	42.0	42.7	43.1	43.4
	5	39.5	38.0	37.8	39.0	41.0 <sup>a</sup>	42.0	42.8	43.2	44.0	45.4	46.0	46.0
	6	45.0	44.5	44.5	45.0	47.5	48.5	49.2	49.2	49.5	49.5	49.6	49.2
	7	46.0	45.6	46.0	46.5	47.0	48.0	48.5	49.4	49.4	50.0	50.6	50.9
	8	47.0	47.0	47.0	47.5	48.0	48.5	49.0	49.4	49.8	50.4	50.5	50.4
	9	49.6	49.4	48.5	48.5	48.5	48.5	49.0	49.2	49.6	50.0	50.1	50.1
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	44.0	44.0	44.5	45.8	47.5	48.5	49.2	49.6	50.5	51.8	52.4	52.4
	12	49.0	49.0	48.5	48.5	49.5	49.5	49.5	49.6	49.6	50.0	50.4	50.3
	13	50.6	50.5	50.3	50.5	51.0	51.5	51.5	51.8	51.9	52.0	52.4	52.4
	14	47.4	46.3	45.6	45.6	45.6	46.5 <sup>d</sup>	46.5	46.8	47.2	47.8	48.6	49.2
	15	44.0	44.0	43.5	43.5	44.0	44.5	45.0	45.5	45.8	46.0	46.0 <sup>a</sup>	45.7
	16	48.5	48.0	47.5	47.2	47.0	47.2	47.6	48.1	48.3	48.7	48.7	48.5
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	40.0	40.0	40.4	40.4	40.5	40.5	40.7	40.8	40.6	39.6	38.8	37.3 <sup>e</sup>
	19	36.0	36.0	36.0	36.4	37.0	37.6	38.6	39.5	40.2	40.9	41.2	41.0
	20	42.5	42.8	42.5	42.5	43.0	44.0	44.5	44.5	44.5	44.6	44.2	43.8
	21	43.6	43.0	44.4	45.0	45.5	46.0	46.2	46.5	47.0	47.0	47.4	47.0
	22	42.6	42.0	42.0	42.0	42.6	43.5	44.4	45.0	45.2	46.3	46.5	47.3
	23	41.0	40.5	41.5	42.5	43.5	43.6	44.5	44.5	44.8	45.4	46.0	46.4
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	45.5	46.0	46.0	47.0	48.0	48.5	48.5	48.8	49.2	50.4	51.7	52.5
	26	47.5	47.5	47.5	48.0	48.5	49.4	50.0	51.0	52.0	52.8	52.6	52.6 <sup>e</sup>
	27	49.0	48.2	47.5	47.0	46.7	46.6	46.6	46.4	46.2	46.2	46.0	45.7
	28	47.0	47.5	47.5	47.5	47.5	47.5	48.0	48.2	48.3	48.8	49.3	49.5
	29	45.7	45.0	45.5	46.0	46.4	46.5	47.4	47.5	47.5	47.5	47.5	47.6
	30	43.5	42.5	42.5	42.7	42.7	43.0	43.5	43.7	43.4	43.6	43.7	43.5
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	45.23	44.92	44.85	45.12	45.70	46.17	46.61	46.93	47.25	47.70	47.92	47.90	

<sup>a</sup> Two minutes late.      <sup>b</sup> Thirty-eight minutes late.      <sup>c</sup> Three minutes late.      <sup>d</sup> Nine minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 511·2	Sc. Div. 511·0	Sc. Div. 513·8	Sc. Div. 508·9	Sc. Div. 508·1	Sc. Div. 508·8	Sc. Div. 510·8	Sc. Div. 508·5	Sc. Div. 509·2	Sc. Div. 503·6	Sc. Div. 511·5	Sc. Div. 510·0	Sc. Div. 510·17
500·6	498·8	502·9	499·0	500·0	508·0	—	—	—	—	—	—	507·32
—	—	—	—	—	—	509·6	509·6	513·2	508·0	518·1	519·0	513·98
522·5	521·5	516·5	503·3	515·8	511·3	514·7	517·5	520·0	512·6	519·9	510·0	507·65
503·1	498·7	487·9	495·9	495·5	498·5	505·0	507·4	510·2	514·5	516·0	503·0	503·68
503·4	500·0	505·0	507·6	504·6	500·2	488·3	496·7	502·2	505·0	506·5	506·5	498·48
484·6	493·6	500·3	484·3	504·8	488·8	491·6	505·0	506·0	506·0	508·0	516·5	503·12
504·9	506·2	500·7	502·3	501·0	505·6	509·0	505·0	505·7	507·2	509·3	501·0	506·73
508·5	501·2	506·6	510·0	506·9	509·9	—	—	—	—	—	—	509·25
—	—	—	—	—	—	512·0 <sup>b</sup>	511·0	515·5	513·3	510·0	513·0	506·60
506·8	507·9	508·6	509·1	510·8	510·4	510·5	508·8	504·2	510·0	514·0	513·0	509·77
502·0	506·9	503·0	506·0	506·0	506·0	506·0	509·9	512·1	512·7	511·8	513·0	515·76
516·5	516·0	511·0	513·4	513·1	513·1	512·2	512·0	512·0	514·3	513·0	514·0	519·21
518·0	518·0	516·2	516·0	516·7	518·8	519·5	520·0	517·2	521·0	521·0	523·0	517·97
520·5	523·5	523·0	522·0	521·0	520·5	519·0	518·8	518·6	517·5	517·0	518·0	521·13
518·5	519·2	519·6	519·2	519·4	519·9	—	—	—	—	—	—	524·42
—	—	—	—	—	—	527·8	524·6	523·9	526·3	528·2	529·1	521·43
528·0	526·5	531·0	527·3	521·8	520·0	521·0	519·6	519·1	524·8	521·8	525·5 <sup>f</sup>	519·89
531·0	527·4	529·0	529·5	523·7	522·2	510·5	520·0	521·3	523·5	526·5	526·5	519·61
520·5	526·4	528·1	527·4	526·4	524·2	524·6	522·0	524·0	519·3	526·5	526·8	523·38
520·0	522·7	521·6	521·2	521·6	524·7	524·2	523·1	522·8	530·2	528·4	524·0	514·77
524·0	524·2	523·5	521·5	521·1	517·8	521·9	521·7	522·7	521·7	525·0	526·7	516·38
524·6	521·9	521·8	523·5	523·0	524·0	—	—	—	—	—	—	516·77
—	—	—	—	—	—	522·7	527·0	525·7	524·3	528·7	528·2	516·38
514·7	513·7	510·5	511·1	512·0	513·5	515·6	516·1	517·7	518·2	520·2	519·2	515·65
519·2	515·2	517·1	517·6	520·0	515·7	517·2	515·5	516·8	520·7	519·2	517·7	515·30
524·2	503·9	509·3	517·5	516·7	516·7	517·2	518·0	525·4	519·4	518·0	515·7	501·38
519·2	520·7	519·5	519·7	518·0	519·9	515·6	517·7 <sup>h</sup>	516·9	514·9	501·4	524·7	505·87
507·9	513·2	504·1	483·0	470·5	475·2	503·5	459·6	459·9	498·4	504·5	492·1	—
515·3	518·4	504·2	510·4	515·7	509·4	—	—	—	—	—	—	—
—	—	—	—	—	—	526·7	509·2	516·2	517·2	515·7	520·7	—
514·22	513·72	512·87	511·80	512·08	511·66	513·72	512·47	513·79	515·56	516·93	516·80	512·61

TEMPERATURE OF THE BIFILAR MAGNET.												
51·0	50·8	50·8	50·8	50·7	50·5	50·8	50·8	51·0	50·8	50·6	50·6	50·44
50·7	50·4	50·2	49·4	49·2	48·5	—	—	—	—	—	—	48·03
—	—	—	—	—	—	42·0	41·5	41·5	41·6	41·6	41·0	41·24
43·5	43·0	42·4	41·8	41·6	41·5	41·4	39·8	39·7	39·6	39·8	40·0	43·56
45·4	45·4	45·2	44·7	44·8	44·8	45·0	45·0	45·0	45·2	45·2	45·0	47·52
48·6	48·2	48·1	48·0	47·6	47·2	47·2	47·2	47·3	47·0	46·8	46·0	49·04
51·5	51·5	51·5	51·0	50·6	50·2	49·6	49·4	48·8	48·2	47·4	47·4	49·72
50·6	50·6	51·2	51·2	51·3	51·1	50·8	50·6	50·5	50·5	50·5	50·0	—
50·0	49·8	49·3	48·5	48·0	47·4	—	—	—	—	—	—	47·92
—	—	—	—	—	—	45·0 <sup>b</sup>	44·8	44·4	44·0	44·0	44·0	49·13
52·0	51·6	50·8	50·1	49·8	49·5	49·2	49·2	49·2	49·2	49·2	49·0	50·41
50·8	51·0	51·0	51·2	51·4	51·4	51·4	51·7	52·0	52·0	51·5	51·0	50·78
52·0	51·8	51·8	51·2	50·6	50·5	50·2	49·5	49·0	49·0	48·4	48·4	46·58
48·6	48·2	47·8	47·2	46·9	46·2	45·6	45·2	45·4	45·2	44·5	44·0	46·10
45·8	46·0	46·6	46·8	46·8	47·3	48·0	48·0	48·2	48·2	48·7	48·5	—
48·0	47·6	47·5	47·3	46·6	46·0	—	—	—	—	—	—	46·03
—	—	—	—	—	—	42·8	41·8	41·0	40·5	40·3	40·0	38·14
37·0	37·0	36·8	36·8	36·0	35·8	35·8	35·6	36·0	36·2	36·4	36·4	39·97
41·0	40·8	41·2	41·4	41·4	41·2	41·8	41·8	41·7	41·9	42·1	42·5	43·91
43·6	44·2	44·1	44·6	44·8	44·6	44·4	44·2	44·0	44·0	44·0	44·0	44·57
46·2	45·0	44·3	43·6	43·0	42·6	42·5	42·5	42·5	42·5	43·4	43·0	44·16
47·2	47·4	47·5	46·2	44·8	44·4	44·0	43·5	42·1	41·2	41·1	41·0	—
45·7	45·8	45·4	45·0	44·5	44·0	—	—	—	—	—	—	44·34
—	—	—	—	—	—	43·8	44·2	45·0	45·2	45·8	45·5	49·27
53·0	52·4	52·2	51·3	50·5	49·8	49·5	49·0	48·6	48·2	47·9	48·0	50·31
52·2	51·6	51·6	51·1	50·4	50·4	50·1	50·0	50·2	50·5	50·5	49·5	46·32
45·4	45·5	45·5	45·5	45·5	45·5	45·5	45·7	46·0	46·2	46·6	46·6	48·35
49·5	49·5	49·8	49·8	50·0	49·6	49·0	48·0 <sup>b</sup>	47·6	47·5	47·1	46·5	46·11
47·0	46·6	47·4	46·9	46·4	45·9	45·3	45·0	44·5	44·0	44·0	43·5	—
43·5	42·7	42·5	41·8	41·5	41·5	—	—	—	—	—	—	41·75
—	—	—	—	—	—	39·0	38·5	38·0	38·3	38·3	38·0	—
47·68	47·48	47·40	47·05	46·72	46·44	45·76	45·48	45·35	45·26	45·22	44·98	46·29

<sup>c</sup> Five minutes late.

<sup>d</sup> Ten minutes late.

<sup>e</sup> Six minutes late.

<sup>f</sup> Eight minutes late.

2 D 2

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah° = .00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
APRIL.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	518.0	516.0	522.0	502.0	505.2	500.5	495.4	510.8	520.7	519.9	519.0 <sup>a</sup>	511.4
	2	517.5	519.0	515.1	504.0	495.8	492.9	481.4	502.0	507.0	506.5	505.4	510.7
	3	511.0	508.0	508.0	498.9	481.9	479.0	484.6	494.0	506.7	514.5	510.9	500.8
	4	488.5	495.0	496.5	492.5	485.9	483.4	481.9	480.8	488.7	495.7	495.0	493.9
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	509.0	506.5	506.0	502.8	499.5	495.5	493.0	495.4	498.3	510.7	505.8	514.9
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	512.0	511.6	506.9	502.0	498.0	497.0	499.0	503.5	501.8	505.0	503.2	505.0
	9	509.5	510.0	505.1	497.0	492.0 <sup>c</sup>	491.5	492.0	497.2	499.9	502.4	503.2	502.1
	10	508.0	505.0	505.4	496.0	493.0	493.5	494.2	493.2	494.9	498.9	500.1	502.4
	11	502.5	500.5	495.0	492.5	495.3	495.4	498.1	500.0	501.2	503.1	502.4	499.7
	12	505.0	505.0	498.5	491.5	490.0	489.0	492.0	497.6	501.0	501.0	498.2	497.4
	13	502.0	502.5	498.4	491.5	485.0	482.0 <sup>d</sup>	482.0	483.8	488.5	491.9	494.6	493.8
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	496.0	487.3	491.0	492.0	488.3	486.3	484.5	485.1	488.9	489.2	489.9	493.8
	16	497.0	497.5	491.9	482.8	477.0	481.0	489.0	495.0	500.2	500.9	498.0	498.4
	17	378.8	367.3	426.5	430.5	448.5	468.2	487.0	517.4	524.8	522.0	519.5	516.3
	18	518.0	516.5	510.6	501.0	498.0	492.0	492.0	503.4	507.5	508.0	494.5	511.8
	19	506.5	507.5	504.8	497.5	490.5	488.6	483.3	491.2	498.0	501.0	503.4	501.4
	20	501.8	506.5	502.9	500.8	490.3	486.5	485.3	488.1	490.8	497.6	499.7	500.6
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	505.0	504.8	501.1	496.0	493.0	495.0	496.3	496.6	504.0	506.0	508.6	511.2
	23	509.0	509.0	500.6	500.0	497.4	501.1	501.2	499.3	502.9	501.9	507.5	511.5
	24	509.0	509.8	506.0	502.4	496.6	497.0	497.8	497.7	502.5	497.8	500.0	503.0
	25	506.1	501.6	488.3	493.1	507.3	494.7	487.4	478.9	479.5	492.4	499.5	517.4
	26	463.0	500.7	491.5	487.3	474.8	473.5	481.3	488.8	495.5	497.6	496.8	499.9
	27	494.8	501.9	500.9	492.4	501.0	501.0	492.6	495.3	499.5	518.3	499.3	513.8
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	511.0	507.5	497.5	499.0	493.5	500.8	511.0	515.3	510.6	511.7	503.4	516.7
30	496.0	503.5	502.0	495.5	495.5	494.8	495.9	494.4	501.8	496.5	497.7	495.5	
Hourly Means	499.00	500.02	498.90	493.64	590.93	490.41	491.13	496.19	500.61	503.62	502.22	504.94	
TEMPERATURE OF THE BIPILAR MAGNET.													
APRIL.	°	°	°	°	°	°	°	°	°	°	°	°	
	1	38.5	39.0	41.4	42.7	43.8	44.5	45.0	45.5	46.0	46.4	47.0 <sup>a</sup>	47.6
	2	45.0	45.0	46.0	48.0	49.5	50.2	50.4	50.6	50.8	51.0	51.6	51.6
	3	49.6	49.6	50.3	51.5	52.3	53.0	53.5	54.2	55.0	56.7	57.8	59.0
	4	56.5	56.0	56.5	57.0	57.5	57.8	58.0	58.2	58.5	58.8	59.0	58.5
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	49.4	49.0	49.0	48.5	48.5	48.5	48.5	48.3	48.3	48.6	48.8	48.8
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	49.5	50.0	50.4	50.6	51.0	51.5	52.5	52.8	53.5	55.3	56.9	57.4
	9	53.6	54.0	55.0	56.5	57.0 <sup>c</sup>	57.5	58.3	58.7	59.2	60.3	61.2	62.0
	10	54.5	54.5	56.0	57.4	58.0	58.8	59.5	60.0	60.6	61.8	63.0	63.6
	11	56.2	56.4	56.5	56.5	57.4	57.8	58.0	58.4	58.7	59.4	60.0	60.5
	12	56.5	57.0	58.2	59.5	60.5	61.5	62.3	62.5	63.0	63.5	63.8	63.8
	13	58.0	58.6	59.7	61.5	62.5	63.5 <sup>d</sup>	64.0	64.4	65.5	66.5	67.4	67.7
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	62.0	61.5	61.5	61.7	62.0	62.6	63.0	63.0	63.0	62.9	62.9	62.5
	16	59.0	58.4	58.0	58.0	58.0	58.5	59.0	59.5	59.8	60.1	60.5	60.4
	17	56.0	55.0	55.5	55.0	54.8	55.4	56.0	56.3	56.8	57.7	58.5	58.8
	18	49.5	50.5	52.0	53.5	54.5	55.0	55.5	55.3	55.6	56.4	56.9	57.0
	19	50.2	51.2	52.5	54.0	54.5	55.5	56.0	56.6	57.8	58.7	58.6	58.8
	20	53.0	54.0	55.0	56.5	57.5	58.5	59.0	59.6	60.0	60.6	60.5	60.4
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	56.0	56.0	55.7	55.7	56.0	56.2	56.2	56.4	56.4	56.8	57.0	57.2
	23	55.0	55.5	55.5	56.0	56.5	57.0	57.9	58.5	59.3	60.0	60.2	62.5
	24	58.0	58.5	58.5	59.0	60.0	61.5	62.5	63.2	64.0	64.6	65.0	65.2
	25	58.8	59.6	61.0	61.8	62.3	62.5	62.4	62.5	62.6	62.6	62.4	62.2
	26	58.5	58.5	58.3	58.0	58.0	57.5	57.5	57.4	57.5	57.5	57.4	56.8
	27	52.6	52.5	52.5	53.5	54.5	55.2	55.4	55.3	55.5	56.0	56.4	56.5
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	51.9	53.0	54.5	55.5	56.5	57.2	57.5	57.8	58.4	59.4	60.4	60.9
30	54.0	55.0	55.5	56.8	57.8	58.3	58.6	59.0	59.5	59.9	60.0	60.1	
Hourly Means	53.67	53.93	54.60	55.39	56.04	56.62	57.06	57.36	57.81	58.46	58.93	59.19	

<sup>a</sup> Five minutes late.

<sup>b</sup> Good Friday.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah. = '00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 506·3	Sc. Div. 514·5	Sc. Div. 509·3	Sc. Div. 503·2	Sc. Div. 520·5	Sc. Div. 509·3	Sc. Div. 505·4	Sc. Div. 502·7	Sc. Div. 505·0	Sc. Div. 503·8	Sc. Div. 498·8	Sc. Div. 522·0	Sc. Div. 510·07
505·0	505·3	507·8	505·9	502·6	503·0	500·5	508·1	499·0	478·6	476·0	508·5	502·40
493·3	491·8	493·2	498·3	494·1	480·3	489·0	488·0	494·7	493·4	494·3	494·0	495·95
493·1	495·5	494·0	492·6	491·9	491·5 <sup>b</sup>	—	—	—	—	—	—	493·41
—	—	—	—	—	—	484·6	503·4	504·0	501·5	505·4	506·5	—
511·0	507·5	498·7	498·6	517·9	500·5	—	—	—	—	—	—	504·48
—	—	—	—	—	—	506·0	507·8	505·1	501·8	506·3	509·0	—
503·0	502·1	499·8	501·1	500·0	498·0	499·5	503·7	504·0	505·5	506·8	509·0	503·23
501·0	501·0	500·0	498·8	499·8	503·2	503·1	502·8	502·8	505·1	504·7	507·0	501·30
505·0	484·8	493·2	495·0	491·5	492·8	495·8	496·9	497·2	492·8	499·5	500·0	497·05
498·0	495·4	497·6	499·6	497·0	498·5	500·0	498·0	498·8	500·8	505·2	506·0	499·19
495·8	496·0	496·0	494·5	495·8	495·7	497·2	496·9	498·0 <sup>c</sup>	501·5	501·0	502·0	497·36
492·0	491·8	491·9	490·0	490·0	489·5	—	—	—	—	—	—	—
—	—	—	—	—	—	489·2	492·0	485·2	488·0	488·8	495·0	490·81
488·0	488·0	484·7	484·1	487·0	491·5	489·0	490·0	491·1	496·0	495·8	496·0	489·73
500·0	498·1	483·6	477·5	488·7	488·6	473·2	467·4	438·9	431·5	495·8	480·5	484·69
501·9	508·9	487·3	488·0	492·8	491·0	493·8	493·9	496·5	503·0	513·3	517·0	483·09
491·2	496·0	496·2	498·5	496·8	497·7	498·1	501·2	500·0	504·3	504·9	503·3	501·73
502·5	499·7	498·2	501·0	500·1	500·9	501·0	504·2	502·3	502·0	501·0	501·0	499·48
501·0	499·2	499·8	500·0	500·0	500·1	—	—	—	—	—	—	—
—	—	—	—	—	—	504·8	502·2	503·4	505·7	505·0	506·0	499·09
508·6	507·4	505·6	503·8	504·6	507·1	507·0	506·0	507·3	506·0	507·6	508·0	504·03
506·5	504·5	502·0	502·0	495·4	501·0	498·9	500·7	501·1	504·9	507·0	505·0	502·93
502·6	497·1	495·5	496·0	497·0	494·1	492·9	499·7	500·7	505·0	503·8	505·4	500·39
499·9	485·8	492·3	495·6	492·8	490·3	492·1	493·1	490·8	495·1	499·4	493·0	494·43
507·9	508·0	492·4	492·2	501·5	500·5	501·3	491·8	506·7	489·5	501·9	489·3	493·07
510·4	500·0	504·5	494·0	500·0	493·7	—	—	—	—	—	—	—
—	—	—	—	—	—	509·3	506·6	503·7	502·0	504·9	510·0	502·08
489·4	494·6	499·4	500·0	506·9	504·5	499·2	502·6	501·6	502·9	504·8	507·0	503·79
508·7	509·6	492·2	498·8	493·4	502·8	499·9	500·2	504·6	497·5	501·4	498·0	499·01
500·88	499·30	496·61	496·36	598·32	497·04	497·23	498·40	497·70	496·73	501·34	503·14	498·11

TEMPERATURE OF THE BIFILAR MAGNET.												
47·6	46·8	46·5	45·9	45·5	45·0	44·8	44·8	45·0	45·2	45·2	45·0	44·78
51·3	50·8	50·3	50·0	50·0	49·8	50·0	50·0	49·6	49·8	50·0	49·6	49·62
59·8	60·0	59·6	58·8	57·7	57·2	56·9	56·6	56·7	56·8	56·7	56·6	55·66
57·8	57·2	56·8	56·3	56·2	55·8 <sup>b</sup>	—	—	—	—	—	—	—
—	—	—	—	—	—	50·6	50·2	50·0	50·0	49·8	49·5	55·52
49·0	48·6	48·8	48·6	48·4	48·2	—	—	—	—	—	—	—
—	—	—	—	—	—	50·5	50·2	49·8	49·5	49·2	49·5	48·94
58·3	58·0	57·7	57·3	57·0	56·8	56·5	56·2	56·0	55·6	55·4	54·5	54·61
62·4	62·4	61·0	60·0	59·4	58·5	58·0	57·1	56·3	55·9	55·3	55·0	58·11
63·4	62·6	62·0	61·3	60·7	60·0	59·5	59·0	58·5	58·0	57·5	56·7	59·45
60·7	60·5	60·0	59·6	59·5	59·0	58·7	58·6	58·4	58·0	57·6	56·8	58·47
63·5	63·0	62·6	62·4	61·8	61·2	60·6	59·7	59·4 <sup>c</sup>	59·0	58·8	58·6	60·95
67·7	66·6	66·0	65·3	64·5	64·0	—	—	—	—	—	—	—
—	—	—	—	—	—	63·2	63·2	63·0	62·8	62·5	62·0	63·75
62·5	62·0	62·0	61·2	61·0	60·4	60·0	59·5	59·3	59·0	59·0	59·0	61·40
60·4	60·0	59·8	59·4	59·0	58·7	58·4	57·7	57·4	57·0	56·8	56·4	58·76
58·8	57·8	56·9	56·0	55·3	54·2	53·4	52·6	52·2	51·6	51·0	50·0	55·23
57·0	56·6	56·0	55·4	54·3	53·2	53·0	52·2	51·7	51·3	51·0	50·5	53·91
58·5	58·0	57·2	56·5	56·4	55·8	55·3	55·0	54·5	54·2	53·8	53·5	55·55
60·4	59·6	59·0	58·5	58·0	57·5	—	—	—	—	—	—	—
—	—	—	—	—	—	56·2	56·3	56·2	56·0	56·0	56·0	57·68
57·2	56·6	56·3	56·2	56·0	56·0	55·8	55·4	55·4	55·4	55·3	55·2	56·10
61·5	61·0	60·5	60·5	60·0	59·5	59·2	59·0	58·6	58·5	58·5	58·0	58·70
65·0	65·0	64·5	63·5	62·7	62·1	61·4	61·2	61·0	60·0	59·9	59·6	61·91
61·8	61·2	61·0	61·0	60·3	60·0	59·5	59·4	59·0	59·0	58·8	58·8	60·85
56·4	56·0	55·8	55·5	55·4	55·1	55·1	54·9	54·9	54·8	54·0	53·4	56·42
53·5	56·5	56·0	55·6	54·7	54·0	—	—	—	—	—	—	—
—	—	—	—	—	—	53·5	53·0	52·8	52·5	52·1	52·0	54·38
61·2	60·6	60·3	59·8	59·0	58·5	58·0	57·5	56·6	55·7	55·2	54·5	57·50
59·9	59·9	59·2	59·0	58·4	58·4	58·4	57·7	57·5	57·3	57·3	57·3	58·12
59·14	58·69	58·23	57·74	57·25	56·76	56·26	55·88	55·59	55·32	55·07	54·72	56·65

<sup>b</sup> Two minutes late.

<sup>c</sup> Ten minutes late.

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = '00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MAY.	1	497·0	497·0	492·5	493·3	486·0	481·8	486·3	484·0	493·2	502·6	497·1	492·1
	2	491·0	498·5	496·4	490·0	490·0	487·3	489·0	499·4	503·2	507·0	495·0	493·9
	3	497·3	496·3	492·5	481·5	466·3	476·5	488·0	493·7	493·0	500·2	499·6	497·5
	4	497·8	496·3	493·0	486·8	486·0	490·0	492·0	494·7	496·2	501·3	500·7	501·4
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	509·0	504·0	505·4	503·3	497·5	490·5	491·0	498·8	510·2	507·3	510·9	515·0
	7	509·3	508·3	504·4	496·0	487·0	492·8	497·8	500·0	505·6	505·0	511·1	508·5
	8	504·0	500·5	496·0	490·0	493·0 <sup>a</sup>	495·6	497·5	509·2	503·5	503·9	505·0	505·5
	9	498·3	496·8	488·1	487·0	489·3	489·0 <sup>b</sup>	491·8	494·6	500·4	503·4	500·3	504·2
	10	506·0	508·3	508·0	500·5	497·6	494·0	506·0	512·1	510·0	506·6	512·9	505·3
	11	507·0	506·0	502·0	501·0	502·5	507·0	509·5	509·8	508·9	506·5	506·9	503·6
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	512·0	511·0	505·0	501·0	498·0	499·4	543·5	506·6	512·5	517·2	516·1	513·6
	14	520·0	515·0	519·4	506·5	499·9	498·0	501·5	504·1	509·4	510·8	509·0	505·4
	15	515·0	514·0	509·0	499·0	496·9	488·0	489·5	496·0	500·0	508·0	508·4	505·0
	16	502·0	503·5	499·8	490·3	485·5	488·9	499·4	500·0	502·7	504·0	507·5	500·7
	17	509·0	506·0	501·6	497·3	493·5	487·0	489·3	495·8	502·8	508·2 <sup>c</sup>	509·2	508·8
	18	510·0	507·8	501·5	502·0	501·0	502·8	509·5	508·3	505·5	514·0	515·4	516·0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	516·0	514·0	510·8	510·9	513·0	513·0	517·3	520·4	523·0	519·2	519·0	514·6
	21	517·0	514·0	513·0	506·8	503·5	501·0	511·0	516·5	522·0	515·0	517·3	545·9
	22	516·0	516·0	521·5	321·3	513·5	512·8	511·5	509·1	518·0	508·7	499·2	517·8
	23	499·8	501·8	503·9	493·0	481·0	493·8	489·0	497·0	498·9	504·9	504·7	508·0
	24	500·0	496·0	489·9	491·0	489·0	491·0	501·0	502·0	506·1	510·7	502·0	499·0
	25	495·2	493·6	488·3	488·3	493·0	490·7	488·0	495·4	500·6	487·7	500·4	496·6
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	492·0	490·0	484·2	478·4	477·0	484·0	489·4	496·7	—	—	501·4 <sup>c</sup>	489·4
	28	495·0	496·0	492·4	488·0	486·0	494·0	487·0	493·4	495·6	502·8	498·1	500·7
	29	500·8	498·6	493·5	490·0	482·0	483·6	489·0	497·0	503·8	509·4	507·8	498·6
	30	499·6	499·0	498·2	495·0	490·0	496·0	502·6	503·5	506·0	506·0	506·0	504·0
	31	512·1	506·7	499·3	494·1	495·2	496·2	497·4	498·4	499·1	500·9	502·0	506·4
Hourly Means	504·75	503·52	500·36	495·64	492·34	493·51	497·21	501·35	505·01	506·59	506·04	505·83	
TEMPERATURE OF THE BIFILAR MAGNET.													
MAY.	1	57·3	58·0	58·5	60·0	61·2	62·0	62·5	62·6	63·0	63·0	63·2	63·5
	2	60·7	61·4	61·5	63·0	64·5	63·5	64·0	64·4	66·8	66·0	67·2	66·4
	3	61·4	62·0	62·2	62·4	62·7	63·2	64·0	64·3	64·7	64·7	65·2	65·4
	4	59·5	59·2	59·2	59·2	59·2	59·5	59·7	59·8	59·8	60·2	60·1	59·8
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	56·5	56·5	56·2	56·0	55·8	56·4	57·0	57·5	58·3	58·9	59·1	59·0
	7	56·6	58·0	59·0	60·0	60·0	60·0	60·0	60·6	60·6	62·0	62·8	63·2
	8	59·0	59·0	59·0	59·0	59·5 <sup>a</sup>	60·0	60·5	61·0	61·8	62·5	63·2	63·6
	9	58·0	59·0	60·0	60·5	61·0	61·0 <sup>b</sup>	61·0	61·3	62·0	62·6	63·3	63·8
	10	56·6	57·5	58·0	58·5	58·9	59·0	59·0	59·0	59·0	58·7	58·7	58·2
	11	56·0	56·0	56·4	57·0	58·0	59·0	60·0	60·6	61·6	62·8	63·7	63·8
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	53·5	53·5	54·0	54·5	53·8	52·5	51·8	52·5	53·0	53·2	53·2	53·4
	14	52·4	52·6	53·3	54·0	55·0	56·0	56·7	57·2	58·6	60·0	61·2	61·2
	15	56·0	57·0	58·0	58·5	59·0	60·5	61·5	62·3	62·9	63·5	63·0	63·0
	16	58·5	58·5	58·7	59·5	60·0	61·0	61·4	62·6	63·5	63·7	63·7	63·5
	17	56·7	56·7	56·7	57·5	58·5	58·9	60·4	60·6	61·4	61·6 <sup>c</sup>	61·6	61·6
	18	58·0	57·5	57·7	58·8	59·5	60·1	60·0	59·8	60·1	61·2	61·8	62·5
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	56·0	56·0	56·0	56·5	57·5	58·2	59·0	59·6	60·5	61·4	61·8	61·4
	21	53·5	53·3	53·0	53·5	54·0	54·5	55·0	55·5	55·5	55·5	56·0	56·8
	22	52·0	53·5	54·5	56·0	56·8	57·3	57·5	58·0	58·5	59·0	59·4	59·6
	23	55·5	55·5	58·2	59·0	60·0	61·6	62·4	63·0	63·2	64·0	64·5	64·8
	24	60·5	61·5	62·8	64·5	64·5	65·5	64·5	64·2	64·8	63·6	64·6	65·5
	25	64·5	64·8	65·0	65·0	66·0	67·2	68·5	70·2	70·7	71·4	71·9	72·3
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	66·0	66·5	66·3	66·3	66·5	66·8	67·3	67·9	—	—	69·4 <sup>c</sup>	69·4
	28	65·5	65·5	65·4	65·5	65·8	66·4	67·2	67·8	68·2	69·0	69·6	69·8
	29	62·7	62·8	63·0	63·6	64·0	64·8	65·3	65·9	66·2	67·0	67·5	68·0
	30	62·0	62·0	61·5	61·3	61·3	61·5	62·0	62·4	63·0	63·4	63·5	63·5
	31	62·0	62·2	62·4	62·2	62·2	62·0	62·2	62·6	63·2	63·5	64·0	64·8
Hourly Means	58·40	58·74	59·13	59·70	60·19	60·68	61·13	61·58	61·88	62·40	63·08	63·25	

<sup>a</sup> Three minutes late.

<sup>b</sup> Fifteen minutes late.

<sup>c</sup> Seven minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00027.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 489·1	Sc. Div. 485·5	Sc. Div. 493·1	Sc. Div. 498·6	Sc. Div. 500·0	Sc. Div. 491·8	Sc. Div. 487·5	Sc. Div. 499·1	Sc. Div. 494·3	Sc. Div. 499·0	Sc. Div. 498·0	Sc. Div. 487·8	Sc. Div. 492·78
488·6	485·5	491·1	487·0	490·0	491·5	485·6	477·7	490·5	494·2	493·4	499·0	492·28
490·2	490·0	490·0	490·4	489·8	488·8	491·0	490·0	495·0	495·7	495·8	498·0	491·13
502·8	500·3	502·5	500·0	—	—	—	—	—	—	—	—	498·41
—	—	—	—	—	—	501·5	503·2	505·0	501·5	505·0	507·0	498·41
501·8	501·0	499·0	500·4	502·0	503·8	504·7	508·3	504·1	505·9	507·3	508·5	503·74
500·6	498·1	497·5	498·9	518·2	502·1	494·3	484·1	501·7	494·8	504·3	498·0	500·77
498·0	496·3	489·5	481·5	478·9	490·8	494·3	489·4	490·7	491·9	492·0	497·0	495·58
496·5	488·5	494·4	492·8	495·2	496·8	496·8	496·9	499·4	502·2	501·8	502·0	496·10
501·2	504·6 <sup>c</sup>	506·0	506·6	505·5	499·9	505·5	505·5	505·0	506·5	507·4	508·0	505·42
496·9	500·9	503·5	503·5	500·9	500·4	—	—	—	—	—	—	505·03
—	—	—	—	—	—	505·9	505·0	507·5	505·4	510·0	510·0	505·03
512·9	513·7	515·0	517·0	517·0	519·9	512·0	513·0	518·2	521·6	528·3	524·0	512·85
504·5	513·8	501·2	482·3	482·3	503·4	505·8	500·1	510·5	513·3	513·0	514·0	505·97
495·9	489·6	494·0	495·5	497·0	499·8	500·5	502·2	502·1	505·0	501·6	504·0	500·67
501·5	499·3	498·8	499·9 <sup>d</sup>	498·4	500·1	497·9	497·9	501·3	504·5	506·0	506·0	499·83
511·5	501·0	499·7	501·7	504·0	503·5	504·7	504·0	508·2	506·4	509·0	510·0	503·01
509·1	505·5	504·0	503·1	503·8	503·2	—	—	—	—	—	—	507·71
—	—	—	—	—	—	507·6	506·9	509·3	511·0	512·7	515·0	507·71
513·5	512·5	514·0	513·3	513·5	514·5	513·0	514·0	514·8	516·6	517·6	517·2	515·24
520·3	507·0	510·3	511·4	508·1	509·7	510·9	510·0	512·7	515·0	515·9	521·0	513·97
524·7	494·6	478·0	495·4	497·9	494·6	488·0	488·5	490·2	495·3	499·5	492·5	504·36
495·4	495·9	494·4	499·9	500·5	501·0	498·3	502·2	501·2	499·8	493·9	499·5	498·24
498·0	494·4	496·9	490·0	495·0	493·2	495·3	496·0	491·6	496·2	496·4	496·0	496·53
498·2	489·9	488·6	489·9	493·8	488·5	—	—	—	—	—	—	491·93
—	—	—	—	—	—	482·2	491·3	491·0	491·2	492·0	492·0	491·93
490·0	495·0	490·0	487·1	488·7	481·0	489·9	490·0 <sup>f</sup>	490·6	493·0	492·0	493·5	489·24
499·0	493·8	494·5	495·8	495·3	493·0	494·0	490·6	494·8	493·5	496·5	497·8	494·48
501·0	500·0	500·0	495·3	500·3	498·0	494·4	494·9	486·7	485·3	490·8	499·0	495·83
503·5	504·0	502·8	503·4	502·3	501·7	502·0	504·0	504·8	504·5	505·5	497·8	501·76
504·6	499·9	510·3	510·0	510·3	507·3	515·9	510·3	504·7	503·9	506·9	508·2	504·17
501·83	498·54	498·49	498·17	499·60	499·17	499·24	499·08	500·96	501·97	503·43	503·81	500·67

TEMPERATURE OF THE BIFILAR MAGNET.												
63·7	63·0	62·6	62·4	62·3	62·2	62·0	61·5	61·5	61·5	61·2	61·0	61·65
66·2	65·8	65·3	65·0	64·5	64·0	63·5	63·0	63·0	62·8	62·5	61·8	63·95
65·2	64·6	64·0	63·5	63·2	62·8	62·4	62·0	61·5	60·9	60·2	60·0	63·02
59·4	59·0	58·8	58·5	—	—	—	—	—	—	—	—	59·06
—	—	—	—	—	—	59·0	58·6	58·4	58·0	57·6	56·9	57·40
58·6	58·4	58·2	58·0	57·6	57·4	57·5	57·2	57·0	56·9	56·9	56·6	57·40
63·6	63·5	62·9	62·2	61·6	61·1	60·6	60·0	59·8	59·5	59·2	59·0	60·63
64·0	63·6	62·6	62·0	61·7	61·0	60·7	60·3	59·7	59·2	58·8	58·6	60·85
64·0	63·8	62·8	62·0	61·2	60·6	59·6	59·0	58·2	58·0	57·5	56·6	60·70
57·6	57·0 <sup>c</sup>	56·7	56·5	56·2	56·0	55·8	55·7	55·7	55·7	55·7	56·0	57·32
63·7	63·9	63·7	63·5	63·5	63·1	—	—	—	—	—	—	59·49
—	—	—	—	—	—	56·7	56·2	55·5	54·9	54·3	53·8	59·49
53·0	53·6	52·5	51·8	51·5	51·3	51·1	51·2	51·2	51·5	51·8	52·0	52·56
61·2	60·5	59·8	59·4	59·4	59·0	58·5	57·8	57·4	57·0	56·6	55·7	57·52
63·0	63·0	62·7	62·2	61·6	61·0	60·6	60·2	60·2	60·0	59·5	59·0	60·76
63·4	62·8	61·8	61·0 <sup>d</sup>	60·1	59·5	58·9	58·5	58·1	57·8	57·5	57·0	60·46
61·2	60·8	60·3	60·2	60·0	59·7	59·4	59·0	59·0	59·0	58·6	58·3	59·49
62·5	62·5	62·2	61·3	60·5	60·0	—	—	—	—	—	—	59·47
—	—	—	—	—	—	57·2	57·2	57·0	56·8	56·5	56·5	59·47
60·7	60·0	59·3	58·9	58·0	57·5	57·2	56·2	55·4	54·9	55·5	54·5	58·00
56·8	56·8	57·6	56·2	55·3	55·0	54·6	54·0	53·2	52·5	52·3	52·0	54·68
59·6	59·2	59·2	58·8	58·5	57·9	57·7	57·2	57·0	56·6	56·0	55·5	57·30
64·7	64·4	64·2	64·0	63·4	63·0	62·6	62·0	61·6	61·4	61·0	60·4	61·85
66·2	65·4	66·0	66·1	66·0	65·8	65·5	65·6	65·5	65·4	65·2	65·0	64·76
72·0	71·8	71·2	70·6	70·2	69·8	—	—	—	—	—	—	68·63
—	—	—	—	—	—	68·2	67·9	67·4	67·0	67·0	66·5	68·63
69·4	69·0	68·8	68·6	68·2	67·6	67·4	67·0 <sup>f</sup>	66·8	66·4	66·0	65·5	67·41
69·8	69·4	68·6	68·0	67·0	66·4	65·8	65·5	65·0	64·4	63·8	63·0	66·77
68·0	67·6	66·8	66·1	65·5	65·0	64·5	63·6	62·8	62·6	62·5	62·0	64·91
63·5	63·5	63·5	63·2	63·2	63·0	63·0	63·0	62·6	62·6	62·6	62·3	62·64
64·7	64·4	64·0	63·5	63·0	62·5	62·0	61·3	60·0	60·6	60·0	59·5	62·49
63·17	62·86	62·45	61·98	61·66	61·24	60·44	60·03	59·69	59·40	59·12	58·70	60·85

<sup>d</sup> Eleven minutes late.

<sup>e</sup> Two minutes late.

<sup>f</sup> Twenty minutes late.



HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '00027.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JUNE.	1	508·8	508·8	504·9	499·4	500·7	503·2	505·3	508·5	517·5	519·3	525·3	514·0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	511·7	514·1	513·9	505·3	500·2	502·0	500·2	504·0	505·6	508·6	512·2	510·0
	4	513·6	513·3	512·8	512·8	501·5	504·4	504·1	505·0	507·2	510·9	507·5	511·0
	5	509·0	510·0	508·3	507·8	508·3	508·3	510·9	515·3 <sup>b</sup>	509·0	513·9	513·7	515·1
	6	510·5	508·7	503·2	498·6	497·5	500·0	503·7	504·0	500·9	499·7	500·9	502·5
	7	504·6	503·0	499·0	499·3	503·9	504·0	506·0	510·0	513·7	512·0	506·8	504·0
	8	508·0	509·1	511·5	511·1	509·0	511·8	513·0	518·9	523·5	522·4	514·2	519·4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	512·1	514·9	508·9	507·1	510·7	513·7 <sup>c</sup>	514·6	518·0	526·0	522·3	530·2	518·1
	11	518·2	516·1	515·7	514·1	516·0	512·2 <sup>d</sup>	513·5	519·0	523·6	519·9	513·0 <sup>d</sup>	512·0
	12	518·0	516·0	511·8	513·0	515·4	517·3	515·6	513·9	517·0	517·7	512·8	509·9
	13	512·9	517·4	515·9	512·6	508·5	502·1	503·1	506·4	509·0	514·0	518·3	513·7
	14	514·7	513·7	512·3	506·3	499·0	500·9	502·8	508·0	516·4	519·0	519·1	512·0
	15	508·5	504·8	502·9	504·3	503·2	508·5	510·8	510·0	506·0	512·8	507·9	507·0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	508·0	500·4	498·7	494·9	485·1	490·5	496·5	492·7	506·2	502·8	500·1	516·0
	18	503·6	501·2	496·3	497·9	495·4	486·9	487·6	493·3	499·8	500·1	505·8	493·2
	19	494·5	487·8	487·0	482·5	478·3	477·8	479·3	488·0	496·2	497·8	496·9	500·1
	20	499·6	498·0	497·5	491·0	485·6	489·5	493·4	499·9	515·7	510·7	510·0	515·9
	21	503·5	500·6	502·5	506·3	500·9	502·5	502·7	505·3	519·1 <sup>e</sup>	507·1	525·0	522·5
	22	503·9	503·8	504·7	499·9	495·7	497·1	503·5	508·0	508·9	513·0	513·6	511·4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	512·6	508·0	503·7	499·5	500·9	501·5	504·6	507·0	507·3	511·8	511·0	507·6
	25	510·0	509·0	506·5	504·0	498·3	499·1	503·5	507·0	508·8	508·7	506·9	504·8
	26	501·5	501·2	495·9	491·4	495·1	495·5	498·6	499·2	499·3	499·8	499·6	504·5
	27	506·3	506·2	503·4	500·4	497·0	494·6	500·8	508·2	509·5	517·5	514·8	513·0
	28	516·5	511·8	507·6	506·2	509·9	511·4	514·7	517·1	514·1	517·9	516·2	518·8
	29	503·0	519·0	509·6	499·0	502·8	515·5	516·5	519·3	519·8	509·4	513·9	513·7
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	508·54	507·88	505·38	502·59	500·76	502·01	504·21	507·44	511·20	511·56	511·83	510·81	

TEMPERATURE OF THE BILIFAR MAGNET.													
JUNE.	1	59·4	59·6	59·8	59·8	60·5	61·5	62·0	62·4	63·4	64·5	65·0	65·5
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	57·6	57·8	58·4	59·5	60·0	60·7	61·0	60·7	61·5	62·8	63·0	65·5
	4	58·0	58·0	58·5	58·5	61·0	62·0	62·5	62·5	63·2	64·0	64·5	65·0
	5	59·7	59·5	59·8	60·0	60·3	60·7	61·5	62·4 <sup>b</sup>	63·5	64·5	64·8	65·4
	6	62·3	62·8	63·8	64·7	66·0	67·0	67·5	67·6	68·5	69·0	68·8	68·4
	7	63·0	62·6	62·4	62·4	63·0	63·5	64·0	64·5	65·4	66·0	67·2	67·5
	8	58·8	59·0	58·0	59·0	59·8	59·8	60·2	60·6	61·0	61·4	62·0	62·4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	57·8	58·4	58·8	59·4	59·5	59·5 <sup>c</sup>	59·5	59·4	59·5	60·4	60·5	60·8
	11	55·6	56·4	57·5	58·0	58·8	59·0 <sup>d</sup>	59·5	59·5	60·2	61·0	61·8 <sup>d</sup>	62·5
	12	57·0	58·0	59·0	60·0	60·8	61·8	62·5	62·9	63·8	64·4	64·8	65·0
	13	58·8	59·2	59·8	60·4	61·5	62·5	63·5	63·8	64·8	65·5	66·4	66·5
	14	61·0	61·5	62·5	63·2	64·4	65·2	65·8	66·0	67·0	67·6	68·4	69·0
	15	63·0	63·0	63·5	64·2	65·5	66·3	67·0	67·8	68·2	68·8	69·0	69·4
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	65·5	65·5	65·5	65·5	65·7	66·2	67·0	67·5	68·0	68·3	68·5	68·7
	18	66·8	67·0	67·5	67·5	68·5	70·5	71·2	71·5	72·4	73·6	74·0	74·5
	19	70·0	70·5	71·0	72·0	73·0	72·5	72·5	72·4	72·6	72·8	73·5	74·0
	20	69·5	69·0	68·5	68·5	69·0	69·2	69·6	70·2	70·5	71·0	71·2	71·3
	21	64·8	64·8	65·0	65·4	65·5	66·0	66·8	67·3	68·0 <sup>e</sup>	68·2	69·6	69·6
	22	63·0	63·0	62·8	63·0	63·5	64·0	65·0	65·5	66·0	67·0	68·3	68·4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	65·3	65·5	66·6	66·5	67·5	68·0	68·5	69·0	69·6	70·4	70·4	70·6
	25	68·5	68·5	68·0	68·0	68·3	69·4	70·0	70·5	71·4	71·8	71·8	72·8
	26	69·5	69·2	69·0	68·8	69·0	69·4	69·6	70·2	70·0	70·0	70·0	70·0
	27	67·4	67·0	67·0	66·8	66·5	66·4	66·2	66·0	65·8	66·0	66·2	66·0
	28	65·0	65·0	65·0	65·0	65·4	65·8	66·4	67·0	67·4	67·8	68·4	68·4
	29	62·8	63·0	63·5	64·2	65·0	65·5	66·0	66·2	66·6	66·8	67·0	67·5
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	62·80	62·95	63·25	63·61	64·32	64·90	65·41	65·74	66·33	66·94	67·40	67·79	

<sup>a</sup> Eighteen minutes late.

<sup>b</sup> Ten minutes late.

<sup>c</sup> Three minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah. = '000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 518·8	Sc. Div. 524·0	Sc. Div. 504·0	Sc. Div. 493·9	Sc. Div. 496·9	Sc. Div. 499·2	—	—	—	—	—	—	—
—	—	—	—	—	—	509·0	509·0	505·6	503·0	504·3	508·0	507·98
510·5	509·0	—	—	507·8	508·4 <sup>a</sup>	506·2	508·5	509·1	511·7	507·9	512·0	508·13
508·0	506·0	505·0	505·2	504·6	506·1	507·8	509·0	509·0	507·8	509·0	510·0	507·98
508·8	505·6	504·4	504·8	503·1	503·0	503·1	505·6	509·1	508·6	507·6	510·9	508·51
502·9	505·8	504·0	504·6	505·1	508·0	506·0	506·2	507·6	508·1	510·3	510·2	504·54
502·0	506·0	505·0	504·6	502·8	503·0	504·8	505·8	503·1	505·4	506·9	507·8	505·15
517·7	518·3	510·6	517·6	526·8	515·4	—	—	—	—	—	—	—
—	—	—	—	—	—	511·9	512·0	515·8	518·0	515·0	506·9	514·91
510·4	514·9	512·0	503·8	509·8	512·5	515·0	514·2	513·0	507·2	512·6	515·8	514·08
507·0	509·2	515·5	513·5	510·0	508·0	507·7	511·1	510·4	507·9	513·9	518·4	513·56
507·8	508·6	508·6	509·8	505·8	501·2	496·8	506·0	503·5	501·5	500·0	510·8	509·95
512·0	511·2	502·9	503·5	507·3	507·0	505·0	505·9	506·0	507·2	508·8	513·5	509·34
505·5	505·3	502·3	500·7	503·2	501·0	505·0	505·3	505·4	507·7	505·6	509·0	507·51
504·6	504·1	506·0	503·6	504·6	505·3	—	—	—	—	—	—	—
—	—	—	—	—	—	503·5	502·9	509·2	506·0	511·8	511·0	506·64
505·0	499·0	495·0	498·7	493·2	501·8	500·2	499·7	495·8	500·5	501·1	501·7	499·34
497·0	492·7	496·4	491·7	491·3	486·8	489·5	489·8	490·0	495·1	494·8	496·0	494·68
498·5	493·4	492·3	494·0	497·0	495·8	495·0	497·0	497·0	495·7	495·4	498·4	492·34
506·6	508·3	508·3	504·0	496·9	497·1	509·6	505·0	502·8	494·5	497·8	498·9	501·53
507·0	499·0	497·5	501·1	502·7	504·4	503·2	503·4	502·1	502·8	504·0	505·5	505·45
508·7	507·7	508·3	505·7	505·2	507·1	—	—	—	—	—	—	—
—	—	—	—	—	—	509·9	511·3	508·3	508·0	506·6	510·2	506·69
510·8	503·8	506·1	505·8	507·1	506·1	506·3	502·9	506·5	500·5	499·9	502·8	505·59
500·9	500·2	504·0	499·2	502·7	499·9	508·5	500·0	497·0	498·5	495·5	497·8	502·95
502·0	500·9	500·8	501·8	500·9	500·0	499·0	499·2	501·8	501·2	503·3	506·7	499·97
509·0	506·7	510·0	511·1	513·4	10·3	511·2	513·2	512·2	512·8	513·7	500·3	508·15
518·2	514·5	515·3	508·5	507·2 <sup>d</sup>	07·8 <sup>c</sup>	507·5	519·0	515·2	517·5	505·1	505·0	512·63
512·0	507·8	509·0	505·9	504·5	509·8	—	—	—	—	—	—	—
—	—	—	—	—	—	507·4	509·1	510·0	510·2	511·7	512·8	510·49
507·67	506·48	505·14	503·88	504·40	504·20	505·16	506·04	505·82	505·50	505·70	507·20	506·31

TEMPERATURE OF THE BIFILAR MAGNET.												
65·5	65·5	65·5	65·2	65·0	65·0	—	—	—	—	—	—	62·05
—	—	—	—	—	—	60·0	59·8	59·0	58·6	58·6	58·0	60·58
63·5	63·0	—	—	61·5	60·7 <sup>a</sup>	60·3	60·0	59·5	59·2	58·5	58·0	61·91
65·0	64·7	64·0	63·4	62·9	62·4	62·0	61·5	61·1	60·7	60·5	60·0	62·75
65·0	65·0	64·6	64·5	64·2	63·6	63·4	63·2	62·9	62·5	62·5	62·4	65·88
68·0	67·6	67·0	66·5	66·0	65·5	65·0	64·5	64·2	63·8	63·4	63·2	63·85
67·5	67·0	65·7	65·3	65·0	64·7	63·0	62·0	61·2	60·5	60·0	59·0	60·02
62·0	61·6	61·2	61·0	60·5	60·0	—	—	—	—	—	—	—
—	—	—	—	—	—	60·0	59·5	59·0	58·4	57·8	57·6	60·81
61·0	60·5	60·0	59·0	58·6	58·0	57·6	57·3	57·0	56·6	56·3	56·0	58·81
63·0	62·7	62·2	61·8	61·2	60·6	60·0	59·0	58·5	57·9	57·2	56·6	59·60
65·0	64·7	64·3	63·7	63·0	62·5	62·2	61·4	60·5	60·0	59·5	59·2	61·92
66·7	66·6	66·3	65·5	65·0	64·5	64·0	63·5	63·0	62·4	61·6	60·7	63·44
69·5	69·4	68·5	68·2	67·6	67·2	66·5	65·7	65·0	64·5	64·1	63·5	65·89
69·6	69·4	68·8	68·2	67·5	67·0	—	—	—	—	—	—	—
—	—	—	—	—	—	66·7	66·6	66·2	66·2	66·0	66·0	66·83
69·5	69·0	68·5	68·0	67·6	67·5	67·5	67·5	67·5	67·0	66·8	66·8	67·30
74·8	75·0	74·4	74·0	73·5	73·0	72·8	72·0	71·7	71·5	71·0	70·5	71·63
73·7	73·7	73·2	72·8	72·0	71·8	71·6	71·5	71·0	70·4	70·0	69·5	72·00
71·2	71·2	70·8	70·0	69·5	69·0	68·5	67·8	67·3	66·8	66·0	65·2	69·20
69·6	69·6	68·5	68·2	67·6	67·0	66·6	65·5	65·0	64·5	64·0	63·3	66·68
68·4	68·2	67·6	67·2	66·8	66·4	—	—	—	—	—	—	—
—	—	—	—	—	—	67·0	66·8	66·4	66·0	65·6	65·0	65·87
70·6	70·4	70·2	70·0	69·6	69·5	69·1	69·0	68·9	68·5	68·5	68·5	68·78
73·6	74·4	73·8	73·0	72·3	72·0	71·7	71·4	71·0	70·5	70·3	69·8	70·95
69·8	69·5	69·3	69·0	69·0	68·6	68·4	68·3	68·1	68·0	67·6	68·0	69·10
66·0	66·0	66·0	66·0	66·0	66·0	66·0	66·0	65·8	65·6	65·5	65·3	66·15
68·4	68·4	67·8	67·0	66·5 <sup>d</sup>	66·0 <sup>c</sup>	65·8	65·0	64·5	64·0	63·5	63·0	66·10
67·8	68·0	67·8	67·8	67·0	66·6	—	—	—	—	—	—	—
—	—	—	—	—	—	67·1	67·0	67·0	67·0	67·0	66·6	66·28
67·79	67·64	67·33	66·89	66·22	65·80	65·31	64·87	64·45	64·04	63·67	63·27	65·36

<sup>d</sup> Two minutes late.

<sup>c</sup> Four minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah° = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JULY.	1	512.0	508.0	505.0	498.7	490.9	489.4	491.2	495.2	504.7	509.3	509.8	503.7
	2	506.3	507.8	499.3	498.0	490.3	492.6	489.1	491.2	495.4	496.4	503.6	505.7
	3	507.8	509.7	505.5	501.9	493.9	497.0	495.2	497.8	506.1	511.9	516.9	511.9
	4	517.2	518.6	513.6	506.0	508.1	504.5	509.9	518.7	522.5	517.5	520.3	519.2
	5	519.5	515.5	508.0	497.5	500.0	508.0	516.5	517.1	521.5	522.3	524.6	524.2
	6	515.9	516.1	510.7	502.6	497.6	501.7	508.2	511.0	518.9	519.5	521.3	515.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	516.8	514.7	516.3	510.7	491.8	497.8	524.8	533.5	526.7	526.0	522.0	513.9
	9	504.6	511.2	508.3	499.3	497.3	498.5	505.1	512.5	521.1	514.3	509.0	501.0
	10	505.7	505.7	503.4	506.2	500.7	504.9	507.2	505.0	505.5	507.8	502.9	501.5
	11	505.0	512.8	511.5	505.5	499.3	500.1	502.4	500.9	504.7	512.9	513.8	508.6
	12	509.0	509.1	505.5	499.2	498.1	506.5	508.2	511.0	516.8	519.8	518.6	509.7
	13	510.7	508.8	507.4	500.6	503.6	504.0	501.7	506.0	500.5	508.3	517.8	510.6
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	511.2	509.9	505.2	501.3	491.0	486.2	497.9	496.7	510.0	507.6	509.0	517.0
	16	515.7	513.9	508.0	499.3	497.9	498.9	509.8	511.4	519.5	525.1	525.3	513.8
	17	515.2	515.4	509.5	502.8	497.4	494.0 <sup>a</sup>	500.3	514.3	513.9	509.0	515.3	523.3
	18	515.2	518.3	507.4	497.0	492.3	501.8	507.6	508.5	510.7	509.0	504.8	507.3
	19	504.0	503.0	498.8	500.0	489.0	491.0	492.0	498.4	503.7	508.9	513.9	516.9
	20	517.3	515.0	511.9 <sup>b</sup>	505.2	499.2	496.2	498.8	507.0	514.0	521.0	522.1	515.2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	511.0	507.9	501.5	497.7	495.2	500.5	510.6	512.8	513.6	511.2	510.8	508.0
	23	510.0	511.0	510.0	505.3	500.0	496.8	504.5	511.6	510.0	512.0	510.6	509.0
	24	516.7	515.0	510.9	507.4	500.9	505.0	508.7	514.5	515.7	512.8	511.8	509.2
	25	508.6	509.0	523.5	509.3	505.5	485.7	492.6	504.0	504.9	522.7	520.0	516.5
	26	516.5	516.2	509.2	506.5	492.2	502.0	509.5	515.3	519.9	524.9	516.7	522.7
	27	515.0	522.0	514.6	496.9	484.7	496.5	504.6	502.5	498.5	516.3	526.2	527.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	518.0	515.8	509.3	495.2	491.4	492.0	496.0	497.7	505.8	508.8	508.6	508.4
	30	511.7	510.0	496.8	495.1	481.6	490.6	499.0	511.7	523.0	520.8 <sup>d</sup>	522.7	516.3
	31	513.6	515.6	502.2	495.9	508.9	501.5	510.7	513.4	511.0	524.4	514.2	517.0
Hourly Means	512.23	512.44	507.90	501.52	496.25	497.91	503.78	508.14	511.80	514.83	515.28	513.06	

TEMPERATURE OF THE BIFILAR MAGNET.													
JULY.	1	66.5	67.2	68.0	68.6	69.5	70.8	71.5	72.2	74.0	75.2	75.6	76.0
	2	67.6	67.8	68.4	68.8	69.4	70.0	71.0	71.5	72.0	72.2	72.6	73.0
	3	68.5	68.4	68.6	68.8	69.2	69.5	70.0	70.5	70.7	71.0	71.0	71.0
	4	64.0	64.0	64.2	64.8	64.9	65.5	65.5	65.5	65.5	66.0	66.5	67.0
	5	62.0	62.0	62.0	62.0	62.4	63.0	63.0	63.4	63.6	63.6	63.8	63.8
	6	63.2	64.0	65.2	65.8	66.6	67.8	69.0	70.0	71.0	71.5	72.0	72.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	63.7	63.7	63.7	64.3	64.8	65.2	65.8	66.4	67.0	68.0	69.0	69.4
	9	66.6	66.2	66.5	67.4	68.6	69.4	70.4	71.0	71.4	71.5	71.5	71.5
	10	69.7	70.5	71.3	71.6	72.3	73.0	73.4	73.4	74.0	74.0	74.3	74.4
	11	68.8	68.8	69.3	69.8	70.5	71.4	72.0	72.6	73.1	73.7	74.3	74.4
	12	68.6	68.8	69.0	69.2	69.8	70.4	70.8	71.5	72.4	73.0	74.0	74.2
	13	70.2	70.1	70.0	70.0	70.3	70.5	70.9	71.5	72.0	72.3	72.5	73.0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	69.8	69.6	69.5	69.6	70.0	70.2	70.4	70.6	70.7	70.7	70.7	70.7
	16	67.3	67.0	66.8	66.8	67.0	67.5	67.9	68.5	68.7	69.0	69.4	69.6
	17	66.2	66.4	67.0	67.5	68.4	69.4 <sup>a</sup>	69.8	70.4	70.8	71.4	71.7	72.0
	18	66.7	66.7	67.3	67.8	68.9	69.8	70.6	71.5	72.0	72.5	72.5	72.7
	19	70.5	70.0	70.0	70.0	70.3	70.6	71.0	71.2	71.5	72.0	72.5	73.0
	20	68.8	69.4	70.0 <sup>b</sup>	70.4	70.4	70.8	71.4	71.6	72.0	72.0	72.5	72.6
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	69.5	69.5	69.9	70.6	71.5	73.0	73.4	74.6	74.8	75.0	75.6	75.8
	23	71.8	71.8	72.0	72.4	73.2	74.0	74.5	74.8	75.5	75.8	76.0	76.0
	24	71.0	70.7	70.5	70.8	71.0	71.3	71.6	72.0	72.2	72.5	72.8	72.7
	25	71.0	71.0	70.0	70.0	70.0	70.5	71.0	71.4	71.5	71.7	72.0	72.0
	26	67.3	67.2	67.4	67.8	68.0	68.5	68.8	69.5	69.7	70.0	70.5	70.7
	27	65.6	66.0	66.5	67.5	68.5	69.8	70.5	70.9	71.4	71.6	71.6	71.8
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	67.6	68.0	68.5	69.4	70.4	72.0	73.0	73.6	74.5	74.5	75.4	76.0
	30	71.6	71.5	71.5	71.5	71.6	71.8	71.9	72.0	72.3	72.5	72.5	72.3
	31	72.4	72.5	72.5	72.8	73.4	74.2	74.7	75.3	76.0	76.5	76.7	76.9
Hourly Means	68.02	68.10	68.36	68.74	69.29	70.00	70.51	71.01	71.49	71.84	72.20	72.39	

<sup>a</sup> Seven minutes late.

<sup>b</sup> Two minutes late.

HORIZONTAL FORCE.												
One Scale Division = .000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah. = .000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
505.4	501.6	496.9	498.0	497.6	498.1	500.4	500.9	503.0	503.5	502.9	503.2	501.22
502.9	502.0	501.4	504.0	504.0	506.1	500.4	502.8	506.1	505.8	505.4	507.9	501.02
509.0	506.0	508.1	507.8	511.9	509.0	508.0	515.1	509.7	508.2	511.5	512.6	507.19
516.0	509.9	509.8	508.5	511.2	513.2	511.5	513.2	512.4	513.9	515.1	516.5	513.64
520.6	521.6	514.5	514.9	515.4	513.4	512.9	515.0	515.2	514.0	513.0	513.2	514.93
512.5	511.2	510.9	509.6	506.9	513.7	—	—	—	—	—	—	—
—	—	—	—	—	—	503.4	503.0	503.6	506.8	511.0	507.1	509.93
516.7	514.2	514.0	511.0	503.8	498.5	507.8	495.4	500.0	497.0	504.8	500.8	510.79
509.0	500.0	495.0	496.7	499.4	497.0	497.7	491.2	503.0	503.1	503.2	503.8	503.39
501.0	503.9	502.0	503.7	501.6	499.7	505.8	505.5	505.3	506.4	506.9	506.0	504.35
508.0	502.3	506.3	501.5	499.0	498.1	497.6	502.9	502.8	505.8	506.0	508.0	504.83
503.4	505.3	505.6	505.0	503.9	501.8	502.0	498.1	506.3	506.0	508.6	507.5	506.88
508.9	510.0	503.0	500.0	497.3	502.5	—	—	—	—	—	—	—
—	—	—	—	—	—	508.8	505.6	507.4	506.9	506.0	511.9	506.18
511.0	511.5	496.8	506.3	508.0	505.7	508.6	509.2	509.0	510.2	511.6	514.1	506.04
525.2	510.3	503.0	512.2	508.7	510.4	511.2	511.9	513.0	500.8	510.1	506.5	510.91
502.9	510.0	503.8	503.0	503.8	516.3	513.2	510.0	503.8	503.3	503.2	507.5	507.97
503.0	502.5	504.0	505.5	506.0	507.0	503.5	506.4	506.4	505.8	505.4	503.3	505.78
513.0	509.5	510.0	508.5	508.3	510.0	510.6	511.2	511.2	513.7	513.0	513.5	506.34
515.8	516.4	512.8	512.1	512.9	507.2	—	—	—	—	—	—	—
—	—	—	—	—	—	509.9	513.0	511.5	508.5	511.2	510.3	511.02
507.0	505.0	507.6	507.2	508.7 <sup>c</sup>	509.9	506.8	508.2	508.4	509.0	508.8	509.0	507.35
506.8	507.9	507.2	504.9	504.9	506.1	507.2	509.3	510.0	512.5	515.2	515.3	508.25
510.8	512.1	522.9	523.1	525.0	522.9	518.9	522.2	491.6	513.5	501.1	510.2	512.62
510.1	504.7	505.5	509.5	508.0	512.2	506.6	507.2	494.8	517.9	515.5	514.7	508.71
512.8	508.6	512.3	514.6	513.0	516.9	518.8	514.9	511.6	509.3	510.5	519.0	513.08
511.1	506.5	512.6	503.3	503.4	518.9	—	—	—	—	—	—	—
—	—	—	—	—	—	513.6	512.3	511.0	511.1	510.6	515.0	509.76
510.0	508.0	507.3	509.2	506.8	507.0	508.5	510.1	513.6	512.0	510.5	511.0	506.71
510.3	509.5	508.0	503.1	506.1	510.0	513.8	512.1	510.9	508.6	506.9	508.8	507.81
516.0	507.9	505.0	509.9	502.8	503.0	502.8	501.2	503.8	502.4	507.9	509.8	508.37
510.34	508.09	506.90	507.15	506.61	507.95	507.79	507.70	506.87	508.00	508.74	509.87	507.96

TEMPERATURE OF THE BIFILAR MAGNET.												
76.0	76.5	75.5	73.0	72.5	71.5	71.0	70.0	69.2	68.5	68.0	67.4	71.43
72.5	72.5	72.0	71.6	71.2	71.0	70.5	70.0	69.6	69.2	69.2	68.5	70.50
70.7	70.0	69.3	68.6	68.1	67.4	66.8	66.0	65.8	65.0	64.5	63.8	68.47
67.2	67.0	66.8	66.5	66.0	65.4	64.8	64.4	64.0	63.3	63.0	62.5	65.18
63.6	63.4	63.4	63.4	63.4	63.3	63.2	63.0	63.0	63.0	63.0	63.0	63.05
72.0	71.5	70.6	70.0	69.5	68.8	—	—	—	—	—	—	—
—	—	—	—	—	—	66.0	66.0	65.5	65.0	64.5	63.8	67.97
69.8	70.0	69.5	69.2	68.7	68.4	68.0	67.8	67.6	67.2	66.6	66.2	67.08
71.5	71.5	71.0	71.1	70.6	70.5	70.2	70.0	70.0	69.6	69.4	69.0	69.85
74.4	73.4	72.8	72.4	72.0	71.8	71.2	70.6	70.2	69.7	69.4	69.0	72.03
75.0	75.0	74.8	74.0	73.5	73.0	72.5	71.5	71.0	70.5	69.6	69.0	72.00
74.4	74.1	73.8	73.2	72.6	72.5	72.0	71.4	71.2	71.0	70.6	70.9	71.64
73.0	73.0	72.7	72.5	72.3	72.0	—	—	—	—	—	—	—
—	—	—	—	—	—	72.9	72.6	72.4	71.8	70.6	70.0	71.63
70.4	70.4	69.5	69.6	69.4	69.3	69.0	68.6	68.4	68.1	67.8	67.4	69.60
69.8	70.2	70.2	69.9	69.6	69.0	68.6	68.5	68.0	67.5	67.2	66.2	68.34
72.4	72.4	72.0	71.7	71.0	70.5	70.0	69.2	68.8	68.0	67.0	67.4	69.64
72.7	72.5	72.3	72.0	72.0	71.8	71.5	71.4	71.2	71.0	70.7	70.4	70.77
73.0	73.0	72.2	72.0	71.6	71.2	70.6	70.4	69.8	69.5	69.0	68.5	70.97
72.9	73.2	73.2	72.6	72.2	71.6	—	—	—	—	—	—	—
—	—	—	—	—	—	71.5	71.0	70.8	70.5	69.8	69.3	71.27
75.8	75.6	75.7	75.1	75.0 <sup>c</sup>	74.5	74.0	73.5	73.2	73.0	72.6	72.2	73.47
76.0	75.9	75.1	74.8	74.4	74.0	73.5	72.8	72.5	72.0	71.8	71.6	73.84
72.7	72.5	72.5	72.5	72.5	72.2	72.0	72.0	71.8	71.5	71.5	71.0	71.83
72.0	72.0	71.4	71.2	70.8	70.4	69.8	69.4	68.8	68.4	67.8	67.4	70.48
70.8	70.8	70.5	69.8	69.0	68.4	68.0	67.5	67.0	66.5	66.2	65.6	68.56
71.8	72.0	71.0	70.2	69.2	69.0	—	—	—	—	—	—	—
—	—	—	—	—	—	70.0	69.5	69.0	68.5	68.5	67.8	69.51
76.0	76.0	75.2	75.0	74.6	74.0	73.7	73.2	72.6	72.2	72.0	71.8	72.88
72.3	72.4	72.4	72.4	72.2	72.0	72.0	72.0	72.0	72.0	71.8	72.0	72.02
76.9	76.9	76.7	76.0	75.8	76.0	74.8	74.0	72.6	72.3	72.5	72.2	74.61
72.43	72.36	71.93	71.49	71.10	70.72	70.30	69.86	69.48	69.07	68.69	68.29	70.32

<sup>c</sup> Eight minutes late.

<sup>d</sup> Four minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
AUGUST.	1	514.3	511.9	511.1	507.0	509.8	471.6	491.1	513.2	532.5	515.5	528.0	511.5
	2	502.0	507.8	504.0	497.5	487.1	488.3	493.4	500.5	508.0	507.8	516.6	500.9
	3	509.2	511.7	504.3	507.9	498.4	497.8	501.4	499.5	506.7	516.4	506.5	508.7
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	517.9	511.8	513.0	503.1	505.3	502.5	509.8	514.5	514.3	512.3	513.5	514.6
	6	512.9	508.5	507.8	500.1	495.7	496.5	498.0	504.9	510.5	516.4	521.3	516.0
	7	517.2	516.3	510.6	503.3	499.0	501.1	503.9	509.0	513.5	515.8	518.0	516.6
	8	515.0	517.8	515.5	507.0	504.4	503.9	509.0	512.8	513.2	516.0	518.0	519.0
	9	514.1	509.0	518.5	501.3	486.7	515.0	521.8	526.0	528.8	529.1	530.5	524.9
	10	510.3	505.2	504.6	501.3	496.7	493.8	500.3	510.2	518.5	519.7	523.9	520.8
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	526.1	523.6	518.9	511.3	503.3	502.0	502.8	508.9	521.6	523.8	526.8	525.3
	13	524.4	521.8	514.4	506.8	504.1	508.0 <sup>a</sup>	513.9	517.9	527.0	531.0	530.5	526.8
	14	525.0	521.8	512.4	504.5	501.6	505.4	509.6	515.9	523.1	530.0	531.8	528.6
	15	524.6	522.3	516.0	506.2	506.0	511.7	524.8	531.2	534.8	535.0	532.0	525.4
	16	521.6	521.6	514.0	503.6	499.7	499.5	508.0 <sup>b</sup>	516.2	513.6	532.3	526.0	516.0
	17	518.3	516.0	507.3	499.7	496.9	500.5	511.3	508.8	516.0	516.2	516.0	516.3
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	522.0	519.8	515.0	505.2	506.6	509.0	511.6	514.0	517.5	518.0	518.0	521.6
	20	519.0	518.8	515.0	507.0	503.3	505.1	508.0	512.8	521.8	524.8	529.3	522.0
	21	523.2	525.0	522.0	512.1	507.9	512.0	518.3	524.6	528.0	538.7	531.0	533.0
	22	532.5	529.5	520.9	493.3	512.7	519.0	518.0	520.0	533.3	524.3	520.6	546.5
	23	518.4	514.6	514.1	482.5	499.5	499.2	511.1	520.6	521.0	532.2	522.0	522.9
	24	526.0	524.6	517.0	509.5	516.0	517.0	518.2	521.1	524.0	528.6	529.6	524.4
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	540.0	520.5	514.0	512.0	511.5	516.5	521.0	527.6	525.1	532.9	539.1	532.1
	27	528.4	527.6	520.0	511.9	511.0	516.7	524.7	527.8	532.0	532.8	530.0	531.3
	28	536.0	532.0	520.9	511.2	507.1 <sup>b</sup>	508.3 <sup>a</sup>	514.6	522.5	528.7	535.3	536.0	538.0
	29	533.0	529.1	519.1	507.4 <sup>c</sup>	506.4	514.9	525.3	534.5	549.8	547.5	525.0	538.4
	30	528.0	506.3	518.8	519.0	508.0	512.2	518.2	528.0	544.1	534.2	536.8	521.8
	31	521.1	509.4	513.6	514.3	506.1	512.5	521.3	525.0	520.6	534.5	521.3	516.0
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	521.50	517.94	514.18	505.41	503.36	505.18	511.46	517.33	523.26	525.97	525.11	522.94	

TEMPERATURE OF THE BIFILAR MAGNET.													
AUGUST.	1	72.1	72.3	73.0	73.2	74.0	74.4	75.0	75.5	76.0	76.7	77.1	77.5
	2	71.6	72.0	72.4	72.8	73.5	74.0	74.5	74.8	75.2	75.4	75.6	76.0
	3	68.9	68.6	68.7	69.0	69.3	69.8	70.2	71.0	71.5	71.9	71.9	72.0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	65.2	65.6	66.0	66.6	67.2	68.0	68.6	69.4	69.6	69.9	70.2	70.5
	6	67.9	68.0	67.6	68.2	68.6	69.4	69.4	70.0	70.4	71.0	71.4	71.4
	7	66.0	66.1	66.6	67.4	67.8	68.9	69.4	70.0	70.5	70.8	71.0	71.2
	8	68.8	68.8	68.5	68.5	69.0	69.6	70.5	70.8	71.3	71.8	72.2	72.8
	9	71.0	70.8	70.8	71.0	71.4	72.8	73.4	73.8	73.8	74.0	74.0	74.0
	10	70.3	70.2	70.0	70.4	70.2	70.3	70.3	70.5	71.2	71.4	71.8	72.0
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	63.0	62.5	63.0	63.9	64.6	64.8	65.8	66.5	66.8	67.2	67.4	67.4
	13	63.5	63.3	63.3	63.8	64.7	65.5 <sup>a</sup>	66.4	67.0	67.7	68.2	68.5	68.6
	14	65.6	65.6	65.6	65.5	65.6	66.0	66.5	66.7	67.4	68.2	68.8	69.0
	15	66.3	66.4	67.0	67.4	68.3	69.0	70.0	71.0	71.5	72.4	72.5	72.8
	16	68.6	68.5	68.7	69.0	69.8	71.0	71.5 <sup>b</sup>	72.1	72.9	73.5	73.8	74.0
	17	71.0	70.8	71.0	71.5	72.0	72.6	73.0	73.5	73.5	74.0	74.5	74.6
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	69.6	69.5	69.6	69.8	70.5	71.0	72.0	72.5	72.5	73.6	74.0	74.4
	20	71.5	71.0	71.0	71.0	71.0	71.0	71.0	71.2	71.2	71.3	71.5	71.5
	21	65.7	66.0	66.7	67.2	68.0	68.4	68.6	69.0	69.0	69.0	68.7	68.5
	22	66.0	65.6	65.4	65.4	65.4	65.4	65.6	65.6	66.0	66.6	68.0	68.5
	23	68.1	68.3	68.5	68.7	68.7	68.9	69.3	70.0	70.0	70.0	70.4	70.6
	24	65.0	65.5	65.5	66.0	66.8	67.0	67.4	68.0	68.3	68.3	68.3	68.2
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	62.6	62.2	62.6	63.5	64.4	64.6	65.0	65.5	65.9	66.3	66.0	66.2
	27	63.4	63.0	63.0	63.5	64.0	64.0	64.2	64.4	64.8	65.0	65.4	65.5
	28	62.5	62.2	62.4	62.4	63.0 <sup>b</sup>	63.5 <sup>a</sup>	64.0	64.4	64.5	64.5	65.0	65.0
	29	62.0	62.0	62.0	62.6 <sup>c</sup>	63.0	64.0	64.3	65.0	65.4	65.9	66.1	66.6
	30	63.0	62.2	62.0	62.4	62.8	63.4	64.0	64.8	65.4	65.6	65.8	66.2
	31	66.5	66.0	66.2	66.8	67.2	67.6	68.2	68.6	69.0	69.4	69.8	70.2
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	66.88	66.78	66.93	67.31	67.81	68.33	68.82	69.32	69.68	70.07	70.36	70.56	

<sup>a</sup> Three minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Four minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 485·6	Sc. Div. 481·1	Sc. Div. 484·1	Sc. Div. 492·6	Sc. Div. 490·4	Sc. Div. 484·8	Sc. Div. 492·5	Sc. Div. 474·5	Sc. Div. 475·5	Sc. Div. 494·1	Sc. Div. 495·5	Sc. Div. 497·0	Sc. Div. 498·55
506·4	491·6	496·7	495·4	503·4	493·9	502·7	499·5	509·5	506·1	506·5	510·6	501·51
513·4	502·5	500·8	503·1	516·0	495·7	—	—	—	—	—	—	506·23
518·3	508·4	515·0	516·0	515·2	515·0	505·4	499·5	506·5	511·7	512·3	514·2	512·25
512·0	512·5	510·8	511·4	511·0	510·0	513·8	513·0	514·6	511·9	510·4	509·9	512·25
514·7	514·2	513·4	513·0	513·8	511·7	514·0	510·4	512·0	513·9	513·8	514·4	509·57
511·4	514·0	514·7	513·2	512·4	513·0	508·5	511·5	515·2	512·6	511·1	513·4	511·92
503·8	505·0	498·2	498·0	495·8	516·1	503·5	506·8	507·0	484·9	504·9	512·0	512·98
512·9	510·9	511·0	520·5	508·5	515·0	—	—	—	—	—	—	510·07
—	—	—	—	—	—	517·0	518·1	520·8	517·8	519·8	526·6	512·68
523·5	523·9	523·0	508·6	514·6	518·5	520·6	523·0	514·8	517·9	522·0	523·2	517·83
524·3	521·6	522·0	522·2	523·2	523·0	523·0	524·6	523·4	523·1	523·0	525·0	521·04
522·3	520·0	522·0	522·8	524·9	526·0	524·4	523·2	522·0	526·0	524·5	524·6	520·52
518·6	519·3	520·0	519·0	518·0	520·4	520·8	519·6	519·3	522·4	521·2	523·0	521·32
515·0	513·0	508·1	515·4	516·1	522·3	518·0	518·8	519·5	519·0	517·5	519·0	515·58
514·6	510·9	517·6	521·3	521·7	521·6	—	—	—	—	—	—	—
—	—	—	—	—	—	521·9	522·0	523·0	521·6	517·4	519·8	514·86
516·4	518·0	518·2	516·7	519·0	518·5	521·0	519·0	516·1	517·9	516·9	518·0	516·42
524·0	523·6	520·0	520·8	522·8	524·8	523·1	525·8	526·1	527·0	528·0	525·0	519·91
533·2	536·0	534·5	526·4	518·8	520·3	523·9	517·8	530·1	534·5	529·3	530·7	525·47
515·0	508·8	510·1	518·9	518·0	521·8	521·5	520·8	524·2	509·1	515·3	499·3	518·89
519·0	523·6	503·4	522·8	496·1	502·8	514·6	516·5	522·0 <sup>c</sup>	516·9	518·5	519·0	513·89
525·0	518·5	507·4	523·6	525·5	525·3	—	—	—	—	—	—	—
—	—	—	—	—	—	515·2	517·4	526·3	528·8	525·4	530·0	521·85
522·8	525·0	526·3	529·4	530·0	529·0	530·6	532·0	526·0	528·0	529·0	530·4	526·28
530·1	529·7	531·0	529·2	536·0	529·7	530·0	530·4	521·6	525·4	530·6	533·0	527·12
533·0	533·0	533·5	533·8	532·6	532·8	532·9	536·0	533·0	532·8	531·2	531·2	528·60
514·4	519·6	508·8	502·9	525·6	519·7	522·2	511·9	509·7	515·9	530·8	530·0	522·58
520·9	508·8	518·3	524·2	524·9	521·8	530·3	521·0	515·6	524·6	514·8	519·9	521·69
520·3	520·6 <sup>d</sup>	521·1	511·1 <sup>c</sup>	512·0	511·0	—	—	—	—	—	—	—
—	—	—	—	—	—	520·9	522·3	518·1	517·0	520·0	525·0	518·13
517·44	515·34	514·44	516·01	516·53	516·46	517·82	516·69	517·28	517·67	518·82	519·83	516·58

TEMPERATURE OF THE BIFILAR MAGNET.												
77·6	77·6	77·4	77·2	76·4	75·8	75·3	74·1	73·8	73·0	72·6	71·9	74·98
76·4	76·0	75·4	74·6	74·0	73·1	72·5	71·5	71·2	70·8	70·3	69·5	73·46
72·0	71·8	71·5	71·2	71·0	70·8	—	—	—	—	—	—	—
—	—	—	—	—	—	68·0	67·5	67·0	66·4	66·0	65·5	69·65
70·5	70·2	70·0	69·5	69·2	69·0	68·6	68·2	68·3	68·4	68·3	68·0	68·54
71·4	71·4	70·6	70·2	70·0	69·4	69·0	68·5	67·8	67·4	66·9	66·4	69·26
71·5	71·3	71·2	70·8	70·5	70·0	70·0	70·0	69·5	69·4	69·3	69·0	69·51
73·0	72·4	72·8	73·0	72·8	72·4	72·0	71·8	71·5	71·5	71·5	71·2	71·19
73·8	74·0	74·0	73·4	73·2	73·0	72·5	72·1	71·8	71·5	71·0	70·5	72·57
72·0	71·7	71·0	70·7	70·4	70·0	—	—	—	—	—	—	—
—	—	—	—	—	—	66·0	65·4	65·2	65·0	64·2	63·4	69·32
67·4	67·4	67·4	67·0	66·5	66·2	66·0	65·0	64·8	64·5	64·0	63·5	65·52
68·6	68·6	68·5	68·0	67·5	67·2	67·0	66·6	66·4	66·1	66·0	65·8	66·53
69·5	69·0	69·4	69·0	68·8	68·5	68·2	67·8	67·2	67·2	66·8	66·6	67·44
72·8	72·5	72·0	71·7	71·3	71·0	70·5	70·2	69·8	69·6	69·0	68·5	70·15
73·6	73·5	73·5	73·5	73·2	73·0	72·6	72·0	72·4	72·1	72·0	71·5	71·93
74·4	74·0	73·6	72·8	72·0	71·2	—	—	—	—	—	—	—
—	—	—	—	—	—	70·0	70·0	70·0	69·6	69·5	69·7	72·03
74·5	74·6	74·6	74·5	74·2	73·7	73·0	72·5	72·4	72·0	71·7	71·5	72·42
71·7	71·2	70·8	70·0	69·5	69·0	68·3	67·5	67·3	67·0	66·5	66·0	69·96
69·0	68·8	68·5	68·4	67·8	67·3	66·8	66·6	66·2	65·8	65·8	65·5	67·55
68·8	69·0	69·2	69·2	69·2	69·2	69·2	69·0	68·9	68·6	68·5	68·3	67·52
70·8	70·5	69·8	69·4	68·4	68·0	67·3	67·0	66·6 <sup>c</sup>	66·3	66·0	65·5	68·63
68·0	67·7	67·2	67·0	66·6	66·0	—	—	—	—	—	—	—
—	—	—	—	—	—	64·5	64·2	63·9	63·5	63·0	62·6	66·19
66·2	66·0	66·0	65·4	65·0	64·8	64·5	64·2	64·0	63·6	63·6	63·5	64·65
65·9	65·8	65·5	65·2	64·8	64·4	64·0	63·8	63·5	63·0	62·7	62·5	64·22
65·0	65·0	65·0	64·6	64·2	64·0	63·6	63·2	63·0	62·7	62·5	62·1	63·68
66·9	67·3	67·0	66·7	66·0	65·5	65·0	64·5	64·0	63·5	63·2	63·0	64·65
66·4	66·4	66·6	66·7	66·6	66·4	66·4	66·4	66·4	66·4	66·4	66·5	65·22
70·4	70·2 <sup>d</sup>	70·0	69·4	69·0	68·6	—	—	—	—	—	—	—
—	—	—	—	—	—	69·2	69·2	69·2	69·2	69·2	69·2	68·68
70·67	70·51	70·31	69·97	69·56	69·17	68·52	68·10	67·86	67·56	67·28	66·93	68·72

<sup>d</sup> Nine minutes late.

<sup>c</sup> Ten minutes late.

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah: = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.	2	521.6	518.1	514.8	512.8	504.2	503.0	516.4	518.9	523.8	527.4	528.0	
	3	526.8	526.0	518.7	514.6	511.1	513.0	518.0	521.6	528.6	534.1	532.0	
	4	530.3	531.0	521.3	511.6	510.3	511.0	522.9	523.3	524.4	537.9	524.9	
	5	530.0	525.5	521.3	516.4	512.8	515.0	518.3	527.0	532.2	533.0	535.9	
	6	533.7	531.4	525.9	519.0	515.5	516.8	519.0	525.3	528.2	531.1	534.0	
	7	534.9	532.3	523.1	518.1	514.8	518.0	522.9	535.8	538.4	542.4	538.4	
	8	—	—	—	—	—	—	—	—	—	—	—	
	9	526.9	522.2	513.1	506.8	510.0	510.6	519.9	522.1	536.0	533.1	542.6	
	10	531.8	525.5	517.8	509.9	511.6	518.2	527.1	533.0	539.8	536.8	536.9	
	11	529.0	523.0	515.3	509.0	508.5	515.0	521.5	529.7	536.1	538.5	529.8	
	12	532.8	525.4	517.5	512.4	510.1	513.7	518.6	527.3	530.7	533.1	527.8	
	13	530.1	526.8	519.1	511.8	511.3	512.5	517.5	524.9	532.1	535.0	537.7	
	14	533.9	532.0	525.8	520.5	504.3	504.9	513.5	515.5	525.3	534.0	533.5	
	15	—	—	—	—	—	—	—	—	—	—	—	
	16	528.2	524.7	517.6	509.9	508.4	510.3	515.0	519.7	525.2	527.3	531.0	
	17	527.4	525.0	521.0	515.0	509.5	507.0	512.0	516.8	521.0	526.1	524.8	
	18	525.0	520.2	517.5	512.4	506.8	506.1	507.5	513.8	522.1	524.9	524.8	
	19	525.7	528.8	523.2	520.3	518.3	520.5	524.4	530.3	535.3	522.8	530.0	
	20	532.3	526.0	519.1	510.9	504.4	504.1	518.5	520.5	512.7	511.3	514.0	
	21	517.8	518.0	519.0	516.5	509.0	501.8	502.5	515.5	523.3	524.0	526.0	
	22	—	—	—	—	—	—	—	—	—	—	—	
	23	542.0	538.5	542.8	535.5	530.0	536.5	539.5	542.6	547.0	549.7	550.1	
	24	550.2	547.5	539.1	528.6	537.3	544.8	542.0	551.8	552.5	554.3	554.0	
	25	554.9	554.6	542.6	544.7	542.9	534.9	540.2	549.4	558.4	550.5	550.0	
	26	549.8	562.1	552.5	541.0	517.4	521.5	534.5	554.8	525.5	548.0	544.5	
	27	555.5	555.5	549.0	538.8	525.5	539.9	546.5	545.1	550.8	550.0	550.5	
	28	557.6	554.0	553.7	547.5	550.6	547.5	544.4	557.9	563.1	561.0	557.9	
	29	—	—	—	—	—	—	—	—	—	—	—	
	30	559.0	550.5	532.1	524.4	528.8	521.8	538.4	554.7	552.8	540.0	550.8	
	Hourly Means	535.49	532.99	526.52	520.34	516.54	517.94	524.04	531.09	534.61	536.25	536.46	535.13

TEMPERATURE OF THE BIFILAR MAGNET.													
SEPTEMBER.	2	68.5	68.6	68.7	68.8	69.0	69.2	70.0	70.0	70.4	71.0	72.0	
	3	67.0	67.0	67.4	67.6	68.5	69.0	69.4	69.5	70.0	70.4	71.3	
	4	66.0	66.5	67.0	67.7	68.2	68.7	69.0	69.5	70.0	70.3	70.7	
	5	64.4	64.2	64.4	65.5	66.0	67.0	67.4	67.4	67.8	68.2	68.5	
	6	64.0	64.2	65.0	65.6	66.8	67.5	68.3	69.0	69.3	70.0	70.5	
	7	65.6	66.0	66.5	67.5	68.3	68.8	69.4	69.8	70.0	70.5	71.0	
	8	—	—	—	—	—	—	—	—	—	—	—	
	9	68.2	68.0	68.0	67.8	67.6	67.8	68.0	68.4	68.5	69.2	69.1	
	10	66.8	66.7	66.6	66.7	66.7	67.0	67.5	68.5	69.0	69.5	70.0	
	11	68.0	67.7	67.7	67.7	67.9	68.0	68.5	68.8	69.4	69.8	70.0	
	12	67.0	66.7	66.6	66.7	67.3	67.9	68.4	69.0	69.6	69.9	70.8	
	13	66.5	66.0	66.5	67.0	67.7	68.4	68.8	69.5	69.7	70.2	70.5	
	14	65.3	65.5	66.0	66.5	67.4	68.4	69.0	70.0	70.5	71.2	72.0	
	15	—	—	—	—	—	—	—	—	—	—	—	
	16	69.1	69.0	69.5	70.0	71.5	72.0	72.6	73.0	73.4	74.0	75.5	
	17	69.0	69.0	69.5	70.0	70.8	71.8	72.5	73.3	74.2	75.2	76.0	
	18	69.6	69.8	70.2	70.4	71.0	71.3	71.5	71.6	71.8	72.0	72.4	
	19	67.5	67.3	67.6	68.0	68.5	69.0	69.5	70.2	71.0	71.8	72.8	
	20	69.5	69.5	70.0	70.5	71.3	72.0	72.8	73.5	74.2	75.0	75.2	
	21	71.5	71.5	71.8	72.5	73.0	73.0	72.5	71.8	71.2	70.5	69.8	
	22	—	—	—	—	—	—	—	—	—	—	—	
	23	57.0	56.7	57.0	58.0	58.5	58.9	59.4	59.5	59.6	59.6	59.6	
	24	56.2	56.0	56.0	56.0	55.8	56.0	56.5	56.6	57.0	57.4	58.0	
	25	54.7	54.5	54.4	54.4	54.4	54.7	55.0	55.4	55.5	55.6	55.6	
	26	52.8	52.7	52.8	53.2	54.0	54.5	55.0	55.5	56.0	56.0	56.4	
	27	51.0	51.0	51.5	52.4	52.8	53.0	53.4	53.6	54.0	54.5	55.5	
	28	50.0	49.7	49.5	49.6	50.3	50.9	51.2	51.5	52.1	53.0	53.0	
	29	—	—	—	—	—	—	—	—	—	—	—	
	30	51.3	51.2	51.5	51.8	52.8	53.7	54.9	55.8	56.7	57.4	58.2	
	Hourly Means	63.46	63.40	63.67	64.08	64.64	65.14	65.62	66.03	66.44	66.89	67.36	67.62

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
521·4	518·0	511·1	515·8	525·1	519·7	523·0	521·8	524·9	526·5	520·4	524·5	519·51
529·0	526·5	525·0	527·0	526·6	522·1	521·7	525·8	525·5	526·0	522·0	525·3	524·23
528·8	525·9	525·9	524·0	515·6	517·7	521·9	526·0	524·7	519·8	527·4	529·5	523·41
529·7	527·0	526·7	526·8	526·4	528·5	529·2	529·5	530·0	530·0	531·0	532·8	526·96
530·0	531·1	531·0	531·0	531·0	526·5	522·0	528·8	524·5	529·0	529·6	530·6	527·37
527·5	526·0	526·8	529·0	531·0	531·4	—	—	—	—	—	—	—
—	—	—	—	—	—	522·6	532·1	521·8	522·0	525·8	528·4	528·47
527·0	520·5	517·0	520·5	522·4	527·4	527·0	527·7	528·8	529·3	529·0	532·8	524·15
528·0	530·8	521·0	528·0	529·7	529·9	529·2	530·2	530·6	530·6	530·5	530·0	527·80
529·0	530·7	530·9	531·6	533·2	531·8	532·5	533·0	535·0	533·0	533·5	535·0	528·12
527·0	529·8	531·0	532·5	530·5	531·0	533·4	534·9	535·4	533·0	534·5	535·4	527·76
538·0	540·0	537·0	530·2	530·2	528·7	531·8	529·0	536·5	537·8	537·0	533·9	529·35
528·5	529·1	528·6	479·4	511·4	523·7	521·4	527·9	529·0	525·0	522·8	527·9	522·07
—	—	—	—	—	—	—	—	—	—	—	—	—
524·9	500·7	504·3	507·1	518·5	513·1	522·9	521·5	526·0	527·0	526·4	526·0	519·35
523·0	525·3	521·2	518·2	506·7	513·3	517·0	517·4	518·0	522·0	522·0	523·4	518·99
528·4	526·5	520·0	520·0	524·0	533·0	529·5	528·0	528·1	529·9	531·6	531·0	522·52
530·5	524·0	511·4	514·7	504·3	510·4	500·5	513·8	513·2	505·6	517·8	515·5	519·76
513·6	517·6	514·8	526·6	524·8	515·3	522·6	511·5	517·8	521·3	521·5	513·5	517·12
527·0	531·3	533·4	526·5	531·6	533·4	—	—	—	—	—	—	—
—	—	—	—	—	—	542·2	536·7	533·5	543·2	550·5	550·0	526·63
549·0	545·9	543·9	543·0	539·5	543·2	538·9	536·6	542·0	546·0	550·0	550·4	542·90
547·7	551·0	548·5	550·5	556·5	548·0	546·8	548·8	549·6	548·6	551·4	551·0	547·98
535·1	525·3	547·5	523·2	527·1	528·0	539·8	534·8	528·8	535·5	546·9	534·3	540·81
542·8	549·1	546·0	545·1	546·9	552·0	552·0	531·1	500·5	527·2	538·1	537·5	540·24
545·4	545·4	536·5	541·5	528·4	555·7	550·0	554·0	556·5	556·0	557·0	554·8	547·54
559·0	556·3	558·4	558·0	557·9	554·5	—	—	—	—	—	—	—
—	—	—	—	—	—	527·8	527·5	531·0	543·0	550·0	556·9	551·33
545·6	533·0	545·5	514·5	508·0	505·8	495·9	419·0	461·6	469·7	543·6	494·6	522·37
532·64	530·67	529·74	526·59	527·49	528·96	528·06	525·10	526·13	528·68	534·01	532·20	529·07
TEMPERATURE OF THE BIFILAR MAGNET.												
73·0	72·7	72·2	71·5	70·5	69·8	69·4	68·6	68·4	68·2	67·6	67·0	69·90
72·4	72·0	71·3	70·5	70·0	69·4	69·0	68·5	68·0	67·5	67·0	66·5	69·22
70·9	70·4	69·6	69·4	67·8	67·0	66·5	66·0	65·7	65·4	65·0	64·6	68·03
68·8	68·4	68·0	67·0	66·8	66·5	66·0	65·8	65·4	65·0	64·8	64·4	66·51
70·5	70·3	70·0	69·6	69·0	68·5	68·2	67·6	67·2	67·0	66·6	66·4	67·98
71·0	70·5	70·0	69·5	69·3	68·6	—	—	—	—	—	—	—
—	—	—	—	—	—	69·0	68·8	68·5	68·5	68·5	68·4	68·96
69·7	69·9	69·5	69·2	68·8	68·4	68·2	67·9	67·6	67·6	67·4	67·0	68·39
71·0	70·7	70·5	70·0	69·7	69·5	68·8	68·5	68·3	68·2	68·0	68·0	68·61
70·0	70·0	70·0	69·2	69·0	68·8	68·5	68·2	68·0	67·7	67·5	67·2	68·66
71·4	71·0	70·6	70·2	69·6	69·0	68·5	68·2	67·6	67·0	66·8	66·5	68·65
71·0	70·5	70·2	69·8	69·2	68·8	68·0	67·7	67·0	66·5	66·1	65·8	68·43
72·8	72·8	72·2	71·6	71·6	71·5	—	—	—	—	—	—	—
—	—	—	—	—	—	71·6	71·0	70·5	70·2	70·0	69·8	70·00
76·0	75·8	75·4	75·0	74·0	73·5	72·6	71·8	70·7	70·5	70·2	69·5	72·52
76·4	76·0	75·0	74·4	74·0	73·6	73·2	72·8	72·0	71·2	70·5	70·0	72·77
72·8	72·8	72·2	71·9	71·5	71·3	70·8	70·4	70·0	69·2	69·0	68·0	71·01
73·0	73·0	72·8	72·8	73·0	72·4	72·0	71·2	70·7	70·5	70·1	70·0	70·74
75·4	75·0	74·6	74·3	74·0	73·6	73·0	72·6	72·3	72·0	71·6	71·6	72·87
68·6	68·0	67·0	66·4	66·0	65·2	—	—	—	—	—	—	—
—	—	—	—	—	—	59·2	58·8	58·4	58·0	57·5	57·0	67·03
59·7	59·1	58·9	58·5	58·2	58·0	57·5	57·5	57·0	56·7	56·5	56·3	58·22
58·3	58·4	58·2	58·0	57·5	57·3	57·0	56·6	56·2	56·0	55·7	55·4	56·85
55·5	55·4	55·2	55·0	54·8	54·6	54·4	54·0	54·0	53·7	53·5	53·2	54·71
56·4	56·3	55·7	55·4	55·0	54·4	54·1	53·3	52·7	52·2	51·8	51·4	54·32
55·7	55·4	55·0	53·6	53·0	52·5	52·0	51·5	51·2	50·7	50·4	50·2	52·91
53·0	52·8	52·5	52·3	52·0	51·8	—	—	—	—	—	—	—
—	—	—	—	—	—	52·5	52·5	52·3	52·0	51·6	51·3	51·70
57·6	56·6	56·0	55·5	54·8	54·0	53·5	53·2	53·2	52·6	52·2	52·0	54·35
67·64	67·35	66·90	66·42	65·96	65·52	64·94	64·52	64·12	63·76	63·44	63·10	65·33



HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
OCTOBER.	1	504·8	514·8	539·0	528·0	509·7	514·4	521·6	542·7	545·4	543·3	544·8	528·0
	2	556·8	552·5	547·4	542·4	534·8	532·8	526·9	532·7 <sup>a</sup>	535·5	551·6	556·5	551·7
	3	546·0	546·5	536·0	535·5	532·3	527·0	534·5	539·7	347·5	547·4	547·2	545·0
	4	548·2	543·1	541·7	534·4	534·3	536·4	538·9	545·2	549·7	552·8	547·8	547·8
	5	550·8	553·1	545·8	543·5	542·6	546·4	549·6	552·2	557·6	549·9 <sup>b</sup>	549·1	546·0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	556·3	557·2	555·7	555·9	553·8	551·1	553·0	560·0	562·3	560·3	561·8	558·0
	8	559·2	555·4	551·4	552·6	554·0	552·8	552·2 <sup>c</sup>	552·0	555·7	557·0	558·9	552·0
	9	553·5	553·5	546·3	541·3	537·6	537·0	540·5	545·8	550·0	553·0	553·0	552·8
	10	551·5	545·8	543·8	540·3	530·1	541·1	546·1	553·6	552·3	555·1	554·9	553·3
	11	556·5	555·0	553·0	545·8	544·7	548·6	551·0	551·7	556·5	558·3 <sup>d</sup>	558·6	556·9
	12	561·0	558·3	552·3	543·9	541·0	543·9	547·4	548·8	559·0	562·5	563·0	561·8
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	559·7	558·7	551·0	543·4	538·0	537·8	543·5	549·0	554·0	561·8	562·3	559·0
	15	560·2	555·0	548·8	543·0	537·8	538·0	541·6	547·7	554·8	556·7	557·4	557·6
	16	558·3	556·2	552·0	544·4	536·7	533·6	537·7	544·7	550·7	554·0	559·9	560·0
	17	560·0	559·2	555·6	547·1	538·5	534·9	537·0	540·3	545·1	554·0	557·8	559·0
	18	560·8	555·6	554·4	550·2	542·3	545·9	545·8	548·0	554·3	558·5	562·0	565·8
	19	564·0	561·0	557·0	551·0	547·0	546·0	546·9	555·3	563·8	564·0	568·7	565·9
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	550·0	552·5	542·3	537·0	553·5	558·0	559·0	555·3	561·6	552·8	551·8	542·5
	22	559·8	560·0	555·3	550·8	542·0	550·1	549·9	553·4	554·0	555·5	554·0	557·1
	23	559·9	553·4	553·0	537·0	541·9	546·0	547·8	551·7	551·3	558·1	550·9	551·0
	24	556·0	552·3	545·8	544·6	544·8	544·8	544·2	545·7	549·8	551·3	551·8	547·0
	25	558·5	551·5	544·0	542·0	540·0	531·0	534·0	541·5	546·0	527·9	542·0	542·0
	26	555·5	557·5	545·0	540·3	548·4	535·3	536·6	551·5	556·0	538·0	540·4	538·3
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	563·9	565·4	566·5	562·9	554·8	551·8	550·8	555·7	555·0	559·1	562·6	560·7
	29	571·8	571·9	571·5	558·9	553·1	561·0	561·8	563·8	562·4	566·5	573·1	578·0
	30	567·8	583·2	578·0	571·4	563·7	564·8	567·1	570·3	571·5	572·0	572·5	570·2
	31	575·4	574·9	574·8	570·3	570·3	565·9	563·8	558·0	568·1	561·7	568·5	570·7
Hourly Means	556·53	555·69	552·13	546·59	543·25	543·57	545·53	550·23	554·44	554·93	556·71	554·74	
TEMPERATURE OF THE BILIFAR MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
OCTOBER.	1	51·5	51·5	52·0	52·7	53·3	54·0	54·6	55·2	55·8	56·8	57·4	58·0
	2	52·0	52·0	53·0	53·3	54·3	55·0	55·5	56·0 <sup>a</sup>	56·7	57·0	57·5	58·0
	3	57·2	56·9	57·0	57·5	58·2	58·5	59·2	59·2	59·6	60·8	61·4	61·8
	4	56·6	56·2	56·4	56·6	56·7	57·3	58·1	59·0	59·0	59·5	59·9	60·0
	5	55·6	55·6	55·4	55·1	55·0	55·0	55·4	55·5	55·6	56·0 <sup>b</sup>	56·2	56·4
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	51·6	51·4	51·0	50·8	50·8	51·0	52·0	52·4	52·5	52·9	53·0	54·5
	8	48·6	48·4	49·0	49·4	50·5	52·0	53·2 <sup>c</sup>	54·2	55·0	56·8	58·0	58·5
	9	56·4	56·6	56·8	57·4	58·0	58·9	59·4	60·0	60·6	61·8	62·4	63·5
	10	57·4	57·3	57·0	57·4	57·5	57·5	57·8	57·9	58·4	58·0	59·0	59·0
	11	52·8	52·8	53·0	53·5	54·0	54·5	54·9	55·6	56·3	57·0 <sup>d</sup>	57·7	58·1
	12	51·2	51·0	51·4	51·8	53·2	54·0	54·9	55·5	56·0	56·6	57·4	57·7
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	54·0	53·8	54·0	53·7	54·0	54·5	54·7	55·0	55·0	55·0	55·5	55·5
	15	55·5	55·5	55·5	56·0	56·3	56·5	56·7	56·7	56·8	56·8	56·8	56·9
	16	53·2	52·6	52·6	53·0	53·5	54·0	54·5	55·0	55·4	55·7	55·8	55·3
	17	53·5	53·4	53·2	53·0	53·0	53·0	53·0	53·2	53·5	53·5	53·2	53·5
	18	52·1	52·0	51·5	51·2	51·3	51·5	51·7	52·0	52·0	52·0	52·0	52·2
	19	51·3	51·0	51·0	51·0	50·7	50·9	51·0	51·0	50·8	51·0	50·7	50·8
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	45·5	46·0	46·0	46·5	46·5	47·0	48·0	48·2	48·6	49·4	50·0	50·0
	22	50·4	50·2	50·0	50·0	51·0	51·8	52·6	53·5	53·5	54·6	55·0	55·7
	23	51·4	51·0	50·7	50·7	51·0	51·5	52·2	53·1	53·4	54·7	55·3	56·0
	24	54·0	54·0	54·2	55·2	56·0	56·8	57·0	57·5	58·0	58·6	59·0	59·0
	25	56·5	56·5	57·0	57·0	57·2	57·5	57·7	58·0	58·5	59·0	59·5	59·9
	26	55·6	55·0	54·6	54·6	54·6	55·3	55·4	55·7	55·6	55·6	55·6	55·2
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	45·2	45·0	44·7	44·4	44·4	44·5	44·5	44·9	44·5	44·5	44·5	44·2
	29	42·7	42·5	42·0	42·0	41·3	41·3	42·0	41·6	41·9	42·6	43·2	43·0
	30	43·7	43·6	43·4	43·4	44·0	44·7	45·3	46·0	45·7	46·0	45·9	45·6
	31	44·0	43·5	43·5	44·8	46·0	46·8	47·2	48·2	48·8	49·4	50·0	50·0
Hourly Means	51·83	51·68	51·70	51·93	52·31	52·79	53·28	53·71	53·98	54·50	54·89	55·12	

<sup>a</sup> Five minutes late.

<sup>b</sup> Two minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah. = '000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
543.0	542.5	546.3	549.4	548.2	549.8	554.8	550.7	553.8	555.7	556.0	555.5	539.26
548.9	548.4	544.8	543.9	544.0	550.0	549.2	—	546.5 <sup>b</sup>	546.5	547.9	549.5	545.27
540.6	543.8	542.0	543.1	543.6	543.7	546.6	543.5	544.0	543.0	546.5	547.7	542.20
542.7	545.7	546.4	547.3	546.0	544.0	545.0	545.0	547.6	546.4	550.5	550.0	541.87
547.0	550.8	548.5	553.5	546.8	553.0	—	—	—	—	—	—	—
—	—	—	—	—	—	551.2	553.8	552.4	551.0	557.9	558.0	550.44
551.0	553.4	551.0	554.8	550.9	561.5	560.5	557.9	559.0	559.0	559.8	561.4	556.90
556.5	555.8	552.6	561.6	552.4	553.0	553.9	554.8	556.0	555.6	553.3	552.5	554.63
546.9	547.0	543.8	544.6	543.0	544.7	544.5	546.8	548.0	546.5	547.3	546.6	546.42
550.5	552.0	551.5	551.0	552.0	551.5	552.0	553.3	554.9	549.6	551.7	552.6	549.60
556.0	554.0	554.6	555.4	556.0	556.8	558.0	558.2	560.1	560.9	561.0	560.6	555.34
560.8	558.4	558.6	558.0	558.3	558.8	—	—	—	—	—	—	—
—	—	—	—	—	—	561.2	560.8	561.9	562.0	563.0	560.8	556.90
557.7	556.0	557.8	552.2	547.1	548.6	546.1	552.2	552.3	553.9	559.7	560.0	552.57
555.8	554.4	549.1	555.8	555.2	556.4	555.3	558.8	558.1	558.3	557.5	558.8	553.00
559.2	557.8	553.9	553.5	553.0	553.7	557.5	558.2	559.4	559.6	562.4	560.6	553.21
558.0	559.0	557.0	558.0	556.8	555.8	553.2	555.8	552.8	561.9	566.1	559.2	553.42
567.2	567.5	567.0	566.1	567.7	563.2	563.2	563.0	562.8	564.0	563.3	565.0	559.32
568.1	567.4	566.6	566.0	564.9	563.3	—	—	—	—	—	—	—
—	—	—	—	—	—	332.8	485.8	538.2	510.7	529.0	545.0	542.85
550.9	555.5	558.5	566.2	546.8	550.1	551.3	555.7	556.0	555.0	558.5	559.6	553.35
555.3	555.8	549.3	539.0	552.5	546.1	549.0	548.6	542.1	554.4	557.2	556.0	551.97
546.0	550.9	545.0	541.8	548.0	547.2	550.6	549.3	554.5	555.0	554.7	556.0	550.04
541.8	537.4	533.9	543.2	545.1	550.3	546.6	550.8	544.1	542.2	544.3	546.3	546.00
527.4	527.6	538.8	533.8	526.7	540.3	535.9	546.0	534.0	553.0	529.5	534.9	538.68
543.6	542.7	536.9	539.5	559.9	551.0	—	—	—	—	—	—	—
—	—	—	—	—	—	552.9	552.0	557.5	561.0	562.0	566.4	548.68
571.4	564.7	564.9	565.0	556.0	565.0	567.0	563.6	567.9	569.8	572.5	569.9	562.79
569.0	574.3	571.9	575.9	579.1	574.4	569.1	571.8	570.6	573.4	571.5	572.0	569.45
572.2	566.1	568.3	567.8	568.6	571.3	569.1	573.7	576.0	572.9	574.0	575.5	571.17
568.5	568.0	566.0	567.8	567.8	567.9	—	570.9	570.0	569.1	550.0	530.0	566.02
553.93	553.96	552.78	553.86	553.20	554.50	545.25	553.12	554.83	555.20	555.82	555.94	552.37

TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
57.6	57.2	56.9	56.2	55.6	55.3	55.0	54.2	53.6	53.0	52.5	52.3	54.67
58.4	58.5	58.4	58.4	58.4	58.4	58.2	—	58.0 <sup>b</sup>	58.0	57.8	57.5	56.53
61.2	61.0	60.5	59.7	59.2	58.8	58.5	58.2	58.0	57.5	57.0	56.7	58.90
59.5	59.4	59.2	58.5	58.2	57.5	57.2	57.0	56.6	56.2	56.2	55.9	57.78
56.0	56.0	56.0	55.6	55.5	55.3	—	—	—	—	—	—	—
—	—	—	—	—	—	54.0	53.6	53.2	52.8	52.4	52.0	54.97
54.3	53.8	53.4	52.6	52.3	52.0	51.6	51.0	50.5	50.2	50.0	49.0	51.86
58.3	57.9	57.9	57.5	57.0	57.0	57.0	57.0	56.3	56.0	55.8	56.4	54.50
62.5	62.6	62.0	61.3	60.5	59.5	59.2	59.0	59.0	58.5	58.0	57.5	59.64
58.5	57.8	57.5	57.0	56.5	56.0	55.5	55.2	54.6	54.5	54.0	53.4	56.86
58.1	57.2	56.6	56.2	55.6	55.3	54.4	54.0	53.0	52.5	51.8	51.5	54.85
57.4	56.6	56.2	56.0	56.2	56.2	—	—	—	—	—	—	—
—	—	—	—	—	—	54.0	54.0	54.0	54.0	54.0	54.1	54.73
55.7	56.0	56.3	56.4	56.2	56.1	56.1	56.3	56.5	56.2	55.9	55.6	55.33
56.5	56.0	55.8	55.2	55.0	54.8	54.5	54.5	54.2	54.0	53.5	53.4	55.56
55.2	54.8	54.7	54.5	54.5	54.2	54.0	53.8	53.6	53.6	54.1	54.0	54.23
53.5	53.6	54.0	53.8	53.8	53.6	53.7	53.5	53.2	53.2	53.0	52.7	53.36
52.1	52.0	52.0	52.0	52.2	52.5	53.0	53.0	53.0	52.5	52.1	51.5	52.06
50.6	50.0	49.5	49.0	48.8	48.4	—	—	—	—	—	—	—
—	—	—	—	—	—	45.0	44.4	45.5	45.0	45.0	45.0	49.06
50.2	50.2	50.3	50.5	50.6	50.7	50.5	50.3	50.0	50.0	50.0	50.0	48.96
55.5	55.0	54.3	53.8	53.5	53.0	52.7	52.4	52.2	52.0	52.0	51.8	52.77
56.4	56.5	56.3	56.1	56.2	56.5	56.5	56.0	55.0	54.6	54.6	54.3	54.17
58.6	58.0	57.8	57.0	56.5	56.9	57.0	57.0	56.8	56.8	56.6	56.5	56.87
59.0	58.8	58.5	58.0	57.8	57.5	57.2	56.9	56.5	56.0	55.8	55.6	57.58
55.7	55.7	55.5	55.5	55.0	55.0	—	—	—	—	—	—	—
—	—	—	—	—	—	46.0	46.0	46.0	45.5	45.5	45.2	52.89
44.0	43.6	43.5	43.5	43.4	43.4	43.4	43.2	43.0	43.0	43.2	43.0	43.98
43.3	43.6	44.0	44.1	44.1	43.6	43.8	44.0	44.0	43.8	43.5	43.5	42.98
45.9	45.6	45.9	46.1	46.2	46.2	45.8	45.5	45.5	45.0	45.0	44.5	45.19
50.1	49.5	49.0	48.2	47.5	47.0	—	46.5	46.5	46.0	45.7	45.2	47.10
54.97	54.70	54.52	54.17	53.94	53.73	53.22	52.56	52.53	52.24	52.04	51.78	53.25

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the Magnetic moment of the Bar for 1° Fah°. = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
NOVEMBER.	1	574.0	571.8	572.8	568.9	569.2	568.3	570.5	554.9	563.1	569.7	570.0	562.4
	2	569.9	565.6	564.8	562.1	566.5	558.0	569.5	557.6	560.6	572.8	560.5	543.5
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	569.7	564.7	569.9	557.8	552.2	553.9	558.0	557.7	560.4	555.6	550.7	561.0
	5	565.6	565.8	562.5	558.5	556.9	557.1	556.7	560.8	563.4	566.2	566.0	568.0
	6	564.5	565.0	564.8	562.0	561.0	558.5	554.8	559.5	568.7	565.9	567.9	565.5
	7	565.9	561.5	556.6	556.9	556.7	556.6	554.4	557.8	561.4	562.9	562.9	560.7
	8	564.5	564.5	559.0	553.8	551.8	553.0	554.9	561.1	565.6	565.3	564.6	567.0
	9	570.8	568.3	563.6	558.2	555.1	556.4	562.4	568.0	574.0	579.5	578.0	573.9
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	561.4	576.9	571.0	572.5	568.5	556.6	561.8	562.0	569.5	560.9	556.2	556.9
	12	566.0	567.0	565.0	560.0	545.5	543.0	558.8	565.5	563.0	561.2	563.0	559.7
	13	565.0	564.6	560.1	557.0	555.5	552.9	553.9	555.5	558.0	563.6	563.0	562.6
	14	571.9	577.8	572.6	568.4	562.0	557.9	561.2	561.8	566.4	569.9	570.2	570.3
	15	573.5	573.3	570.0	565.2	561.6	561.2	561.5	565.0	567.0	572.4	576.0	578.5
	16	552.5	536.5	565.0	543.5	510.0	541.9	512.8	519.8	530.3	544.0	547.7	546.7
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	557.0	572.9	567.0	568.0	561.0	557.2	559.0	564.2	558.8	555.9	539.0	557.7
	19	555.9	578.0	563.7	556.8	551.7	554.1	558.0	559.0	564.8	563.0	563.0	564.8
	20	570.9	570.0	571.5	565.3	560.5	559.0	559.3	563.0	570.2	567.9	563.6	566.0
	21	570.0	569.5	568.3	561.6	560.5	560.9	561.3	562.9	563.4	566.6	568.2	564.8
	22	575.6	575.5	567.0	565.0	562.7	555.0	540.9	546.3	538.5	550.2	557.2	534.6
	23	548.6	560.7	557.7	554.8	549.1	545.0	548.1	537.0	554.9	561.0	555.9	559.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	580.2	584.7	584.0	580.4	574.8	572.6	572.7	573.7	581.5	584.0	585.1	583.4
	26	585.5	583.9	583.2	581.2	580.0	577.9	576.0	578.3	581.6	584.4 <sup>b</sup>	586.1	585.4
	27	584.7	583.0	587.9	584.4	580.5	577.1	575.7	579.0	583.4	589.4	592.0	584.7
	28	592.8	587.6	584.2	592.5	586.8	573.0	573.6	574.0	579.6	583.6	587.1	583.4
	29	584.5	585.3	583.0	579.5	569.8	571.8	568.0	568.2	571.4	573.6	578.6	578.6
	30	572.9	573.2	571.3	568.4	565.0	561.5	560.8	562.1	565.1	571.0	574.5	576.5
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	569.76	571.06	569.48	565.49	560.57	559.25	559.41	560.57	564.79	567.71	567.19	566.02	

TEMPERATURE OF THE BIFILAR MAGNET.													
NOVEMBER.	1	45.0	44.6	44.2	44.8	46.0	47.1	48.4	49.4	49.8	50.0	50.0	50.0
	2	49.4	49.7	49.7	50.4	50.8	51.5	52.1	52.5	52.9	53.5	54.2	54.4
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	49.3	49.2	49.0	49.0	49.0	49.5	50.0	50.4	50.5	51.0	51.0	50.5
	5	49.0	48.7	48.7	49.0	49.7	50.0	50.3	51.3	51.6	52.5	53.0	52.6
	6	49.5	49.0	49.0	49.5	50.0	50.0	50.0	50.4	50.6	51.5	52.6	52.7
	7	49.8	49.7	49.7	49.8	50.6	51.5	52.5	53.5	53.9	53.9	53.9	54.0
	8	51.3	51.0	50.3	50.5	50.7	50.8	50.9	51.0	51.0	51.0	50.9	50.8
	9	47.6	47.5	47.0	47.0	47.0	47.4	47.6	48.3	48.5	48.5	50.0	49.6
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	47.6	47.6	47.5	47.4	47.5	48.0	48.2	48.6	49.0	49.0	49.0	49.5
	12	49.6	49.5	49.5	49.2	49.4	50.0	50.5	50.8	51.0	51.4	51.8	51.8
	13	51.2	50.2	50.0	50.2	50.0	49.8	49.4	49.0	49.0	49.0	49.4	49.5
	14	45.1	45.0	45.0	45.4	46.0	46.5	46.9	47.2	47.2	48.1	48.4	48.2
	15	47.0	47.0	47.0	47.2	47.2	47.4	47.0	47.5	47.9	48.3	48.4	48.8
	16	46.7	46.7	46.2	46.7	47.4	48.4	49.4	50.0	50.3	51.0	51.4	51.0
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	44.7	44.5	44.5	44.2	44.5	44.6	45.0	45.4	45.4	45.4	45.4	45.2
	19	42.8	42.6	42.6	42.8	43.0	43.4	43.5	43.7	44.2	44.2	44.8	45.5
	20	44.3	44.6	44.8	44.6	45.0	46.0	46.5	47.2	48.0	49.0	49.6	49.5
	21	45.0	44.8	44.8	45.1	46.2	47.1	47.9	48.8	49.2	49.6	49.9	50.0
	22	47.8	47.2	47.5	47.5	48.0	48.5	49.0	49.2	49.1	49.4	49.5	49.0
	23	49.8	49.8	49.6	49.6	49.2	49.5	49.6	50.0	50.0	50.4	50.5	50.2
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	36.4	37.0	36.2	36.4	36.8	36.7	37.2	38.4	37.8	38.9	38.9	39.0
	26	37.9	38.0	37.6	37.0	37.0	37.4	37.7	38.2	38.4	39.2 <sup>b</sup>	39.6	39.6
	27	38.8	38.8	38.2	37.8	38.5	39.0	39.5	40.1	40.3	41.0	41.0	41.2
	28	36.7	37.1	37.2	37.0	37.0	37.3	37.0	38.2	38.6	38.2	38.2	39.0
	29	40.0	40.0	40.0	40.0	41.6	42.0	42.4	43.4	43.7	44.3	44.6	44.5
	30	48.6	48.2	47.5	47.5	47.7	48.2	48.2	48.4	48.6	49.0	49.0	49.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	45.80	45.69	45.51	45.60	45.99	46.45	46.80	47.34	47.56	48.00	48.29	48.27	

<sup>b</sup> Seven minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.      Change in the Magnetic moment of the Bar for 1° Fah. = '000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
567.5	565.8	565.4	570.7	570.0	574.0	568.0	563.5	563.3	565.5	556.0	563.6	567.04
555.5	560.4	540.3	558.5	557.7	549.0	—	—	—	—	—	—	—
—	—	—	—	—	—	560.6	552.3	562.0	565.6	565.1	566.2	560.19
564.4	546.3	563.0	565.5	566.1	564.6	563.4	565.1	563.4	562.8	566.4	565.9	561.19
563.8	565.7	562.5	555.8	567.7	555.9	563.0	568.1	566.8	566.8	566.7	567.0	563.22
566.0	565.2	566.0	564.9	564.0	563.3	565.1	562.2	563.5	565.5	565.6	567.0	564.02
564.0	564.4	563.3	563.0	562.3	561.0	561.0	561.0	564.4	563.7	566.2	567.9	561.52
567.8	566.0	566.2	566.2	566.2	566.8	566.9	567.5	566.7	569.0	570.3	569.8	563.94
567.1	571.0	571.8	572.6	570.8	572.0	—	—	—	—	—	—	—
—	—	—	—	—	—	568.2	565.8	565.2	561.3	563.9	570.5	567.85
555.5	549.0	544.9	554.4	556.6	557.6	557.8	560.9	560.6	561.9	563.0	565.5	560.91
560.9	550.2	559.0	555.6	556.5	558.0	550.6	560.0	557.7	556.3	557.5	563.1	558.59
558.0	555.7	563.0	561.0	560.1	559.8	562.0	564.6	556.4	570.2	574.8	575.5	561.37
571.0	571.0	570.7	568.9	568.4	568.9	566.2	567.5	567.8	570.6	569.8	574.5	568.57
575.0	576.2	575.1	571.3	575.6	575.2	576.2	570.3	562.3	534.8	562.1	562.0	568.39
542.0	537.5	531.1	535.9	539.8	538.7	—	—	—	—	—	—	—
—	—	—	—	—	—	557.3	569.7	564.6	565.9	563.2	557.0	543.89
568.7	565.7	565.0	561.8	558.3	558.7	558.3	556.5	570.5	564.7	567.5	560.6	561.39
565.5	558.4	567.9	568.0	569.0	568.0	566.5	567.6	568.0	568.6	569.0	571.2	564.19
564.8	562.5	561.5	562.6	563.2	563.2	566.0	569.7	568.0	564.2	565.6	568.5	565.29
567.2	565.5	564.1	569.6	562.6	558.3	564.0	563.2	564.0	559.6	528.7	552.5	562.39
535.6	539.3	535.6	542.5	565.0	554.7	551.8	548.6	543.0	539.0	557.5	563.1	551.84
559.9	561.4	560.1	561.1	561.4	555.2	—	—	—	—	—	—	—
—	—	—	—	—	—	578.1	580.0	578.0	582.0	581.9	583.8	561.48
584.0	581.9	580.8	576.0	576.0	579.0	580.0	580.0	581.2	581.7	589.0	583.8	580.44
585.4	582.0	583.4	579.4	577.7	579.6	578.7	578.7	579.0	580.0	578.6	582.2	581.17
580.4	571.6	570.3	573.6	573.2	568.8	568.0	566.0	565.8	576.0	574.4	570.4	577.64
583.9	578.9	582.0	571.2	578.1	576.5	579.0	574.5	575.0	575.2	582.5	584.5	580.81
580.3	577.5	574.8	575.6	576.1	575.0	574.0	575.0	574.4	574.6	575.0	574.7	575.80
574.6	569.5	570.0	572.0	571.8	571.2	—	—	—	—	—	—	—
—	—	—	—	—	—	574.9	575.7	576.0	571.2	571.3	574.4	570.62
566.49	563.79	563.76	564.64	565.93	564.35	566.37	566.69	566.45	566.03	567.48	569.41	565.53
TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
50.5	50.5	50.5	50.5	50.2	50.0	50.0	50.0	49.8	49.8	49.9	49.9	48.79
54.0	53.7	53.3	53.0	52.7	52.5	—	—	—	—	—	—	—
—	—	—	—	—	—	48.6	48.8	49.4	49.6	49.6	49.4	51.49
50.5	50.5	50.5	50.4	50.6	50.6	50.6	50.5	50.2	49.8	49.4	49.2	50.05
52.2	52.0	52.0	51.4	50.7	50.6	50.4	50.2	50.0	49.8	49.8	49.5	50.63
52.5	52.0	52.0	51.4	51.0	50.4	50.0	49.6	49.5	49.5	49.5	49.6	50.49
53.7	53.6	53.4	53.4	53.4	53.2	53.0	52.7	52.6	52.6	52.6	52.5	52.48
50.8	50.8	50.4	50.2	49.8	49.8	49.5	49.2	49.1	48.7	48.5	47.7	50.20
49.5	49.2	48.8	48.5	48.2	48.2	—	—	—	—	—	—	—
—	—	—	—	—	—	46.5	46.6	47.0	47.0	47.0	47.4	47.91
49.4	49.4	49.6	49.6	49.5	49.6	49.5	49.7	49.9	50.1	50.1	50.1	48.97
51.8	51.8	51.9	52.0	52.0	52.2	52.2	52.0	52.0	51.5	51.3	51.2	51.10
49.2	48.9	48.7	48.0	48.0	47.5	47.3	47.2	46.5	46.2	46.2	45.6	48.58
48.5	48.7	48.5	48.2	47.8	47.4	47.2	47.0	46.9	46.5	46.4	47.0	47.05
49.0	49.2	49.2	48.4	48.0	48.0	47.8	47.1	47.0	47.0	47.0	46.7	47.71
51.0	50.6	50.2	49.9	49.6	49.4	—	—	—	—	—	—	—
—	—	—	—	—	—	46.6	46.5	46.0	45.8	45.5	45.0	48.39
44.8	44.5	44.0	44.0	44.0	44.0	44.2	44.0	44.0	44.0	42.8	43.0	44.42
45.3	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.9	44.5	44.33
49.5	49.0	49.0	48.7	48.2	47.6	47.4	47.2	46.5	46.4	46.1	45.5	47.09
49.6	49.6	49.0	48.5	48.2	48.2	47.9	47.6	47.9	47.8	47.8	47.8	47.85
49.0	49.0	49.3	49.5	49.5	49.5	49.6	49.7	49.8	49.8	49.8	49.8	49.00
50.1	49.7	49.0	48.7	48.2	47.6	—	—	—	—	—	—	—
—	—	—	—	—	—	37.0	37.0	37.0	37.0	37.0	36.5	46.37
39.0	39.0	39.4	39.1	38.9	38.7	38.5	38.3	37.8	37.7	37.8	37.8	37.99
40.1	40.6	41.0	40.8	40.4	40.4	39.8	39.2	39.2	39.2	39.2	38.7	39.01
40.6	39.5	40.0	39.2	38.4	39.0	38.8	38.2	37.8	37.2	37.0	36.6	39.02
39.0	39.5	38.6	38.0	37.6	37.6	37.8	38.4	38.5	38.8	39.0	39.2	38.06
44.8	45.0	45.2	45.5	46.0	46.5	47.0	47.0	47.0	47.5	47.4	48.5	44.33
49.0	49.0	48.8	49.0	49.5	50.0	—	—	—	—	—	—	—
—	—	—	—	—	—	44.8	44.5	44.0	43.8	43.5	43.4	47.47
48.21	48.09	47.97	47.73	47.52	47.44	46.42	46.28	46.17	46.08	45.97	45.85	46.88

Three minutes late.

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
DECEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	579.1	576.6	578.4	577.5	572.2	565.5	559.7	569.7	576.5	579.2	579.9	579.4
	3	578.1	578.0	576.7	576.5	575.0	572.0	571.0	571.6	573.3	577.9	578.0	575.0
	4	587.7	580.9	580.3	587.0	583.0	580.6	570.5	572.0	565.6	567.8	570.5	564.6
	5	572.5	572.0	573.0	570.6	571.4	568.5	569.6	571.3	572.1	570.9	575.9	576.5
	6	572.4	571.5	572.1	570.7	569.4	569.1	568.8	566.5	569.8	571.9	576.8	576.4
	7	574.6	574.2	572.9	573.0	573.0	565.8	562.8	562.7	564.7	569.1	572.0	571.0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	587.2	586.2	585.2	586.2	587.0	586.0	586.7	586.0	590.2	591.0	590.1	589.6
	10	585.8	583.1	581.8	578.1	572.8	574.5 <sup>a</sup>	576.4	581.7	582.4	585.0	584.5	582.8
	11	589.5	587.5	583.0	583.5	587.6	587.7	584.6	581.8	582.3	580.9	583.4	583.8
	12	585.6	583.0	582.8	580.8	574.0	571.9	572.6	577.0	583.4	583.2 <sup>b</sup>	583.0	579.9
	13	579.9	579.8	576.4	576.3	572.4	574.0	569.0	570.5	572.8	576.3	579.6	580.1
	14	583.8	584.8	583.3	581.3	572.8	565.5	547.5	556.5	566.5	566.5	572.0	575.4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	585.4	586.2	586.2	585.5	579.5	554.5	563.5	569.6	575.0	574.0	580.0	583.6
	17	586.7	588.5	588.0	586.7	584.0	580.3	581.5	579.0	577.6	581.3	587.4	588.7
	18	591.0	591.7	592.8	592.6	591.7	588.8	586.1	584.8	589.0	591.5	594.7	594.0
	19	585.9	590.4	589.0	586.9	574.5	571.6	572.3	583.5	580.8	580.5	585.0	566.3
	20	592.0	578.5	581.9	580.9	571.2	572.4	571.8	580.1	577.8	558.8	582.5	585.8
	21	600.3	597.6	595.3	588.4	554.5	572.0	578.5	580.3	582.5	583.8	582.7	580.8 <sup>c</sup>
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	584.5	584.8	582.5	581.0	577.0	575.8	577.0	577.0	578.8	578.4	580.5	584.1
	24	585.8	585.0	587.4	586.2	580.9	579.1	578.1	579.7	581.2	583.6	582.9	581.1
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	568.0	583.5	582.4	583.2	576.8	563.7	569.7	569.7	566.0	566.0	577.7	578.1
	27	581.1	582.2	582.7	577.5	575.2	567.3	570.5	575.9	582.2	585.5	584.5	583.5
	28	584.9	580.7	576.7	581.6	578.0	569.5	570.5	576.5	584.0	588.4	591.0	589.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	573.2	575.4	565.8	565.3	560.9	562.5 <sup>f</sup>	551.6	552.2	565.3	571.6	563.2	574.5
	31	569.8	574.9	564.5	557.2	549.1	553.9	555.9	557.0	563.4	574.8	576.2	570.6
Hourly Means	582.59	582.28	580.84	579.78	574.56	571.70	570.65	573.30	576.13	577.52	580.56	579.78	
TEMPERATURE OF THE BIFILAR MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
DECEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	43.2	43.0	43.0	43.6	43.8	43.9	44.4	45.2	46.2	47.2	47.5	47.0
	3	44.0	43.7	43.7	44.0	44.6	45.5	46.4	47.0	47.4	47.9	48.0	47.0
	4	45.4	45.6	45.6	45.6	46.5	47.0	47.5	47.6	47.8	47.3	47.8	47.8
	5	46.5	46.4	46.4	46.4	45.8	46.4	46.3	46.7	46.7	46.4	46.2	46.0
	6	47.0	46.6	46.8	46.0	45.9	46.4	46.8	46.8	46.5	47.0	47.0	46.7
	7	48.6	49.0	49.2	49.5	50.8	51.2	51.2	51.5	51.0	50.5	49.7	49.0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	37.0	37.0	37.0	37.2	38.0	38.5	39.5	40.6	41.8	43.0	44.0	43.6
	10	42.0	42.2	41.5	41.0	41.0	41.5 <sup>a</sup>	42.0	42.0	42.6	42.6	42.8	43.0
	11	42.5	43.0	43.0	42.6	42.8	41.1	43.1	43.8	44.2	44.6	45.2	45.0
	12	43.8	43.8	43.4	42.8	42.7	43.4	43.8	44.4	45.0	46.0 <sup>b</sup>	46.5	46.5
	13	46.6	46.5	46.3	45.8	45.6	45.5	45.7	46.5	46.1	46.5	47.0	46.6
	14	46.6	46.3	46.0	45.7	46.0	46.0	46.0	46.5	46.5	46.9	47.0	46.5
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	37.5	37.2	37.0	37.0	37.0	37.2	37.5	38.0	38.7	39.8	39.8	39.5
	17	36.0	35.8	35.5	35.5	35.6	36.4	36.8	37.7	38.4	38.8	39.2	39.0
	18	34.4	33.7	33.4	33.2	33.4	34.4	34.8	35.0	35.4	36.0	37.0	37.5
	19	41.2	41.6	41.8	41.3	41.0	41.0	40.8	41.8	41.8	41.6	41.5	40.7
	20	36.8	36.4	35.8	35.6	36.0	36.7	37.4	37.0	37.0	37.8	37.8	36.5
	21	36.0	35.7	35.8	36.5	36.5	36.0	36.5	36.7	37.0	38.6	39.0	39.7 <sup>c</sup>
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	41.5	41.4	41.0	41.2	40.6	41.0	40.6	40.8	41.0	40.0	39.0	39.2
	24	40.8	41.0	41.0	40.4	40.2	40.4	41.6	42.5	42.6	43.0	43.0	44.1
	25 <sup>d</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	43.6	43.6	44.4	44.6	44.6	45.2	45.7	46.5	46.5	47.2	47.5	47.0
	27	41.8	41.2	40.4	39.8	39.5	39.7	40.0	40.5	41.2	41.7	42.2	41.7
	28	37.0	37.0	36.4	36.2	36.7	37.6	38.5	40.0	40.5	41.0	41.4	41.3
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	38.7	39.5	40.0	40.8	41.4	41.4 <sup>f</sup>	41.8	42.0	42.0	42.0	42.6	42.5
	31	42.5	42.8	42.8	43.0	43.0	43.3	43.5	43.5	43.5	44.0	44.5	43.8
Hourly Means	41.64	41.60	41.49	41.41	41.56	41.95	42.33	42.82	43.10	43.50	43.73	43.49	

<sup>a</sup> Ten minutes late.

<sup>b</sup> Four minutes late.

<sup>c</sup> Three minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = '000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Scs. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
576·8	577·4	575·0	568·0	573·6	573·7	574·0	572·8	573·0	576·2	576·5	575·7	574·43
576·0	573·7	575·2	576·7	576·2	573·7	574·2	573·8	575·7	575·3	576·0	582·4	575·50
564·2	569·2	568·2	554·7	557·0	554·0	561·0	567·0	568·0	567·3	566·1	570·0	569·88
575·4	572·8	573·6	575·0	573·0	573·0	572·3	572·0	573·0	573·0	573·0	572·7	572·63
575·7	574·9	576·0	574·5	573·0	574·0	572·5	572·6	573·0	572·4	573·8	574·2	572·58
573·0	574·0	572·5	570·8	572·7	572·4	—	—	—	—	—	—	—
—	—	—	—	—	—	586·9	587·2	586·8	587·7	587·2	588·0	574·79
588·0	587·8	583·0	575·8	564·5	570·2	566·0	572·8	571·6	576·0	578·0	578·3	581·91
582·0	582·8	581·3	580·0	580·3	580·5	481·1	582·1	585·0	582·6	585·0	587·5	581·63
583·6	581·2	579·7	576·0	577·6	579·3	579·5	578·8	582·0	581·0	585·5	584·6	582·68
578·9	577·6	575·6	573·5	570·1	568·8	572·3	575·0	572·6	572·9	577·0	579·6	577·13
579·5	578·0	577·0	575·8	574·0	574·7	574·6	576·2	578·6	579·0	579·7	581·8	576·50
568·0	560·7	558·6	565·9	545·5	552·9	—	—	—	—	—	—	—
—	—	—	—	—	—	573·4	567·2	564·7	574·3	577·0	581·7	568·58
580·8	586·8	583·2	581·2	580·8	579·8	582·3	581·3	582·6	581·7	584·7	587·0	579·80
589·3	587·6	587·6	584·9	583·4	584·6	582·8	579·0	573·8	576·8	575·6	590·0	583·55
586·5	589·0	593·4	587·6	587·5	584·0	585·8	583·6	590·2	583·7	578·9	584·9	588·49
578·5	579·5	579·2	578·0	578·7	579·1	570·4	578·8	578·8	579·8	584·0	588·6	580·00
584·8	571·6	579·9	575·0	576·1	576·2	582·9	580·8	583·2	584·0	585·7	577·4	578·80
587·3	587·3	584·9	582·7	580·8	580·0	—	—	—	—	—	—	—
—	—	—	—	—	—	580·0	580·5	579·1	580·5	583·4	583·5	582·78
581·8	582·1	582·8	583·1	580·2	582·2	584·4	582·8	584·2	585·6	586·0	586·4	581·79
580·7	581·0	179·9	577·5	578·0	578·0	—	—	—	—	—	—	—
—	—	—	—	—	—	580·5*	580·0	580·9	578·0	573·5	577·5	580·69
578·7	578·1	578·6	578·0	574·8	567·3	558·4	567·4	670·0	574·8	578·0	578·6	573·65
580·0	582·0	575·6	576·0	577·6	582·3	581·0	579·2	580·3	582·4	583·6	582·5	579·61
587·6	587·8	585·0	586·8	585·1	585·0	—	—	—	—	—	—	—
—	—	—	—	—	—	573·8	575·4	568·6	570·0	571·0	570·2	579·88
566·8	572·5	568·5	566·0	571·5	682·0	578·0	569·1	570·8	573·1	566·4	560·3	567·77
575·6	575·0	576·7	571·5	569·3	574·2	572·4	567·4	570·2	572·5	573·6	576·0	568·40
579·16	578·82	578·04	575·80	574·45	575·28	576·02	576·11	576·67	577·62	578·37	579·98	577·33

TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
46·7	46·5	46·0	45·4	45·2	46·0	45·2	45·2	45·0	44·7	44·6	44·4	45·12
47·0	57·4	47·0	46·0	45·8	45·6	46·0	46·0	45·5	45·3	45·4	45·3	45·90
47·6	47·8	47·6	47·0	47·0	47·0	47·0	46·5	46·5	46·6	46·6	46·6	46·89
46·0	46·0	45·8	45·8	46·3	46·7	47·0	47·0	47·0	47·0	47·0	47·0	46·45
46·5	46·2	46·2	46·7	47·4	47·5	47·9	47·9	48·0	48·0	48·0	48·4	47·01
49·0	48·6	48·3	47·4	46·3	45·6	—	—	—	—	—	—	—
—	—	—	—	—	—	36·6	36·8	37·0	37·4	37·6	37·2	46·22
43·4	43·4	43·0	42·4	42·4	42·6	42·6	42·0	41·7	41·5	41·7	41·7	41·07
42·6	42·2	42·2	41·8	41·4	41·5	41·5	41·4	41·3	41·4	41·7	42·0	41·88
45·0	44·5	44·4	44·1	44·0	43·7	43·8	44·0	44·0	44·0	44·5	44·5	43·89
46·2	46·0	45·8	45·6	45·6	46·2	46·4	46·4	46·9	46·9	46·4	46·4	45·29
47·2	47·2	47·0	46·6	46·2	46·4	46·2	46·6	46·8	47·0	47·0	46·8	46·49
46·4	46·0	45·7	45·2	45·0	45·2	—	—	—	—	—	—	—
—	—	—	—	—	—	38·0	37·8	37·6	37·7	37·8	37·7	44·00
39·0	38·4	38·1	37·8	37·2	37·0	36·8	36·5	36·5	36·4	36·4	36·4	37·61
38·8	38·4	38·0	37·3	37·0	37·2	37·2	36·8	36·4	36·0	35·5	35·0	37·01
39·0	39·2	40·0	40·7	41·5	40·8	41·0	40·8	40·8	41·0	41·2	41·0	37·72
40·5	40·4	39·9	38·0	38·6	38·8	38·6	38·4	37·6	37·2	37·2	37·0	39·93
36·5	36·7	36·0	36·4	36·4	36·6	37·2	36·9	37·4	37·3	37·0	36·0	36·72
40·3	40·6	40·6	40·5	40·5	40·4	—	—	—	—	—	—	—
—	—	—	—	—	—	40·3	40·3	40·3	40·7	41·0	41·5	38·79
39·0	38·2	38·0	37·8	38·0	38·7	38·8	39·4	39·8	40·2	40·5	40·6	39·85
44·4	44·4	44·3	44·4	44·4	44·4	—	—	—	—	—	—	—
—	—	—	—	—	—	42·2*	42·5	42·7	43·1	43·5	43·7	42·69
46·5	46·0	45·3	44·9	44·5	44·5	44·5	44·7	44·0	44·0	43·0	42·4	45·03
42·0	41·8	41·6	41·2	41·2	39·8	39·0	38·8	37·8	37·8	37·6	37·4	40·24
41·3	41·0	41·0	41·0	40·5	40·3	—	—	—	—	—	—	—
—	—	—	—	—	—	36·6	36·8	36·6	36·6	37·2	37·9	38·77
42·9	43·0	43·0	42·6	42·8	42·6	42·2	42·4	42·4	42·6	42·8	42·8	41·95
43·6	43·6	43·7	43·8	43·6	43·6	43·5	43·5	43·2	43·5	43·6	44·0	43·47
43·50	43·34	43·14	42·82	42·75	42·75	41·84	41·82	41·71	41·76	41·79	41·75	42·40

\* Christmas-day.

\* Twelve minutes late.

\* Seven minutes late.

VERTICAL FORCE.													
One Scale Division = '000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
FEBRUARY.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	
	8 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	130·5
	9	131·6	133·4	137·7	132·2	132·5	136·8	139·0	137·7	138·9 <sup>b</sup>	138·8	137·5	137·6
	10	139·0	139·0	139·0	139·0	138·6	137·1	137·2	135·7	135·1	134·9	136·1	136·4
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	135·7	137·2	138·2	133·7	133·5	131·9	130·8 <sup>b</sup>	129·3	128·7	127·5	125·9	125·8
	13	128·3	128·2	128·3	127·0	125·3	124·2	123·1	123·1	122·2	122·3	121·8	123·2
	14	125·7	125·7	127·6	126·8	126·9	126·1	125·1	124·5	124·4	124·0	122·5	122·4
	15	128·7	128·1	129·3	128·4	127·5	127·5	127·5	126·2	126·8	126·7 <sup>c</sup>	126·7	126·7
	16	124·2	124·2	124·8	124·3	122·8	121·6	121·6	120·7	121·2	121·2	120·7	120·6
	17	127·3	126·4	127·5	125·7	124·3	124·3	124·9	126·0	126·1	126·6	126·3	128·0
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	139·5	138·4	136·0	125·4	128·4	127·9	127·7	127·8	127·3	126·1	123·7	121·8
	20	125·0	126·5	125·3	123·0	120·3	119·6	118·9	118·9	118·4	117·7	116·2	114·6
	21	117·1	116·7	117·3	106·4	111·6	111·5	111·9	112·3	112·3	112·3	111·0	110·4
	22	116·2	117·6	115·9	114·0	112·7	110·5 <sup>c</sup>	111·4	112·2	112·2	110·4	109·2	108·8
	23	115·8	117·5	119·4	120·2	120·2	120·2	120·2	122·5	123·4	123·7	123·3	123·3
	24	122·1	123·3	126·9	124·8	124·8	123·8	123·6	122·0	121·9	121·4	121·9	121·7
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	134·1	135·1	134·3	131·4	128·7	129·0	125·1	125·1	125·3	125·0	125·2	125·2
	27	125·4	125·4	127·7	124·4	124·8	124·8	124·8	125·7	126·4	126·7	126·7	125·9
	28	128·5	127·9	127·2	124·5	121·1	119·7	118·9	119·5	122·8	124·2	124·5	131·3
	29	124·1	123·4	124·4	123·5	122·4	122·2	122·4	121·1	120·7	119·9	120·4	121·6
Hourly Means	127·13	127·45	128·15	125·26	124·80	124·21	124·12	123·91	124·12	123·86	123·31	123·63	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
FEBRUARY.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	—	—	—	—	—	—	—	—	—	—	—	
	6	—	—	—	—	—	—	—	—	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	
	8 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	43·6
	9	39·2	39·2	39·1	38·6	38·0	38·0	37·9	37·6	37·7 <sup>b</sup>	38·1	38·2	38·2
	10	37·6	37·6	37·3	37·4	37·7	38·1	38·4	39·0	39·8	40·0	40·0	40·2
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	38·4	38·4	38·3	40·0	39·9	40·5	41·6 <sup>b</sup>	42·1	42·6	43·4	43·9	44·2
	13	43·1	43·3	43·2	43·2	43·4	44·0	45·1	45·4	45·4	45·8	46·0	45·8
	14	43·8	43·8	43·5	43·5	43·2	43·4	43·6	43·9	44·4	44·7	45·1	85·2
	15	41·5	41·5	41·5	41·2	41·5	42·1	42·6	42·9	43·3	43·3 <sup>c</sup>	43·4	43·6
	16	44·8	44·8	44·8	44·8	45·0	45·6	46·0	46·5	46·5	46·5	46·8	47·0
	17	43·5	43·5	42·8	42·8	43·1	43·2	43·2	43·4	43·6	43·7	43·7	42·6
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	36·6	36·6	38·0	40·5	39·9	40·1	40·7	41·4	42·2	43·2	44·0	45·0
	20	43·4	43·4	43·6	44·6	46·0	46·6	47·3	47·8	48·0	48·5	48·9	49·1
	21	47·8	47·8	48·2	52·0	48·7	49·0	49·2	49·3	49·5	49·9	50·3	50·7
	22	48·3	48·1	48·1	48·7	49·1	49·4 <sup>c</sup>	49·6	49·6	50·3	51·1	51·8	52·1
	23	48·4	48·0	47·4	47·2	46·9	46·9	46·6	46·2	45·8	45·6	45·3	45·5
	24	44·6	43·9	43·1	44·0	43·6	44·1	44·4	44·6	44·8	45·0	45·3	45·2
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	39·0	39·1	39·1	40·0	40·6	41·9	42·9	43·6	43·9	44·1	44·3	43·9
	27	44·0	43·6	43·4	44·4	43·6	43·6	43·6	43·1	43·3	43·3	43·6	44·2
	28	42·6	42·6	42·9	43·6	44·9	45·9	46·5	46·8	47·1	47·4	48·0	47·4
	29	46·1	46·1	46·2	46·5	46·5	46·9	47·3	47·5	47·6	47·8	47·8	47·9
Hourly Means	42·93	42·85	42·80	43·50	43·42	43·86	44·25	44·48	44·77	45·08	45·35	45·43	

<sup>a</sup> Temperature experiments completed. Magnet adjusted.

<sup>b</sup> Not included in the means.





VERTICAL FORCE.													
One Scale Division = '000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fahr. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	115.4	115.4	116.2	115.6	114.3	113.2	113.2	113.2	113.2	113.2	112.8	
	2	107.0	107.0	106.1	106.1	111.1	109.8	111.2	112.8	112.7	114.8	127.8	
	3	—	—	—	—	—	—	—	—	—	—	—	
	4	131.9	136.5	135.7	133.9	131.2	133.2	131.2	130.9	134.9	133.8	133.8	130.7
	5	130.1	134.1	134.8	136.4	130.9 <sup>a</sup>	126.3	125.8	127.2	130.3	130.2	131.7	136.9
	6	117.9	122.6	121.9	119.0	116.7	117.4	117.7	117.3	117.7	120.2	119.0	120.1
	7	121.8	121.8	119.8	122.1	119.6	120.1	121.1	125.2	120.4	125.1	123.0	123.5
	8	120.8	120.4	120.2	120.5	117.5	116.3	116.3	116.8	116.4	118.0	120.8	120.9
	9	116.4	116.4	118.6	117.7	117.1	117.1	117.9	122.1	121.0	120.5	120.5	121.1
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	127.3	128.4	128.3	125.7	122.3	119.6	118.5	117.5	116.9	117.6	117.6	117.8
	12	119.7	119.2	118.4	118.3	115.2	115.9 <sup>c</sup>	117.4	118.0	119.5	119.2	119.5	119.5
	13	116.0	115.9	117.0	116.2	114.5	112.8	113.9	113.9	113.9	113.9	112.6	113.2
	14	119.5	122.6	122.5	122.2	122.9	119.4 <sup>d</sup>	119.9	120.2	120.5	119.4	119.4	118.2
	15	125.6	127.0	128.0	127.2	126.2	124.8	124.8	124.7	123.4	123.3	123.3 <sup>a</sup>	123.3
	16	118.4	119.9	121.0	121.3	120.5	118.9	118.9	118.4	118.4	118.4	117.5	117.8
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	134.4	133.9	133.4	132.3	130.4	130.2	130.4	130.9	131.7	133.5	136.9	137.7 <sup>a</sup>
	19	134.6	137.6	135.4	134.4	132.9	134.7	134.7	134.5	134.5	134.5	134.5	133.9
	20	132.3	131.4	131.6	131.7	129.2	126.8	125.6	126.1	126.8	126.8	128.8	130.4
	21	127.7	129.4	126.6	125.3	122.6	121.8	122.2	122.9	121.2	122.0	123.5	124.9
	22	128.8	129.8	130.3	129.8	129.3	126.2	125.4	125.4	125.9	124.2	125.4	125.4
	23	133.6	135.0	133.2	131.2	129.5	128.2	127.3	127.3	123.3	123.6	124.3	124.3
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	124.4	124.2	123.2	121.5	119.1	116.9	115.5	116.1	116.9	116.2	114.7	114.7
	26	119.0	119.0	119.2	119.1	117.1	114.6	113.7	112.5	111.1	110.3	110.9	111.1 <sup>a</sup>
	27	116.4	118.4	119.3	119.3	117.5	116.0	117.2	119.5	121.8	123.7	122.0	124.0
	28	119.4	119.1	119.6	118.1	116.4	115.4	116.3	117.5	118.8	118.4	118.0	116.8
	29	110.8	118.2	118.0	116.6	115.0	120.0	119.4	118.0	118.0	121.0	125.7	140.1
	30	94.6	111.5	118.2	123.9	128.6	127.7	128.6	134.8	140.5	143.0	138.8	133.5
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	121.68	123.64	123.71	123.28	121.83	120.90	120.93	121.68	121.91	122.49	123.19	123.90	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
MARCH.	1	49.6	49.6	49.6	49.6	49.5	49.6	49.8	50.0	50.2	50.5	50.6	50.8
	2	50.8	50.8	50.3	49.9	49.7	50.3	50.6	50.8	50.5	50.8	51.5	51.1
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	40.7	40.0	40.0	40.0	40.6	40.9	41.1	42.0	41.8	42.2	42.4	42.8
	5	39.7	39.2	39.0	39.8	40.6 <sup>a</sup>	41.6	42.0	42.6	43.6	44.5	45.1	45.2
	6	45.0	45.0	44.7	45.0	46.6	47.6	48.1	48.4	48.8	48.8	49.0	48.9
	7	46.9	46.6	46.9	47.0	47.4	47.9	48.5	48.8	49.4	49.5	49.8	50.1
	8	47.8	47.6	47.6	47.6	48.0	48.6	48.8	49.2	49.7	50.0	50.4	49.7
	9	50.1	49.5	49.5	49.2	49.2	49.2	49.2	49.4	49.6	49.9	49.8	49.8
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	44.6	44.6	44.6	45.6	46.6	47.6	48.2	49.0	50.0	51.5	52.5	52.6
	12	49.6	49.2	49.0	49.0	49.2	50.0 <sup>c</sup>	50.0	50.2	50.0	50.2	50.8	50.8
	13	50.8	50.8	50.5	50.5	50.8	51.3	51.6	51.8	51.8	51.9	52.1	52.1
	14	48.4	47.4	47.0	46.6	46.6	47.0 <sup>d</sup>	47.4	47.4	47.4	47.8	48.2	48.6
	15	44.6	44.6	44.6	44.6	44.6	44.6	45.0	45.5	45.8	46.0	46.0 <sup>a</sup>	45.7
	16	48.4	48.0	47.8	47.6	47.6	47.6	47.6	48.4	48.4	48.6	48.6	48.6
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	40.8	40.8	40.8	41.0	41.2	41.3	41.4	41.4	41.3	40.6	40.0	39.2 <sup>a</sup>
	19	36.9	36.4	36.4	37.2	37.6	38.2	39.0	39.8	40.0	40.2	40.6	40.6
	20	42.5	42.9	42.6	42.6	43.0	43.7	44.2	44.4	44.4	44.4	44.3	44.1
	21	44.6	44.0	44.9	45.3	45.9	46.2	46.4	46.6	47.0	47.1	47.3	46.8
	22	43.4	42.8	42.8	42.6	43.0	43.6	44.5	45.0	45.2	45.7	46.3	46.6
	23	41.4	41.0	41.7	42.0	42.6	43.2	43.6	44.2	44.4	44.8	45.2	45.5
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	46.0	46.0	46.0	46.6	47.4	47.7	48.0	48.1	48.5	49.2	49.8	50.7
	26	48.2	48.0	48.0	48.5	48.6	49.2	50.2	50.1	51.3	51.8	52.0	52.1 <sup>a</sup>
	27	51.0	49.8	48.6	48.6	48.0	47.6	47.6	47.4	47.0	47.0	46.7	46.6
	28	46.8	47.0	47.6	47.6	47.6	47.6	47.6	47.9	48.3	48.5	48.9	49.4
	29	46.4	45.8	45.6	46.0	46.4	46.6	47.0	47.4	47.6	47.6	47.6	47.6
	30	44.6	44.1	43.6	43.7	43.7	43.7	43.9	44.5	43.9	43.8	43.5	43.4
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	45.75	45.44	45.37	45.53	45.85	46.25	46.59	46.93	47.15	47.42	47.65	47.67	

<sup>a</sup> Two minutes late.

<sup>b</sup> Thirty-eight minutes late.

<sup>c</sup> Three minutes late.

<sup>d</sup> Nine minutes late.

**VERTICAL FORCE.**

One Scale Division = '000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '00007.

12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 113·8	Sc. Div. 113·8	Sc. Div. 114·4	Sc. Div. 114·4	Sc. Div. 114·4	Sc. Div. 114·4	Sc. Div. 114·4	Sc. Div. 114·4	Sc. Div. 112·3	Sc. Div. 109·9	Sc. Div. 105·8	Sc. Div. 107·0	Sc. Div. 113·23
125·8	124·4	118·8	122·8	115·1	120·1	—	—	—	—	—	—	—
—	—	—	—	—	—	130·4	130·5	124·5	121·2	128·5	130·5	118·65
132·3	132·0	132·3	129·4	126·7	127·6	120·5	124·4	126·9	120·8	126·1	125·7	130·10
136·9	135·9	138·8	139·2	139·0	134·7	128·5	127·3	127·4	127·9	126·5	122·9	131·65
122·7	126·3	125·4	124·6	120·1	96·0	85·3	98·4	109·9	114·5	115·0	121·8	116·16
121·9	123·2	120·2	115·9	107·8	112·2	101·2	104·0	104·5	105·4	112·4	118·8	117·13
119·1	118·6	114·8	113·1	115·7	112·2	110·1	109·4	114·3	113·5	114·3	114·3	116·43
121·4	121·7	122·7	121·9	122·0	118·0	—	—	—	—	—	—	—
—	—	—	—	—	—	122·4 <sup>b</sup>	119·2	125·5	122·8	125·7	124·8	120·60
117·3	117·3	117·9	118·3	118·3	118·6	119·1	119·1	119·2	119·6	120·1	120·1	120·10
120·0	119·7	119·7	118·8	118·8	115·1	115·8	116·2	115·3	116·0	116·5	115·8	117·81
111·8	111·4	112·6	113·3	114·7	114·7	115·0	115·0	115·0	116·7	116·7	116·4	114·46
120·2	121·3	122·1	122·1	122·7	122·7	122·7	123·5	124·0	122·3	124·1	124·8	121·63
123·3	123·0	122·5	121·8	122·0	121·9	120·3	120·3	119·4	119·1	118·1	118·5	122·99
118·9	119·4	119·8	119·8	119·6	119·6	—	—	—	—	—	—	—
—	—	—	—	—	—	127·1	125·6	127·3	123·9	124·6	130·5	121·06
137·7	138·1	136·4	136·4	136·7	131·0	137·8	139·6	137·5	136·1	127·7	124·9	133·98
134·6	134·7	134·0	132·7	134·7	130·8	124·9	126·8	131·3	133·5	132·3	133·0	133·31
129·9	128·4	127·2	126·4	125·9	126·9	125·3	123·1	125·3	124·8	124·0	126·4	127·55
124·9	126·4	127·3	128·4	129·6	128·8	129·5	130·2	129·3	128·8	128·8	128·8	126·29
123·6	123·7	123·0	123·1	126·1	124·6	126·3	126·7	128·3	130·4	131·6	132·1	126·89
128·3	125·8	125·8	125·8	126·6	127·5	—	—	—	—	—	—	—
—	—	—	—	—	—	127·9	127·1	124·6	124·6	124·4	124·4	127·23
113·0	113·0	114·3	114·3	116·6	117·4	117·4	117·6	118·1	118·1	118·1	118·1	117·48
111·1	111·5	111·8	111·8	112·6	113·3	114·0	114·3	114·0	114·4	113·9	114·7	113·96
125·0	127·8	127·8	126·1	125·4	125·4	124·9	120·3	120·3	120·5	120·9	119·9	121·64
116·0	116·0	116·0	116·7	116·8	118·8	115·8	115·8 <sup>b</sup>	112·0	109·7	109·7	102·9	115·83
147·4	162·1	116·1	111·9	110·3	110·9	37·3	92·4	83·0	75·1	97·8	94·4	111·65
128·4	132·0	137·8	128·0	133·4	128·3	—	—	—	—	—	—	—
—	—	—	—	—	—	128·0	128·0	138·0	136·5	135·0	135·0	129·67
124·05	124·90	123·06	122·20	121·98	120·44	117·00	119·58	120·28	119·47	120·72	121·02	121·83

**TEMPERATURE OF THE VERTICAL FORCE MAGNET.**

50·8	50·8	50·8	50·6	50·5	50·3	50·3	50·3	50·8	51·0	50·8	50·8	50·30
50·9	50·5	50·4	49·8	49·3	49·5	—	—	—	—	—	—	48·32
—	—	—	—	—	—	42·8	42·2	41·8	42·0	42·0	41·5	41·46
42·8	42·6	42·4	42·4	43·0	43·1	42·8	40·8	40·2	40·1	40·2	40·2	41·46
45·1	45·2	45·0	44·8	44·8	44·8	44·8	44·8	45·0	45·2	45·2	45·4	43·46
48·6	48·3	48·0	48·0	47·8	47·6	48·0	48·6	48·8	48·4	47·6	46·9	47·60
50·5	50·8	50·8	50·5	50·6	50·5	49·7	49·5	49·4	48·6	48·0	48·0	48·99
50·5	50·5	51·1	51·1	51·2	51·1	50·9	50·9	50·8	50·8	50·6	50·3	49·78
49·5	49·5	49·5	50·0	49·7	48·8	—	—	—	—	—	—	—
—	—	—	—	—	—	45·6 <sup>b</sup>	45·6	45·1	44·6	44·6	44·4	48·39
52·4	52·2	51·3	50·3	49·6	49·3	49·3	49·3	49·3	49·3	49·3	49·3	49·10
51·2	51·8	51·5	50·8	51·1	51·1	51·1	51·3	51·4	51·7	51·4	51·1	50·56
52·1	51·8	51·8	51·5	51·1	50·9	50·5	49·7	49·1	50·0	49·5	49·5	50·98
48·3	48·1	47·8	47·4	47·2	47·0	46·6	46·2	46·5	45·8	45·0	45·0	47·11
45·7	46·0	46·3	46·8	47·0	47·2	47·5	47·6	47·8	48·0	48·4	48·4	46·18
48·4	48·0	48·0	47·8	47·4	47·0	—	—	—	—	—	—	—
—	—	—	—	—	—	44·2	43·4	42·4	42·0	41·6	41·1	46·60
37·5	37·4	37·6	37·6	37·0	36·5	36·5	37·0	36·9	36·8	37·2	36·9	38·95
40·6	40·6	40·8	41·2	41·4	41·3	41·6	41·4	41·6	41·6	42·0	42·3	39·97
43·8	44·4	44·7	45·1	45·1	45·0	44·8	45·1	45·2	45·1	45·1	44·8	44·22
46·4	45·6	45·2	44·6	44·3	43·6	43·6	43·0	43·0	43·0	43·6	43·0	45·04
46·6	47·0	47·0	46·4	45·6	45·2	44·6	44·2	43·2	42·2	41·8	41·6	44·45
45·2	45·2	45·2	44·8	44·6	44·2	—	—	—	—	—	—	—
—	—	—	—	—	—	44·2	44·4	45·0	45·0	45·4	45·6	44·10
51·3	51·1	50·8	50·3	50·1	49·3	49·3	49·3	48·9	48·6	48·4	48·4	48·74
51·7	51·3	51·3	51·3	50·7	50·5	50·3	50·3	50·4	50·3	50·3	49·8	50·26
46·3	46·0	46·0	46·0	46·0	46·0	45·8	46·2	46·2	46·4	46·6	46·6	47·08
49·5	49·5	49·5	50·0	50·2	49·8	49·2	48·3 <sup>b</sup>	48·3	48·0	47·6	47·6	48·43
47·4	47·4	49·1	48·7	48·4	47·3	47·2	46·6	45·9	45·4	45·2	44·6	46·87
43·4	42·7	42·6	42·2	42·0	42·0	—	—	—	—	—	—	—
—	—	—	—	—	—	40·0	39·6	39·1	39·0	39·1	39·0	42·38
47·56	47·47	47·48	47·31	47·14	46·88	46·20	45·98	45·85	45·73	45·63	45·47	46·51

II.      \* Five minutes late.      † Ten minutes late.      ‡ Six minutes late.      § Eight minutes late.      2 G

VERTICAL FORCE.													
One Scale Division = $\cdot 000062$ parts of the V. F.      Change in the magnetic moment of the Bar for $1^{\circ}$ Fah $^{\circ}$ = $\cdot 00007$ .													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
APRIL.	1	136.1	137.1	134.0	131.8	131.8	127.9	125.2	129.8	129.2	130.2	132.9	131.5
	2	120.2	127.1	125.7	121.6	118.9	117.4	116.1	117.0	118.8	119.7	116.7	116.7
	3	112.9	117.2	115.4	113.0	110.5	110.2	111.2	113.8	111.0	107.8	104.3	103.7
	4	96.9	99.7	102.9	101.9	101.7	100.9	99.2	99.5	99.9	100.3	100.3	102.5
	5 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	6	117.3	118.1	118.3	118.2	118.9	119.4	119.4	119.8	119.8	120.1	122.2	120.7
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	115.6	114.5	113.2	111.9	111.9	110.7	110.2	109.0	107.1	105.2	102.6	102.2
	9	101.5	100.3	104.3	102.6	100.3	98.9	97.1	96.2	95.6	94.1	93.4	93.0
	10	97.0	98.7	98.3	96.3	93.3	92.2	90.1	89.0	90.1	90.3	90.1	89.1
	11	97.9	100.1	99.0	99.4	98.2	97.6	96.6	95.4	95.4	95.3	94.2	93.1
	12	98.0	97.1	94.8	92.9	91.9	89.2	85.8	85.0	85.3	85.3	85.3	86.2
	13	93.8	93.8	91.3	88.7	87.5	86.6	85.3	84.4	83.1	81.6	80.5	79.4
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	88.6	87.5	87.5	87.8	86.9	85.5	84.5	86.2	87.9	89.4	90.7	91.2
	16	94.4	94.4	95.5	94.5	94.5	94.5	93.3	91.8	91.8	91.6	91.7	92.6
	17	1.3	4.6	69.7	88.2	94.0	99.8	108.5	119.1	122.0	118.3	117.7	119.5
	18	111.6	111.6	109.4	105.7	103.4	101.4	99.8	101.0	101.3	101.2	99.9	104.9
	19	112.1	109.5	108.5	105.0	102.9	100.8	100.8	100.8	100.7	100.0	99.8	99.8
	20	106.3	104.7	101.9	100.5	99.6	98.7	98.1	96.3	96.3	95.5	94.9	95.2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	100.0	98.9	99.4	99.3	97.7	97.7	98.1	98.8	100.5	99.8	99.2	99.2
	23	99.8	98.9	98.4	99.1	99.1	98.6	96.9	96.4	96.4	94.9	94.9	94.9
	24	95.9	94.9	93.7	93.5	91.9	90.2	87.3	85.0	85.4	85.0	85.0	84.7
	25	90.1	86.6	84.1	80.9	79.0	81.5	82.5	85.7	94.5	91.2	90.3	96.4
	26	78.8	70.1	83.0	89.5	89.5	91.2	94.9	96.8	97.7	98.2	98.2	99.4
	27	103.7	103.7	105.3	103.9	104.3	102.2	103.0	104.8	104.4	106.9	104.3	107.6
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	107.6	104.5	101.3	97.9	96.4	97.0	98.5	100.5	99.2	99.0	96.1	98.5
	30	98.3	96.9	97.3	94.7	93.6	92.5	94.5	95.5	94.4	94.6	95.2	95.7
Hourly Means	99.03	98.82	101.29	100.75	99.91	99.30	99.08	99.90	100.31	99.82	99.22	99.91	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
APRIL.	1	39.1	39.1	40.3	41.6	42.6	43.4	43.9	44.6	45.3	45.4	45.8	46.4
	2	45.0	45.0	45.8	47.0	48.4	49.3	49.9	50.6	51.0	51.2	51.6	51.9
	3	49.8	49.6	49.8	51.1	51.4	52.1	52.5	53.3	54.2	55.2	56.3	57.3
	4	56.5	56.3	56.5	57.1	57.3	57.6	57.8	58.1	58.3	58.5	58.7	58.5
	5 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	6	49.7	49.3	49.6	49.2	49.2	49.2	49.2	49.1	48.7	48.8	49.0	48.8
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	49.5	49.9	50.0	50.7	50.7	51.2	51.9	52.1	52.8	54.0	55.2	56.0
	9	54.3	54.3	55.1	55.5	56.3	56.8	57.3	57.8	58.2	59.0	59.1	59.6
	10	55.3	55.3	56.0	57.0	57.8	58.3	58.7	59.3	59.3	60.0	61.0	61.6
	11	57.2	57.0	57.2	57.2	57.3	57.8	58.0	58.3	58.6	59.2	59.8	59.1
	12	57.2	57.2	58.2	59.0	59.8	60.2	60.7	60.7	61.3	61.9	62.4	63.2
	13	59.0	59.2	59.4	60.2	61.0	62.0	62.5	63.3	63.8	64.4	65.2	65.8
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	61.6	61.6	61.4	61.4	61.4	61.6	62.2	61.9	61.9	61.9	61.9	61.7
	16	59.0	59.0	58.8	58.8	58.8	58.8	59.2	59.6	59.8	60.0	60.0	60.0
	17	57.3	56.6	56.6	55.9	55.6	56.1	56.5	56.4	56.7	57.5	58.1	58.1
	18	50.3	50.5	51.5	53.0	53.8	54.3	54.8	54.8	55.2	55.6	56.1	56.3
	19	50.8	51.5	52.3	53.3	54.0	54.8	55.2	55.7	56.5	57.2	57.3	57.5
	20	53.8	54.0	55.0	55.8	56.6	57.3	58.2	59.3	59.6	59.6	59.6	59.4
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	56.2	56.2	56.1	56.2	56.2	56.3	56.3	56.4	56.3	56.7	57.0	57.1
	23	55.6	55.6	55.6	56.2	56.3	56.7	57.4	58.0	58.6	59.0	59.4	59.3
	24	58.3	58.6	59.0	59.2	59.8	60.2	61.0	61.6	62.3	62.9	63.6	63.6
	25	59.6	60.4	60.6	61.1	61.4	61.6	61.8	61.8	62.0	62.1	62.0	61.8
	26	59.0	59.0	59.0	59.0	58.6	58.3	58.3	58.1	58.1	58.1	57.9	57.3
	27	53.6	53.2	53.3	53.8	54.4	55.0	55.3	55.1	55.3	56.1	56.2	56.1
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	52.3	52.9	54.1	55.0	55.7	56.5	56.8	57.3	57.7	58.4	59.2	59.6
	30	54.8	55.5	56.0	56.6	57.1	57.7	58.6	58.8	59.3	59.4	59.6	59.6
Hourly Means	54.19	54.27	54.69	55.24	55.66	56.12	56.56	56.88	57.23	57.68	58.08	58.22	

<sup>a</sup> Good Friday.

VERTICAL FORCE.												
One Scale Division = .000062 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = .00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
128.7	128.5	128.4	123.9	128.5	124.7	123.7	123.9	125.1	116.9	111.9	118.1	127.41
116.7	117.7	117.7	120.1	118.3	118.8	114.4	115.1	109.0	98.7	88.9	102.5	115.58
103.7	100.4	100.4	97.3	97.3	100.3	101.0	101.0	102.8	98.8	95.7	96.9	105.28
105.7	103.5	103.5	104.1	104.1	102.5 <sup>a</sup>	—	—	—	—	—	—	—
—	—	—	—	—	—	103.6	110.4	114.4	114.9	115.7	115.6	104.32
118.5	119.8	121.8	121.3	110.3	115.9	—	—	—	—	—	—	—
—	—	—	—	—	—	111.8	112.8	111.9	111.9	113.8	114.3	117.35
100.2	99.8	100.1	101.3	101.9	101.3	102.1	102.1	102.6	103.6	103.6	104.9	115.73
92.2	92.2	92.9	92.9	94.6	95.2	95.9	96.9	98.3	97.0	95.7	95.6	96.53
90.0	90.4	90.8	91.5	91.8	91.8	93.0	91.9	91.9	93.1	93.5	96.9	92.55
92.9	93.1	93.3	93.3	94.4	92.2	92.2	94.6	94.6	95.4	95.7	97.6	95.48
86.2	86.2	86.2	87.6	88.0	88.1	89.1	90.2	90.7	91.4	92.4	92.8	89.40
78.4	78.9	81.0	81.1	82.7	83.5	—	—	—	—	—	—	—
—	—	—	—	—	—	81.7	83.9	83.0	84.7	87.5	88.5	84.62
90.5	90.5	91.1	91.1	91.2	91.2	91.2	91.5	93.2	90.1	93.1	94.0	89.68
94.1	95.0	96.6	100.0	100.0	95.0	87.0	84.7	47.9	18.8	— <sup>b</sup>	5.2	84.56
113.5	116.3	112.5	104.8	103.7	108.3	104.8	109.2	109.9	109.9	107.0	111.6	98.93
103.4	103.4	103.8	104.3	105.1	106.3	106.3	108.2	108.9	109.7	110.0	110.8	105.48
99.2	99.2	100.2	100.8	100.9	100.7	102.1	102.4	102.1	102.1	103.6	106.3	102.51
95.0	95.0	95.9	96.0	96.0	96.9	—	—	—	—	—	—	—
—	—	—	—	—	—	98.1	99.5	99.5	100.1	100.1	100.0	98.34
99.9	99.9	100.4	100.1	100.1	100.4	100.4	101.5	101.5	101.8	101.6	101.7	99.91
93.1	91.1	92.3	92.3	92.6	94.0	93.7	95.6	94.7	93.6	95.0	95.7	95.50
84.6	83.1	81.9	83.2	84.3	84.5	85.9	86.2	86.1	86.9	87.5	89.6	87.35
104.4	98.3	93.7	89.7	89.6	84.7	91.6	92.3	91.1	92.0	92.7	93.9	89.87
101.6	100.7	100.1	102.8	98.1	96.9	95.1	86.7	91.7	93.6	102.1	100.3	94.04
106.2	104.3	99.9	101.7	89.4	93.9	—	—	—	—	—	—	—
—	—	—	—	—	—	94.6	98.2	98.0	98.4	104.2	105.0	102.00
95.9	96.2	95.0	94.2	90.2	94.9	96.3	96.3	97.7	99.4	99.9	100.9	98.06
98.7	99.9	96.4	88.0	91.2	85.6	93.9	96.0	95.7	86.3	86.3	88.8	93.75
99.73	99.34	99.04	98.54	97.77	97.90	97.98	98.84	97.61	95.56	99.06	97.10	98.99
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
46.8	46.2	46.1	45.6	45.6	45.2	45.0	45.0	45.0	45.3	45.3	45.3	44.33
51.0	50.8	51.0	51.0	51.0	51.0	51.0	50.9	50.5	50.6	51.0	51.5	49.92
58.1	58.7	58.7	58.5	57.6	57.1	56.8	56.3	56.4	56.8	56.8	56.8	55.05
58.1	57.5	57.3	56.8	56.8	56.5 <sup>a</sup>	—	—	—	—	—	—	—
—	—	—	—	—	—	51.1	50.6	50.3	50.1	49.7	49.7	55.65
48.9	48.7	48.7	48.8	48.6	48.4	—	—	—	—	—	—	—
—	—	—	—	—	—	50.9	50.8	50.3	49.8	49.5	49.5	49.28
56.8	57.1	56.9	56.7	56.3	55.8	56.1	56.1	55.7	55.3	55.3	55.0	54.05
60.0	60.0	59.6	59.1	59.0	58.8	58.3	57.6	56.8	56.2	56.1	55.8	57.52
61.8	61.4	61.0	60.5	60.1	59.5	59.2	59.0	59.0	58.7	58.2	57.5	58.98
59.3	59.1	59.0	58.6	58.5	59.0	58.7	58.7	58.5	58.3	58.0	57.6	58.33
63.2	62.5	62.0	61.8	61.4	61.0	60.6	59.9	59.6	59.1	59.0	59.0	60.45
65.8	65.4	65.0	64.4	64.0	63.5	—	—	—	—	—	—	—
—	—	—	—	—	—	62.8	62.6	62.4	62.0	62.1	61.8	62.82
61.6	61.6	61.6	61.1	60.8	60.4	60.0	59.6	59.1	59.0	59.0	59.0	60.97
60.0	59.6	59.5	59.1	59.0	59.0	59.0	58.0	57.1	58.7	— <sup>b</sup>	58.7	59.11
58.2	57.7	57.2	56.5	56.0	55.2	54.3	53.7	53.0	52.3	51.6	50.8	55.75
56.1	56.2	56.0	55.3	54.6	53.9	53.4	52.5	52.3	51.9	51.3	50.8	53.77
57.5	57.3	56.9	56.3	56.3	56.1	55.7	55.5	55.1	54.8	54.5	54.3	55.27
59.6	59.3	59.0	58.6	58.0	57.6	—	—	—	—	—	—	—
—	—	—	—	—	—	56.3	56.3	56.3	56.3	56.2	56.2	57.41
57.2	56.7	56.3	56.3	56.3	56.2	56.1	56.0	55.8	55.6	55.6	55.6	56.28
59.6	59.8	59.6	59.6	59.5	59.2	59.0	59.0	58.8	59.0	58.8	58.5	58.25
63.6	63.8	64.5	63.8	63.3	62.8	61.8	61.8	61.6	61.2	60.8	60.4	61.65
61.5	61.2	61.0	61.4	60.6	60.2	59.8	59.8	59.4	59.4	59.4	59.0	60.79
57.0	56.6	56.3	56.3	56.1	56.1	56.0	55.6	55.4	55.1	54.7	54.2	57.09
56.1	56.0	56.0	55.6	55.1	54.5	—	—	—	—	—	—	—
—	—	—	—	—	—	54.0	53.5	53.0	52.8	52.6	52.6	54.55
59.9	59.7	59.5	59.2	58.8	58.5	58.3	58.0	57.3	56.5	55.8	55.2	57.17
59.4	59.4	59.0	59.0	58.6	58.5	58.5	58.1	58.0	57.7	57.8	57.8	58.12
58.28	58.09	57.91	57.60	57.28	56.96	56.51	56.20	55.87	55.70	55.38	55.30	56.50

<sup>a</sup> Magnet vibrated out of the field of the telescope.

VERTICAL FORCE.													
One Scale Division = .000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MAY.	1	90.9	94.3	92.9	90.4	86.0	83.8	85.1	86.0	89.3	90.9	90.9	94.4
	2	86.5	88.0	87.7	84.0	81.3	81.0	81.0	81.3	81.6	82.9	80.7	84.8
	3	87.3	86.5	85.6	85.0	82.2	84.1	84.3	82.4	80.3	81.8	83.3	83.6
	4	90.3	90.3	90.0	89.4	89.3	88.0	87.6	87.7	87.6	88.3	90.1	90.1
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	94.7	96.9	97.5	96.5	96.5	93.9	94.9	93.0	93.0	93.6	95.1	97.2
	7	97.4	95.5	93.7	91.9	89.5	88.7	90.4	90.5	91.9	91.3	90.6	90.4
	8	90.6	90.6	92.9	90.6	88.8 <sup>a</sup>	84.9	85.9	88.2	88.1	88.1	89.9	94.7
	9	95.1	94.0	90.6	90.0	91.7	93.0 <sup>b</sup>	92.5	89.4	89.2	88.3	87.8	90.0
	10	95.8	95.8	94.7	94.7	92.8	91.7	92.5	91.0	91.0	93.3	91.4	93.7
	11	98.5	98.5	98.1	96.0	93.4	91.0	91.0	91.7	90.2	88.3	87.7	87.7
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	104.4	103.0	100.7	100.3	98.4	100.4	103.5	102.8	103.3	102.9	106.2	105.8
	14	101.4	102.7	100.4	99.4	99.5	96.6	96.3	96.0	94.5	94.5	92.3	91.4
	15	97.6	94.7	92.5	89.7	90.6	88.9	89.9	88.5	86.0	84.3	89.4	90.2
	16	90.1	91.5	90.6	89.1	86.9	86.0	86.0	85.8	86.9	86.8	86.8	86.2
	17	95.7	95.7	96.3	94.7	93.1	89.6	87.8	87.8	89.0	89.4 <sup>c</sup>	89.4	89.4
	18	95.3	95.3	92.7	91.3	89.8	89.2	88.6	89.2	90.1	90.3	89.8	88.3
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	96.4	96.6	95.5	95.5	93.6	91.6	91.6	89.9	88.9	87.9	87.5	87.1
	21	99.0	99.0	97.9	98.5	95.8	94.4	94.9	94.4	95.6	95.6	95.9	100.9
	22	102.5	96.9	92.7	91.9	89.8	89.7	88.9	89.9	90.3	93.7	96.0	96.8
	23	92.8	92.5	91.4	90.1	90.6	89.9	84.1	85.6	89.5	85.9	83.5	84.9
	24	85.0	83.8	80.5	80.0	75.9	77.7	82.2	83.5	83.6	89.7	86.9	83.8
	25	80.9	80.1	80.8	79.5	78.5	77.3	75.7	73.1	71.1	70.5	70.7	68.6
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	77.6	77.9	78.4	76.6	75.0	74.1	73.3	74.7	—	—	78.6 <sup>c</sup>	76.9
	28	77.0	77.4	76.5	76.9	75.0	74.3	73.1	71.8	72.8	73.8	73.3	73.6
	29	82.3	81.0	81.2	79.5	78.8	77.8	75.7	77.3	77.3	78.0	78.5	77.8
	30	85.9	85.9	85.1	86.5	85.5	84.1	83.3	81.2	81.4	83.1	83.7	83.6
	31	83.9	83.4	84.1	82.7	81.0	79.6	81.7	80.2	82.0	82.0	79.4	79.7
Hourly Means	91.66	91.40	90.41	89.29	87.75	86.71	86.73	86.40	87.10	87.51	87.24	87.84	

TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
MAY.	1	57.8	58.2	58.6	59.7	60.0	60.3	60.8	61.0	61.3	61.6	61.9	62.0
	2	60.8	60.6	61.0	61.6	62.3	62.8	62.8	63.0	63.6	64.4	65.2	65.0
	3	61.6	61.8	62.0	62.0	62.2	62.6	63.0	63.3	63.6	63.7	63.7	64.0
	4	60.0	59.6	59.6	59.6	59.6	59.6	59.6	59.8	59.8	60.0	60.0	59.8
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	57.2	57.0	56.8	56.6	56.4	56.4	57.0	57.1	57.8	58.3	58.7	59.0
	7	57.2	57.7	58.2	59.2	59.6	59.7	59.8	59.8	60.0	60.3	60.6	61.4
	8	59.0	59.0	59.0	58.8	59.0 <sup>a</sup>	59.7	59.9	60.2	60.6	61.3	61.6	61.8
	9	59.0	59.2	59.6	59.8	60.0	60.0 <sup>b</sup>	60.0	60.1	60.6	61.1	61.6	61.7
	10	57.2	58.0	58.2	58.5	59.0	59.2	59.2	59.3	59.3	59.3	59.2	58.8
	11	56.3	56.3	56.5	57.0	57.7	58.7	59.2	59.8	60.4	61.3	62.0	62.3
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	54.2	54.2	54.4	54.7	54.3	52.7	52.0	51.5	53.0	53.3	53.3	53.5
	14	52.5	52.7	53.0	53.4	54.1	55.0	56.0	56.5	57.5	58.2	59.4	59.3
	15	57.2	57.8	58.2	58.7	59.2	59.6	60.2	60.7	61.3	62.0	62.6	62.5
	16	59.2	59.2	59.2	59.2	59.4	60.3	60.8	61.3	62.0	62.1	62.1	62.4
	17	57.2	57.2	57.2	57.6	58.2	59.2	59.4	59.8	60.4	60.6 <sup>c</sup>	60.6	60.5
	18	58.3	58.3	58.3	58.8	59.2	59.4	59.4	59.1	59.2	59.5	60.6	61.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	56.2	56.2	56.2	56.4	57.2	58.0	58.2	59.2	59.8	60.2	60.4	60.2
	21	54.4	54.0	53.7	54.0	54.4	55.0	55.2	55.3	55.3	55.3	55.8	56.4
	22	52.2	53.2	54.2	55.2	56.0	56.3	56.7	57.2	57.7	58.0	58.5	58.6
	23	56.0	56.0	57.7	58.7	59.2	59.8	60.7	61.4	61.8	62.4	62.8	63.1
	24	61.0	61.0	62.0	63.0	63.6	64.0	63.8	63.2	63.6	63.6	63.6	64.1
	25	63.4	64.0	64.6	64.6	64.9	66.0	67.6	68.6	69.2	70.0	70.6	70.7
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	66.0	66.0	66.5	66.0	65.8	66.5	66.8	67.0	67.0	67.0	68.0 <sup>c</sup>	68.0
	28	65.5	65.4	65.4	65.4	65.4	65.8	66.6	66.8	67.2	67.6	68.0	68.4
	29	63.0	63.2	63.0	63.4	63.6	64.1	64.4	64.4	65.1	65.6	66.1	66.4
	30	61.6	61.6	61.4	61.2	61.2	61.2	61.6	62.0	62.5	62.8	62.6	62.8
	31	61.8	62.0	62.0	61.8	61.8	61.6	61.6	62.0	62.5	63.0	63.4	63.6
Hourly Means	58.73	58.87	59.13	59.44	59.75	60.13	60.46	60.73	60.96	61.34	61.96	62.12	

<sup>a</sup> Three minutes late.

<sup>b</sup> Fifteen minutes late.

<sup>c</sup> Seven minutes late.

VERTICAL FORCE.												
One Scale Division = '000062 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
96.1	94.0	91.5	85.5	85.8	87.9	83.6	79.0	85.0	89.5	90.5	89.2	88.85
88.1	88.1	84.1	74.9	77.6	79.6	73.9	72.5	80.1	83.7	83.8	86.7	82.25
83.6	83.6	83.6	85.5	85.5	85.6	85.7	86.5	86.5	87.7	88.0	90.2	84.93
93.2	94.6	95.3	95.3	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	92.3	89.8	87.7	90.4	90.3	92.6	90.46
96.5	96.5	97.4	97.8	98.1	93.8	95.3	96.4	95.8	96.4	96.6	97.4	95.87
90.0	89.4	90.4	90.4	82.5	78.7	73.4	77.6	86.8	90.0	84.4	88.6	88.50
94.0	88.6	93.0	92.7	89.2	89.6	88.9	89.0	89.9	89.7	86.1	89.4	89.73
89.2	88.9	89.3	89.7	90.7	90.6	90.6	91.0	93.0	93.3	94.2	95.2	91.15
95.2	95.2 <sup>c</sup>	95.7	95.2	93.1	97.6	97.6	98.1	98.1	98.0	99.1	99.0	95.05
87.3	86.2	85.1	84.2	85.1	85.0	—	—	—	—	—	—	—
—	—	—	—	—	—	95.4	96.0	96.0	97.7	99.5	102.1	92.15
104.6	106.4	104.8	105.6	106.0	106.4	102.0	101.0	98.7	96.7	100.0	100.0	102.66
91.4	94.6	98.8	92.1	78.7	82.5	94.1	90.3	89.7	93.0	96.5	97.4	94.34
89.6	89.6	89.6	89.4	88.0	88.9	89.9	89.9	90.5	90.5	89.6	89.1	89.87
86.2	86.3	87.0	87.2 <sup>d</sup>	88.6	89.3	90.1	90.5	91.0	93.0	93.9	96.2	88.83
90.3	90.8	90.9	91.0	90.7	91.0	91.4	91.4	90.0	90.8	93.1	94.0	91.39
86.1	86.7	86.7	90.0	90.1	90.0	—	—	—	—	—	—	—
—	—	—	—	—	—	93.6	92.9	94.3	95.1	94.8	95.8	91.08
88.1	89.0	89.6	89.6	90.5	92.8	93.0	93.0	93.4	94.6	96.8	99.0	92.15
102.8	104.5	98.8	98.1	99.1	101.2	100.2	100.9	101.3	102.0	102.9	104.1	99.08
102.2	119.2	109.4	94.7	95.7	69.8	73.0	81.7	77.9	84.8	92.3	92.5	92.18
83.3	83.8	83.0	80.6	81.2	82.4	84.3	84.3	84.3	80.6	84.2	85.2	85.75
83.0	81.4	79.1	76.4	72.2	77.4	75.7	77.5	78.5	77.1	77.7	78.5	80.30
68.6	68.6	68.9	71.1	71.1	71.9	—	—	—	—	—	—	—
—	—	—	—	—	—	72.4	65.7	70.7	70.7	76.9	76.9	73.34
76.9	76.9	75.6	75.7	75.7	71.5	73.6	75.1 <sup>f</sup>	75.0	76.0	75.7	78.7	75.89
72.2	72.2	72.6	74.4	75.3	75.4	76.8	77.5	77.5	77.0	78.3	82.0	75.28
77.2	77.2	77.3	78.2	79.1	79.8	78.9	77.7	76.3	75.1	80.1	85.3	78.64
83.2	83.2	83.2	83.3	84.3	83.8	83.8	83.8	83.8	84.1	84.9	84.6	83.97
79.9	80.4	81.5	83.2	83.2	83.5	81.4	80.8	83.5	84.5	85.9	87.8	82.30
88.10	88.74	88.23	87.14	86.04	85.62	86.33	86.29	87.23	88.22	89.49	91.02	88.03

TEMPERATURE OF THE VERTICAL FORCE MAGNET.

62.1	62.0	61.9	61.7	61.5	61.5	61.4	61.2	61.0	61.0	60.7	60.8	60.83
64.9	64.6	64.6	64.2	63.8	63.5	63.3	63.2	63.0	62.6	62.4	62.0	63.13
64.0	63.5	63.0	63.0	62.8	62.6	62.5	62.0	61.4	61.1	60.6	60.6	62.52
59.6	59.2	59.2	58.8	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	59.4	59.0	58.9	58.7	58.3	57.6	59.35
58.8	58.4	58.2	58.0	57.8	57.8	57.8	57.6	57.3	57.3	57.3	57.2	57.57
61.8	61.8	61.7	61.2	60.9	60.6	60.4	60.0	59.8	59.5	59.0	59.0	59.97
62.3	62.1	61.6	61.1	61.1	60.7	60.2	60.2	59.7	59.5	59.2	58.8	60.27
62.0	62.0	61.8	61.3	60.7	60.2	59.6	59.1	58.8	58.6	58.2	57.4	60.10
58.2	57.6 <sup>c</sup>	57.4	57.1	57.0	56.5	56.5	56.3	56.3	56.3	56.3	56.3	57.79
62.4	62.5	62.6	62.5	62.5	62.0	—	—	—	—	—	—	—
—	—	—	—	—	—	57.3	56.9	56.3	55.8	55.1	54.4	59.07
53.2	53.8	52.9	52.3	51.9	51.7	51.4	51.5	51.5	51.8	52.0	52.0	52.80
59.4	59.1	59.0	58.7	60.0	60.0	59.3	58.5	58.1	57.5	57.3	56.7	57.13
62.4	62.4	62.0	61.8	61.2	60.6	60.2	60.1	60.0	59.8	59.6	59.4	60.40
62.4	62.0	61.4	60.8 <sup>d</sup>	60.1	59.6	59.1	58.8	58.2	57.7	57.5	57.5	60.10
60.4	60.1	60.0	60.0	59.7	59.5	59.2	59.0	59.2	59.4	59.0	58.7	59.25
61.2	61.2	61.2	60.6	60.0	59.6	—	—	—	—	—	—	—
—	—	—	—	—	—	57.5	57.4	57.2	57.0	56.8	56.4	59.05
59.8	59.3	59.3	59.2	58.6	57.8	57.3	56.5	55.7	55.0	55.7	55.0	57.81
56.4	56.5	56.5	56.3	55.5	55.1	54.9	54.4	53.6	53.1	52.6	52.2	54.83
59.2	58.8	59.1	59.3	58.8	59.3	59.1	58.7	58.3	57.0	56.3	56.0	57.24
63.1	63.1	63.1	63.0	62.5	62.0	62.0	61.6	61.3	61.2	60.7	60.4	60.98
64.8	65.2	66.0	66.6	66.6	66.0	65.6	65.4	64.9	65.3	64.9	65.0	64.26
71.0	70.8	70.4	69.7	69.5	69.3	—	—	—	—	—	—	—
—	—	—	—	—	—	67.6	67.4	67.2	66.7	66.5	66.5	67.78
68.0	68.0	67.8	68.0	67.6	67.6	67.2	66.7 <sup>f</sup>	66.4	66.2	66.0	65.6	66.90
68.4	68.0	67.8	67.3	66.6	66.2	65.6	65.2	64.8	64.3	64.0	63.2	66.20
66.4	66.4	66.1	65.6	65.0	64.6	64.1	63.4	63.0	62.8	62.2	61.6	64.31
62.6	62.5	62.5	62.8	62.6	62.5	62.4	62.2	62.2	62.0	62.0	61.8	62.11
63.6	63.4	63.0	62.8	62.4	62.0	61.5	61.0	60.8	60.5	60.0	59.6	61.99
62.16	62.01	61.86	61.62	61.41	61.11	60.46	60.12	59.81	59.54	59.27	58.95	60.49

<sup>d</sup> Eleven minutes late.

<sup>e</sup> Two minutes late.

<sup>f</sup> Twenty minutes late.

VERTICAL FORCE.													
One Scale Division = .000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
JUNE.	1	86.3	86.2	85.2	85.7	82.8	80.3	80.8	80.9	79.8	78.0	80.7	75.2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	89.5	89.5	88.6	86.0	89.3	84.6	84.6	89.7	85.1	83.4	83.4	83.6
	4	91.2	89.2	89.2	88.2	85.8	84.5	83.9	82.0	82.0	79.0	78.8	81.0
	5	86.6	85.7	83.5	82.2	82.3	82.4	78.8	80.1 <sup>b</sup>	77.8	78.4	78.5	78.5
	6	82.8	83.6	80.8	77.4	76.0	75.9	73.3	73.2	73.0	72.6	71.8	71.9
	7	81.1	80.1	80.1	80.1	78.1	75.9	75.7	74.4	74.3	75.6	75.6	74.9
	8	85.0	84.3	84.3	85.5	84.3	85.6	86.7	83.5	82.4	84.2	82.6	82.6
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	87.1	87.2	85.9	85.1	86.2	84.6 <sup>c</sup>	86.2	86.2	88.4	89.0	89.8	90.3
	11	92.3	92.3	90.8	89.9	88.3	87.4 <sup>d</sup>	85.5	84.2	84.2	84.8	84.8 <sup>d</sup>	84.8
	12	88.9	89.3	88.3	87.2	85.1	83.6	82.0	80.7	80.4	80.6	80.4	79.3
	13	85.4	85.9	82.6	80.8	78.7	78.4	79.1	79.1	77.6	77.9	78.5	77.7
	14	75.5	75.9	73.6	73.0	75.3	76.1	74.4	74.2	74.2	73.1	72.6	71.1
	15	78.2	77.0	76.4	76.7	75.8	73.3	72.5	71.1	69.8	70.1	69.8	69.7
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	72.8	72.8	73.2	73.2	73.3	73.2	72.6	72.2	73.4	72.9	72.6	72.9
	18	70.0	70.1	69.8	69.8	68.9	66.1	67.0	67.4	66.4	64.3	65.4	64.7
	19	65.9	65.3	64.4	64.4	63.2	63.6	63.6	62.7	64.3	63.8	63.6	63.2
	20	62.5	64.0	64.9	65.3	64.1	63.4	63.4	62.9	63.6	64.3	64.5	65.9
	21	69.7	69.7	69.7	69.4	69.4	70.1	70.6	70.6	72.2	71.0 <sup>e</sup>	72.2	71.8
	22	73.7	73.7	73.8	73.3	72.9	72.3	71.3	71.3	72.9	72.9	73.0	72.0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	70.0	70.0	69.4	69.2	69.9	69.5	69.4	67.2	67.2	66.0	66.0	65.6
	25	67.2	68.2	68.2	68.0	68.0	67.6	67.6	65.9	66.4	66.4	66.4	63.8
	26	65.8	65.8	66.1	63.8	63.5	63.5	62.3	64.7	65.9	65.9	65.2	66.7
	27	70.1	70.1	69.8	69.8	71.0	71.0	71.0	72.6	72.5	71.9	71.9	72.8
	28	73.9	73.1	70.7	70.5	70.4	68.4	68.7	68.7	68.0	68.0	68.6	69.5
	29	72.7	72.4	72.7	72.7	73.2	75.5	72.5	72.8	72.8	74.1	76.3	74.8
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	77.77	77.66	76.88	76.29	75.83	75.07	74.54	74.33	74.18	73.93	74.12	73.77	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	1	59.6	59.8	60.0	60.0	60.2	61.1	61.6	62.1	62.6	63.5	63.7	64.0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	58.1	58.6	59.0	60.0	60.4	60.8	61.0	60.6	61.1	62.0	62.1	62.1
	4	58.3	58.5	59.0	59.6	60.6	61.2	61.6	61.8	62.2	63.0	63.6	63.8
	5	59.8	59.6	60.1	60.1	60.1	60.6	61.1	61.6 <sup>b</sup>	62.8	63.2	63.8	64.0
	6	62.5	62.8	63.7	64.4	65.6	66.1	67.0	67.0	67.6	68.1	67.8	67.6
	7	62.5	62.1	62.0	62.1	62.6	63.1	63.6	64.0	64.6	65.1	65.6	66.0
	8	59.2	59.5	58.6	59.5	60.0	59.8	60.4	60.6	60.6	61.0	61.6	61.4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	57.4	59.0	59.1	58.6	59.6	59.6 <sup>c</sup>	59.6	58.8	58.6	59.1	58.2	58.4
	11	56.2	57.1	57.9	58.3	58.2	58.6 <sup>d</sup>	59.0	59.0	59.4	60.0	60.6 <sup>d</sup>	60.8
	12	57.3	58.3	58.8	59.2	60.0	61.0	61.6	62.0	62.6	63.0	63.4	63.6
	13	59.0	59.2	59.6	60.2	61.0	61.6	62.6	63.1	63.6	64.2	64.6	65.1
	14	62.0	62.1	62.8	63.6	64.0	64.6	65.0	65.4	65.8	66.6	67.1	67.6
	15	63.4	63.4	63.6	64.0	64.6	65.6	66.1	66.8	67.1	67.6	67.6	68.0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	65.4	65.1	65.1	65.1	65.2	65.6	66.4	66.8	67.2	67.6	67.6	68.0
	18	67.0	66.6	67.1	68.0	68.6	69.6	70.1	70.5	71.0	72.2	72.5	72.7
	19	70.0	70.1	70.5	71.0	72.0	71.3	71.5	71.5	71.7	72.2	72.5	73.2
	20	71.0	69.5	68.8	68.5	68.6	68.7	69.1	69.5	70.0	70.0	70.3	70.3
	21	64.9	64.6	64.6	64.8	65.1	65.6	65.8	66.2	66.6	67.0	67.6	67.6
	22	62.6	62.6	62.6	62.6	63.0	63.4	64.2	64.4	65.1	65.6	66.6	66.8
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	66.6	66.0	66.4	66.6	67.4	67.6	68.0	68.2	68.7	69.2	69.6	69.7
	25	68.4	68.0	67.6	67.6	67.6	68.4	69.0	69.5	70.1	70.3	70.7	71.5
	26	69.3	68.8	68.7	68.7	68.4	68.7	69.0	69.3	69.3	69.3	69.2	69.5
	27	66.8	66.8	66.5	66.1	65.8	65.8	65.6	65.6	65.6	65.6	65.8	65.6
	28	64.6	64.6	64.8	64.6	64.6	65.0	65.4	65.6	65.8	66.4	66.8	67.0
	29	63.2	62.8	63.0	63.6	64.0	64.6	65.0	65.4	65.8	66.0	66.2	66.6
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	63.00	63.02	63.20	63.47	63.89	64.32	64.77	65.01	65.42	65.91	66.20	66.44	

<sup>a</sup> Eighteen minutes late.

<sup>b</sup> Ten minutes late.

<sup>c</sup> Three minutes late.

VERTICAL FORCE.												
One Scale Division = .000062 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fahr. = .00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 75.2	Sc. Div. 79.3	Sc. Div. 77.4	Sc. Div. 77.8	Sc. Div. 77.8	Sc. Div. 78.8	—	—	—	—	—	—	—
—	—	—	—	—	—	85.9	85.4	87.5	88.8	90.3	89.1	82.30
83.8	82.8	83.4	84.1	84.4	85.8 <sup>a</sup>	85.7	86.9	87.2	89.0	89.3	91.2	86.29
80.2	80.6	81.8	83.7	83.5	84.5	84.5	84.9	85.7	86.1	86.1	86.6	84.29
77.8	77.2	80.1	79.3	79.3	79.3	79.3	80.2	81.6	81.6	83.0	84.3	80.74
73.4	74.8	75.6	75.4	75.9	76.4	77.1	77.9	78.8	79.8	80.8	81.3	76.65
74.3	76.2	76.7	77.2	79.5	80.5	80.5	82.2	82.2	83.3	85.0	87.3	78.78
84.3	85.4	85.5	85.5	56.0	84.1	—	—	—	—	—	—	—
—	—	—	—	—	—	89.3	88.6	88.6	89.7	90.6	89.8	85.77
88.0	88.0	88.4	88.5	91.1	91.1	90.3	92.1	92.2	88.2	86.9	91.3	88.42
83.5	83.5	83.7	85.8	87.4	86.3	85.7	85.7	88.5	88.8	91.2	90.2	87.07
79.1	79.1	78.6	80.2	80.2	79.5	79.5	81.8	81.8	83.0	82.3	84.0	82.29
76.9	76.9	76.4	77.3	77.1	78.2	78.1	78.0	80.0	80.8	82.6	83.6	79.48
70.2	70.2	70.1	71.3	71.1	71.9	71.9	71.3	71.4	75.3	75.3	78.2	73.22
67.7	68.1	69.4	69.4	69.4	69.4	—	—	—	—	—	—	—
—	—	—	—	—	—	68.0	66.0	66.4	70.1	72.2	72.8	71.22
72.9	72.9	71.4	71.4	71.4	71.8	71.8	70.1	70.1	70.1	71.7	71.3	72.17
64.7	63.5	62.8	62.8	61.9	61.9	61.9	62.3	62.3	63.9	65.0	65.0	65.33
63.3	62.8	62.8	61.4	60.7	61.8	61.8	61.7	62.7	63.0	63.3	64.6	63.25
65.4	66.0	66.2	67.5	68.4	67.4	65.0	66.0	67.0	68.0	66.6	68.9	65.47
71.6	70.9	70.1	69.8	69.8	69.4	68.0	71.2	71.4	72.1	72.1	73.7	70.69
73.1	70.7	70.7	71.0	71.1	72.2	—	—	—	—	—	—	—
—	—	—	—	—	—	70.9	70.3	71.4	71.4	71.4	73.0	72.10
66.0	65.1	64.9	64.9	66.0	66.0	65.8	66.2	64.6	64.6	66.4	66.0	66.91
61.1	60.1	59.7	61.6	61.2	61.8	61.8	61.7	63.0	63.0	64.5	65.7	64.54
66.5	66.5	65.6	64.4	66.0	66.6	67.5	66.6	66.6	66.6	68.6	68.6	65.80
72.8	72.4	72.2	71.9	71.0	72.3	71.6	71.6	71.6	71.6	71.6	73.7	71.62
68.5	68.5	69.8	69.8	70.7 <sup>f</sup>	68.9	71.4	71.2	72.5	73.6	72.4	72.7	70.35
73.1	73.1	70.7	70.7	71.9	71.9	—	—	—	—	—	—	—
—	—	—	—	—	—	72.1	71.5	71.5	68.6	67.5	70.7	72.33
73.34	73.38	73.36	73.71	74.11	74.31	74.62	74.86	75.47	76.04	76.67	77.74	75.08

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
° 64.0	° 64.0	° 64.0	° 63.8	° 63.5	° 63.5	° —	° —	° —	° —	° —	° —	° —
—	—	—	—	—	—	59.6	59.4	59.4	59.3	59.3	58.8	61.53
62.2	62.1	62.1	61.8	61.4	60.8 <sup>a</sup>	60.4	60.0	59.6	59.3	58.9	58.4	60.53
63.8	63.6	63.2	62.6	62.1	61.6	61.4	61.1	60.6	60.6	60.2	60.0	61.42
64.2	64.0	63.8	63.9	63.6	63.1	63.0	62.8	62.5	62.2	62.2	62.3	62.27
67.1	67.0	66.4	66.2	65.8	65.4	65.0	64.2	63.6	63.2	62.8	62.5	65.39
66.0	65.8	65.0	64.7	64.5	64.2	62.9	61.6	61.0	60.4	60.0	59.5	63.29
61.2	60.8	60.6	60.8	60.8	60.6	—	—	—	—	—	—	—
—	—	—	—	—	—	59.4	59.0	58.8	58.6	58.4	58.1	59.97
58.6	58.3	59.8	59.0	59.0	58.5	58.0	57.7	57.4	56.7	56.5	55.8	58.39
61.2	61.4	61.6	60.8	60.3	60.0	59.6	59.0	59.0	58.2	57.3	57.3	59.20
63.6	63.4	63.4	63.1	62.6	62.6	61.8	61.4	60.4	60.0	59.4	59.2	61.32
65.4	65.6	65.5	65.0	64.6	64.2	63.6	63.2	62.8	62.0	61.4	60.8	62.83
67.8	68.2	67.6	67.4	67.0	66.6	66.1	65.6	65.1	64.6	64.1	63.6	65.43
68.4	68.2	68.0	67.6	67.0	67.0	—	—	—	—	—	—	—
—	—	—	—	—	—	66.4	66.2	65.8	65.7	65.5	65.6	66.22
68.4	68.0	68.0	67.8	67.5	67.3	67.2	67.0	67.0	66.6	66.5	66.4	66.78
72.3	72.4	72.3	73.0	72.9	72.4	72.3	72.1	71.7	71.5	71.0	70.5	70.85
73.1	72.7	72.7	72.8	72.3	71.9	71.7	71.5	71.1	70.6	70.4	69.4	71.57
70.1	70.3	70.3	69.6	69.0	68.5	68.5	67.5	67.0	66.6	66.0	65.0	68.86
67.6	67.6	67.6	67.4	67.0	66.6	66.0	65.1	64.6	64.0	63.6	63.2	65.86
66.8	66.6	66.6	66.4	65.8	65.6	—	—	—	—	—	—	—
—	—	—	—	—	—	66.6	66.3	66.0	65.6	65.4	65.4	65.11
69.7	69.3	69.6	69.7	69.2	69.0	69.0	69.0	68.9	69.0	68.4	68.4	68.47
72.5	73.4	73.0	73.8	72.0	71.5	71.3	71.0	70.5	70.2	70.0	69.5	70.31
68.3	69.0	68.9	68.7	68.4	68.2	68.1	68.0	67.6	67.6	67.4	67.0	68.56
65.6	65.6	65.6	65.6	65.6	65.4	65.4	65.2	65.0	65.0	64.8	64.8	65.63
67.2	67.0	66.9	66.4	65.6 <sup>f</sup>	65.6 <sup>d</sup>	65.6	64.8	64.6	64.1	63.6	63.4	65.42
67.0	68.0	67.6	66.8	66.6	66.4	—	—	—	—	—	—	—
—	—	—	—	—	—	66.6	66.8	66.8	66.8	66.6	66.6	65.78
66.48	66.49	66.40	66.19	65.76	65.46	65.02	64.62	64.27	63.94	63.59	63.26	64.84

<sup>d</sup> Two minutes late.

<sup>e</sup> Four minutes late.

<sup>f</sup> Two minutes early.



VERTICAL FORCE.													
One Scale Division = .000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JULY.	1	71.5	70.2	70.2	69.1	66.4	63.7	62.8	62.7	62.1	61.0	60.1	58.9
	2	69.6	69.7	68.3	66.6	64.0	62.9	60.7	60.7	60.7	61.8	61.8	64.3
	3	66.8	66.8	66.8	65.8	63.9	63.9	63.9	64.2	63.8	65.7	66.2	67.2
	4	71.6	74.5	73.7	73.0	73.0	71.6	70.0	71.6	73.5	73.5	72.7	73.0
	5	78.6	78.6	78.6	76.4	76.4	76.1	76.1	75.5	76.9	78.2	78.2	77.0
	6	77.4	76.3	73.5	70.9	68.4	66.0	64.9	65.5	65.7	63.9	63.9	64.6
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	69.7	69.7	70.8	69.6	68.1	69.6	70.0	71.1	68.1	68.7	67.0	66.5
	9	68.8	70.0	70.0	68.0	67.1	65.8	65.7	63.5	63.5	63.9	64.1	63.1
	10	63.0	64.0	62.0	61.6	59.2	58.7	57.4	57.8	57.2	58.7	58.7	59.8
	11	67.6	65.4	65.4	65.1	61.8	60.4	59.3	56.1	58.9	58.9	58.5	58.5
	12	65.0	66.4	64.8	64.3	61.7	60.3	60.4	60.3	60.4	60.4	60.4	59.0
	13	61.0	62.2	62.2	62.2	62.0	59.9	58.1	60.1	59.4	60.0	62.3	60.1
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	61.0	61.5	61.5	60.4	60.6	59.2	60.6	60.6	60.2	60.9	61.5	62.7
	16	65.2	66.3	67.2	67.1	65.0	63.7	61.7	61.3	61.8	63.5	65.2	61.9
	17	66.5	66.7	65.9	66.0	63.4	59.5 <sup>a</sup>	57.8	58.9	58.8	58.5	61.3	63.6
	18	62.7	64.5	62.7	62.2	63.0	59.8	60.7	59.7	58.9	58.2	61.8	61.5
	19	58.9	58.9	60.1	60.1	56.6	55.9	54.6	54.6	56.6	58.3	58.0	57.2
	20	62.9	61.8	60.4 <sup>b</sup>	58.8	58.3	57.6	56.5	56.0	56.2	57.7	57.7	55.7
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	59.9	59.3	59.3	57.9	55.3	55.2	52.9	50.4	48.2	50.3	50.3	50.3
	23	54.4	54.0	53.0	52.2	50.7	49.1	45.3	47.4	47.5	47.7	48.3	49.2
	24	55.7	57.1	57.0	55.6	54.2	54.5	54.8	54.8	53.6	55.9	55.0	53.9
	25	44.0	43.1	46.3	52.5	52.4	51.5	53.7	56.3	56.8	60.0	61.5	59.7
	26	63.3	60.9	59.9	59.9	60.2	59.2	58.1	57.2	58.3	59.6	55.1	62.0
	27	55.7	57.7	59.5	59.5	54.7	57.1	57.1	56.3	58.7	58.0	62.3	63.1
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	61.4	61.4	60.0	58.9	58.1	54.9	52.9	49.5	50.3	51.7	51.2	51.2
	30	53.9	54.5	54.3	54.3	54.7	54.7	54.7	54.1	54.3	55.1 <sup>d</sup>	56.6	56.6
	31	55.8	55.5	55.5	54.7	51.1	50.1	50.0	49.3	48.4	50.5	48.8	50.3
Hourly Means	63.40	63.59	63.29	62.69	61.12	60.03	59.29	59.04	59.21	60.02	60.48	60.40	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
JULY.	1	66.0	66.5	67.4	67.5	68.4	68.6	70.3	71.0	71.9	73.0	73.5	74.1
	2	67.6	67.8	68.0	68.5	68.8	69.3	69.9	70.5	71.0	71.3	71.5	71.7
	3	68.5	68.4	68.5	68.7	68.8	69.0	69.1	69.5	69.8	69.7	69.7	69.7
	4	64.4	64.6	63.8	64.2	64.2	64.6	64.8	64.6	64.6	65.0	65.4	65.8
	5	61.6	61.6	61.6	61.6	61.8	62.2	62.6	62.8	62.9	62.9	63.0	63.0
	6	62.8	63.4	64.4	65.0	65.5	66.4	67.4	68.4	68.8	69.8	70.3	70.5
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	63.6	63.6	63.6	63.9	64.2	64.6	65.0	65.6	66.0	66.6	67.4	68.0
	9	65.8	65.8	66.1	66.8	67.6	68.6	69.0	69.5	69.8	70.3	70.5	70.3
	10	69.7	69.7	70.3	70.7	71.3	71.7	72.3	72.3	72.3	72.5	73.0	73.3
	11	68.4	68.4	68.6	68.8	69.5	70.0	70.6	71.1	71.6	72.1	72.7	73.2
	12	68.4	68.6	68.8	68.9	69.5	69.8	70.2	70.4	71.3	71.7	72.5	72.9
	13	70.2	69.9	69.6	69.7	69.7	70.1	70.4	71.0	71.2	71.5	71.7	72.0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	69.6	69.4	69.4	69.6	69.5	69.5	69.6	70.0	70.0	70.1	70.0	70.0
	16	67.0	66.6	66.6	66.6	67.0	67.1	67.6	67.8	67.8	68.2	68.4	68.7
	17	65.8	66.0	66.4	66.6	67.4	68.3	68.5	69.0	69.5	69.9	70.5	70.7
	18	67.4	66.4	67.3	67.5	68.3	68.8	69.5	70.2	70.6	71.0	71.2	71.5
	19	69.9	69.8	69.6	69.5	69.7	70.0	70.2	70.5	70.7	71.3	71.5	72.0
	20	69.1	69.3	69.5 <sup>b</sup>	69.9	69.8	70.3	70.5	70.8	71.0	71.2	71.6	71.6
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	69.5	69.5	69.7	70.2	70.7	72.1	72.5	73.3	73.4	73.7	74.4	74.6
	23	71.5	71.5	71.5	71.8	72.4	73.0	73.6	73.9	74.6	74.8	74.8	75.0
	24	70.5	70.3	70.3	70.7	71.0	70.9	71.1	71.5	71.9	72.3	72.3	72.2
	25	71.8	70.9	70.0	70.0	70.2	70.4	70.6	70.8	71.0	71.2	71.4	71.4
	26	67.6	67.6	67.6	67.8	67.9	68.4	68.6	69.0	69.0	69.2	69.4	69.7
	27	65.6	66.0	66.4	67.0	67.8	69.0	69.4	69.8	70.2	70.4	70.6	70.9
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	67.4	67.6	68.0	68.6	69.4	71.0	71.6	72.2	72.9	73.2	73.7	73.9
	30	71.2	70.9	70.9	70.9	71.2	71.2	71.3	71.4	71.6	71.8	71.6	71.5
	31	71.0	71.0	71.5	72.0	72.5	73.3	73.9	74.0	74.5	75.2	75.5	75.5
Hourly Means	67.85	67.82	67.98	68.26	68.67	69.19	69.63	70.03	70.35	70.72	71.04	71.25	

<sup>a</sup> Seven minutes late.

<sup>b</sup> Two minutes late.

VERTICAL FORCE.												
One Scale Division = '000062 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 58.8	Sc. Div. 58.8	Sc. Div. 58.8	Sc. Div. 59.7	Sc. Div. 60.4	Sc. Div. 60.4	Sc. Div. 62.0	Sc. Div. 62.0	Sc. Div. 64.3	Sc. Div. 65.6	Sc. Div. 67.2	Sc. Div. 68.8	Sc. Div. 68.8
64.5	64.5	62.9	62.9	62.9	63.0	64.1	64.7	64.7	64.7	65.5	67.5	64.29
66.5	66.5	66.5	67.8	67.8	69.0	70.8	63.8	69.0	71.8	71.8	75.0	67.14
72.0	70.9	70.6	71.5	72.6	73.4	73.4	74.8	74.8	75.1	77.4	77.4	73.09
77.0	77.0	77.0	77.0	77.0	77.0	76.2	75.2	76.2	76.5	77.2	77.4	76.97
63.9	63.4	64.9	64.6	64.6	66.5	—	—	—	—	—	—	—
—	—	—	—	—	—	63.7	64.2	64.2	68.9	64.4	65.0	66.64
68.3	67.6	67.0	68.1	66.1	60.8	59.0	55.9	55.9	56.2	62.6	66.1	65.94
64.6	64.6	64.6	65.3	63.0	63.0	63.4	63.4	63.4	59.8	59.8	62.0	64.60
58.9	60.0	59.3	59.3	61.4	61.4	61.9	66.5	63.7	63.7	65.6	65.6	61.06
57.9	56.7	55.0	55.4	57.3	57.3	56.8	59.2	59.2	58.2	61.9	64.4	59.80
56.8	56.8	56.8	57.2	58.1	58.8	53.6	56.6	59.7	60.9	59.9	59.9	59.94
60.1	59.2	59.2	59.2	59.2	58.6	—	—	—	—	—	—	—
—	—	—	—	—	—	51.9	56.4	57.8	58.8	59.7	61.0	59.61
62.7	62.7	63.7	64.1	62.3	62.9	59.9	63.0	63.0	64.4	64.3	66.9	62.11
64.1	62.9	62.4	60.9	62.4	62.4	61.6	62.2	63.6	63.6	65.2	64.7	63.58
63.6	61.1	60.3	58.3	60.2	58.5	58.5	59.4	60.0	61.1	61.6	63.2	61.36
58.6	57.8	57.8	56.0	57.5	54.7	55.5	55.8	57.8	57.8	57.9	57.9	59.20
55.9	56.0	56.2	55.1	56.3	58.0	58.0	59.5	60.0	60.5	60.5	61.3	57.80
55.7	55.1	54.3	55.6	53.6	57.5	—	—	—	—	—	—	—
—	—	—	—	—	—	56.1	56.1	56.1	58.1	58.1	59.9	57.33
50.5	50.5	47.7	48.2	48.2 <sup>c</sup>	48.2	50.2	50.4	50.4	52.9	52.9	53.4	52.20
49.2	49.2	49.2	49.2	50.7	49.9	51.1	51.2	52.8	53.6	53.6	54.2	50.53
53.3	53.5	50.4	49.5	50.8	52.3	50.9	47.6	21.4	34.9	35.9	45.9	50.35
58.9	58.7	56.9	56.9	56.4	51.2	52.4	50.4	49.2	54.1	58.6	62.1	54.32
59.9	59.9	59.2	59.2	59.2	60.2	58.3	57.2	57.2	53.5	51.5	56.0	58.73
60.0	60.0	56.4	58.4	58.4	55.3	—	—	—	—	—	—	—
—	—	—	—	—	—	55.4	58.2	60.0	60.0	59.7	62.5	58.50
51.2	50.2	48.4	48.4	48.4	50.7	50.7	51.7	52.8	53.3	53.3	52.8	53.06
56.6	56.4	56.4	56.2	56.2	55.4	52.3	48.5	53.6	54.3	55.8	55.8	54.80
50.4	44.2	45.8	45.8	45.6	47.0	47.0	46.9	53.3	53.3	53.1	55.0	50.31
60.00	59.41	58.80	58.88	59.13	59.01	58.32	58.55	58.67	59.84	60.56	62.29	60.25
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
74.4	74.5	73.5	73.0	72.3	71.5	70.1	70.0	69.2	68.6	68.3	67.6	70.47
71.5	71.5	71.5	71.5	71.0	70.5	70.0	69.6	69.3	69.0	69.0	68.5	69.95
69.7	69.3	69.0	68.4	67.6	67.2	66.6	66.0	65.6	65.1	64.4	63.8	68.00
65.9	66.0	65.8	66.0	65.6	65.0	64.7	64.2	64.0	63.4	63.0	62.5	64.67
62.9	62.8	63.3	63.0	63.0	63.0	63.0	63.0	63.0	62.6	62.6	62.6	62.60
70.5	70.5	70.0	69.7	69.1	68.6	—	—	—	—	—	—	—
—	—	—	—	—	—	66.0	66.0	65.4	64.8	64.4	63.6	67.14
68.6	68.6	68.7	68.6	68.6	68.0	67.4	67.8	67.5	67.0	66.6	66.1	66.48
70.3	70.3	70.3	70.5	70.1	69.9	69.7	69.5	69.4	69.3	69.2	68.7	69.05
73.2	72.6	72.3	71.8	71.6	71.6	71.0	70.8	70.1	69.8	69.0	68.6	71.31
73.3	73.5	74.1	73.7	72.9	72.7	72.5	71.4	70.8	70.2	69.8	68.6	71.19
73.2	73.1	73.4	72.6	72.2	72.0	71.6	71.2	70.8	70.6	70.4	70.8	71.04
72.0	72.0	72.0	71.5	71.3	71.3	—	—	—	—	—	—	—
—	—	—	—	—	—	72.5	72.2	72.0	71.4	70.6	70.0	71.07
69.5	69.5	69.2	69.4	69.0	68.8	68.5	68.4	68.1	68.0	67.6	67.4	69.17
68.8	69.0	69.5	69.3	69.2	69.0	68.8	68.6	68.0	67.8	67.4	66.6	67.97
70.7	71.0	71.8	71.9	70.8	70.7	70.0	69.8	69.4	69.0	68.0	67.4	69.13
71.5	71.5	71.8	71.8	71.4	71.2	71.0	70.8	70.7	70.5	70.4	70.1	70.10
72.0	71.5	71.5	71.3	70.9	70.6	70.2	69.8	69.4	69.0	68.6	68.3	70.32
71.8	72.1	72.1	72.0	71.5	71.0	—	—	—	—	—	—	—
—	—	—	—	—	—	71.5	71.0	70.9	70.2	69.6	69.3	70.73
74.4	74.4	75.2	74.8	74.6	74.6	74.0	73.5	73.1	72.7	72.5	71.9	72.89
75.0	74.7	74.7	74.5	74.0	73.8	73.5	72.8	72.2	71.8	71.4	71.1	73.25
72.2	72.0	72.6	72.9	72.9	72.6	72.6	72.6	72.6	72.0	72.2	72.2	71.82
71.4	71.2	71.0	70.6	70.5	69.8	69.3	69.0	68.6	68.0	67.6	67.4	70.17
69.7	69.7	69.7	69.5	69.0	68.2	68.0	67.6	67.1	66.6	66.6	65.6	68.30
70.8	71.0	70.8	69.8	69.5	68.8	—	—	—	—	—	—	—
—	—	—	—	—	—	69.5	69.3	68.7	68.2	68.9	68.0	69.02
74.3	74.3	74.5	74.5	74.1	73.8	73.5	73.0	72.4	72.0	72.0	71.4	72.05
71.5	71.5	71.5	71.5	71.5	71.4	71.4	71.6	71.6	71.4	71.3	71.3	71.38
75.5	75.5	75.5	75.5	75.3	75.3	74.8	73.5	73.0	72.6	72.3	71.5	73.76
71.28	71.24	71.31	71.10	70.72	70.40	70.06	69.74	69.37	68.95	68.66	68.18	69.74

<sup>c</sup> Eight minutes late.

<sup>d</sup> Four minutes late.

VERTICAL FORCE.													
One Scale Division = .000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
AUGUST.	1	52.6	50.5	48.6	47.4	45.3	36.9	42.8	56.9	64.3	61.5	56.0	55.7
	2	48.9	51.8	52.9	53.2	53.2	49.0	48.7	49.0	51.2	52.3	56.5	56.5
	3	51.0	50.5	53.5	55.5	54.4	53.9	54.7	54.7	57.3	58.4	60.1	62.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	64.3	64.8	65.2	63.7	63.7	62.8	60.0	60.0	60.2	60.7	60.5	60.5
	6	61.6	61.6	61.6	60.9	60.9	59.6	59.0	58.2	59.1	59.9	58.6	58.5
	7	65.1	63.7	63.0	62.4	61.8	60.8	60.8	60.7	59.7	59.7	59.7	58.6
	8	57.0	57.7	57.7	55.8	55.8	55.8	54.6	55.6	55.9	55.9	55.0	55.0
	9	49.9	47.3	41.8	45.7	43.5	46.1	48.6	50.2	53.3	54.4	53.7	58.4
	10	58.0	57.4	57.4	57.2	56.3	54.1	54.3	54.9	54.9	55.6	55.6	55.7
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	68.6	70.9	69.6	68.7	67.1	67.1	64.1	63.6	66.0	64.9	64.3	63.0
	13	68.9	69.3	67.8	65.7	64.8	65.4 <sup>a</sup>	64.7	63.3	62.5	61.5	61.0	61.0
	14	64.2	64.2	63.9	64.7	63.7	63.5	63.5	62.5	62.5	61.8	61.4	61.4
	15	62.6	62.4	60.8	59.5	57.7	56.1	55.1	55.2	55.2	55.4	54.9	54.3
	16	58.7	58.7	57.3	55.9	53.5	50.5	50.5 <sup>b</sup>	51.7	51.7	54.5	54.3	55.6
	17	54.0	53.1	53.1	51.3	49.1	49.1	49.7	49.2	50.9	50.9	51.4	51.9
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	55.3	55.4	56.7	55.3	54.7	53.6	52.4	51.9	50.6	50.0	50.0	51.0
	20	52.2	53.5	54.1	55.2	55.1	53.2	51.9	52.1	53.2	53.9	54.8	54.7
	21	59.1	60.5	60.5	57.8	57.0	57.0	55.6	55.6	55.6	56.4	56.4	58.0
	22	60.6	60.6	60.6	58.6	58.6	59.8	59.8	62.6	66.5	64.3	65.3	68.2
	23	51.1	51.2	56.3	55.1	59.2	60.4	64.7	60.9	61.2	60.0	58.3	58.3
	24	61.7	62.2	60.2	60.4	62.3	62.3	60.2	60.7	65.0	66.1	72.5	70.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	67.9	68.8	68.8	65.8	65.5	64.4	64.4	64.4	64.8	64.8	65.5	66.1
	27	67.3	67.3	67.3	66.0	63.7	62.9	64.3	66.0	67.5	67.5	67.1	66.4
	28	70.0	70.0	69.4	69.2	67.9 <sup>b</sup>	67.4 <sup>a</sup>	67.2	67.2	67.9	67.6	68.4	67.3
	29	70.3	69.3	68.9	66.9 <sup>c</sup>	66.7	65.7	64.8	64.8	66.1	67.3	66.9	69.1
	30	64.6	63.6	62.2	63.5	63.5	65.9	67.6	68.2	69.8	69.8	68.8	67.1
	31	59.4	61.0	60.2	58.9	59.3	59.7	61.7	61.2	61.9	62.3	61.2	59.9
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	60.18	60.27	59.98	59.27	58.68	57.89	57.99	58.57	59.81	59.90	59.93	60.17	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
AUGUST.	1	72.1	72.5	73.4	73.4	73.6	73.5	74.5	75.0	75.5	75.9	76.2	76.6
	2	71.8	72.0	72.2	72.5	73.0	73.5	74.0	73.8	74.3	74.4	74.6	75.0
	3	68.7	68.5	68.7	68.7	69.0	69.5	69.7	70.4	70.7	71.0	71.3	71.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	65.3	65.5	66.0	66.5	67.0	67.5	68.0	68.5	68.8	69.3	69.5	69.5
	6	67.6	67.6	67.4	67.6	68.1	68.7	69.0	69.2	69.7	70.1	70.5	70.5
	7	66.0	66.5	66.8	67.6	67.6	68.6	68.9	69.2	69.5	70.0	70.0	70.2
	8	68.4	68.4	68.4	68.4	68.6	69.0	69.6	70.1	70.5	70.8	71.3	71.7
	9	70.5	70.3	70.3	70.5	71.0	71.9	72.5	73.0	73.0	73.2	73.2	73.3
	10	70.0	70.2	70.0	69.9	69.7	70.0	70.0	70.3	70.5	70.7	71.0	71.0
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	63.4	63.1	63.3	63.6	64.0	64.4	65.0	65.6	66.0	66.4	66.6	66.4
	13	63.6	63.5	63.6	64.1	64.8	65.0 <sup>a</sup>	65.8	66.5	66.9	67.2	67.6	67.6
	14	65.4	65.4	65.4	65.2	65.4	65.6	66.0	66.4	66.8	67.4	67.8	68.4
	15	66.2	66.0	67.0	67.4	68.0	68.6	69.3	69.9	70.3	71.0	71.3	71.7
	16	68.4	68.6	69.0	69.0	69.5	70.0	70.4 <sup>b</sup>	71.3	71.9	72.2	72.7	72.7
	17	71.0	71.0	71.2	71.5	71.7	72.3	72.5	73.0	73.0	73.4	73.6	73.7
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	69.5	69.2	69.3	69.5	69.9	70.5	71.3	71.5	71.7	72.4	73.0	73.4
	20	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.9
	21	66.4	66.4	67.2	67.5	68.1	68.4	68.5	68.5	68.5	68.5	68.0	68.4
	22	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4	65.6	66.2	67.0	67.2
	23	68.0	68.4	68.5	68.6	68.6	68.6	68.8	69.0	69.0	69.0	69.4	69.5
	24	65.0	65.5	65.5	66.0	66.4	66.7	67.0	67.6	67.6	67.6	67.6	67.4
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	62.6	62.4	62.6	63.0	63.7	64.3	64.6	65.0	65.4	65.6	65.6	65.6
	27	63.3	62.8	63.0	63.1	63.5	63.8	64.0	64.0	64.4	64.4	64.8	65.0
	28	62.1	62.0	62.4	62.4	63.0 <sup>b</sup>	63.2 <sup>a</sup>	63.5	63.5	64.0	64.2	64.4	64.4
	29	62.0	62.0	62.2	63.0 <sup>c</sup>	63.3	63.6	64.2	64.3	64.5	65.0	65.3	65.6
	30	63.4	62.8	62.2	62.7	63.0	63.6	63.8	64.4	64.8	65.0	65.3	65.6
	31	66.2	66.2	66.3	66.6	67.0	67.6	68.2	68.4	68.5	68.7	69.4	69.5
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	66.76	66.76	66.94	67.18	67.52	67.93	68.32	68.68	68.96	69.27	69.54	69.71	

<sup>a</sup> Three minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Four minutes late.

VERTICAL FORCE.												
One Scale Division = '000062 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fahr. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 56.0	Sc. Div. 56.0	Sc. Div. 49.8	Sc. Div. 46.1	Sc. Div. 46.1	Sc. Div. 44.5	Sc. Div. 39.6	Sc. Div. 36.9	Sc. Div. 35.5	Sc. Div. 33.5	Sc. Div. 40.8	Sc. Div. 43.5	Sc. Div. 47.78
58.6	55.3	53.2	41.0	49.2	49.2	48.1	42.4	47.4	46.0	49.8	51.0	50.60
62.1	60.6	57.8	57.8	52.5	40.4	—	—	—	—	—	—	55.70
—	—	—	—	—	—	53.2	50.4	57.5	55.5	58.8	63.7	—
62.3	60.7	58.8	58.8	59.1	59.7	59.7	60.0	58.5	58.5	59.8	59.7	60.90
58.0	57.8	57.8	58.8	58.8	59.2	59.8	59.8	61.0	61.0	63.0	64.4	59.95
57.9	56.9	56.9	57.8	57.8	58.1	58.1	57.9	57.6	56.8	56.8	58.5	59.46
54.4	54.4	53.1	54.0	53.1	53.5	50.9	50.9	53.1	53.9	53.1	54.7	54.62
59.8	57.7	59.0	57.1	54.8	48.6	49.0	48.7	51.7	45.5	48.2	50.1	50.96
55.7	55.9	57.0	51.5	56.0	57.0	—	—	—	—	—	—	—
—	—	—	—	—	—	64.0	65.6	64.5	64.0	68.6	68.6	58.33
62.9	62.2	63.2	63.9	64.7	63.5	62.8	60.6	60.6	60.2	67.5	68.9	64.95
61.0	61.0	60.1	60.7	60.7	61.3	61.3	62.7	63.6	63.6	64.3	64.2	63.35
61.4	58.9	58.9	59.3	59.3	60.4	60.4	60.4	60.1	60.1	61.0	62.1	61.65
53.7	52.8	54.2	54.2	54.6	54.6	54.6	55.4	55.6	55.8	57.9	57.9	56.32
54.0	52.7	52.7	52.8	52.8	51.9	52.7	52.7	51.4	51.4	53.4	54.3	53.57
51.9	51.6	51.5	53.2	51.3	51.9	—	—	—	—	—	—	—
—	—	—	—	—	—	54.8	54.8	52.0	52.0	55.0	55.0	52.03
49.1	48.7	47.5	47.5	48.6	48.6	48.6	48.5	50.4	51.5	53.3	53.3	51.35
54.7	54.7	54.7	55.7	55.7	55.0	55.0	56.3	57.4	56.3	58.7	59.1	54.88
57.7	57.0	56.2	57.5	59.5	60.2	60.5	60.5	60.5	61.1	60.8	60.8	58.41
65.8	67.7	64.3	54.5	54.5	59.2	59.2	58.2	51.7	48.8	52.1	47.8	59.55
57.0	58.7	58.6	55.0	57.8	42.6	50.1	52.3	56.3 <sup>c</sup>	52.7	57.3	58.5	56.40
67.5	64.8	64.8	63.8	63.8	63.8	—	—	—	—	—	—	—
—	—	—	—	—	—	54.0	60.9	62.1	64.4	67.9	68.0	63.73
66.1	65.0	65.0	63.3	64.3	65.4	64.8	64.8	64.8	65.8	67.0	67.0	65.60
65.7	65.4	65.4	65.0	62.0	64.1	65.7	65.7	66.3	66.3	67.4	69.5	65.91
65.8	65.8	65.8	64.5	65.5	66.2	67.1	67.6	67.6	67.2	68.9	69.3	67.53
71.0	72.7	70.4	77.1	44.4	68.5	69.0	60.7	52.0	60.3	64.3	64.0	65.88
68.1	65.2	57.1	61.7	61.7	57.0	41.7	54.0	56.8	60.8	55.1	54.3	62.00
59.9	59.9 <sup>d</sup>	59.0	57.3 <sup>e</sup>	57.0	54.4	—	—	—	—	—	—	—
—	—	—	—	—	—	52.6	55.4	55.1	55.3	56.1	58.5	58.63
59.93	59.26	58.25	57.41	56.50	56.25	56.23	56.46	56.71	56.60	58.78	59.51	58.52
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
76.7	76.7	76.7	76.3	75.8	75.5	74.7	74.3	74.0	73.3	72.5	71.8	71.60
75.0	74.9	74.8	74.2	73.9	73.3	72.3	71.4	71.0	70.6	70.0	69.3	72.99
71.3	71.0	71.0	70.8	70.8	70.5	—	—	—	—	—	—	—
—	—	—	—	—	—	67.6	67.0	66.8	66.0	65.6	65.4	69.23
69.5	69.5	69.5	69.2	69.0	68.5	68.5	68.3	68.1	68.1	68.0	67.6	68.13
70.5	70.5	70.1	69.5	69.4	69.0	68.5	68.1	67.6	67.3	66.9	66.5	68.75
70.4	70.5	70.4	70.3	70.1	69.8	69.8	69.5	69.5	69.3	69.0	68.6	69.09
72.0	71.8	72.3	72.4	72.4	71.9	72.0	71.8	71.0	71.0	71.0	70.8	70.65
73.3	73.5	73.5	73.2	73.0	72.6	72.3	71.7	71.5	71.0	70.5	70.2	72.04
71.0	70.8	70.6	70.4	70.0	70.0	—	—	—	—	—	—	—
—	—	—	—	—	—	65.6	65.0	64.8	64.5	63.8	63.4	68.88
66.6	66.6	66.6	66.6	66.4	65.8	65.6	65.0	64.7	64.1	63.7	63.6	65.13
67.6	67.6	67.6	67.4	67.1	66.9	66.4	66.6	66.4	66.0	65.6	65.6	66.13
69.4	69.4	69.5	68.6	68.4	68.2	67.9	67.4	67.0	67.0	66.6	66.4	67.13
71.9	71.7	71.3	71.0	70.7	70.4	70.2	70.0	69.7	69.4	68.8	68.1	69.58
72.6	72.4	72.4	72.4	72.4	72.4	72.4	72.0	71.9	71.5	71.5	71.3	71.29
73.5	73.5	73.1	72.5	71.7	71.0	—	—	—	—	—	—	—
—	—	—	—	—	—	69.8	69.6	69.8	69.5	69.5	69.5	71.70
73.5	73.7	73.7	73.9	73.3	72.8	72.5	72.5	72.2	72.2	71.9	71.4	71.87
71.0	70.8	70.5	69.5	69.2	69.0	68.4	67.6	67.3	67.3	67.3	66.7	69.68
68.5	68.6	68.5	68.4	67.8	67.4	66.8	66.4	65.8	65.6	65.5	65.4	67.46
67.6	68.2	68.5	68.4	68.5	68.4	68.4	68.3	68.2	68.1	68.0	68.0	66.88
69.5	70.0	69.2	68.6	68.1	67.7	67.3	67.1	66.8 <sup>c</sup>	66.6	66.0	65.5	68.24
67.0	67.0	67.0	66.6	66.2	66.0	—	—	—	—	—	—	—
—	—	—	—	—	—	64.3	64.3	63.8	63.6	63.0	62.6	65.89
65.5	65.4	65.0	65.3	65.0	64.6	64.6	64.0	63.6	63.6	63.6	63.5	64.34
65.2	65.3	65.1	64.8	64.4	64.4	63.8	63.4	63.2	62.8	62.5	62.5	63.90
64.2	64.4	64.4	64.0	64.0	63.6	63.4	63.0	62.7	62.5	62.4	62.2	63.33
65.9	66.4	66.4	66.0	66.9	66.4	65.0	64.8	65.4	64.0	63.6	63.4	64.55
65.6	66.8	67.6	67.6	67.4	67.0	66.8	66.8	66.7	66.6	66.6	66.8	65.37
69.5	69.3 <sup>d</sup>	69.3	69.1 <sup>e</sup>	68.6	68.6	—	—	—	—	—	—	—
—	—	—	—	—	—	68.5	68.5	68.5	68.5	68.5	68.5	68.25
69.79	69.86	69.80	69.52	69.28	68.95	68.27	67.94	67.70	67.41	67.11	66.84	68.33

<sup>d</sup> Nine minutes late.

<sup>e</sup> Ten minutes late.

VERTICAL FORCE.													
One Scale Division = '000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fahr. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	58.5	58.5	56.3	56.8	56.8	55.4	56.1	56.5	57.4	57.4	55.3	54.3
	3	61.7	61.7	60.9	60.9	58.8	58.0	59.0	58.7	58.4	58.4	57.4	56.2
	4	58.4	60.2	58.7	57.5	57.7	57.7	57.7	57.9	58.5	60.5	61.6	59.3
	5	64.5	65.0	64.2	63.4	62.5	61.1	61.1	62.0	61.2	61.2	60.9	59.8
	6	64.7	64.7	63.3	60.9	59.6	58.3	57.4	58.4	57.9	57.8	57.8	56.8
	7	61.7	60.7	59.0	58.0	56.0	55.8	55.8	56.9	57.3	56.4	56.4	56.4
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	58.4	57.4	56.9	58.1	59.2	59.9	59.2	59.8	59.8	58.2	60.3	58.2
	10	62.0	62.3	61.5	61.7	61.7	61.8	61.7	60.5	59.4	57.3	56.4	54.4
	11	58.7	58.9	57.5	57.5	57.5	56.9	56.2	56.3	55.3	56.4	54.8	54.1
	12	58.6	60.5	59.3	58.7	57.3	57.8	57.0	58.1	58.1	59.2	58.5	56.8
	13	61.6	61.6	60.0	59.4	57.1	57.0	56.7	57.5	56.4	56.9	56.3	54.9
	14	61.3	59.3	58.8	58.3	57.2	56.1	58.1	56.6	56.9	55.0	53.3	52.2
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	54.7	54.3	53.0	52.1	50.9	49.5	49.5	49.1	49.1	48.9	48.9	46.0
	17	54.1	54.6	52.9	50.8	50.5	51.1	51.0	49.4	49.2	48.2	45.4	45.4
	18	54.9	53.1	51.9	50.1	49.4	49.6	50.6	51.3	51.7	53.3	51.3	49.8
	19	52.9	51.6	51.5	52.2	51.3	50.7	50.7	51.5	52.9	50.9	50.8	49.9
	20	39.3	47.4	48.3	47.6	47.3	49.7	48.9	47.8	52.6	50.7	49.4	48.5
	21	44.1	46.1	47.5	46.7	46.7	46.1	46.1	48.5	50.8	52.6	54.3	54.3
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	73.1	73.1	73.2	71.0	71.0	70.6	71.6	72.6	72.6	72.0	72.0	72.0
	24	76.6	78.7	77.8	76.7	78.2	76.8	79.1	79.9	79.5	78.9	77.1	76.3
	25	71.1	75.4	76.5	76.5	76.4	77.6	77.6	81.0	82.3	83.9	84.1	84.1
	26	68.7	78.5	77.3	79.4	78.2	82.4	83.2	88.7	90.8	94.5	87.8	87.5
	27	66.9	81.4	83.4	82.5	82.2	83.5	79.8	86.7	88.1	87.7	85.6	85.5
	28	89.3	89.7	90.0	89.7	87.8	85.8	88.5	87.8	86.5	86.9	86.2	86.2
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	87.8	87.3	85.9	84.9	86.9	86.9	86.2	84.6	83.1	83.1	83.1	82.5
Hourly Means	62.54	64.08	63.42	62.86	62.33	62.24	62.36	63.12	63.43	63.45	62.60	61.66	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	68.2	68.3	68.4	68.4	68.5	68.6	69.0	69.0	69.6	70.1	70.6	71.4
	3	66.8	66.6	67.2	67.6	69.2	68.4	68.6	68.7	69.2	69.5	70.0	70.0
	4	66.0	67.0	67.6	67.9	68.3	68.6	68.6	69.0	69.2	69.3	69.6	69.7
	5	64.2	64.0	64.0	64.5	65.5	66.0	66.5	66.6	66.8	67.0	67.3	67.3
	6	63.8	64.4	64.8	65.4	66.2	66.8	67.4	68.0	68.4	68.7	69.0	69.2
	7	65.6	65.8	66.5	67.4	67.7	68.0	68.6	69.0	69.2	69.3	69.7	69.5
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	67.4	67.4	67.4	67.4	67.4	67.6	67.6	68.2	68.2	68.6	68.6	68.6
	10	66.6	66.4	66.4	66.5	66.4	66.6	67.0	67.5	68.0	68.6	69.0	69.0
	11	67.4	67.4	67.4	67.4	67.4	67.6	68.0	68.4	68.7	69.0	69.0	69.1
	12	66.7	65.5	66.4	66.6	67.2	67.6	68.0	68.4	68.6	68.8	69.3	69.5
	13	66.6	66.2	66.2	66.8	67.0	67.8	68.3	68.5	68.8	69.0	69.3	69.5
	14	65.6	66.0	66.2	66.6	67.3	67.7	68.3	69.0	69.5	70.0	70.5	71.0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	69.5	69.4	69.5	70.0	70.5	71.5	72.0	72.3	72.7	73.0	73.9	74.3
	17	69.0	68.7	69.0	69.5	70.0	71.0	71.5	72.1	72.7	73.5	74.1	74.6
	18	69.3	69.9	70.0	70.2	70.2	70.8	70.9	71.1	71.3	71.3	71.4	71.5
	19	68.3	67.9	68.0	68.1	68.3	68.9	69.5	69.5	70.0	70.7	71.3	71.6
	20	69.5	69.7	70.1	70.5	71.0	71.5	72.0	72.6	73.0	73.5	73.7	73.8
	21	71.0	70.8	71.3	72.0	72.4	72.4	72.0	71.4	70.7	70.2	69.5	69.1
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	57.8	57.8	57.8	58.4	59.0	59.2	59.4	59.2	59.3	59.3	59.3	59.6
	24	56.5	56.6	56.5	56.5	56.3	56.9	57.1	57.3	57.5	57.9	58.3	58.3
	25	56.0	55.5	55.0	55.0	55.2	55.4	55.5	55.5	55.6	55.7	55.8	55.8
	26	53.6	54.0	54.3	54.3	55.3	55.3	55.6	56.0	56.2	56.2	56.2	56.3
	27	52.0	52.0	53.0	52.8	53.3	53.6	53.8	53.8	54.1	54.3	54.8	55.1
	28	51.2	50.6	50.3	50.2	50.4	51.0	51.4	52.1	52.1	52.5	52.8	53.1
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	52.0	51.6	52.2	52.4	53.0	54.0	54.8	55.3	55.7	56.3	57.0	57.1
Hourly Means	63.62	63.62	63.82	64.10	64.52	64.91	65.26	65.54	65.80	66.09	66.40	66.56	

VERTICAL FORCE.												
One Scale Division = .000062 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = .00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
53.1	53.7	55.0	56.4	54.2	55.6	55.6	58.7	58.8	59.3	58.2	57.3	56.47
54.2	54.2	54.2	54.9	56.5	54.9	52.5	58.4	59.7	59.7	59.7	61.2	57.92
58.8	58.2	58.2	60.2	60.2	60.2	60.3	62.3	61.7	61.4	62.4	63.7	59.72
59.5	59.5	59.5	60.9	61.9	61.8	61.9	62.2	62.7	62.9	63.6	64.7	62.00
56.7	56.7	56.7	56.7	56.7	57.9	56.7	56.8	58.0	59.3	59.9	59.7	58.72
56.8	56.5	56.5	56.5	56.5	53.6	—	—	—	—	—	—	—
—	—	—	—	—	—	50.0	47.3	46.3	54.3	58.3	58.3	55.89
58.2	55.8	57.8	57.8	60.1	60.1	59.6	56.8	56.8	56.8	59.9	61.7	58.62
54.4	54.4	55.6	56.0	56.0	56.0	56.0	57.8	57.8	57.6	57.8	58.3	58.27
55.0	54.9	54.9	56.5	56.8	57.6	56.7	57.5	57.5	58.3	58.6	58.6	56.79
55.7	54.6	54.6	54.9	55.3	56.9	56.9	56.9	59.1	58.8	60.2	60.2	57.67
54.1	54.4	53.8	53.8	56.3	56.8	58.3	58.7	58.7	59.0	59.0	58.7	57.37
52.2	50.5	52.3	50.4	44.3	50.3	—	—	—	—	—	—	—
—	—	—	—	—	—	50.7	44.7	45.7	51.5	49.9	55.8	53.39
46.0	46.3	51.7	51.7	50.8	50.8	50.8	51.7	51.7	53.0	54.1	54.1	50.78
42.3	42.3	46.3	42.9	47.7	48.3	49.5	49.1	49.0	49.7	51.8	54.1	48.98
49.5	46.9	47.5	48.0	46.5	48.5	44.8	49.2	51.3	50.9	51.3	53.0	50.18
49.9	49.3	50.7	33.8	45.3	47.3	38.9	47.9	47.5	52.3	52.3	36.7	48.70
46.8	46.6	47.1	43.7	44.3	47.0	42.0	36.8	43.1	41.2	43.3	43.7	45.96
56.4	57.1	56.3	60.7	60.7	60.6	—	—	—	—	—	—	—
—	—	—	—	—	—	70.7	68.3	54.6	65.4	69.7	70.9	55.63
72.0	71.7	72.7	72.9	75.1	70.3	70.0	68.8	69.3	71.2	71.2	75.9	71.91
76.3	75.4	75.4	73.0	69.9	73.2	74.6	76.4	77.0	77.6	77.0	77.0	76.60
93.9	96.3	83.0	80.8	78.1	81.3	83.9	83.2	73.2	70.0	73.7	63.8	79.49
88.0	84.0	83.9	83.5	83.5	78.2	78.2	63.2	46.3	68.4	68.0	64.2	78.60
84.8	84.7	84.7	81.8	75.8	70.3	83.2	85.7	86.9	87.5	88.0	88.3	83.12
87.4	87.4	87.4	87.4	87.4	89.0	—	—	—	—	—	—	—
—	—	—	—	—	—	65.6	65.6	67.6	75.9	79.6	86.5	84.22
81.9	83.6	73.8	73.9	74.4	69.9	62.9	17.5	3.8	2.2	34.5	32.8	68.06
61.76	61.40	61.18	60.36	60.57	60.66	59.61	57.66	56.16	58.75	60.88	60.77	61.40

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
71.5	71.5	71.2	70.5	70.0	69.3	69.3	68.5	68.4	68.2	67.8	67.2	69.31
70.4	70.4	70.4	69.7	69.0	68.6	68.5	68.0	67.7	67.4	67.1	66.6	68.57
69.5	69.0	68.6	68.4	67.3	66.9	66.0	66.0	65.8	65.6	65.0	64.6	67.65
67.4	67.3	66.8	66.9	66.8	66.6	66.0	65.5	65.0	64.8	64.3	63.8	65.87
69.2	69.2	68.9	68.7	68.3	68.0	67.6	67.4	67.0	66.7	66.4	66.0	67.31
69.5	69.5	69.5	69.5	69.0	68.5	—	—	—	—	—	—	—
—	—	—	—	—	—	68.7	68.5	68.3	68.3	68.3	67.9	68.41
68.6	69.0	69.0	68.6	68.4	68.0	67.6	67.6	67.4	67.4	67.1	66.8	67.91
69.3	69.5	69.3	69.1	68.8	68.5	68.3	68.4	68.2	68.0	68.0	67.6	67.96
69.3	69.5	69.0	68.7	68.5	68.5	68.2	68.0	67.5	67.5	67.0	66.8	68.14
69.7	69.8	69.7	69.3	69.0	68.6	68.4	67.6	67.2	66.8	66.6	66.4	68.03
69.5	69.8	69.5	69.1	68.8	68.5	67.8	67.4	67.0	66.6	66.1	65.8	67.91
71.0	71.4	71.2	71.0	72.0	72.0	—	—	—	—	—	—	—
—	—	—	—	—	—	70.0	70.6	70.2	70.0	70.0	69.6	69.45
74.5	74.3	74.0	73.7	73.0	72.6	72.0	71.7	71.0	70.3	70.2	69.7	71.90
74.6	74.5	74.1	73.8	73.7	73.5	73.0	72.5	72.0	70.8	70.3	69.6	72.00
71.8	72.5	72.5	72.1	72.5	72.9	72.1	71.3	70.5	70.1	69.4	69.0	71.03
71.6	72.0	72.0	71.8	71.4	71.2	71.5	70.9	70.4	70.0	69.8	69.5	70.18
73.8	73.7	73.7	73.5	73.2	72.6	72.5	72.5	72.3	72.0	71.7	71.4	72.24
68.5	68.0	67.3	66.4	65.8	65.0	—	—	—	—	—	—	—
—	—	—	—	—	—	59.6	59.3	58.8	58.8	58.6	58.0	66.95
59.6	59.0	58.9	58.7	59.3	59.0	59.3	58.6	58.2	57.6	57.3	56.9	58.69
58.6	58.5	58.8	58.4	58.2	58.0	57.6	57.4	57.0	56.6	56.4	56.3	57.40
55.9	55.7	55.6	55.5	55.4	55.1	55.0	54.7	54.5	54.3	54.1	54.3	55.25
56.3	56.6	56.1	56.0	55.7	55.2	55.0	54.7	54.3	53.3	52.6	52.6	55.07
55.2	55.2	54.8	54.3	53.8	53.5	52.7	52.3	52.0	51.6	51.3	51.0	53.35
53.1	53.1	53.0	52.7	52.4	52.4	—	—	—	—	—	—	—
—	—	—	—	—	—	53.2	53.2	52.8	52.6	52.6	52.1	52.12
57.3	56.6	56.1	55.5	55.0	54.6	54.3	55.1	55.3	54.9	54.9	54.5	54.81
66.63	66.62	66.40	66.08	65.81	65.50	64.97	64.71	64.35	64.01	63.72	63.36	65.10

VERTICAL FORCE.													
One Scale Division = .000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fabt. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
OCTOBER.	1	39.4	49.6	63.3	73.1	80.0	91.5	89.3	97.4	94.4	92.8	101.2	96.2
	2	86.3	88.3	85.7	85.6	84.8	83.8	83.6	83.6 <sup>a</sup>	81.3	82.4	79.7	79.5
	3	79.3	78.8	77.0	77.0	76.3	74.5	74.5	74.6	75.9	75.5	73.4	73.4
	4	79.3	79.3	78.1	78.0	76.9	75.3	75.7	75.1	76.4	77.1	76.0	76.0
	5	80.7	80.7	81.2	81.2	79.8	78.9	80.7	81.6	84.6	82.7 <sup>b</sup>	82.7	82.0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	86.3	88.3	88.3	89.3	86.9	86.0	86.0	87.5	87.6	86.8	85.6	85.2
	8	91.4	91.2	91.6	87.3	87.3	85.1	84.8 <sup>c</sup>	84.8	84.8	81.1	79.3	78.0
	9	77.8	74.5	74.5	79.3	74.8	73.6	73.6	75.2	74.4	74.4	74.4	68.1
	10	76.4	76.4	76.4	76.4	75.5	74.7	74.7	77.6	77.6	78.1	76.5	76.5
	11	84.2	84.2	84.2	83.5	80.8	78.5	79.5	81.8	80.5	80.0 <sup>d</sup>	79.1	78.0
	12	86.3	87.8	86.8	85.6	84.3	81.5	82.8	81.2	81.2	81.3	79.3	80.6
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	84.3	84.3	82.2	83.9	80.3	80.1	78.3	79.0	79.7	82.0	82.7	79.6
	15	78.9	78.8	81.0	79.0	76.7	75.1	75.3	76.4	76.9	76.7	76.9	76.9
	16	83.3	83.8	84.8	81.9	80.5	79.4	80.0	80.0	80.2	80.2	80.1	79.4
	17	84.2	82.7	84.4	85.1	83.4	83.4	83.4	83.5	82.2	83.5	85.3	84.5
	18	82.6	84.4	87.1	86.6	85.4	85.4	85.4	85.4	85.4	85.4	85.0	84.4
	19	85.1	86.4	84.0	84.3	85.1	83.3	83.5	83.9	85.6	85.6	86.4	86.2
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	68.6	78.8	82.5	91.6	94.2	94.1	94.1	94.1	94.5	94.7	95.0	93.0
	22	89.6	90.4	91.1	90.1	89.0	88.1	86.6	86.6	86.6	85.9	83.4	83.3
	23	85.3	86.4	86.4	88.0	88.0	88.0	89.1	88.2	87.3	86.1	84.5	84.4
	24	81.6	83.7	83.5	81.3	79.5	78.4	79.2	79.8	79.1	78.2	77.9	77.6
	25	64.9	73.5	76.1	75.3	75.7	74.7	74.8	76.2	79.2	83.9	80.7	81.2
	26	72.4	78.3	78.9	78.9	79.9	82.1	84.0	83.5	85.8	88.5	88.5	90.8
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	93.4	97.7	97.7	97.8	96.0	96.0	96.1	97.3	97.3	99.0	100.2	102.2
	29	100.5	100.5	101.0	100.5	101.9	104.0	103.4	104.1	104.1	106.0	102.6	105.1
	30	95.8	98.0	98.8	98.8	97.5	97.4	97.4	96.2	96.2	97.7	98.2	98.7
	31	98.7	99.9	98.8	97.2	96.2	94.4	94.4	94.4	94.8	95.1	94.4	92.3
Hourly Means	82.10	83.95	84.64	85.06	84.32	83.97	84.08	84.78	84.95	85.20	84.80	84.19	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
OCTOBER.	1	53.8	53.1	54.0	53.9	53.9	54.5	54.8	55.2	55.5	56.1	56.5	56.8
	2	52.7	52.6	54.9	54.3	54.6	55.1	55.3	55.8 <sup>a</sup>	56.3	56.8	57.3	57.7
	3	57.5	57.3	57.5	58.0	58.4	58.7	59.2	59.3	59.4	59.8	60.2	60.6
	4	57.0	56.6	57.0	57.0	57.2	57.9	58.5	59.2	59.2	59.2	59.2	59.3
	5	56.1	56.1	55.8	55.7	55.6	55.6	55.7	56.1	56.1	56.3 <sup>b</sup>	56.3	56.3
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	52.1	52.1	51.8	51.0	51.4	51.8	52.0	52.6	52.6	53.0	53.5	53.8
	8	49.3	49.5	49.8	51.0	50.8	51.6	52.4 <sup>c</sup>	53.3	54.2	55.6	56.3	57.0
	9	55.3	56.3	56.6	56.8	58.0	58.8	59.2	59.5	60.0	60.5	61.0	62.0
	10	58.0	57.8	57.5	57.7	57.4	57.6	57.6	57.8	57.5	57.8	58.3	58.2
	11	53.5	53.3	53.3	53.8	54.2	54.9	55.0	55.3	55.9	56.3 <sup>d</sup>	56.7	57.3
	12	52.1	51.9	52.1	52.5	53.1	53.9	54.5	54.9	55.3	55.5	56.2	56.5
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	54.4	54.5	54.4	54.1	54.3	54.6	54.6	54.8	54.8	54.8	55.0	55.4
	15	56.0	55.7	56.0	56.0	56.3	56.8	57.0	57.0	57.0	57.0	57.1	57.1
	16	53.7	53.3	53.5	54.7	54.5	54.5	54.7	55.0	55.0	55.3	55.8	55.3
	17	53.9	53.9	53.5	53.3	53.4	53.4	53.4	53.5	53.5	53.5	53.3	53.5
	18	53.0	52.7	52.3	52.2	52.0	52.2	52.3	52.3	52.3	52.3	52.3	52.5
	19	52.3	52.0	52.0	52.0	51.7	51.8	51.5	51.5	51.4	51.5	51.3	51.1
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	46.0	46.0	48.1	46.6	47.0	47.6	48.0	48.4	48.6	48.8	49.4	49.5
	22	50.1	50.1	49.8	49.9	50.9	51.6	52.3	53.0	53.3	54.0	54.7	54.9
	23	51.4	51.4	51.2	51.1	51.1	51.5	52.0	52.6	53.0	53.9	54.5	54.9
	24	55.1	54.3	55.1	55.3	56.1	56.3	56.5	57.0	57.7	58.3	58.3	58.4
	25	56.5	56.5	57.0	57.0	57.2	57.4	57.8	57.9	58.4	58.4	59.0	59.4
	26	55.5	55.3	55.2	55.1	55.0	5.1	55.3	55.8	55.5	55.5	55.3	55.5
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	46.0	45.5	45.5	45.0	45.0	45.3	45.4	45.4	45.4	45.4	45.2	45.1
	29	4.1	42.9	42.5	42.4	42.2	41.6	41.8	41.8	41.8	42.2	43.0	43.0
	30	4.1	44.1	44.0	44.0	44.1	45.0	45.4	45.8	45.8	45.8	45.8	45.6
	31	41.8	44.4	44.4	45.1	45.7	46.6	46.8	47.6	48.3	48.7	49.0	49.5
Hourly Means	52.38	52.19	52.40	52.43	52.63	53.03	53.30	53.64	53.84	54.16	54.46	54.67	

<sup>a</sup> Five minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Eight minutes late.

VERTICAL FORCE.												
One Scale Division = '000062 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fahr. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
82.1	81.9	80.6	80.3	79.7	79.7	82.9	82.8	82.8	84.5	84.5	85.3	81.47
79.5	80.2	79.1	74.3	74.3	77.5	77.5	—	75.1 <sup>b</sup>	71.9	79.0	77.8	80.60
73.8	73.8	75.2	76.0	76.0	76.0	73.5	73.5	75.8	77.8	78.0	78.3	75.75
74.3	75.9	80.7	82.6	83.0	84.0	84.0	74.8	72.2	79.8	79.8	79.8	78.09
82.5	82.8	81.7	81.7	83.0	83.0	—	—	—	—	—	—	—
—	—	—	—	—	—	81.1	83.6	84.5	84.9	84.7	85.2	82.31
84.7	86.3	87.4	85.3	86.4	76.7	83.0	87.0	87.0	87.0	89.4	91.4	86.48
78.0	78.7	78.9	78.8	78.8	80.4	80.4	79.8	79.8	79.0	78.8	77.8	82.33
68.1	69.4	69.4	71.9	73.2	73.4	75.1	75.1	77.0	77.0	76.2	76.2	74.03
76.6	77.9	77.4	78.0	78.3	78.7	79.0	79.2	80.2	83.6	84.0	84.3	78.08
78.0	78.4	79.0	79.9	79.8	80.8	80.8	81.4	81.4	83.6	83.6	84.7	81.07
78.1	77.9	80.4	80.4	80.4	80.4	—	—	—	—	—	—	—
—	—	—	—	—	—	80.2	82.6	82.6	82.1	84.0	82.6	82.10
79.9	80.9	79.7	79.7	80.0	78.9	78.9	75.9	77.5	71.0	74.4	76.8	79.56
76.6	78.9	78.9	78.9	78.9	79.9	78.3	78.7	78.7	80.1	79.2	81.6	78.22
79.4	80.2	79.4	79.8	80.2	80.9	79.9	79.9	84.3	84.1	84.2	83.3	81.22
85.0	84.2	84.1	84.3	83.7	83.1	82.6	83.7	83.7	84.1	84.1	81.5	86.74
84.7	85.1	85.7	85.7	85.7	85.3	85.3	83.3	84.3	84.3	84.3	84.3	85.02
86.3	86.3	87.6	87.6	87.6	85.8	—	—	—	—	—	—	—
—	—	—	—	—	—	—°	40.0	69.9	61.7	50.8	59.4	79.23
94.1	91.3	91.3	86.6	85.9	85.9	85.9	88.2	89.2	87.4	87.4	89.6	89.08
81.9	84.3	84.3	84.3	83.5	84.7	84.9	84.9	83.4	81.3	82.8	82.8	85.57
84.2	83.1	83.2	82.7	81.7	80.3	80.0	78.9	80.1	80.8	80.4	80.2	84.05
79.8	82.0	84.7	81.8	81.8	81.7	78.4	68.0	69.2	62.6	51.0	59.0	77.08
86.3	85.3	83.2	81.7	75.8	75.8	76.8	66.2	65.2	59.6	60.8	64.7	74.90
87.2	84.8	87.8	85.9	78.2	76.2	—	—	—	—	—	—	—
—	—	—	—	—	—	89.3	90.4	91.9	94.6	94.6	92.2	85.20
99.5	101.6	101.1	100.5	99.8	98.1	98.6	96.9	96.6	100.3	100.3	100.4	98.52
103.5	102.7	102.1	101.3	99.4	100.7	100.7	100.7	100.7	93.5	92.6	97.4	101.21
98.9	98.5	98.1	98.4	98.4	96.6	97.7	96.7	98.3	102.0	101.8	97.5	98.07
92.3	92.3	93.7	93.7	93.5	93.5	—	92.6	94.0	94.8	93.9	96.9	94.86
83.53	83.88	84.25	83.78	83.22	82.89	82.99	81.32	82.42	82.09	81.65	82.63	83.62
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
57.0	56.8	56.8	56.3	55.5	55.2	55.0	54.5	54.0	53.5	53.1	53.0	54.95
58.1	58.1	58.3	58.8	58.8	58.5	58.1	—	58.3 <sup>b</sup>	58.3	58.3	57.8	56.73
60.2	60.0	59.8	59.4	58.9	58.7	59.1	58.7	58.5	58.2	57.8	57.3	58.85
59.6	59.6	59.1	59.2	58.6	58.3	57.8	57.5	57.2	56.8	56.7	56.4	58.09
56.3	56.3	56.3	56.1	56.0	55.8	—	—	—	—	—	—	—
—	—	—	—	—	—	54.7	54.1	53.5	53.0	52.8	52.3	55.37
53.8	53.6	53.3	52.9	52.4	52.2	52.0	51.5	51.1	50.8	50.2	49.8	52.14
57.3	57.1	57.1	57.1	57.0	56.8	56.8	57.3	56.8	56.7	56.3	56.3	54.72
61.8	61.0	60.6	60.6	60.2	59.6	59.1	59.2	59.0	58.4	58.0	57.8	59.18
58.0	57.8	57.3	57.3	56.8	56.4	55.8	55.5	54.8	54.4	54.0	53.7	56.88
57.3	57.0	56.7	56.3	55.7	55.4	55.1	54.3	53.5	53.0	52.3	52.3	54.93
56.4	56.3	56.0	55.5	55.5	55.5	—	—	—	—	—	—	—
—	—	—	—	—	—	54.6	54.4	54.4	54.4	54.4	54.0	54.60
55.8	56.0	56.1	56.3	56.1	56.1	56.1	56.4	56.5	56.5	56.4	56.0	55.42
56.5	56.1	56.3	55.9	55.6	55.3	55.3	55.0	55.0	54.7	54.5	54.0	55.97
55.5	55.3	55.3	55.3	55.0	54.7	54.7	54.3	54.1	54.0	54.0	54.0	54.65
53.5	53.8	54.2	53.9	53.7	53.7	53.7	53.7	53.5	53.3	53.3	53.3	53.57
52.5	52.3	52.3	52.3	52.5	52.5	52.7	53.3	53.6	53.6	53.6	52.5	52.59
51.1	50.5	50.2	49.9	49.8	49.2	—	—	—	—	—	—	—
—	—	—	—	—	—	—°	47.2	47.6	46.6	46.4	46.0	50.20
49.5	49.7	49.9	50.3	50.3	50.5	50.5	50.3	50.0	50.2	50.2	49.9	48.97
55.1	54.9	54.3	53.8	53.5	53.3	53.0	52.4	52.2	52.1	52.0	51.9	52.63
55.3	56.0	56.1	55.9	56.2	56.3	56.4	56.1	55.6	55.5	55.5	55.6	54.13
58.2	57.7	57.4	57.1	57.0	57.0	57.0	57.2	57.0	57.0	56.7	56.5	56.84
58.7	58.3	58.8	58.3	57.9	57.7	57.3	57.2	56.8	56.3	56.2	56.0	57.58
55.5	55.7	55.5	55.5	55.3	55.3	—	—	—	—	—	—	—
—	—	—	—	—	—	47.0	47.0	47.0	46.4	46.2	46.1	53.19
44.9	44.6	44.5	44.1	44.0	44.0	43.7	43.6	43.4	43.3	43.3	43.3	44.62
43.0	43.6	43.8	43.9	43.9	43.8	43.8	44.1	44.2	44.3	43.6	44.0	43.10
45.7	45.7	45.7	45.7	46.0	46.3	46.1	45.9	45.8	45.6	45.6	45.1	45.36
49.5	49.1	48.7	48.0	47.7	47.3	—	46.8	46.8	46.6	46.2	46.0	47.11
54.67	54.55	54.46	54.29	54.07	53.90	53.82	52.98	52.97	52.72	52.50	52.27	53.43

<sup>d</sup> Three minutes late.

<sup>e</sup> Out of the field of the telescope.



VERTICAL FORCE.													
One Scale Division = '000062 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
NOVEMBER.	1	98·2	98·3	97·5	95·0	93·7	92·3	92·3	90·6	91·6	92·8	94·3	93·8
	2	90·4	90·4	95·6	88·7	86·8	85·8	84·8	85·3	86·7	88·5	87·5	86·4
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	90·3	90·9	92·3	91·0	90·9	90·9	89·8	89·8	91·6	91·2	91·2	92·4
	5	90·8	91·7	91·3	90·4	89·0	90·4	90·2	90·2	89·7	88·3	87·9	87·9
	6	88·7	90·1	89·5	88·4	92·0	92·6	88·8	90·7	90·0	88·3	88·3	87·5
	7	91·1	91·5	91·5	90·2	89·4	87·7	86·8	85·1	85·9	86·2	86·2	85·5
	8	87·6	87·6	89·6	88·6	88·6	87·9	88·3	90·3	89·6	89·6	89·6	89·4
	9	93·1	93·1	95·2	95·2	95·7	95·1	95·1	94·8	94·8	94·3	91·0	91·0
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	92·3	87·7	90·2	90·2	91·6	92·0	93·6	93·0	93·8	100·4	101·4	95·9
	12	90·8	91·1	91·4	90·4	89·8	91·7	91·2	91·2	90·7	90·0	90·0	90·0
	13	89·9	90·4	89·1	85·4	89·1	88·7	90·1	91·3	91·9	92·9	92·9	91·3
	14	93·3	97·8	92·9	91·2	92·6	92·6	94·1	94·0	94·0	94·0	94·0	93·3
	15	94·0	94·3	94·0	93·3	93·3	93·9	93·9	94·8	94·8	93·5	92·8	91·0
	16	74·0	71·5	87·8	88·9	91·2	94·8	94·2	100·6	104·8	105·0	99·4	99·9
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	91·2	94·9	96·1	96·1	95·4	96·3	96·3	97·4	98·3	99·5	101·1	101·1
	19	91·5	95·6	96·7	97·6	97·9	99·9	99·9	100·5	100·9	100·9	100·2	100·2
	20	97·9	99·3	100·3	99·7	98·1	98·2	98·3	98·3	98·8	97·0	96·3	94·8
	21	98·1	99·0	99·0	96·5	95·7	95·0	93·5	92·2	93·8	93·6	93·1	92·7
	22	75·6	84·3	88·2	90·5	90·5	90·8	92·3	96·5	104·8	105·1	99·8	105·1
	23	85·5	91·9	91·9	91·2	93·2	93·2	92·5	93·2	97·3	96·0	92·8	92·7
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	107·1	106·9	105·5	107·8	107·5	108·0	108·0	109·1	109·9	109·9	109·6	109·6
	26	109·2	109·2	110·2	110·2	110·2	108·8	108·8	110·3	110·3	110·0 <sup>b</sup>	109·7	108·9
	27	109·4	109·2	112·0	109·5	107·2	106·3	106·0	106·3	107·6	108·1	107·7	107·3
	28	107·0	107·0	106·5	106·5	106·5	108·5	108·8	108·8	107·4	107·4	105·7	109·6
	29	108·8	108·8	107·0	106·6	104·6	104·5	104·5	103·1	102·5	102·5	102·3	99·6
	30	88·1	90·0	90·1	93·3	92·8	92·4	92·7	93·5	94·3	94·2	93·7	93·5
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	93·61	94·71	95·82	95·09	95·13	95·32	95·18	95·80	96·76	96·89	96·10	95·78	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
NOVEMBER.	1	45·6	45·4	45·0	45·5	46·2	47·4	48·0	48·8	49·0	49·4	49·6	49·5
	2	49·6	49·6	50·2	50·0	50·6	51·1	51·5	52·1	52·3	52·7	53·3	53·8
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	49·4	49·2	48·8	49·0	49·4	49·4	49·6	50·0	50·1	50·5	50·7	50·3
	5	49·6	49·4	49·4	49·8	50·2	50·3	50·3	50·7	51·2	51·5	51·6	51·6
	6	49·7	49·5	49·5	49·5	50·2	50·0	50·1	50·3	50·3	50·8	51·5	52·1
	7	49·7	49·5	50·0	49·8	50·2	51·0	51·5	52·8	53·2	53·2	53·2	53·9
	8	51·5	51·3	50·7	50·6	50·8	50·8	50·8	51·0	51·1	50·9	50·8	50·8
	9	48·4	48·6	48·0	47·6	47·9	48·0	48·2	48·6	48·6	49·0	49·4	49·3
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	48·1	48·3	48·0	47·8	47·8	48·0	48·2	48·6	48·6	49·0	49·2	49·0
	12	50·0	49·8	49·6	49·5	49·4	49·6	50·1	50·2	50·4	50·7	51·3	51·3
	13	50·6	50·5	50·9	51·3	50·5	50·3	50·0	49·8	49·8	49·6	49·6	49·9
	14	46·4	46·0	49·2	47·2	47·0	47·0	47·0	47·2	47·3	47·6	48·0	48·2
	15	47·2	47·2	47·2	47·6	47·5	47·5	47·5	47·5	47·7	48·0	48·4	48·8
	16	47·5	47·5	46·8	47·4	47·6	48·4	49·1	49·6	50·1	50·5	50·7	50·4
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	45·9	45·5	45·2	45·2	45·5	45·6	45·8	45·8	45·8	45·8	45·6	45·6
	19	43·6	43·0	43·4	43·8	43·9	44·0	44·2	44·2	44·5	44·9	45·2	45·5
	20	45·0	44·7	45·0	45·0	45·9	46·0	46·6	46·9	47·5	48·3	48·8	49·0
	21	46·0	45·8	45·8	46·0	46·9	47·4	47·8	48·4	48·6	49·0	49·6	49·6
	22	48·0	47·6	47·6	47·6	48·0	48·5	48·5	48·8	48·8	49·0	49·4	49·4
	23	49·6	49·6	49·6	49·6	49·4	49·4	49·6	49·8	49·8	50·0	50·0	50·3
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	38·2	38·0	38·3	38·2	38·3	38·3	38·4	38·6	38·6	39·1	38·9	39·9
	26	39·0	39·0	38·9	38·5	38·1	38·5	38·8	38·8	38·9	39·4 <sup>b</sup>	39·8	40·0
	27	39·9	39·5	39·1	39·3	39·6	39·9	39·8	40·1	40·4	40·5	40·8	40·6
	28	38·0	38·2	38·3	38·2	38·0	37·8	37·5	38·0	39·4	39·4	39·4	39·6
	29	40·0	40·0	40·0	41·0	41·2	42·2	42·4	42·8	43·0	43·6	44·2	44·6
	30	49·8	49·4	48·8	48·1	48·1	48·5	48·6	48·5	48·6	49·1	49·2	49·4
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	46·40	46·23	46·28	46·27	46·47	46·73	46·92	47·23	47·45	47·75	48·01	48·17	

<sup>b</sup> Three minutes late.

VERTICAL FORCE.												
One Scale Division = '000062 parts of the V. F.						Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 93·2	Sc. Div. 92·8	Sc. Div. 92·8	Sc. Div. 92·8	Sc. Div. 94·3	Sc. Div. 93·3	Sc. Div. 93·3	Sc. Div. 93·2	Sc. Div. 87·2	Sc. Div. 87·2	Sc. Div. 87·2	Sc. Div. 87·5	Sc. Div. 92·72
86·4	88·1	99·0	89·4	88·3	84·3	—	82·6	83·9	87·2	87·5	90·3	87·82
—	—	—	—	—	—	—	—	—	—	—	—	—
91·8	91·8	91·8	91·0	91·0	90·5	90·5	89·0	88·5	90·1	90·1	90·8	90·80
87·9	88·4	89·2	89·2	89·2	88·3	89·9	89·4	89·4	89·4	90·9	88·7	89·49
87·5	87·5	88·7	89·6	89·6	90·5	90·1	90·3	90·3	90·7	90·7	91·1	89·65
86·7	86·5	86·5	86·0	86·0	86·0	86·5	86·8	86·8	86·8	87·6	87·4	87·36
89·8	90·3	90·3	90·7	91·0	91·0	91·5	91·8	91·8	92·2	92·4	93·1	90·11
91·3	93·4	91·4	91·4	91·4	91·4	—	—	—	—	—	—	—
—	—	—	—	—	—	94·5	93·5	93·5	91·3	91·3	91·3	93·09
98·0	99·4	99·4	94·2	93·8	93·8	93·7	89·4	90·5	91·0	92·4	92·5	93·76
89·8	89·8	89·8	89·8	89·1	88·0	87·5	88·0	88·0	86·7	88·3	89·0	89·97
93·1	94·1	94·3	92·8	94·4	89·2	89·9	92·8	87·3	89·3	93·6	93·9	91·15
93·3	93·3	93·3	93·5	93·6	93·6	93·6	93·6	94·0	94·1	94·0	94·0	93·65
90·2	91·3	91·2	92·7	91·5	92·8	92·8	92·2	88·9	58·6	76·6	76·8	89·97
99·9	103·2	99·8	99·8	99·9	99·3	—	—	—	—	—	—	—
—	—	—	—	—	—	93·1	90·6	92·1	94·7	94·7	93·2	94·68
100·2	100·2	100·2	98·6	95·9	99·0	99·0	94·7	96·3	99·3	98·8	91·9	97·41
99·9	99·7	99·7	98·7	98·7	98·7	98·7	97·8	97·9	98·0	97·9	97·9	98·56
94·8	94·8	94·8	94·8	95·0	95·2	95·5	96·2 <sup>a</sup>	96·2	96·2	96·2	98·9	96·90
92·8	93·4	93·4	93·4	93·0	93·0	93·8	93·0	90·3	91·6	75·0	75·3	92·51
105·1	106·6	105·0	91·3	90·7	60·8	60·5	80·1	79·3	79·5	80·1	83·9	89·43
91·4	92·4	92·4	93·5	92·9	90·6	—	—	—	—	—	—	—
—	—	—	—	—	—	108·1	108·1	108·1	107·2	106·7	106·7	96·23
109·1	108·8	108·9	108·6	108·9	108·6	109·1	107·3	109·2	109·1	109·3	109·2	108·54
107·6	107·1	106·4	106·2	106·8	106·8	106·8	108·2	108·4	108·6	108·6	109·4	108·61
108·6	106·1	112·8	112·8	111·2	111·8	111·8	111·8	111·8	108·3	109·4	110·4	109·31
109·6	110·5	110·9	110·9	111·7	111·7	108·1	109·0	110·0	110·0	110·4	110·2	108·86
97·3	95·9	95·8	95·8	94·0	92·3	91·3	91·5	91·2	91·2	90·0	89·8	98·79
92·3	91·4	93·8	92·7	92·3	90·2	—	—	—	—	—	—	—
—	—	—	—	—	—	92·7	96·9	96·0	97·0	97·0	96·8	93·24
95·68	96·03	96·33	95·39	95·16	93·49	94·03	94·58	94·24	93·29	93·83	93·87	95·09

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
49·7	49·9	49·9	50·0	50·0	50·0	50·0	49·5	49·6	49·6	49·6	49·5	48·61
53·8	53·8	53·0	52·8	52·5	52·3	—	—	—	—	—	—	—
—	—	—	—	—	—	49·2	49·0	49·2	49·3	49·4	49·4	51·27
50·3	50·3	50·3	50·2	50·3	50·4	50·2	50·3	50·1	50·0	49·8	49·5	49·92
51·4	51·3	51·3	51·3	50·8	50·8	50·5	50·3	50·3	50·1	49·9	49·9	50·56
51·6	51·3	51·3	51·3	51·2	50·6	50·3	50·0	49·8	49·8	49·8	49·8	50·43
53·5	53·3	53·0	53·3	53·2	53·2	53·0	52·6	52·3	52·3	52·1	52·0	52·16
50·6	50·6	50·3	50·2	50·0	49·8	49·6	49·8	49·6	49·5	49·1	48·6	50·37
49·3	49·2	49·0	48·7	48·5	48·5	—	—	—	—	—	—	—
—	—	—	—	—	—	47·5	47·4	47·3	47·3	47·3	47·8	48·31
49·5	49·3	49·5	49·5	49·5	49·5	49·4	49·8	49·9	50·0	50·0	50·0	49·01
51·3	51·5	51·5	51·9	51·9	52·0	51·9	51·7	51·7	51·3	51·3	51·1	50·87
49·3	49·2	49·0	49·0	48·5	48·3	48·0	47·8	47·5	47·2	46·8	46·6	49·17
48·2	48·4	48·4	48·0	47·8	47·6	47·5	47·5	47·3	47·3	47·3	47·3	47·53
49·0	49·0	49·1	48·6	48·5	48·0	47·9	47·8	47·5	47·5	47·5	47·5	47·92
50·4	50·4	50·3	49·9	49·5	49·3	—	—	—	—	—	—	—
—	—	—	—	—	—	47·8	47·6	47·2	47·0	46·5	46·2	48·65
45·0	45·0	44·6	44·6	44·6	44·6	44·6	44·8	44·5	44·5	43·0	43·0	45·00
45·6	45·5	45·6	45·4	45·4	45·4	45·4	45·6	45·2	45·0	45·0	45·0	44·76
48·5	48·5	48·5	48·5	48·1	47·7	47·6	47·4 <sup>a</sup>	47·2	47·0	46·7	46·5	47·12
49·4	49·4	48·8	48·5	48·5	48·3	48·3	48·4	48·5	48·3	48·3	48·0	48·07
49·3	49·3	49·3	49·5	49·5	49·5	49·5	49·7	49·5	49·5	49·5	49·7	48·96
50·3	50·1	49·5	49·4	49·0	48·6	—	—	—	—	—	—	—
—	—	—	—	—	—	38·4	38·5	38·6	38·2	38·1	38·0	46·81
39·7	39·7	39·8	39·8	39·8	39·6	39·6	39·4	39·3	39·3	39·2	39·0	39·04
40·1	40·4	40·6	40·0	40·0	40·4	40·4	40·0	40·0	40·0	40·0	40·0	39·57
40·4	40·0	39·4	39·8	39·4	39·4	39·4	39·2	39·0	38·2	38·1	37·8	39·57
39·4	39·3	39·1	38·9	38·6	38·7	38·7	39·1	39·3	39·4	39·5	39·7	38·81
45·6	46·1	46·6	46·6	47·4	47·7	48·2	48·4	48·2	48·6	48·4	49·4	44·84
49·2	49·0	48·9	49·2	49·5	49·7	—	—	—	—	—	—	—
—	—	—	—	—	—	45·4	45·2	45·0	44·6	44·5	44·4	47·95
48·09	48·07	47·95	47·88	47·77	47·69	46·86	46·80	46·68	46·57	46·41	46·37	47·13

VERTICAL FORCE.													
One Scale Division = .000062 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
DECEMBER.	2	98.6	99.8	99.8	97.9	95.9	95.4	96.3	99.9	98.4	97.2	97.3	96.8
	3	98.9	98.9	98.3	98.1	96.5	96.5	95.0	95.3	95.3	93.8	95.6	94.4
	4	95.0	93.4	94.1	93.0	92.8	92.3	91.7	91.8	91.8	93.1	92.5	95.7
	5	94.5	94.5	94.5	96.6	93.8	93.9	94.7	95.7	96.4	95.9	97.4	97.4
	6	93.7	92.9	96.9	94.3	96.0	93.4	94.3	94.3	97.3	97.3	96.2	96.2
	7	91.6	91.2	88.8	88.8	86.3	84.3	84.3	86.4	87.6	88.9	90.0	89.4
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	109.0	109.0	106.7	108.9	108.0	107.4	106.4	105.8	104.8	103.6	101.2	99.8
	10	100.6	100.2	101.4	102.5	101.6	101.6 <sup>a</sup>	102.7	101.0	100.1	100.2	99.5	99.5
	11	100.0	98.5	98.5	98.5	97.6	96.7	96.7	96.7	96.7	96.7	96.1	96.1
	12	96.8	96.7	96.8	97.9	96.8	95.4	95.0	95.3	96.8	95.6 <sup>b</sup>	95.0	95.0
	13	92.5	93.2	92.0	92.0	93.9	91.5	93.4	94.2	94.6	94.6	94.5	93.0
	14	92.9	92.3	91.7	91.5	91.3	91.3	92.5	97.1	99.7	97.8	94.4	94.4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	105.1	105.5	107.5	107.5	105.8	106.3	108.2	107.3	107.3	107.3	107.1	109.6
	17	110.5	111.9	105.4	109.7	108.4	108.4	109.2	108.8	107.9	108.6	109.4	109.2
	18	113.1	114.1	114.1	114.8	114.7	113.1	112.5	112.5	112.5	112.5	110.4	108.2
	19	98.6	98.2	97.0	98.6	100.6	102.3	102.7	104.5	103.5	104.0	105.7	105.7
	20	109.7	106.5	112.3	101.2	113.4	113.0	111.6	111.6	113.3	115.0	114.7	113.6
	21	106.7	107.9	109.0	109.5	109.5	112.0	112.0	111.9	110.8	109.5	108.1	107.8
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	102.6	102.6	103.3	102.8	102.8	103.7	104.3	104.3	103.7	104.7	106.3	104.7
	24	105.1	104.3	104.3	103.5	102.9	102.9	102.9	102.6	101.5	101.2	100.0	99.1
	25 <sup>d</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	95.3	95.3	95.5	95.9	95.7	94.9	95.3	95.0	95.1	97.5	95.2	94.7
	27	99.0	100.9	102.9	100.6	104.3	104.3	105.1	105.1	104.5	103.3	103.0	102.8
	28	107.9	107.9	109.6	108.3	108.3	108.3	108.3	106.8	106.8	105.1	105.1	103.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	111.5	107.9	107.9	107.9	105.1	103.6 <sup>f</sup>	105.0	105.7	107.7	108.2	106.3	105.7
	31	101.1	101.1	99.4	100.4	104.3	103.4	102.1	102.1	104.1	104.1	103.3	103.8
	Hourly Means	101.21	100.99	101.11	100.83	101.05	100.64	100.89	101.27	101.53	101.43	100.97	100.62
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
DECEMBER.	2	44.0	43.8	43.8	44.0	44.1	44.3	44.4	44.8	45.4	46.3	46.5	46.5
	3	44.5	44.4	44.4	44.6	44.8	45.4	45.8	46.6	46.7	47.0	47.2	47.4
	4	45.6	45.8	45.8	45.8	46.4	46.8	47.0	47.4	47.0	46.2	48.0	47.6
	5	46.6	46.6	46.6	46.7	46.4	46.4	47.0	46.6	46.6	46.6	46.5	46.4
	6	47.0	47.0	47.0	47.4	46.4	46.4	46.8	46.8	46.6	46.8	47.2	47.0
	7	48.3	48.5	48.7	49.3	50.8	51.5	51.4	51.0	50.5	50.3	50.0	49.7
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	38.2	38.2	38.6	38.6	38.9	39.3	39.8	40.1	41.0	41.7	42.7	43.0
	10	42.4	42.6	42.3	41.6	41.6	41.6 <sup>a</sup>	41.8	42.7	43.0	43.4	43.2	43.0
	11	42.5	42.8	42.8	42.8	43.0	42.8	43.2	43.4	44.0	45.0	44.6	44.8
	12	44.4	44.4	44.0	43.5	43.5	43.7	44.0	44.4	44.6	45.6 <sup>b</sup>	46.0	46.0
	13	46.6	46.6	46.4	46.4	45.8	45.8	46.0	46.0	46.4	46.6	47.0	47.0
	14	47.0	47.0	46.5	46.5	46.6	46.6	46.6	46.8	46.8	46.8	46.8	46.8
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	38.9	38.6	38.4	38.4	38.4	38.6	39.0	38.8	39.0	40.0	40.0	40.0
	17	37.0	37.0	37.0	37.0	36.8	37.3	37.6	38.0	38.5	38.8	39.0	39.3
	18	35.3	35.0	34.8	34.5	34.2	35.2	35.6	36.1	36.2	36.6	36.9	38.7
	19	42.6	42.8	42.8	41.6	41.6	41.6	41.0	41.6	41.7	41.6	41.6	41.1
	20	38.1	37.9	37.2	37.2	37.2	37.5	38.0	37.1	36.9	37.1	37.1	36.5
	21	36.2	36.1	36.0	36.6	37.0	37.0	37.0	37.2	37.5	38.5	38.7	39.4
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	41.6	41.5	41.5	41.3	41.0	40.9	41.0	41.0	41.0	40.8	40.2	40.1
	24	40.6	40.6	40.8	40.6	40.4	40.6	41.4	42.0	42.4	42.6	43.0	43.7
	25 <sup>d</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	43.9	43.9	44.4	44.6	44.6	44.8	45.4	46.0	46.2	46.6	47.0	47.0
	27	42.8	42.0	41.2	40.7	40.4	40.4	40.4	40.7	41.0	41.3	41.6	41.6
	28	38.1	38.1	37.3	37.7	38.0	38.3	38.8	40.0	40.1	40.1	40.6	41.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	38.8	39.3	39.8	40.0	40.8	40.8 <sup>f</sup>	41.3	41.6	41.6	41.6	42.2	42.5
	31	42.6	42.6	42.6	43.0	43.0	43.6	43.6	43.6	43.6	44.0	44.4	44.6
	Hourly Means	42.14	42.12	42.03	42.02	42.07	42.29	42.56	42.81	42.97	43.28	43.52	43.63

<sup>a</sup> Ten minutes late.

<sup>b</sup> Four minutes late.

<sup>c</sup> Three minutes late.

VERTICAL FORCE.												
One Scale Division = .000062 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 97.5	Sc. Div. 97.5	Sc. Div. 97.5	Sc. Div. 97.5	Sc. Div. 98.3	Sc. Div. 98.6	Sc. Div. 98.0	Sc. Div. 98.0	Sc. Div. 98.0	Sc. Div. 98.0	Sc. Div. 98.0	Sc. Div. 100.2	Sc. Div. 98.02
94.4	94.1	97.6	96.7	96.7	96.7	97.0	97.0	97.0	95.4	95.4	96.1	96.28
97.0	94.4	94.4	94.9	94.9	94.6	93.1	93.5	96.0	96.0	94.5	94.5	93.96
97.4	98.2	98.2	97.1	96.3	96.3	96.3	94.4	94.4	94.4	94.4	94.4	95.71
96.4	95.8	95.5	95.5	95.8	94.1	94.1	94.2	92.1	92.7	92.5	91.6	94.71
89.8	90.3	90.3	90.3	92.2	94.0	—	—	—	—	—	—	—
—	—	—	—	—	—	108.4	109.2	109.2	108.8	108.8	108.8	94.07
99.6	100.9	100.9	101.9	102.2	102.2	102.8	101.9	101.9	101.9	100.3	101.9	103.71
99.8	100.2	100.2	100.2	100.0	100.0	100.5	100.5	99.3	100.3	100.3	100.0	100.51
95.6	96.2	96.2	96.2	97.4	97.6	98.1	97.2	96.5	96.5	95.8	96.6	97.03
96.4	95.1	95.6	95.5	95.5	95.5	93.4	92.7	92.7	93.4	93.6	93.8	95.26
92.4	91.9	91.9	91.9	92.7	92.7	93.4	92.8	91.2	92.2	92.2	92.7	92.81
95.1	96.4	97.5	99.4	97.6	92.3	—	—	—	—	—	—	—
—	—	—	—	—	—	103.1	103.1	102.6	105.5	105.5	105.5	97.10
109.6	107.9	107.9	107.9	109.8	109.8	109.1	108.0	108.0	109.6	110.7	111.5	108.10
109.2	109.2	108.6	108.4	110.3	109.7	109.3	109.3	109.9	109.9	109.7	109.4	109.18
105.0	104.2	104.1	102.4	102.4	100.6	100.1	100.5	98.3	93.2	90.9	94.4	106.19
105.7	106.3	106.7	112.0	111.5	111.5	112.2	107.7	108.4	109.5	109.7	109.7	105.51
112.7	112.9	113.5	115.5	112.7	110.4	106.3	106.7	109.2	109.2	109.2	107.9	110.92
108.6	107.0	106.3	107.0	107.0	107.1	—	—	—	—	—	—	—
—	—	—	—	—	—	105.3	103.8	105.0	103.8	103.8	107.6	107.79
104.7	106.4	106.4	106.4	106.4	106.7	108.0	106.9	105.7	105.7	105.3	105.3	104.99
99.1	99.1	99.1	97.7	96.9	96.9	—	—	—	—	—	—	—
—	—	—	—	—	—	100.1°	99.3	99.3	98.8	97.1	96.2	100.41
94.7	96.6	95.9	94.9	96.2	96.2	96.2	95.4	97.6	98.8	98.7	98.1	96.03
103.6	104.8	106.1	107.5	106.1	106.1	104.2	106.7	106.7	107.0	106.6	106.6	104.49
104.4	104.4	104.1	104.4	104.4	104.4	—	—	—	—	—	—	—
—	—	—	—	—	—	114.5	114.5	115.4	115.1	113.9	112.1	108.21
107.2	107.2	107.2	105.3	104.1	103.4	103.1	103.3	104.1	104.1	98.6	92.4	105.10
102.6	102.9	102.9	102.9	102.9	102.0	102.0	102.0	102.0	103.2	102.9	102.3	102.49
100.74	100.80	100.98	101.18	101.21	100.78	101.94	101.54	101.62	101.72	101.22	101.20	101.14

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
46.4	46.2	46.0	46.0	45.0	45.2	46.0	45.4	45.0	44.8	44.6	44.5	45.13
47.0	47.2	46.0	46.0	45.8	45.2	45.6	46.0	45.6	45.6	45.6	45.6	45.83
47.5	47.5	47.4	47.0	47.0	47.0	47.0	47.0	46.9	46.8	46.8	46.8	46.84
46.2	46.4	46.1	46.2	46.6	46.6	47.0	47.0	47.0	47.0	47.0	47.0	46.63
46.8	46.6	46.6	46.6	47.1	47.6	47.7	47.6	47.6	47.6	47.7	48.0	47.08
49.5	49.4	49.0	48.8	47.6	47.0	—	—	—	—	—	—	—
—	—	—	—	—	—	38.1	38.0	38.0	38.3	38.4	38.2	46.68
43.4	43.4	42.7	42.2	42.2	42.4	42.4	42.4	42.1	42.2	42.2	42.3	41.25
42.8	42.4	42.4	42.2	42.0	42.0	41.8	42.0	41.9	41.8	41.7	42.1	42.26
44.6	44.6	44.6	44.6	44.6	44.3	44.0	44.0	44.0	44.0	44.6	44.6	43.92
46.0	46.2	45.9	45.8	45.7	46.0	46.5	46.6	46.8	46.6	46.8	46.4	45.39
47.2	47.4	47.2	47.5	47.3	47.2	46.8	46.7	46.8	47.0	47.0	47.0	46.74
46.8	46.8	47.0	46.2	45.8	46.0	—	—	—	—	—	—	—
—	—	—	—	—	—	39.5	39.2	39.0	39.1	39.1	39.0	44.76
39.8	39.3	39.0	38.9	38.6	38.2	38.0	37.7	37.7	37.6	37.4	37.3	38.65
39.1	39.0	38.7	38.3	38.0	38.1	38.1	38.1	37.8	37.4	37.0	36.6	37.90
39.6	39.8	40.4	41.4	41.6	41.6	41.8	41.9	41.6	42.1	42.4	42.7	38.58
40.9	40.6	40.4	39.6	39.8	40.0	39.5	39.4	39.0	38.5	38.2	37.7	40.63
36.1	36.4	36.0	36.2	36.2	36.2	36.5	36.4	36.8	36.9	37.0	36.4	36.87
39.9	40.0	40.2	40.4	40.0	40.0	—	—	—	—	—	—	—
—	—	—	—	—	—	40.8	40.8	40.8	41.0	41.3	41.6	38.92
40.0	39.5	39.2	39.2	39.0	39.2	39.3	39.9	40.1	40.2	40.4	40.6	40.35
44.0	44.0	44.2	44.2	44.4	44.4	—	—	—	—	—	—	—
—	—	—	—	—	—	42.6°	42.9	43.0	43.2	43.4	43.6	42.61
46.6	46.4	45.8	45.4	45.0	44.8	44.6	44.6	44.6	44.4	43.8	43.1	45.15
41.6	41.6	41.6	41.2	41.0	40.0	40.1	39.8	39.1	39.0	38.8	38.6	40.69
41.0	41.3	41.3	40.9	40.6	40.4	—	—	—	—	—	—	—
—	—	—	—	—	—	37.5	37.5	37.5	37.4	37.8	38.3	39.15
42.6	42.6	42.6	42.3	42.4	42.4	42.6	42.4	42.4	42.6	42.6	42.8	41.69
44.3	44.5	44.6	44.0	43.8	43.7	43.6	43.8	43.6	43.6	43.8	44.0	43.69
43.59	43.56	43.40	43.24	43.08	43.02	42.30	42.28	42.19	42.19	42.22	42.19	42.70

<sup>d</sup> Christmas Day.

<sup>e</sup> Twelve minutes late.

Seven minutes late.

January 24th and 25th. MAGNETICAL OBSERVATIONS.												
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.721.						DECLINATION.				
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	125.6	126.5	128.0	127.8	127.1	126.2	134.7	131.0	138.1	135.6	129.5
5	0	125.3	126.6	128.0	128.0	127.2	125.8	137.4	135.0	136.0	133.9	128.5
10	0	125.9	126.8	128.1	127.9	126.9	126.0	138.0	139.8	135.0	129.3	128.8
15	0	125.0	126.9	128.2	127.5	126.9	126.7	135.3	140.2	140.0	126.8	130.9
20	0	125.4	127.2	127.0	127.0	127.6	127.0	132.0	132.2	139.0	127.4	131.1
25	0	125.6	127.8	126.7	127.1	127.0	127.4	128.1	130.5	136.9	130.2	134.2
30	0	125.6	127.3	126.9	127.2	128.0	127.4	126.0	131.3	135.0	132.2	133.5
35	0	125.8	127.1	128.2	127.1	126.1	128.2	126.9	131.0	137.4	131.2	132.8
40	0	125.9	126.8	128.3	127.1	124.5	130.0	127.1	129.2	139.7	131.1	132.2
45	0	125.8	127.2	129.1	127.1	125.1	129.9	126.6	126.0	139.1	131.3	133.1
50	0	125.8	127.4	129.4	126.7	126.5	131.8	130.8	128.8	136.7	132.3	134.1
55	0	126.0	127.8	128.7	126.9	126.5	133.1	131.0	136.0	136.0	131.6	134.1
One Scale Division = .000087 parts of the H. F. HORIZONTAL FORCE.												
M.	S.											
2	0	530.8	530.7	529.3	533.0	528.9	517.8	506.2	496.5	500.0	502.6	508.3
7	0	531.9	530.4	528.0	532.0	528.9	516.3	507.9	503.9	500.3	505.0	507.4
12	0	534.4	530.0	529.1	531.2	529.2	516.1	514.3	524.0	495.6	505.0	507.8
17	0	531.3	530.6	528.4	530.9	529.8	514.6	516.8	532.9	501.0	504.3	503.8
22	0	530.8	531.7	527.2	530.0	525.0	514.7	519.0	523.5	505.1	504.4	504.3
27	0	530.7	530.9	527.5	529.8	526.5	512.3	514.7	513.3	507.0	505.2	503.9
32	0	531.4	529.3	529.7	529.5	523.4	507.5	512.4	509.5	503.4	507.4	501.7
37	0	531.6	528.3	530.4	529.8	523.7	506.9	507.8	510.5	503.9	507.5	501.7
42	0	531.8	528.8	531.8	529.9	521.7	505.1	502.8	505.4	505.1	508.7	500.0
47	0	531.3	529.9	534.6	529.0	519.7	504.1	498.0	496.8	505.8	509.6	498.5
52	0	531.1	529.7	534.8	527.9	518.9	503.5	498.5	493.1	502.5	509.5	502.3
57	0	531.0	529.1	532.9	529.6	518.0	502.9	495.3	497.9	503.0	508.6	503.1
Thermometer		41.6	41.6	42.0	41.9	41.8	41.6	41.4	40.0	38.8	38.0	37.3
VERTICAL FORCE. <sup>b</sup>												
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
24	10	0	29.480	19.2	16.4	N. W. b. W.	Brisk.	Clouded; cir.-cum. and haze.				
	11	0	29.522	17.4	15.1	N. W.	Moderate.	Clouded; cum.-strat., cir.-cum., and haze; a few flakes of snow.				
	12	0	29.552	14.7	12.9	N. W.	Brisk.	Zenith clear; clouded round horizon.				
	13	0	29.577	12.4	11.1	N. W.	Moderate.	Clouded; cum.-strat. and cir.-cum.				
	14	0	29.581	11.4	10.0	N. W.	Brisk with gusts	Clouded; cum.-strat., cir.-cum., and haze.				
	15	0	29.596	10.4	9.0	N. W.	Moderate.	Clear above; cir.-strat. and haze round horizon.				
	16	0	29.612	7.8	7.0	N. N. W.	Moderate.	Overcast; dense haze.				
	17	0	29.611	5.6	5.0	N. N. W.	Brisk with gusts	Clouded; cir.-cum. and haze; auroral light in N.				
	18	0	29.614	4.0	3.6	N. N. W.	Brisk.	Overcast with haze; no auroral light.				
	19	0	29.615	2.6	2.0	N. N. W.	Brisk.	Overcast; stars visible in zenith.				
	20	0	29.637	1.3	0.7	N. N. W.	Moderate.	Overcast with light haze; stars visible in zenith.				
	21	0	29.638	0.9	0.2	N. N. W.	Moderate.	Overcast with haze.				

<sup>b</sup> Vertical Force Magnetometer not in adjustment.

MAGNETICAL OBSERVATIONS.												
January 24th and 25th.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
134.2	131.3	130.1	128.2	124.9	125.2	121.3	119.5	124.0	123.8	123.0	125.1	126.4
133.6	130.3	130.9	127.9	124.5	124.9	122.5	119.9	124.7	123.7	123.0	124.2	126.3
133.2	128.4	131.8	127.0	124.2	124.1	122.0	120.8	124.3	123.6	123.0	124.2	126.7
133.2	129.2	132.5	127.4	124.0	123.7	121.3	122.0	124.8	123.7	123.2	124.4	127.0
132.8	130.2	133.1	128.0	124.6	123.0	119.9	122.9	124.7	123.1	123.3	124.2	127.0
132.4	129.9	133.0	128.7	125.0	122.2	119.4	122.7	124.2	123.0	123.9	124.5	127.0
131.5	129.1	132.9	129.0	125.1	122.0	118.6	123.1	124.0	123.0	123.7	125.0	127.2
131.6	127.9	133.0	129.2	124.7	121.6	118.0	123.4	123.0	123.0	122.8	125.0	127.3
132.0	126.3	132.4	129.0	124.5	121.7	119.6	123.4	123.4	123.0	123.0	125.3	127.2
132.2	126.0	131.4	127.9	125.1	121.3	120.3	123.4	123.5	122.3	123.1	125.6	127.4
132.5	127.2	130.2	126.6	125.7	121.0	120.4	124.5	124.0	122.8	123.3	125.8	127.2
132.0	128.6	129.1	126.0	125.2	121.7	118.8	124.7	123.9	123.0	124.8	126.1	127.3

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00027.												
507.9	525.3	530.3	527.5	531.1	535.0	530.4	534.8	525.6	522.6	526.3	534.2	536.4
508.4	525.9	531.5	527.9	531.6	536.0	532.9	534.7	524.5	523.0	526.4	533.6	534.8
510.3	525.5	530.4	526.8	532.8	534.8	531.0	533.0	523.7	523.0	525.7	532.8	535.9
510.9	527.9	528.6	528.3	536.1	534.1	535.0	531.1	524.9	524.0	527.7	534.0	536.2
512.9	528.6	528.5	528.9	536.1	534.5	533.6	531.4	525.0	523.8	528.1	533.4	536.3
509.3	530.0	528.6	529.0	534.5	534.8	534.8	530.4	524.8	523.8	530.9	532.9	537.4
512.8	529.8	524.4	530.6	536.0	535.9	536.9	529.6	525.5	523.1	529.1	533.7	537.8
513.8	530.2	523.0	530.3	535.8	535.2	537.0	528.8	523.1	524.2	527.7	534.1	537.9
515.0	529.6	523.3	529.8	536.5	532.8	536.6	529.0	523.0	524.7	527.2	533.6	538.2
517.5	529.4	525.4	528.8	534.7	532.9	536.1	526.6	522.0	524.9	527.4	534.4	539.5
520.6	528.4	525.9	528.8	534.7	532.2	536.1	525.9	522.4	525.0	526.8	535.3	539.0
522.6	528.4	527.6	529.6	535.9	533.0	539.1	526.9	523.0	525.8	533.0	535.8	537.7

VERTICAL FORCE. <sup>b</sup>												
36.6	36.2	35.0	34.5	34.0	32.8	32.0	31.6	32.0	32.5	32.5	32.4	32.4 <sup>a</sup>

<sup>a</sup> At 25<sup>d</sup> 0<sup>h</sup> Thermometer of H. F. 32°-4.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.		Thermometers.		Wind.		Weather.			
					Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°							
24	22	0	29.635	0.8	0.3	N. N. W.	Moderate.	Overcast with haze.				
	23	0	29.636	0.1	-0.6	N.	Very light.	Overcast with haze.				
25	0	0	29.628	-0.6	-1.2	N.	Very light.	Clouded; cir.-cum. and haze.				
	1	0	29.637	-1.8	-2.3	N.	Light.	Clouded; cir.-cum. and haze.				
	2	0	29.653	-2.8	-3.4	N.	Brisk with gusts	Clouded; cir., cir.-strat., and light haze.				[Lake Ontario.
	3	0	29.662	-3.4	-3.8	N. by E.	Brisk.	Light flexuous cir. overspreading the sky; a dense mist rising from				
	4	0	29.660	-3.0	-4.4	N. E.	Brisk.	Light flexuous cir. overspreading the sky; fair.				
	5	0	29.650	-0.4	-1.0	N. by E.	Brisk.	Light flexuous cir. overspreading the sky; fair.				
	6	0	29.634	0.6	0.0	N.	Brisk.	Light flexuous cir. overspreading the sky; fair. [diameter about 35°.				
	7	0	29.615	1.8	1.0	N. by W.	Brisk.	Generally overcast with light flexuous cir. and haze; halo round the ☉.				
	8	0	29.614	3.5	2.4	N. by W.	Moderate.	Generally overcast; very light streaky cir. and cir.-strat.				
	9	0	29.622	5.4	4.2	N. by W.	Light.	Light cir. and cir.-strat.; generally fine.				

February 23rd and 24th.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	124·8	124·7	125·2	125·5	126·2	125·5	126·2	127·0	126·8	127·0	127·0
5	0	125·0	124·8	125·2	125·5	126·4	125·7	126·5	127·0	126·6	127·0	127·0
10	0	125·0	124·8	125·2	125·5	126·2	125·8	127·1	126·7	127·0	127·0	127·0
15	0	125·0	124·8	125·3	125·5	126·4	125·8	127·2	126·8	127·0	126·9	127·3
20	0	125·1	124·8	125·7	125·9	126·7	125·8	127·1	127·0	127·0	127·0	127·9
25	0	125·1	124·9	125·8	126·0	126·8	125·8	127·0	127·0	126·9	126·8	128·0
30	0	125·0	124·9	125·9	126·0	126·5	126·0	126·6	127·0	126·7	127·0	128·2
35	0	125·0	124·9	126·0	126·1	126·0	126·2	126·8	127·0	126·7	127·0	128·1
40	0	125·0	125·6	125·6	126·4	125·9	126·1	126·8	127·0	126·6	127·0	128·4
45	0	124·7	125·6	125·4	126·2	125·7	126·0	127·0	127·0	126·9	127·1	128·4
50	0	124·8	125·7	125·2	126·2	125·3	126·1	127·0	127·0	127·0	127·1	128·4
55	0	124·8	125·4	125·5	126·4	125·1	125·9	126·8	127·0	127·0	127·0	128·4
		One Scale Division = ·000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0	517·5	519·0	520·7	522·0	519·2	519·5	519·6	519·0	519·0	520·0	520·9
7	0	517·6	518·5	520·1	521·0	519·0	519·5	519·3	518·0	519·0	520·0	521·8
12	0	518·3	518·3	520·2	521·0	519·0	519·2	518·8	518·4	519·0	519·0	522·7
17	0	517·8	519·2	520·3	520·9	519·2	519·4	519·1	518·0	519·0	519·2	521·8
22	0	518·1	519·5	520·8	519·9	519·0	519·6	519·0	518·0	519·1	519·7	521·9
27	0	518·9	520·4	520·8	520·0	519·0	519·4	519·6	518·0	519·0	520·0	521·8
32	0	519·0	519·9	521·5	520·0	519·0	519·2	519·9	518·0	519·0	520·2	521·7
37	0	519·5	518·4	520·9	519·7	519·6	519·5	520·0	519·0	519·0	520·2	521·4
42	0	519·8	518·6	520·9	519·6	519·8	519·9	519·5	519·3	520·0	520·2	521·8
47	0	520·0	519·3	520·9	519·5	519·6	520·0	520·0	519·9	520·0	520·1	522·0
52	0	518·6	519·7	521·1	519·1	519·5	520·3	520·0	519·0	520·0	520·2	522·0
57	0	519·2	520·9	521·3	519·0	519·5	520·1	520·0	519·0	520·0	520·8	522·0
Thermometer		44·5	45·0	45·3	45·5	45·7	45·8	46·2	46·0	46·0	45·5	45·2
		One Scale Division = ·000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	123·3	123·3	120·5	119·9	119·7	119·9	120·5	120·4	120·1	119·3	118·4
8	0	123·3	123·0	120·5	119·9	119·7	119·9	120·2	120·4	120·1	119·3	118·4
13	0	123·3	123·0	120·5	119·9	119·5	120·1	120·2	120·4	120·1	119·3	118·4
18	0	123·3	122·7	120·4	119·9	119·5	120·1	120·2	120·0	120·1	119·0	118·4
23	0	123·3	122·5	119·9	119·9	119·5	120·1	120·2	120·1	120·1	119·0	118·4
28	0	123·4	122·1	119·9	119·9	119·5	120·1	120·2	120·1	120·1	118·5	118·4
33	0	123·5	121·7	120·1	119·9	119·5	120·1	120·2	120·1	120·4	118·5	118·4
38	0	123·5	121·2	119·9	119·6	119·5	120·1	120·2	120·1	120·4	118·5	118·3
43	0	123·5	121·2	119·8	119·6	119·5	120·1	120·0	120·1	120·4	118·4	118·3
48	0	123·5	121·2	119·8	119·8	119·5	120·1	120·0	120·1	119·7	118·4	118·2
53	0	123·3	121·0	119·9	119·7	119·9	120·5	120·4	120·1	119·7	118·4	118·2
58	0	123·2	120·5	119·8	119·7	119·9	120·6	120·4	120·1	119·5	118·4	118·2
Thermometer		45·3	45·5	46·6	46·8	47·0	47·1	47·1	47·1	47·1	47·1	47·1

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.
				Dry.	Wet.	Direction.	Force.	
D.	H.	M.	In.	°	°			
23	10	0	29·337	28·6	26·8	E. S. E.	Light.	Densely overcast; snowing heavily.
	11	0	29·371	27·2	25·7	E.	Very light.	Densely overcast; moderate snow.
	12	0	29·403	26·6	25·5	E.	Very light.	Densely overcast; snowing slightly.
	13	0	29·444	26·2	25·3	E. by N.	Very light.	Densely overcast; snowing slightly.
	14	0	29·486	26·4	25·0	E. by N.	Very light.	Densely overcast; snowing slightly.
	15	0	29·524	25·0	24·0	E. by N.	Very light.	Overcast; dense haze; slight snow.
	16	0	29·554	25·0	23·4	E. by N.	Very light.	Overcast; dense haze; slight snow.
	17	0	29·564	24·0	23·0	—	Calm.	Clear in zenith, remainder hazy; ceased snowing.
	18	0	29·580	22·8	20·4	E.	Light.	Clear, except haze round horizon.
	19	0	29·596	19·2	17·0	E.	Light.	Clear.
	20	0	29·643	17·0	15·2	N. E.	Light.	Clear.
	21	0	29·665	14·6	12·5	N. E.	Light.	Clear.

MAGNETICAL OBSERVATIONS.												
February 23rd and 24th.												
DECLINATION.						Angular Value of one Scale Division = 0'.721.						
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
128.0	128.8	128.1	129.0	129.9	130.2	129.1	127.0	122.2	122.0	123.0	124.6	126.1
128.5	128.2	128.5	129.0	129.8	130.3	129.3	127.0	122.0	122.0	123.0	125.0	126.1
128.4	128.7	128.7	128.9	129.4	130.0	129.2	127.0	122.4	122.0	122.9	125.1	126.4
128.4	128.8	128.2	129.5	130.0	129.8	129.3	126.8	122.4	122.0	122.9	125.3	126.1
128.0	129.0	128.7	129.5	130.0	130.3	129.3	126.4	123.0	122.0	123.1	125.3	126.6
128.0	128.8	128.4	129.2	130.0	130.4	129.8	125.6	122.9	122.2	123.7	125.4	126.5
128.1	128.7	128.8	129.4	129.6	130.7	129.0	125.1	122.9	122.2	124.0	125.1	126.5
128.2	128.8	128.8	129.3	130.1	130.1	129.4	125.1	122.5	122.5	123.8	125.3	126.4
128.8	128.8	128.7	129.8	130.2	129.6	129.3	125.0	122.1	122.6	124.5	125.3	126.8
128.8	128.8	128.7	129.5	130.1	129.2	128.5	123.9	122.0	122.9	124.9	125.7	126.6
129.0	128.6	128.9	129.6	130.0	129.1	128.0	123.4	122.0	122.9	124.8	125.7	126.8
129.0	128.3	129.0	129.6	129.6	128.6	127.9	122.4	121.9	123.0	124.8	125.9	126.1
HORIZONTAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fah. = .00027.						
521.9	524.1	523.4	524.4	523.3	519.8	518.6	519.1	521.9	527.0	528.0	530.6	527.4
521.5	523.2	523.5	524.6	522.5	519.4	518.5	519.0	522.6	527.0	528.4	530.8	527.4
522.0	523.3	523.8	524.2	521.7	519.7	518.7	519.0	522.1	527.3	529.1	530.1	528.5
521.8	523.1	523.9	524.5	522.3	519.8	519.2	520.0	524.4	527.7	530.1	530.5	528.7
522.8	523.4	524.3	524.1	522.2	519.6	518.8	520.4	524.3	528.0	528.7	530.7	524.6
522.9	523.1	524.2	523.7	522.5	519.5	518.6	521.0	524.6	528.0	528.2	530.4	527.9
523.2	523.6	524.6	522.9	522.8	520.1	518.0	521.2	523.9	529.0	529.8	529.4	526.6
523.2	523.5	524.2	523.4	522.2	519.9	518.0	521.5	525.3	529.0	529.9	530.2	528.9
522.9	523.0	524.2	523.5	523.0	520.0	518.6	521.6	525.0	528.8	529.4	530.3	529.8
522.9	523.1	524.2	523.7	521.8	519.7	518.5	522.0	526.0	528.4	531.3	529.9	530.0
522.9	523.9	523.6	524.1	519.7	519.8	518.0	521.6	526.1	530.5	530.6	529.5	530.2
522.6	524.2	523.3	523.2	519.3	519.5	519.0	521.4	526.7	530.1	530.8	529.2	530.2
44.8	44.2	43.5	43.0	42.6	42.8	42.4	43.0	43.6	44.0	44.4	44.6	45.0 <sup>a</sup>
VERTICAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fah. = .00007.						
118.5	118.8	119.0	122.1	123.3	126.9	124.8	124.8	123.8	123.6	122.0	121.9	121.4
119.5	118.8	119.3	122.2	123.3	127.0	124.8	124.8	123.9	123.6	122.1	121.9	121.3
119.5	118.8	120.0	122.2	123.3	127.0	125.0	124.4	123.6	122.8	122.1	121.9	121.3
119.4	118.8	120.6	122.5	123.3	126.0	124.8	124.4	123.6	122.8	122.0	121.9	121.1
119.4	118.9	120.9	122.5	123.3	125.8	124.8	124.4	123.6	122.8	122.0	121.7	121.1
119.1	118.9	121.1	122.6	124.7	125.5	124.8	124.4	123.6	122.8	122.0	121.7	121.1
119.1	119.0	121.1	123.0	123.6	125.5	124.8	124.4	123.6	122.8	121.9	121.7	121.7
119.0	118.9	121.1	123.2	124.8	125.8	124.8	123.8	123.6	122.8	121.9	121.6	121.7
119.0	118.9	121.1	123.0	126.5	126.3	124.8	124.1	123.6	122.0	121.9	121.6	121.7
119.0	118.9	121.5	123.0	126.5	127.9	124.8	124.2	123.6	122.0	121.9	121.6	121.7
119.0	118.9	121.8	123.0	126.4	124.8	124.8	123.8	123.6	122.0	121.9	121.6	121.7
118.9	119.1	122.0	123.3	126.5	125.0	124.8	123.8	123.6	122.0	121.9	121.5	121.7
46.6	46.4	46.4	44.6	43.9	43.1	44.0	43.6	44.1	44.4	44.6	44.8	45.0 <sup>a</sup>

<sup>a</sup> At 24<sup>h</sup> 10<sup>h</sup> Thermometer of H. F. 45°·6; of V. F. 45°·3.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
23	22	0	29.682	12.9	10.9	N. E.	Light.	Clear.				
	23	0	29.705	11.7	9.9	N. E.	Light.	Clear.				
24	0	0	29.745	10.0	8.4	N. E.	Very light.	Clear.				
	1	0	29.784	9.1	7.8	N. E.	Very light.	Clear, except haze round horizon; fair.				
	2	0	29.810	10.5	8.8	N. E.	Light.	Clear, except a few cir.-strat. and light haze round horizon.				
	3	0	29.834	12.4	10.2	N. E.	Very light.	Clear.				
	4	0	29.838	14.6	12.4	—	Calm.	Clear.				
	5	0	29.865	17.8	15.6	—	Calm.	Clear.				
	6	0	29.864	19.0	17.0	—	Calm.	Clear.				
	7	0	29.841	21.4	19.8	S. E.	Very light.	Light cir.; haze round horizon, otherwise clear.				
	8	0	29.841	22.9	21.2	S. E.	Very light.	Light cir. and haze in West, remainder clear; fair.				
	9	0	29.845	24.3	22.2	S. E.	Very light.	Light cir. and haze round horizon, remainder clear; fair.				



March 20th and 21st		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	120.3	123.8	126.1	127.2	126.8	126.0	126.1	126.4	133.4	130.9	126.2
5	0	120.4	124.0	127.0	127.1	126.5	125.8	126.1	126.5	133.1	130.3	126.3
10	0	120.3	124.5	126.4	127.0	126.3	125.9	126.1	126.5	132.6	129.2	126.9
15	0	120.4	125.3	126.6	126.9	126.1	125.9	126.0	126.5	132.1	129.0	127.0
20	0	120.4	125.7	125.8	126.6	126.0	125.9	126.2	126.4	131.8	128.3	127.2
25	0	121.1	126.0	125.8	126.4	126.1	125.9	126.2	127.2	131.5	127.2	127.2
30	0	121.9	126.1	126.0	126.2	126.1	126.1	126.2	128.6	132.0	127.2	127.0
35	0	122.2	126.2	126.5	126.6	126.1	126.1	126.4	128.8	132.7	127.2	126.9
40	0	122.7	126.2	126.3	126.8	126.1	126.3	126.4	129.0	132.8	127.0	127.0
45	0	122.9	126.1	126.6	126.8	126.3	126.2	126.3	130.5	132.3	126.8	127.9
50	0	123.3	126.3	127.3	126.8	126.3	125.9	125.3	132.1	131.0	126.8	127.0
55	0	123.4	126.4	127.2	126.9	126.2	126.1	126.4	133.7	130.1	126.4	126.9

M. S.		One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
2	0	524.0	520.6	520.5	526.4	528.1	527.4	526.4	524.2	524.6	522.0	524.0
7	0	523.0	521.5	521.0	526.2	527.9	527.2	526.1	524.3	525.8	519.9	524.6
12	0	521.2	521.0	521.8	526.8	527.7	527.4	525.2	524.4	527.1	519.0	524.0
17	0	518.1	519.9	524.0	527.2	527.8	527.8	525.2	524.3	527.8	519.1	524.0
22	0	516.8	520.5	524.5	528.0	527.8	527.4	525.0	524.2	525.2	520.0	523.0
27	0	516.3	522.8	525.5	527.7	528.0	527.8	525.0	523.7	524.3	521.1	521.8
32	0	518.4	521.6	525.7	526.8	528.0	527.9	525.0	523.8	523.9	522.5	520.5
37	0	521.2	519.5	525.2	527.2	527.2	527.8	524.9	523.7	524.2	522.9	520.0
42	0	522.2	521.1	525.6	527.2	527.0	527.6	524.8	523.8	524.5	523.0	520.0
47	0	519.9	519.6	525.7	528.0	528.0	527.6	524.9	523.7	524.9	522.9	519.0
52	0	519.4	519.7	525.6	528.0	528.0	526.3	524.5	523.4	523.9	523.3	520.0
57	0	520.9	518.7	526.1	527.7	527.8	526.7	524.2	523.8	523.0	524.0	520.0

Thermometer		One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
		44.2	43.8	43.6	44.2	44.1	44.6	44.8	44.6	44.4	44.2	44.0

M. S.		One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
3	0	128.8	130.4	129.9	128.4	127.2	126.4	125.9	126.9	125.3	123.1	125.3
8	0	128.8	130.1	130.2	128.4	126.8	126.4	125.9	126.9	125.1	123.5	125.3
13	0	128.8	130.1	130.2	128.4	126.6	126.4	125.9	126.9	124.8	123.8	125.3
18	0	128.8	130.4	130.2	128.2	126.6	125.9	125.9	127.1	124.6	123.9	125.3
23	0	129.1	130.4	131.1	127.8	126.6	125.9	126.5	127.1	124.3	124.6	125.3
28	0	129.4	130.4	130.8	127.6	126.6	125.9	126.5	127.1	124.3	124.9	125.3
33	0	129.9	130.4	130.8	127.2	126.6	125.9	126.5	127.1	123.9	125.3	125.3
38	0	130.2	130.2	129.3	127.2	126.6	125.8	126.7	127.1	123.6	125.3	125.3
43	0	130.2	130.2	129.3	127.2	126.4	125.9	126.7	126.5	123.3	125.3	125.3
48	0	129.8	129.9	128.9	127.2	126.4	125.9	126.7	126.2	123.1	125.3	125.3
53	0	129.7	129.9	128.4	127.2	126.4	125.9	126.8	126.1	123.2	125.3	125.3
58	0	129.7	129.9	128.4	127.2	126.4	125.9	126.8	125.4	123.2	125.3	125.3

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.									
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.	
				Dry.	Wet.	Direction.	Force.		
P.	H.	M.	In.	°	°				
20	10	0	29.527	29.5	28.0	N.	Brisk with gusts	Overcast with dense haze; constant slight snow.	[falling.
	11	0	29.562	29.7	27.8	N.	Brisk with gusts	Overcast with cir-cum. and haze; a few light particles of snow	
	12	0	29.594	29.5	26.8	N.	Brisk.	Overcast with cir-cum. and haze.	
	13	0	29.624	29.1	26.3	N.	Moderate.	Densely overcast.	
	14	0	29.660	28.0	26.2	N.	Moderate.	Densely overcast; light snow falling.	
	15	0	29.688	26.7	25.3	N.	Brisk.	Densely overcast; a few flakes of snow falling.	
	16	0	29.705	25.5	23.9	N.	Brisk with gusts	Densely overcast; very dark; a few flakes of snow falling.	
	17	0	29.693	24.5	22.8	N.	Brisk.	Densely overcast; ceased snowing.	
	18	0	29.624	22.5	20.8	N.	Brisk.	Densely overcast.	
	19	0	29.704	20.6	19.0	N.	Light.	Perfectly clear, except a bank of heavy cum. on S. horizon.	
	20	0	29.704	18.4	17.0	—	Calm.	Clear and unclouded.	
	21	0	29.702	16.8	15.6	—	Calm.	Clear and unclouded.	

MAGNETICAL OBSERVATIONS.												
March 20th and 21st.												
DECLINATION.						Angular Value of one Scale Division = 0'.721.						
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
125.6	125.3	128.0	130.0	131.0	132.7	132.2	129.5	124.6	121.2	118.5	118.0	119.1
125.5	125.7	128.1	130.1	131.0	133.0	131.8	129.9	124.6	120.7	118.4	118.0	119.1
124.1	126.0	128.2	130.1	131.2	132.9	131.9	129.8	123.8	120.3	118.1	118.0	119.2
123.6	126.0	128.4	130.0	131.5	132.2	131.5	128.5	123.3	120.1	118.2	118.1	119.5
123.1	127.4	128.3	130.7	131.4	132.7	131.5	128.0	123.7	120.4	117.8	118.2	119.6
123.0	127.2	128.5	130.1	131.7	132.3	131.1	127.9	122.8	119.8	117.6	118.2	119.4
123.0	127.1	129.0	130.3	132.2	133.6	130.9	126.7	122.8	119.6	117.8	118.2	119.8
122.9	127.5	129.6	130.2	132.1	133.1	130.4	126.1	122.4	119.0	117.8	118.8	119.8
123.0	127.5	129.9	130.2	132.0	133.0	130.2	125.8	122.0	118.7	117.8	118.8	120.0
123.7	127.5	130.1	130.1	132.8	132.7	130.0	125.1	121.9	118.6	117.9	118.8	120.0
124.5	127.7	130.3	130.8	133.0	132.5	130.2	125.0	121.3	118.7	118.1	118.9	120.1
125.1	127.9	130.0	130.8	132.9	132.2	129.8	125.0	121.3	118.8	118.0	119.1	120.4

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.												
519.3	526.5	526.8	527.1	524.0	522.1	519.3	510.4	505.7	504.7	505.8	516.3	519.4
519.4	527.0	526.2	527.2	524.0	522.6	518.3	511.1	507.1	504.9	506.2	516.0	519.8
520.5	527.0	525.8	526.6	524.0	522.1	518.0	510.9	507.0	505.5	506.2	516.0	519.9
520.0	525.9	526.7	525.8	524.1	522.2	517.0	509.9	506.0	506.2	508.3	516.0	521.0
522.0	526.5	526.2	524.5	523.4	521.6	516.0	509.6	505.0	507.0	510.2	517.2	520.9
523.5	526.8	526.3	524.4	523.6	520.7	516.9	507.4	504.0	507.6	510.6	517.8	520.8
524.0	526.8	526.6	524.5	523.4	520.6	516.3	507.3	503.1	506.9	510.7	518.2	521.0
524.5	527.2	527.4	524.4	523.3	521.1	514.5	506.1	502.5	505.0	511.5	518.3	521.0
525.0	527.2	527.1	523.6	523.0	520.3	514.3	506.1	503.2	504.7	512.1	518.4	521.9
525.0	526.9	527.3	523.6	523.1	520.1	512.3	505.4	503.0	505.2	512.4	518.0	521.0
526.0	527.1	527.5	524.0	522.8	519.8	512.6	504.5	504.0	504.2	514.4	517.7	521.6
526.5	527.0	527.7	524.4	523.5	519.1	512.1	504.9	503.7	504.4	516.2	517.8	521.0

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.												
124.8	124.0	126.4	127.7	129.4	126.6	125.3	122.6	121.8	122.2	122.9	121.2	122.0
124.8	124.4	126.4	127.8	129.0	126.6	124.8	122.6	121.9	122.2	122.3	121.2	122.0
124.7	124.4	126.4	127.4	128.8	126.4	124.8	122.6	121.9	122.4	122.1	121.2	122.0
124.3	124.7	126.4	127.4	128.7	126.4	124.8	122.1	121.9	122.4	122.1	121.2	123.2
124.3	124.4	126.3	127.3	128.6	126.3	124.6	122.0	121.9	122.7	122.2	121.5	122.8
124.3	124.4	126.3	128.5	128.5	125.7	124.4	122.0	121.7	122.7	122.0	121.5	122.9
124.1	124.7	126.9	129.0	128.1	125.7	124.4	122.0	121.8	122.7	121.9	121.5	123.0
123.7	125.3	126.9	129.3	127.7	125.4	124.0	121.7	121.8	122.7	121.9	121.5	123.0
123.7	126.0	126.9	129.3	127.5	125.4	124.0	121.7	121.8	122.8	121.9	121.5	123.6
123.9	126.0	127.2	129.3	126.9	125.4	123.5	121.7	121.8	122.9	121.4	121.4	123.6
124.2	126.0	127.2	129.4	126.9	125.4	123.2	122.0	121.9	122.9	121.6	121.4	123.6
124.1	126.0	127.4	129.4	126.8	125.3	123.2	122.0	121.9	123.1	121.6	121.4	123.6

\* At 21<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 47°·4; of V. F. 47°·3.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.	Barometer at 32°.	Thermometers.		Wind.		Weather.						
		Dry.	Wet.	Direction.	Force.							
D. H. M.	In.	°	°									
20 22 0	29.712	16.8	15.0	—	Calm.	Clouded round horizon with cir.-cum. and cir.-strat.; remainder clear.						
23 0	29.729	16.5	15.2	—	Very light.	Partially clouded with light cir.-strat. and haze. (remainder clear.)						
21 0 0	29.724	15.4	13.9	N. by W.	Light.	Dense cum.-strat. and cir.-strat. on the S. and East horizons; re-						
1 0	29.720	14.8	13.5	—	Calm.	Dense cum.-strat. in S. horizon.						
2 0	29.721	16.7	14.8	—	Calm.	Dense cum.-strat. in S. horizon; remainder clear; fair.						
3 0	29.718	19.1	16.9	—	Calm.	Dense cum.-strat. along S. horizon; remainder clear; fair.						
4 0	29.705	20.8	18.5	—	Calm.	Dense cum.-strat. along S. horizon; remainder clear; fair.						
5 0	29.692	22.8	20.8	—	Calm.	Detached cum.-strat. and cir.-cum. round horizon; zenith clear; fair.						
6 0	29.674	24.4	22.4	N. N. W.	Very light.	Detached cum.-strat. and cir.-cum. round horizon; zenith clear; fair.						
7 0	29.658	26.5	24.8	S. S. W.	Very light.	Detached cir.-cum. and cum.-strat.; generally fair.						
8 0	29.628	28.0	26.2	S. S. E.	Very light.	Detached cir.-cum. round horizon; remainder clear; fair.						
9 0	29.608	29.1	27.2	S. S. E.	Very light.	Light cir.-cum. generally round horizon; remainder clear; fair.						

April 24th and 25th.			MAGNETICAL OBSERVATIONS.									
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.				
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		121.2	122.3	123.0	123.0	123.3	123.0	123.5	130.9	120.1	127.9
5	0		121.2	122.4	123.0	122.5	123.6	123.4	123.8	131.7	120.5	127.5
10	0		121.2	122.4	123.0	122.5	123.1	123.0	123.7	132.1	121.1	127.6
15	0		121.2	122.9	123.1	122.2	123.1	123.0	123.7	132.1	122.3	127.3
20	0		121.5	123.0	123.0	122.5	123.0	123.2	123.6	132.0	123.8	127.7
25	0		121.7	123.0	123.0	123.0	123.0	123.1	123.5	129.6	124.3	127.5
30	0		121.8	123.0	123.4	123.1	123.0	123.2	123.3	128.1	126.2	127.3
35	0		122.0	123.1	123.3	123.7	123.0	123.8	123.4	128.2	126.9	127.1
40	0		122.0	123.1	123.4	123.0	123.0	123.9	123.5	127.5	128.1	126.4
45	0		122.0	123.1	123.4	123.0	122.9	123.8	125.0	127.0	128.2	126.4
50	0		122.1	123.1	123.4	123.0	123.0	123.5	127.1	125.3	128.0	126.3
55	0		122.2	123.1	123.7	123.1	123.0	123.4	129.0	122.6	128.3	126.0
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.				
M.	S.											
2	0		500.0	503.0	502.6	497.1	495.5	496.0	497.0	494.1	492.9	499.7
7	0		500.0	502.9	502.5	497.0	496.0	496.0	497.0	493.6	493.2	500.4
12	0		500.0	501.9	503.2	496.5	496.0	495.6	496.8	494.0	494.1	500.4
17	0		500.1	501.1	501.4	496.8	496.8	495.6	496.6	493.6	494.9	500.4
22	0		500.0	500.7	509.2	496.0	496.8	495.9	496.6	493.7	495.4	500.1
27	0		500.0	500.9	599.1	497.0	496.0	496.0	496.7	494.0	498.9	499.8
32	0		500.7	500.3	598.6	498.0	496.0	496.4	496.5	493.7	497.9	500.1
37	0		501.9	500.0	598.1	498.0	496.0	497.4	496.0	492.0	498.3	500.5
42	0		503.9	500.0	597.8	498.0	495.7	497.9	495.8	491.6	498.7	500.0
47	0		504.0	501.7	597.8	498.0	495.5	498.0	494.8	491.5	499.0	499.9
52	0		502.5	502.8	597.4	496.8	495.6	497.2	493.5	492.9	499.1	499.7
57	0		502.4	502.5	597.6	496.1	496.0	497.0	493.0	492.5	499.6	499.7
Thermometer			65.0	65.2	65.0	65.0	64.5	63.5	62.7	62.1	61.4	61.2
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.				
M.	S.											
3	0		85.0	84.7	84.6	83.1	81.9	83.2	84.3	84.5	85.9	86.2
8	0		85.0	84.3	84.6	83.1	81.9	83.2	84.3	84.5	85.9	86.5
13	0		85.0	84.3	84.4	82.2	81.9	83.2	84.3	84.5	85.7	85.9
18	0		85.0	84.3	84.5	82.2	81.9	83.1	83.8	84.6	85.7	85.9
23	0		85.0	84.3	84.5	82.2	82.4	83.6	83.8	84.8	85.7	85.4
28	0		85.0	84.3	84.5	82.2	82.3	83.8	83.7	84.8	86.2	85.2
33	0		84.8	84.5	84.5	82.2	82.3	83.8	84.5	84.8	85.8	85.2
38	0		85.0	84.5	84.2	82.2	82.5	84.3	84.8	85.1	85.7	85.1
43	0		85.0	84.5	84.2	82.2	82.9	84.3	84.8	85.1	87.7	85.1
48	0		85.0	84.6	84.2	82.2	82.8	84.3	84.8	85.8	86.7	85.1
53	0		84.6	84.6	84.7	81.9	82.8	84.3	83.8	85.9	86.7	85.1
58	0		84.7	84.6	83.1	81.9	83.2	84.3	83.8	85.9	86.8	85.1
Thermometer			63.6	63.6	63.6	63.8	64.5	63.8	63.3	62.8	61.8	61.8

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
24	10	0	29.394	68.0	57.4	N.	Brisk with gusts	Generally cloudy, with heavy detached cir.-cum.				
	11	0	29.454	66.4	56.4	N. N. W.	Brist.	Detached cir.-cum., with clear intervals.				
	12	0	29.464	62.6	54.8	N.	Moderate.	Detached cir.-cum. and cum.-strat., with clear intervals.				
	13	0	29.520	57.4	51.8	N. N. W.	Brisk.	Heavy cir.-strat. and cir.-cum. round horizon; zenith clear; hazy.				
	14	0	29.618	52.8	47.0	N. W.	Brisk.	Densely clouded cir.-cum. and cum.-strat.				
	15	0	29.647	49.2	44.2	N. W.	Brisk.	Densely clouded cir.-cum. and cum.-strat.				
	16	0	29.673	48.2	44.0	N. N. W.	Moderate.	Densely clouded cir.-cum. and cum.-strat.				
	17	0	29.711	46.8	43.2	N. N. W.	Moderate.	Generally overcast with cir.-cum. and cum.-strat; clear spaces.				
	18	0	29.748	45.5	42.1	N. N. W.	Moderate.	Generally clear, a few cir.-cum. passing rapidly across zenith from N.W.				
	19	0	29.776	44.4	41.4	N. N. W.	Moderate.	Clear.				
	20	0	29.811	42.9	40.3	—	Calm.	Clear.				
	21	0	29.809	39.9	38.1	—	Calm.	Clear.				

MAGNETICAL OBSERVATIONS.												April 24th and 25th.		
DECLINATION.												Angular Value of one Scale Division = 0'.721.		
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
126.3	128.2	129.5	127.0	129.1	122.8	117.0	117.7	121.0	118.7	117.1	115.2	117.7		
126.5	128.6	128.9	126.8	128.5	121.8	117.8	118.0	122.0	120.3	117.0	115.3	118.0		
126.6	129.4	128.3	127.1	127.8	122.7	116.9	120.1	122.8	120.9	116.2	115.9	118.1		
127.0	130.5	128.0	126.8	128.3	119.2	116.0	122.0	122.8	121.3	116.9	115.8	118.2		
127.0	130.5	128.0	126.6	129.0	115.7	116.7	124.3	123.0	120.4	115.9	115.6	118.3		
126.8	130.4	127.6	127.1	129.6	114.9	117.9	125.2	122.6	118.8	114.9	116.1	118.1		
127.0	130.5	127.9	128.2	129.9	114.1	117.3	123.8	122.9	118.8	115.2	115.8	118.1		
127.0	130.1	128.0	128.8	129.4	114.5	118.3	122.8	122.2	121.1	115.1	115.5	118.1		
127.5	129.5	127.8	129.9	124.5	115.1	119.1	123.6	120.9	121.2	114.3	116.1	118.3		
127.9	128.9	127.3	130.4	123.9	114.9	117.8	124.0	118.5	119.4	112.6	116.6	118.3		
127.9	129.4	126.9	129.0	123.5	115.4	117.1	122.8	118.2	117.1	113.1	117.0	118.5		
128.2	129.6	126.8	128.8	123.0	116.9	117.4	121.7	117.4	116.4	113.7	117.7	118.8		
HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fah. = .00027.		
505.0	503.8	505.4	506.1	501.6	488.3	493.1	507.3	494.7	487.4	478.9	479.5	492.4		
504.9	503.3	505.2	507.0	502.4	487.6	499.0	506.5	493.7	489.8	481.6	480.5	496.3		
504.6	503.0	505.9	507.7	500.8	482.0	503.7	505.1	491.5	493.4	475.0	481.6	498.9		
505.0	503.7	505.6	507.7	497.4	481.6	408.4	504.6	490.4	494.4	478.9	480.0	497.1		
505.4	503.3	504.2	507.4	494.3	480.8	509.1	505.5	488.6	493.6	479.9	479.7	494.8		
505.0	503.1	503.6	507.3	491.4	481.9	510.9	503.4	483.1	494.2	478.9	481.0	494.4		
505.0	503.0	505.2	508.7	489.6	481.4	510.5	501.8	485.1	495.9	472.7	479.7	494.7		
504.2	503.0	505.6	508.1	487.8	485.0	507.2	500.8	481.4	495.5	474.5	482.1	494.8		
503.2	504.1	504.6	507.4	488.3	488.8	503.5	499.1	482.5	494.0	480.0	481.7	494.5		
504.1	505.6	503.5	508.2	490.7	489.3	505.7	497.1	481.9	481.5	478.9	483.1	494.2		
504.3	507.4	504.6	506.2	492.8	491.1	507.8	497.3	483.3	478.4	482.0	485.6	494.4		
504.9	506.3	504.3	503.8	499.0	491.5	508.5	494.8	483.9	477.4	480.4	490.7	495.0		
60.0	59.9	59.6	58.8	59.6	61.0	61.8	62.3	62.5	62.4	62.5	62.6	62.6 <sup>a</sup>		
VERTICAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fah. = .00007.		
86.9	87.5	89.6	90.1	86.6	84.1	80.9	79.0	81.5	82.5	85.7	94.5	91.2		
87.1	87.5	89.0	90.1	87.2	83.0	81.6	79.0	80.6	82.9	85.8	94.2	92.2		
87.1	87.5	89.0	90.3	86.9	82.0	81.5	79.0	80.6	83.5	86.8	93.8	92.2		
87.2	87.5	89.1	90.3	86.6	82.7	80.4	79.8	81.0	83.8	88.5	92.2	92.2		
87.3	87.5	89.5	90.1	86.6	81.1	79.9	80.6	80.8	84.1	89.4	91.4	91.2		
87.3	87.2	89.5	89.7	86.6	80.1	79.3	80.6	80.8	84.6	89.8	90.5	90.9		
87.5	87.5	89.5	88.9	86.6	80.1	78.9	80.6	81.2	85.1	90.3	99.5	90.9		
87.5	87.9	89.9	87.7	86.6	80.1	78.4	80.6	81.7	85.1	92.2	90.3	90.4		
87.3	88.6	90.0	87.7	87.4	80.4	78.7	81.2	81.7	85.0	94.1	89.9	90.2		
87.2	89.0	90.0	87.7	87.3	80.4	79.1	80.7	81.9	84.4	94.2	89.8	90.2		
87.2	89.0	90.4	87.7	86.8	80.4	79.1	81.5	81.9	84.4	95.2	80.4	89.7		
87.2	89.4	90.3	87.6	86.5	80.4	79.1	81.5	81.9	85.0	94.9	81.2	89.7		
61.2	60.8	60.4	59.6	60.4	60.6	61.1	61.4	61.6	61.8	61.8	62.0	62.1 <sup>a</sup>		

<sup>a</sup> At 25<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 62°·4; of V. F. 62°·0.

METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.						
				Dry.	Wet.	Direction	Force.							
D.	H.	M.	In.	°	°									
24	22	0	29.810	41.0	38.7	—	Calm.	Unclouded, but hazy.						
23	0	0	29.824	40.4	38.0	N. N. W.	Very light.	Clear.						
25	0	0	29.831	39.8	38.2	N. N. W.	Very light.	Quite clear.						
1	0	0	29.830	43.0	40.8	—	Calm.	Quite clear.						
2	0	0	29.828	47.6	43.4	—	Calm.	Quite clear.						
3	0	0	29.835	50.8	45.8	—	Calm.	Quite clear.						
4	0	0	29.833	52.2	47.4	S. W.	Very light.	Generally clear; very light cir. scattered; fair.						
5	0	0	29.818	54.9	48.4	S. S. W.	Very light.	Light cir. haze scattered generally; clear intervals.						
6	0	0	29.808	56.2	47.9	S. S. W.	Very light.	Very light cir. haze generally diffused; fair [diameter about 35° perfect.						
7	0	0	29.793	57.7	48.4	S. S. W.	Very light.	Overspread with very light cir. and haze; fair; halo round the ☉						
8	0	0	29.782	59.5	50.5	S. S. W.	Light.	Overcast; cir. and haze.						
9	0	0	29.735	56.5	47.1	S. S. W.	Light.	Thickly overcast cir.; cir.-strat. and haze.						

MAGNETICAL OBSERVATIONS.												
May 24th and 25th.												
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.						DECLINATION.				
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	122·0	119·4	119·0	114·1	115·8	122·0	115·0	117·0	116·1	123·3	117·0
5	0	124·0	119·4	119·0	113·7	116·1	122·7	115·6	117·1	118·1	124·2	116·8
10	0	124·0	119·5	119·0	114·0	116·2	119·7	116·4	116·8	118·9	124·0	117·1
15	0	123·9	120·2	119·1	115·0	117·7	115·0	116·8	116·7	119·9	123·3	118·2
20	0	122·7	120·2	121·6	117·5	121·0	114·4	117·2	116·6	120·2	121·4	119·2
25	0	121·9	120·2	132·7	119·8	122·0	113·1	117·8	117·8	121·3	120·8	119·2
30	0	121·3	120·2	131·6	120·0	120·5	114·8	118·9	118·1	121·5	120·7	120·0
35	0	121·2	119·9	124·3	119·4	119·0	115·4	118·8	117·6	122·4	120·6	120·7
40	0	121·1	119·2	122·8	117·6	119·0	114·5	118·2	117·7	123·4	120·5	120·8
45	0	119·9	119·3	119·7	116·9	116·9	114·8	117·1	116·7	123·6	120·4	121·2
50	0	119·7	119·2	119·3	116·0	118·0	115·4	116·6	116·2	124·1	120·4	121·3
55	0	119·8	118·9	115·0	115·1	120·1	115·0	116·2	115·0	123·9	120·4	121·0
One Scale Division = ·000087 parts of the H. F.												
M. S.		HORIZONTAL FORCE.										
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
2	0	502·0	499·0	498·0	494·4	496·9	490·0	495·0	493·2	495·3	496·0	491·6
7	0	511·5	499·6	497·2	490·0	496·0	490·0	494·0	493·3	494·8	496·0	491·4
12	0	515·3	501·0	496·0	488·0	494·0	492·5	493·0	493·3	495·5	495·8	492·6
17	0	515·6	500·7	494·8	488·0	491·9	494·5	492·5	493·4	496·0	494·4	492·9
22	0	512·6	500·4	494·2	487·4	492·4	495·0	493·0	493·6	496·0	493·4	493·9
27	0	508·0	501·2	506·3	491·4	494·0	494·0	492·2	493·9	495·8	494·4	494·6
32	0	506·7	500·8	515·8	495·0	493·0	495·5	492·3	495·9	496·0	495·1	495·0
37	0	508·3	500·2	515·6	496·3	491·0	496·5	492·7	495·2	495·1	494·8	495·0
42	0	506·9	499·7	508·6	495·6	492·5	496·8	492·9	495·0	496·1	494·3	495·1
47	0	505·4	501·5	505·1	495·0	493·0	496·5	492·9	494·2	495·9	496·0	495·0
52	0	501·7	501·5	501·3	495·0	491·0	496·0	492·9	494·1	495·6	496·0	495·9
57	0	499·5	500·4	497·8	495·0	488·5	496·5	493·4	495·6	495·8	496·0	496·3
Thermometer												
		64·6	65·5	66·2	65·4	66·0	66·1	66·0	65·8	65·5	65·6	65·5
One Scale Division = ·000062 parts of the V. F.												
M. S.		VERTICAL FORCE.										
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
3	0	86·9	83·8	83·0	81·4	79·1	76·4	72·2	77·4	75·7	77·5	78·5
8	0	88·0	83·8	83·0	80·9	78·4	75·9	73·1	77·4	75·7	77·5	78·1
13	0	88·3	84·1	83·2	81·7	77·7	74·8	73·5	77·5	75·7	77·5	78·7
18	0	88·0	84·1	83·0	82·2	77·7	74·8	74·5	77·5	75·7	77·5	78·7
23	0	86·8	84·1	83·0	82·2	77·7	72·4	74·9	77·5	75·4	77·2	78·3
28	0	86·0	84·1	84·4	82·2	77·7	72·4	75·2	77·5	75·4	77·3	78·3
33	0	86·0	83·8	82·8	82·1	77·7	73·3	75·2	75·9	75·3	77·3	77·4
38	0	86·0	83·7	83·1	82·1	77·7	70·3	75·4	75·9	78·6	77·2	77·4
43	0	85·2	83·7	81·6	81·2	77·7	70·3	75·4	75·9	78·5	77·2	77·4
48	0	85·2	83·0	81·6	80·5	77·7	70·3	75·5	75·5	78·6	77·0	77·4
53	0	83·4	83·0	81·6	80·6	77·7	70·7	76·5	75·5	78·6	77·1	77·4
58	0	83·4	83·0	80·8	79·8	76·4	71·5	76·5	75·5	78·5	77·3	77·2
Thermometer												
		63·6	64·1	64·8	65·2	66·0	66·6	66·6	66·0	65·6	65·4	64·9
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.		Barometer at 32°.	Thermometers.		Wind.		Weather.					
			Dry.	Wet.	Direction.	Force.						
H.	M.	In.	°	°								
24	10 0	29·730	68·2	61·0	E.	Very light.	Detached cir. and cir.-cum. scattered; fair.					
	11 0	29·715	72·4	64·8	—	Calm.	Detached cir. and cir.-cum. scattered; fair.					
	12 0	29·712	71·5	63·8	—	Calm.	Flexuous cir. generally over the sky; fair.					
	13 0	29·693	65·4	58·8	—	Calm.	Unclouded, hazy round horizon.					
	14 0	29·684	59·8	56·8	—	Calm.	Cir. and haze round horizon; clear in zenith.					
	15 0	29·676	57·6	55·6	—	Calm.	Unclouded, hazy round horizon.					
	16 0	29·672	56·2	54·6	—	Calm.	Unclouded, hazy in W.					
	17 0	29·676	55·7	54·7	—	Calm.	Clear except a few light cir.-cum. in S.					
	18 0	29·674	55·1	54·0	—	Calm.	Clear except a few light cir.-cum. in S.					
	19 0	29·642	53·9	53·1	—	Calm.	Clear except light cir.; haze round horizon.					
	20 0	29·632	53·7	52·6	—	Calm.	Clear except cir.; haze round horizon.					
	21 0	29·622	53·9	53·2	—	Calm.	Clouded cir.-cum. and haze.					

MAGNETICAL OBSERVATIONS.												
May 24th and 25th.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div. 120.5	Sc. Div. 123.7	Sc. Div. 126.9	Sc. Div. 128.4	Sc. Div. 130.4	Sc. Div. 129.9	Sc. Div. 127.2	Sc. Div. 123.6	Sc. Div. 121.1	Sc. Div. 115.4	Sc. Div. 115.9	Sc. Div. 118.5	Sc. Div. 118.0
121.2	124.4	127.3	128.8	131.1	129.1	127.5	124.0	121.0	115.0	115.3	118.5	118.1
121.6	124.1	127.9	128.4	130.0	129.0	127.0	124.0	121.0	115.5	115.0	118.2	118.1
121.5	124.3	127.8	128.8	131.0	128.2	127.0	124.1	119.6	115.4	115.0	118.3	119.3
121.1	125.0	128.0	129.7	131.8	128.1	126.3	123.7	119.4	115.7	116.1	118.5	120.9
121.5	125.5	128.4	129.9	131.3	128.0	126.0	122.3	119.2	115.0	116.2	118.5	121.1
121.9	126.0	128.1	130.0	132.0	128.0	126.0	122.0	118.4	115.1	115.8	118.2	121.1
122.4	126.6	127.8	130.0	132.0	128.0	125.9	122.1	118.0	115.0	116.5	118.5	121.0
122.8	126.4	127.9	130.0	131.8	128.0	124.9	121.2	117.8	115.1	117.0	119.2	121.2
122.9	126.9	128.0	130.0	130.7	127.7	123.9	121.0	117.7	115.1	118.2	119.2	121.2
123.6	126.8	128.2	130.0	131.3	127.7	123.4	121.3	116.9	115.4	117.9	119.2	121.0
123.4	126.1	128.5	129.6	129.9	127.3	124.0	121.0	115.6	116.0	118.1	119.3	120.6
HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00027.												
496.2	496.4	496.0	495.2	493.6	488.3	488.3	493.0	490.7	488.0	495.4	500.6	487.7
495.7	495.9	496.0	494.0	493.3	487.9	490.0	494.4	490.9	487.6	493.0	501.3	485.2
496.5	496.5	496.0	495.2	493.3	488.4	489.7	494.8	490.2	492.3	489.9	501.8	485.2
496.1	495.8	496.2	495.3	491.2	489.3	490.0	493.9	490.0	491.6	489.8	502.7	489.1
496.4	496.1	496.5	495.4	489.2	489.9	489.8	490.6	489.8	490.0	494.7	501.9	496.9
495.6	496.0	496.9	496.3	491.0	489.6	489.4	492.7	491.7	489.9	494.6	503.8	500.2
495.0	495.9	497.0	495.1	491.0	489.0	489.6	491.9	488.7	493.0	493.0	504.5	499.4
495.0	496.2	495.9	493.8	491.0	488.6	491.9	493.7	488.6	492.9	496.6	505.0	498.9
495.8	496.2	495.1	492.9	489.0	488.6	493.4	494.3	488.3	490.8	501.1	506.7	501.7
495.0	496.0	495.0	492.7	490.9	490.0	493.4	493.4	489.6	490.8	502.5	505.9	502.7
495.3	496.3	495.6	494.2	487.5	488.5	492.9	491.8	488.9	491.9	501.4	501.5	502.4
495.0	496.4	495.9	494.4	488.8	488.9	492.9	491.8	487.0	495.2	504.0	497.4	501.9
65.4	65.2	65.0	64.5	64.8	65.0	65.0	66.0	67.2	68.5	70.2	70.7	71.4 <sup>a</sup>
VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
77.1	77.7	78.5	80.9	80.1	80.8	79.5	78.4	77.3	75.7	73.1	71.1	70.5
76.9	77.7	79.1	80.9	80.1	80.8	79.5	78.4	77.3	75.9	71.2	71.5	70.5
77.0	78.2	79.1	80.9	79.9	80.4	79.4	78.1	77.7	75.9	70.8	71.5	71.4
77.0	78.2	79.1	81.3	80.4	80.4	79.4	78.1	77.7	75.9	70.8	71.5	72.5
76.7	78.2	79.1	81.3	80.4	80.4	79.3	78.1	77.6	74.8	70.6	71.5	73.2
76.6	78.5	79.8	81.3	80.4	80.1	79.1	78.1	76.6	74.6	70.3	71.8	73.3
76.5	78.5	79.8	81.4	81.1	79.9	79.1	78.1	76.6	73.5	70.4	72.3	73.4
76.5	78.5	79.8	81.4	81.1	80.1	79.2	78.1	76.6	73.1	70.6	72.3	72.3
76.7	78.5	80.3	80.6	81.1	79.7	79.2	78.0	76.6	73.1	71.4	72.3	72.3
77.2	78.5	81.0	80.6	80.8	79.5	78.8	77.3	76.6	73.1	71.2	71.7	72.3
77.2	78.5	81.0	80.6	80.8	79.5	78.8	77.3	75.7	73.1	71.2	71.4	72.3
65.3	64.9	65.0	63.4	64.0	64.6	64.6	64.9	66.0	67.6	68.6	69.2	70.0 <sup>a</sup>

<sup>a</sup> At 25<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 71°·9; of V. F. 70°·6.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
D.	H.	M.		Dry.	Wet.	Direction.	Force.					
24	22	0	29.618	54.3	53.1	—	Calm.	Clouded cir.-cum. and haze.				
	23	0	29.620	54.5	53.0	—	Calm.	Clouded cir.-cum. and haze.				
25	0	0	29.620	55.8	54.4	—	Calm.	Clouded cir.-cum. and haze.				
	1	0	29.624	59.5	57.6	—	Calm.	Clouded cir.-cum. and haze.				
	2	0	29.614	62.8	60.8	—	Calm.	Clouded cir.-cum. and haze; distant thunder in W.				
	3	0	29.612	64.8	62.4	—	Calm.	Overcast light cir.-cum. and haze.				
	4	9	29.591	69.4	66.4	—	Calm.	Partially overcast with light cir.-cum. and haze.				
	5	0	29.581	70.3	67.5	S.	Very light.	Dense cum.-strat. round horizon; light cir.; haze generally diffused in [zenith.				
	6	0	29.560	74.0	69.6	S.	Very light.	Dense cir.-strat. in N. W. and W. light cir.; haze diffused over remainder				
	7	0	29.530	75.5	69.7	S. E. by S.	Light.	Partially clear above; cir. and cum. over remainder. [of sky.				
	8	0	29.510	75.8	68.3	S. by E.	Moderate.	Partially clouded cir. and detached cum.				
	9	0	29.480	76.6	68.4	S. S. E.	Moderate.	Light cir. generally over the sky; hazy.				

June 19th and 20th.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	S. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	116.9	120.1	122.0	122.5	121.4	122.6	121.0	123.0	—	121.3	123.3
5	0	117.3	120.2	122.0	122.9	122.2	121.5	121.0	123.0	122.6	122.0	124.0
10	0	117.8	120.3	122.3	122.4	122.4	121.3	120.9	123.0	122.2	122.7	123.7
15	0	118.1	120.7	122.2	122.0	122.0	121.3	121.0	122.1	122.0	122.5	123.9
20	0	118.5	120.9	122.0	122.0	121.3	122.0	121.0	122.0	122.2	123.0	123.9
25	0	119.0	121.0	122.4	122.8	121.1	121.3	121.2	122.2	122.0	123.2	123.9
30	0	119.2	121.0	122.9	122.1	121.2	120.0	122.0	122.6	122.0	124.3	123.3
35	0	119.7	121.2	122.9	121.7	121.0	119.2	122.8	122.8	121.6	123.9	123.7
40	0	119.7	121.4	122.9	121.8	120.9	119.7	123.0	122.8	121.3	123.2	123.9
45	0	119.5	121.3	123.0	121.3	121.0	121.0	122.8	122.3	121.1	123.0	124.2
50	0	119.9	121.8	123.0	120.9	121.0	121.8	122.8	122.0	120.9	122.8	124.2
55	0	120.0	121.7	122.8	120.6	122.0	121.7	122.8	122.7	121.0	123.0	124.5
		One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
3	0	496.9	500.1	498.5	493.4	492.3	494.0	497.0	495.8	495.0	497.0	497.0
8	0	494.6	499.7	498.4	492.7	492.2	491.8	497.0	495.4	495.3	496.8	496.7
13	0	496.2	500.3	498.2	493.0	494.5	491.3	496.0	495.2	495.6	497.2	495.9
18	0	497.1	500.1	497.9	494.8	493.8	491.7	495.0	495.3	496.0	496.2	495.3
23	0	500.0	500.0	496.0	493.8	494.1	496.1	493.8	495.2	496.3	495.8	495.6
28	0	502.6	499.2	496.6	495.5	494.4	497.9	492.1	495.4	496.7	495.5	495.3
33	0	503.6	498.0	496.5	494.8	493.6	497.3	492.0	495.1	496.0	496.9	495.0
38	0	503.4	498.0	496.5	493.7	492.2	495.8	492.0	495.0	495.8	495.8	495.2
43	0	502.8	498.3	498.0	493.4	493.0	496.9	493.0	495.0	496.0	495.7	495.2
48	0	501.0	498.0	497.6	492.6	492.8	496.1	493.8	494.6	496.8	495.8	495.0
53	0	500.0	499.9	497.6	492.8	493.2	495.4	494.2	494.0	497.2	496.8	495.5
58	0	500.0	499.2	495.3	491.3	493.8	495.7	495.3	494.0	497.4	496.7	495.0
Thermometer		73.5	74.0	73.7	73.7	73.2	72.8	72.0	71.8	71.6	71.5	71.0
		One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	63.6	63.2	63.3	62.8	62.8	61.4	60.7	61.8	61.8	61.7	62.7
8	0	63.2	63.1	63.2	62.8	62.8	61.4	60.7	61.8	62.1	61.7	62.7
13	0	63.4	63.1	63.2	62.8	62.1	61.4	60.7	61.8	62.1	61.7	62.7
18	0	63.4	63.1	63.0	62.8	62.1	61.4	61.0	61.8	61.8	61.8	62.7
23	0	63.7	63.0	63.0	62.8	62.1	61.4	60.8	61.8	61.8	61.8	62.7
28	0	63.9	63.1	63.0	63.1	62.1	61.4	60.8	61.8	61.8	61.8	62.7
33	0	63.9	63.1	63.0	63.1	62.1	61.4	61.2	61.8	61.8	61.8	62.7
38	0	63.8	63.2	63.0	63.1	61.8	61.4	61.2	61.8	61.8	61.8	62.7
43	0	63.6	63.2	63.1	63.1	61.8	61.4	61.8	61.8	61.8	62.2	62.7
48	0	63.4	63.2	63.1	62.8	61.8	60.8	61.8	61.8	61.8	62.2	62.7
53	0	63.4	63.4	63.1	62.8	61.8	60.8	61.8	61.8	61.8	62.7	62.7
58	0	63.4	63.3	63.1	62.8	61.4	60.9	61.8	61.8	61.8	62.7	63.0
Thermometer		72.5	73.2	73.1	72.7	72.7	72.8	72.3	71.9	71.7	71.5	71.1
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
19	10	0	29.279	75.6	69.1	—	—	No remark.				
	11	0	29.320	76.2	68.7	N.	Light.	Partially overcast, with heavy masses of cum. and cum-strat.				
	12	0	29.357	72.1	66.8	N. W.	Very light.	Partially overcast; cir.-cum. and cum.-strat.				
	13	0	29.368	74.3	66.0	N.	Mod. with gusts	A few detached cir.-cum. round horizon.				
	14	0	29.402	68.2	63.2	N.	Light.	Unclouded; light haze round horizon.				
	15	0	29.435	64.7	61.1	—	Calm.	Clear.				
	16	0	29.448	63.0	60.0	—	Calm.	Clear.				
	17	0	29.463	62.4	60.2	—	Calm.	Clouded; cir.-cum. and haze. [and clear alternately.]				
	18	0	29.465	63.2	61.2	—	Calm.	Clear in N.W., remainder clouded; cir.-cum. and haze; clouded				
	19	0	29.466	61.6	60.2	—	Calm.	Unclouded; slight haze round horizon; sheet lightning in N. [horizon.]				
	20	0	29.476	60.4	59.6	N. N. W.	Very light.	Clear.				
	21	0	29.479	60.2	59.1	N. N. W.	Very light.	Clear, except very light flexuous cir.-haze rising in N.				

MAGNETICAL OBSERVATIONS.												June 19th and 20th.		
'DECLINATION.												Angular Value of one Scale Division = 0'.721.		
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
124.8	125.5	128.7	130.0	130.5	131.0	129.2	125.4	121.5	116.7	115.8	112.3	115.1		
124.9	125.5	128.0	130.3	129.8	131.0	129.4	124.7	120.9	116.2	115.1	114.3	115.8		
124.9	126.0	128.1	130.9	130.5	130.9	129.2	124.4	120.1	116.2	115.9	112.9	115.4		
125.0	126.0	128.2	130.7	131.0	130.8	129.0	123.7	119.6	115.9	114.7	112.9	115.1		
125.0	126.3	128.6	130.9	130.3	130.9	128.8	123.7	119.2	115.5	114.2	112.9	115.1		
124.6	126.9	129.0	130.9	130.0	131.0	128.6	124.0	118.4	115.6	114.1	113.7	116.0		
124.4	127.0	129.0	130.5	130.4	131.0	128.3	123.8	118.0	115.5	114.1	113.7	116.0		
124.4	127.3	129.1	130.0	130.6	130.9	127.4	123.8	117.8	115.6	113.9	114.0	116.6		
124.0	127.3	129.3	129.2	131.0	130.4	127.0	123.3	117.2	115.4	113.9	114.1	117.1		
124.0	127.8	129.3	130.0	131.1	130.3	126.7	123.7	117.0	115.1	113.8	114.0	117.7		
124.4	128.8	129.9	130.2	131.6	130.0	126.3	123.2	116.9	114.9	113.9	114.1	118.2		
125.2	123.6	130.0	130.9	131.0	129.7	125.7	122.2	116.8	115.3	113.1	115.0	119.0		
HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.		
495.7	495.4	498.4	499.6	498.0	497.5	491.0	485.6	489.5	493.4	499.9	515.7	510.7		
495.1	495.8	498.9	500.1	497.2	497.4	491.0	487.4	490.1	494.3	500.9	508.8	510.2		
494.6	496.3	498.9	500.6	497.9	496.9	489.6	487.3	490.2	495.9	502.7	504.9	505.0		
494.7	496.7	498.9	500.5	497.0	496.8	489.5	488.2	490.5	496.4	503.3	505.2	504.7		
494.6	496.8	498.9	500.8	497.0	496.4	488.9	489.3	491.5	498.2	502.7	507.8	507.9		
494.6	497.3	499.5	501.4	497.0	496.5	488.0	488.9	491.9	498.9	504.8	513.2	506.9		
494.8	497.6	499.2	501.0	498.4	496.1	487.0	489.6	492.1	499.6	504.2	511.9	507.2		
495.4	497.6	499.7	500.8	498.3	494.4	487.1	489.8	492.7	500.2	505.9	512.6	504.8		
496.0	497.9	499.8	502.5	497.7	494.3	486.9	490.0	493.4	500.5	503.6	514.1	506.0		
495.3	497.3	499.1	499.5	498.0	493.4	487.3	490.3	493.6	498.8	504.9	511.2	510.6		
495.0	497.4	499.4	498.2	498.1	492.8	486.8	490.1	493.9	498.5	506.4	510.2	509.8		
495.1	497.8	499.4	498.4	497.8	492.0	486.9	489.9	493.9	499.1	506.8	509.0	510.5		
70.4	70.0	69.5	69.5	69.0	68.5	68.5	69.0	69.2	69.6	70.2	70.5	71.0 <sup>a</sup>		
VERTICAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.		
63.0	63.3	64.6	62.5	64.0	64.9	65.3	64.1	63.4	63.4	62.9	63.6	64.3		
63.6	63.3	64.6	62.5	64.0	64.9	65.3	64.1	63.4	63.4	62.9	63.6	64.3		
63.6	63.3	64.0	63.1	64.0	64.9	65.3	64.1	63.4	63.4	62.9	63.6	63.6		
63.6	63.3	64.0	63.1	64.5	64.9	65.3	63.7	63.4	63.0	62.9	63.6	63.6		
63.6	63.3	63.4	63.2	64.9	64.9	64.9	63.7	63.4	63.0	63.4	63.6	64.0		
63.3	64.2	63.4	63.6	64.9	64.9	64.9	63.4	63.4	63.0	63.4	64.3	64.0		
63.3	64.2	62.6	63.6	64.9	65.3	64.5	63.4	63.4	63.0	63.4	64.3	64.0		
63.3	64.2	62.6	63.6	64.9	65.3	64.5	63.4	63.4	63.0	63.4	64.3	64.0		
63.3	64.6	62.1	63.6	64.9	65.3	64.5	63.3	63.4	63.0	63.4	64.3	64.0		
63.3	64.6	62.1	64.0	64.9	65.3	64.3	63.3	63.4	62.9	63.6	64.3	64.0		
63.3	64.6	62.1	64.0	64.9	65.3	64.2	63.3	63.4	62.9	63.6	64.3	64.0		
63.3	64.6	62.1	64.0	64.9	65.3	64.1	63.4	63.4	62.9	63.6	64.3	64.0		
70.6	70.4	69.4	71.0	69.5	68.8	68.5	68.6	68.7	69.1	69.5	70.0	70.0 <sup>a</sup>		

<sup>a</sup> At 20<sup>h</sup> 10<sup>m</sup> the Thermometer of H. F. 71<sup>o</sup>.2; of V. F. 70<sup>o</sup>.3.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°	—	Calm.	Light cir. round horizon; zenith clear.			
19	22	0	29.487	58.8	58.0	—	Very light.	Light cir. round horizon; zenith clear.			
	23	0	29.508	58.7	55.4	N. N. W.	Light.	Light cir.-strat. generally dispersed round horizon, otherwise clear.			
20	0	0	29.517	59.5	55.6	N. by W.	Light.	Light cir.-strat. round S. horizon, remainder clear.			
	1	0	29.535	61.0	55.6	N. by W.	Light.	Clear.			
	2	0	29.528	63.4	57.4	N. by W.	Light.	Clear.			
	3	0	29.529	66.0	58.4	N. by W.	Light.	Zenith clear; light detached cir.-cum. round N. W. and S. horizon; fair.			
	4	0	29.545	67.9	58.8	N. N. W.	Light.	Overcast, with detached cir.-cum. and cum.-strat.; clear intervals; fair.			
	5	0	29.545	69.7	61.5	N. N. W.	Light.	Overcast; well-defined cir.-cum. and cum.-strat.; clear intervals; fair.			
	6	0	29.548	69.9	60.1	N. N. W.	Light.	Overcast; dense masses of cir.-cum. interspersed with clear spaces.			
	7	0	29.546	71.1	61.7	N. N. W.	Light.	Overcast; dense masses of cum. and cir.-cum.			
	8	0	29.548	72.3	62.0	N. N. W.	Light.	Clouded; cum., cir.-cum. and haze.			
	9	0	29.544	71.2	60.6	N. N. W.	Light.				



July 24th and 25th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0' 721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		119.9	120.2	121.1	121.5	121.4	120.9	121.0	124.3	127.0	128.2	125.6
5	0		119.8	120.2	121.3	121.3	121.5	121.0	120.7	126.6	131.9	128.1	128.2
10	0		119.6	120.4	121.4	121.4	121.7	121.0	120.8	130.0	136.7	130.5	127.2
15	0		119.8	120.5	121.4	124.7	121.2	120.8	121.0	130.7	139.2	129.0	128.6
20	0		119.8	119.7	121.4	124.9	121.0	121.1	121.0	129.5	139.8	126.5	129.3
25	0		119.8	120.9	121.8	122.1	121.1	122.9	121.1	129.0	139.3	121.0	127.7
30	0		119.9	120.8	121.8	121.0	121.6	122.4	121.5	127.0	139.8	114.7	127.5
35	0		120.0	120.8	121.9	120.5	122.0	122.4	121.9	126.3	137.2	115.4	124.2
40	0		120.0	119.9	121.6	120.2	122.0	122.4	122.3	125.3	134.1	115.5	119.3
45	0		120.0	120.7	121.5	120.9	121.0	122.0	122.8	124.5	132.0	115.6	121.1
50	0		120.0	121.1	121.9	121.0	121.2	121.1	123.3	123.5	130.8	118.9	123.9
55	0		120.1	121.2	121.9	120.8	120.8	121.0	123.9	125.8	129.6	122.5	126.9
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		511.8	509.2	510.8	512.1	522.9	523.1	525.0	522.9	518.9	522.2	491.6
7	0		511.4	508.3	510.0	512.4	523.2	523.7	524.4	523.9	523.5	519.8	495.0
12	0		510.5	508.9	510.8	512.4	524.0	525.0	523.8	522.8	528.4	518.1	493.0
17	0		510.1	507.1	511.8	529.6	524.2	523.0	523.6	521.1	532.4	519.0	492.3
22	0		509.3	505.6	511.5	524.5	525.4	526.4	523.8	518.1	529.8	517.2	495.1
27	0		509.7	509.1	512.7	523.5	526.3	528.8	524.0	518.7	525.7	513.9	489.8
32	0		508.0	510.8	512.9	520.5	528.1	527.0	523.3	526.5	523.5	512.5	489.5
37	0		508.5	510.5	512.8	519.5	530.9	526.2	523.3	515.8	520.1	507.7	489.6
42	0		508.6	511.3	512.5	518.4	525.6	527.4	524.1	532.9	518.4	504.0	486.3
47	0		508.9	510.9	512.2	519.4	522.0	526.7	525.2	538.8	519.9	502.3	494.6
52	0		509.7	510.7	512.5	520.9	521.6	525.5	524.6	516.4	520.3	503.4	503.8
57	0		510.8	510.9	513.0	521.0	521.7	525.0	524.4	512.4	521.6	497.3	510.5
Thermometer			72.8	72.7	72.7	72.5	72.5	72.5	72.5	72.2	72.0	72.0	71.8
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		55.0	53.9	53.3	53.5	50.4	49.5	50.8	52.3	50.9	47.6	21.4
8	0		55.0	53.9	53.5	54.0	50.4	49.5	50.8	52.7	49.5	45.8	22.7
13	0		55.0	53.9	53.5	54.0	50.4	49.5	50.8	51.5	48.5	39.4	21.9
18	0		55.0	53.9	53.5	56.5	49.7	49.5	51.0	51.5	46.8	39.4	23.8
23	0		55.0	53.9	53.5	54.6	49.7	49.9	52.0	51.5	45.6	37.4	25.5
28	0		55.0	53.8	53.5	53.5	49.7	49.9	52.0	51.5	45.1	37.8	24.6
33	0		53.9	53.8	53.5	52.7	49.7	49.9	52.0	51.5	45.1	35.5	24.6
38	0		53.9	53.8	53.5	52.1	49.7	49.9	51.6	51.5	46.7	31.9	26.4
43	0		53.9	53.3	53.5	51.0	49.5	50.1	51.6	51.0	46.7	30.9	26.4
48	0		53.9	53.3	53.5	51.0	49.5	50.1	52.8	48.5	48.0	28.6	30.9
53	0		53.9	53.3	53.5	51.0	49.5	50.5	52.3	48.5	48.0	27.5	33.1
58	0		53.9	53.3	53.5	51.0	49.5	50.5	52.3	49.8	48.0	23.8	34.9
Thermometer			72.3	72.2	72.2	72.0	72.6	72.9	72.9	72.6	72.6	72.6	72.6
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°		lbs.						
24	10	0	29.502	70.0	63.6	E. by S.	Very light.	Overcast; cir.-cum., cir.-strat., and cum.-strat.; fair.					
	11	0	29.594	69.3	64.0	—	Calm.	Overcast; cir.-cum., cir.-strat., and cum.-strat.; fair.					
	12	0	29.598	67.0	62.6	—	Calm.	Clouded; cir.-cum., cir.-strat., and haze.					
	13	0	29.594	65.3	61.6	—	Calm.	Clouded; cir.-strat. and haze.					
	14	0	29.584	63.8	61.2	—	Calm.	Overcast; dense cir.-strat. and haze.					
	15	0	29.585	64.6	61.8	—	Calm.	Overcast; dense haze; commenced raining.					
	16	0	29.569	62.8	61.6	—	Calm.	Clouded; cir.-strat. and haze; a few drops of rain.					
	17	0	29.573	62.8	61.2	—	Calm.	Overcast with cir.-strat. and haze; commenced raining at 17 <sup>h</sup> 45 <sup>m</sup> .					
	18	0	29.573	62.3	61.2	—	Calm.	Overcast dense cir.-strat. and haze; raining heavily since 17 <sup>h</sup> 45 <sup>m</sup> .					
	19	0	29.571	62.1	61.1	—	Calm.	Densely overcast cir.-strat. and haze; raining mod. since midnight.					
	20	0	29.551	61.6	61.0	—	Calm.	Densely clouded; raining moderately since last observation.					
	21	0	29.525	61.8	61.2	—	Calm.	Densely clouded; raining moderately since last observation.					

MAGNETICAL OBSERVATIONS.												
July 24th and 25th.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
129.8	139.1	132.1	127.4	120.2	129.0	131.1	125.0	120.6	115.6	117.0	112.1	118.0
133.0	144.0	131.0	125.9	121.0	129.1	130.0	122.8	121.7	116.7	116.3	112.4	117.9
136.1	145.2	128.7	128.2	119.8	127.2	129.9	119.6	122.4	115.9	116.3	113.7	117.0
136.4	145.1	129.1	128.3	121.6	126.0	127.3	120.0	122.1	115.0	116.8	116.4	117.5
134.5	144.0	128.9	127.8	122.9	125.2	131.5	121.1	123.3	116.4	116.8	116.7	117.7
134.8	143.8	129.0	124.9	123.5	125.1	131.0	120.0	122.7	116.7	116.8	117.8	117.4
136.1	141.5	131.4	121.5	122.9	126.1	130.0	119.1	120.3	116.1	116.2	119.2	118.0
138.3	139.8	133.0	120.4	124.0	157.9	130.1	119.1	117.3	116.3	116.7	119.0	118.0
138.7	136.5	133.6	122.0	123.7	127.5	129.7	118.4	116.6	115.0	117.7	119.0	118.2
138.0	133.1	129.9	121.0	125.5	127.4	127.9	118.7	115.4	115.6	116.4	118.9	119.2
139.6	131.0	128.0	122.2	126.3	127.1	127.0	118.7	114.0	117.2	115.1	118.2	119.0
138.4	131.5	127.3	120.6	126.3	131.8	127.2	119.2	113.6	117.0	114.1	117.5	119.2
HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00027.												
513.5	501.1	510.2	508.6	509.0	523.5	509.3	505.5	485.7	492.6	504.0	504.9	522.7
511.3	507.4	508.3	505.5	509.5	525.8	513.1	505.6	489.7	495.5	502.5	507.0	525.6
512.0	516.1	506.5	509.2	507.0	525.6	514.3	499.5	491.2	496.5	502.2	508.7	520.7
511.3	515.6	505.1	509.4	508.5	526.2	509.2	492.3	490.2	494.3	502.9	514.7	519.6
508.5	514.7	506.0	510.4	509.0	522.7	504.7	494.6	490.6	495.6	502.5	515.5	518.5
508.9	513.9	506.4	508.2	508.0	518.4	501.6	494.9	491.0	494.8	502.5	521.1	519.0
507.6	508.2	504.7	503.4	508.6	517.1	498.1	498.9	491.4	497.2	501.8	523.6	519.0
509.7	511.7	503.4	511.4	509.0	518.0	497.1	497.5	489.7	500.5	503.5	522.8	519.8
508.2	513.4	501.7	510.2	507.6	519.1	500.1	496.3	489.8	500.6	505.7	524.1	516.5
503.3	514.2	499.5	506.8	509.5	513.0	497.4	492.7	493.3	500.7	506.9	523.4	518.1
499.4	512.4	504.1	509.6	514.4	504.6	495.3	490.5	493.3	502.3	507.4	523.2	518.1
497.4	511.0	505.5	508.9	516.9	506.4	497.8	488.7	490.1	503.4	507.2	524.3	520.5
71.5	71.5	71.0	71.0	71.0	70.0	70.0	70.0	70.5	71.0	71.4	71.5	71.7 <sup>a</sup>
VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
34.9	35.9	45.9	44.0	43.1	46.3	52.5	52.4	51.5	53.7	56.3	56.8	60.0
35.4	39.4	46.2	44.0	42.4	46.3	52.5	52.4	52.0	54.7	56.4	57.3	60.0
36.4	39.9	45.9	43.3	43.6	46.7	51.9	50.9	52.0	54.7	56.4	58.4	59.9
36.4	42.6	45.0	44.6	44.2	48.1	51.0	50.1	52.0	54.7	56.4	58.4	59.9
36.3	43.6	45.0	44.6	44.8	48.1	51.7	51.4	52.7	54.7	56.9	59.3	59.7
36.1	44.2	45.9	40.4	44.0	48.1	51.7	51.4	53.2	54.7	56.9	59.3	59.7
37.1	45.2	44.1	41.5	44.1	50.0	51.7	51.4	53.2	55.6	56.7	60.5	60.6
40.0	45.2	44.1	40.6	44.1	50.6	52.0	52.4	53.2	55.9	56.3	60.5	60.6
40.1	46.2	44.1	43.0	44.1	51.5	52.0	52.4	53.2	55.6	57.2	60.4	60.6
37.9	46.2	44.1	43.0	44.1	49.5	52.0	51.7	54.2	55.6	56.8	60.0	60.6
36.6	46.1	44.1	43.0	45.6	49.2	50.9	51.7	53.7	55.6	56.8	60.0	60.6
35.4	46.1	44.1	43.0	45.8	51.5	51.5	51.2	53.7	56.3	56.8	60.0	61.6
72.0	72.2	72.2	71.8	70.9	70.0	70.0	70.2	70.4	70.6	70.8	71.0	71.2 <sup>a</sup>
<sup>a</sup> At 25 <sup>d</sup> 10 <sup>h</sup> Thermometer of H. F. 72°·0; of V. F. 71°·4.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.	Barometer at 32°.	Thermometers.		Wind.		Weather.						
		Dry.	Wet.	Direction.	Force.							
D. H. M.	In.	°	°	—	Calm.	Densely clouded; raining moderately and heavily since last observation.						
24 22 0	29.541	61.7	60.9	—	Calm.	Overcast; cir.-cum. and haze; raining heavily and constant.						
23 0	29.554	60.6	59.8	—	Calm.	Clouds passing rapidly to W.; ceased raining.						
25 0 0	29.560	60.0	59.2	E.	Very light.	Dense cir.-cum. and haze passing rapidly from E.						
1 0	29.562	60.2	59.2	N. E. by E.	Very light.	Clouded; cir.-cum. and cum.-strat. passing rapidly.						
2 0	29.572	62.0	60.6	N. E. by E.	Light.	Clouded; cir.-cum. and cum.-strat. passing rapidly.						
3 0	29.562	63.6	61.6	N. E. by E.	Light.	Clouded with cir.-cum., cir.-strat., and haze; a few clear spaces.						
4 0	29.570	65.4	60.6	N. E. by E.	Light.	Clouded with cir.-cum., cir.-strat., and haze; a few clear spaces; clearing.						
5 0	29.578	66.9	62.3	E. N. E.	Light.	Clouded with cir.-cum., cir.-strat., and haze; a few clear spaces; clearing.						
6 0	29.596	68.7	61.6	E. N. E.	Light.	Clouded with cir.-cum., cir.-strat., and haze; a few clear spaces.						
7 0	29.600	71.6	64.0	E.	Light.	Clouded; cum.-strat., cir.-cum., and cir.-strat.; fair.						
8 0	29.604	68.7	62.1	E.	Light.	Clouded; cum.-strat., cir.-cum., and cir.-strat.; fair.						
9 0	29.601	69.2	62.8	—	Calm.	Clouded; cir.-cum. and cir.-strat.; fair.						

August 30th and 31st.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		116.6	117.0	117.8	122.4	124.0	117.4	118.8	125.0	128.2	118.8	116.5
5	0		117.0	117.7	117.2	129.4	124.4	118.0	118.0	124.8	127.3	117.3	115.8
10	0		117.2	117.1	117.8	138.5	125.0	119.3	117.5	125.0	123.3	116.7	115.0
15	0		117.1	116.8	117.6	155.8	126.1	120.3	118.2	125.6	122.0	116.6	114.8
20	0		117.1	116.4	117.3	169.3	127.9	121.6	118.0	126.2	125.3	116.5	115.0
25	0		117.2	116.9	117.8	168.4	125.0	122.6	118.8	126.3	130.8	116.3	115.6
30	0		118.0	117.0	117.9	156.0	122.0	121.5	112.0	127.8	130.8	116.9	116.8
35	0		118.0	117.1	118.3	142.7	118.9	121.1	120.9	130.0	128.4	116.3	117.1
40	0		118.1	117.6	118.2	131.6	115.7	121.0	122.4	129.1	125.3	116.2	116.4
45	0		116.8	118.0	117.6	128.4	113.9	120.3	121.7	127.8	123.0	116.8	116.7
50	0		116.9	117.9	118.2	126.4	115.7	120.2	123.7	125.5	121.7	117.3	117.4
55	0		116.8	117.4	119.7	122.0	117.7	119.8	125.3	127.0	119.0	116.6	117.7
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		536.8	521.8	520.9	508.8	518.3	524.2	524.9	521.8	530.3	521.0	515.6
7	0		531.9	521.2	519.3	504.4	518.9	524.3	524.0	522.0	530.0	520.9	516.5
12	0		531.6	524.4	521.9	503.1	518.3	523.6	523.4	521.0	524.6	519.4	520.7
17	0		533.0	520.6	521.2	506.7	514.9	523.0	524.1	519.0	516.2	518.5	517.2
22	0		533.7	520.6	519.7	523.6	516.7	521.5	523.8	519.0	515.0	517.3	519.4
27	0		534.5	519.7	521.5	533.1	517.6	520.9	523.1	517.8	521.8	514.7	517.8
32	0		539.4	523.5	526.2	539.4	520.0	520.1	520.0	519.0	526.5	513.1	517.3
37	0		539.4	527.8	526.6	539.7	521.0	519.7	519.1	521.9	527.4	513.9	518.7
42	0		533.9	529.9	526.7	534.4	521.2	519.2	521.7	526.7	526.3	515.5	520.0
47	0		529.4	529.7	523.5	531.3	521.1	520.0	521.0	533.6	525.8	514.8	522.3
52	0		526.6	527.6	520.8	529.9	521.9	522.3	522.0	534.6	523.9	515.9	522.6
57	0		521.7	525.2	516.9	523.0	524.7	523.9	522.0	533.0	521.5	415.0	527.2
Thermometer			65.8	66.2	66.4	66.4	66.6	66.7	66.6	66.4	66.4	66.4	66.4
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		68.8	67.1	68.1	65.2	57.1	61.7	61.7	57.0	41.7	54.0	56.8
8	0		67.7	67.1	68.1	65.6	57.9	61.7	61.7	57.0	41.7	54.7	56.8
13	0		68.2	67.1	68.4	65.6	57.7	60.1	60.9	57.0	41.8	54.7	56.8
18	0		68.0	66.5	68.4	66.1	57.7	60.1	60.9	57.0	43.3	54.7	9.3
23	0		68.0	66.5	68.2	63.8	59.4	60.1	60.9	57.9	45.4	54.7	59.3
28	0		69.4	66.5	68.2	59.7	59.4	60.1	60.9	56.9	47.8	54.5	58.6
33	0		70.5	67.8	68.2	55.9	61.3	60.3	59.5	56.1	48.5	54.5	57.8
38	0		70.2	67.8	68.2	56.7	61.3	60.9	60.0	54.6	48.5	55.9	57.8
43	0		70.2	68.9	67.6	56.7	61.3	60.9	60.0	50.1	49.2	55.9	59.3
48	0		78.5	68.8	66.4	57.1	61.7	60.9	58.7	48.7	49.2	56.8	59.8
53	0		78.0	68.8	65.6	57.1	61.7	60.9	57.8	45.8	49.8	56.8	59.8
58	0		77.1	68.8	65.6	57.1	61.7	60.9	57.6	43.8	51.9	56.8	62.6
Thermometer			65.3	65.6	65.6	66.8	67.6	67.6	67.4	67.0	66.8	66.8	66.7
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
30	10	0	29.561	66.3	64.1	E by S.	Very light.	Generally overcast; cir.-cum., cir.-strat., and haze; clear spaces.					
	11	0	29.559	64.8	63.6	—	Calm.	Densely clouded; cum.-strat. and cir.-cum.					
	12	0	29.553	64.6	63.0	—	Calm.	Densely clouded; raining moderately; commenced at 11 <sup>h</sup> 30 <sup>m</sup> . T.					
	13	0	29.560	63.3	62.4	—	Calm.	Densely overcast; cir.-cum. and cum.-strat. [M. T.]					
	14	0	29.572	62.8	61.8	—	Calm.	Densely overcast; cir.-cum. and cum.-strat.					
	15	0	29.564	63.2	61.2	—	Calm.	Densely overcast; cir.-cum. and cum.-strat.					
	16	0	29.562	61.8	60.7	—	Calm.	Densely clouded; cir.-cum. and haze.					
	17	0	29.566	61.8	61.0	S. E.	Very light.	Densely clouded; cir.-cum. and haze; commenced to rain.					
	18	0	29.566	62.2	61.4	—	Calm.	Overcast; dense cir.-cum., slight rain continuing since 17 hours.					
	19	0	29.566	61.2	60.8	—	Calm.	Clouded; cir.-cum. and haze; ceased raining at 19 <sup>h</sup> 30 <sup>m</sup> .					
	20	0	29.568	62.2	61.2	—	Calm.	Clouded with light cir.-strat. and haze; very light drizzling rain.					
	21	0	29.570	61.8	61.1	—	Calm.	Densely overcast; with cir.-strat. and haze.					

MAGNETICAL OBSERVATIONS.												
August 30th and 31st.												
DECLINATION.						Angular Value of one Scale Division = 0'.721.						
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
115.5	115.6	112.8	121.5	120.4	118.7	120.3	116.8	111.3	110.5	110.6	112.2	114.7
115.1	115.1	115.0	122.3	119.3	119.8	120.1	114.9	112.1	110.4	111.8	111.0	115.3
115.6	116.7	117.1	122.8	118.8	121.0	119.8	113.9	112.2	110.3	112.0	110.9	115.4
116.3	114.7	117.8	122.0	118.8	120.8	119.8	114.7	113.1	110.3	111.4	110.3	115.9
117.3	114.0	119.2	121.6	119.1	120.4	119.8	115.4	113.4	110.5	111.5	110.0	116.0
119.2	112.1	121.2	122.0	119.3	120.1	119.3	115.3	112.8	111.0	112.1	110.0	116.0
120.4	111.2	122.4	—	119.2	119.5	117.9	114.1	112.3	111.0	112.7	110.1	115.6
119.6	110.7	124.6	121.8	119.2	120.3	117.2	111.7	112.6	110.4	112.8	111.0	116.0
117.8	110.4	124.1	121.7	120.1	119.8	117.3	111.0	112.3	110.3	112.2	112.0	116.0
117.0	110.3	122.7	121.5	120.4	118.8	118.5	110.7	111.0	110.2	112.3	113.1	116.2
116.2	110.3	124.2	122.0	119.6	119.6	118.0	111.7	110.1	110.5	112.4	113.5	116.3
115.5	111.7	124.8	121.4	119.1	119.9	117.5	112.0	110.3	110.8	112.0	114.0	116.3
HORIZONTAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.						
524.6	514.8	519.9	521.1	509.4	513.6	514.3	506.1	512.5	521.3	525.0	520.6	534.5
520.8	511.2	523.7	521.5	507.6	510.5	516.4	507.3	514.8	522.5	528.6	519.7	533.7
527.0	509.5	527.0	521.3	508.4	510.7	516.4	507.3	514.9	522.5	529.4	519.1	530.5
528.7	508.7	527.4	518.1	508.4	513.3	515.2	508.8	514.4	522.2	528.0	519.4	532.2
517.5	512.7	527.5	514.4	508.3	514.2	512.3	507.3	514.2	523.8	530.0	520.3	531.0
516.6	511.3	527.7	514.5	511.1	515.9	510.0	507.8	514.6	524.8	532.1	523.0	532.8
519.2	509.5	528.0	515.0	510.7	516.2	508.7	507.8	515.6	525.5	533.8	527.0	536.3
519.1	510.1	529.7	514.3	510.4	516.4	507.5	510.3	516.5	525.3	524.9	528.8	533.9
520.2	513.8	528.6	511.5	511.6	515.0	509.7	511.2	519.5	525.6	532.0	533.2	532.3
521.7	513.7	523.9	511.4	513.3	513.2	510.2	509.8	522.0	525.9	530.4	533.7	532.9
519.7	515.6	524.8	511.8	512.4	513.2	509.4	508.3	519.7	526.0	526.6	536.3	531.7
518.6	517.9	526.0	510.5	513.0	514.0	509.3	512.6	520.2	526.1	524.6	536.1	531.9
66.4	66.4	66.5	66.5	66.0	66.2	66.8	67.2	67.6	68.2	68.6	69.0	69.4 <sup>a</sup>
VERTICAL FORCE.						Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.						
60.8	55.1	54.3	59.4	61.0	60.2	58.9	59.3	59.7	61.7	61.2	61.9	62.3
59.5	55.1	55.3	59.4	60.6	60.2	58.9	59.3	59.7	61.9	61.5	61.9	62.3
57.8	55.7	55.3	50.0	60.6	60.2	58.9	60.3	60.7	61.0	61.5	61.9	62.3
57.8	58.3	56.3	59.7	60.6	60.9	58.9	60.3	60.7	60.7	61.8	61.4	62.1
57.2	59.6	57.2	59.7	60.4	60.0	58.9	59.9	60.7	61.3	61.9	61.4	62.4
57.2	58.9	57.2	59.7	60.7	60.0	58.9	60.9	60.7	61.3	62.5	61.7	62.4
57.2	58.9	57.9	60.5	60.5	59.6	59.7	60.9	60.7	61.8	62.5	61.7	62.4
58.9	56.6	58.6	60.9	60.5	58.6	59.7	60.7	60.7	61.8	62.9	61.7	61.4
58.9	56.1	58.6	60.9	60.7	60.0	59.5	60.7	62.3	61.6	62.9	62.3	61.4
58.9	55.1	58.5	61.6	60.8	58.9	59.5	59.7	62.3	61.6	62.6	62.3	61.4
57.9	55.1	59.1	61.6	60.3	58.9	59.5	59.7	61.7	61.2	62.6	62.3	61.4
57.1	55.1	59.1	61.6	60.2	58.9	59.3	59.7	61.7	61.2	61.9	62.3	61.4
66.6	66.6	66.8	66.2	66.2	66.3	66.6	67.0	67.6	68.2	68.4	68.5	68.7 <sup>a</sup>

<sup>a</sup> At 31<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 69°·8; of V. F. 69°·4.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°	—	—	Densely clouded; cir.-cum. and haze. Densely clouded; cir.-cum. and haze. Clouded; strat. and cir.-cum. Overcast; cir. and cir.-strat., detached strat.; fair. Generally overcast; cir. and cir.-cum.; fair. Clouded; cir.-cum. and cir.-strat. dispersed; fair. Densely overcast; cir.-cum. and cum.-strat.; fair. Densely overcast; cir.-cum. and cum.-strat. and haze. Overcast with cir.-cum. and cum.-strat.; a few clear spaces. Generally overcast with light cir.-cum.; clear spaces; fair. Generally overcast with light detached cir.-cum.; clear spaces. Generally overcast with light detached cir.-cum.; clear spaces.				
30	22	0	29.576	61.8	61.2	—	Calm.					
	23	0	29.581	61.6	61.0	—	Calm.					
31	0	0	29.592	61.6	61.0	—	Calm.					
	1	0	29.616	63.4	62.2	—	Calm.					
	2	0	29.614	64.6	63.0	—	Calm.					
	3	0	29.618	65.8	63.0	—	Calm.					
	4	0	29.622	70.2	66.9	S. by E.	Very light.					
	5	0	29.629	69.2	66.8	S. by E.	Very light.					
	6	0	29.629	70.2	66.4	—	Calm.					
	7	0	29.627	71.6	67.4	S.	Very light.					
	8	0	29.627	71.8	67.2	S.	Very light.					
	9	0	29.614	73.8	68.9	S. by E.	Very light.					

September 18th and 19th.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	115·6	116·8	117·2	118·6	119·4	120·0	120·0	117·0	117·5	118·9	119·5
5	0	116·0	117·0	117·2	118·0	118·6	119·2	119·8	117·1	118·0	118·3	120·0
10	0	115·9	117·2	116·9	117·5	119·0	119·1	119·3	117·9	118·2	118·0	119·7
15	0	116·1	117·4	117·3	117·0	119·5	119·2	119·1	118·2	117·8	118·0	119·6
20	0	116·2	117·6	117·4	117·0	121·0	120·1	118·5	119·0	118·0	119·3	119·3
25	0	116·4	117·8	117·5	117·0	120·3	121·0	119·5	117·5	117·9	120·3	119·3
30	0	116·5	117·7	117·0	117·0	120·8	120·0	119·8	117·7	117·1	120·7	119·7
35	0	116·5	117·5	118·3	117·1	119·8	120·4	119·0	116·0	117·4	120·9	120·0
40	0	116·6	117·5	118·7	118·2	119·9	120·7	118·7	114·6	117·8	120·3	120·0
45	0	116·6	117·6	118·2	118·8	121·0	121·0	118·2	113·8	118·6	119·8	120·7
50	0	116·7	117·4	118·0	119·0	120·5	120·7	117·9	114·3	118·9	119·1	120·8
55	0	116·7	117·4	117·5	120·2	120·8	120·2	117·5	116·1	119·3	119·2	120·9
		One Scale Division = ·000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0	524·8	529·3	528·4	526·5	520·0	520·0	524·0	533·0	529·5	528·0	528·1
7	0	525·8	528·3	528·5	526·8	518·5	517·7	523·0	532·7	528·9	528·2	527·1
12	0	528·7	525·7	527·9	526·4	520·0	516·8	522·1	532·8	528·7	528·3	527·4
17	0	528·8	525·6	528·0	526·7	521·8	516·5	521·4	531·4	528·8	526·5	527·5
22	0	529·4	526·0	527·8	528·0	521·0	516·3	520·8	530·3	528·8	526·0	527·8
27	0	531·1	528·1	528·6	528·0	520·6	517·8	520·9	529·8	527·9	526·7	528·0
32	0	530·7	528·9	526·2	527·7	522·0	517·0	522·9	528·9	527·6	527·0	528·3
37	0	530·9	529·1	526·2	526·5	521·6	517·5	523·1	532·4	528·2	527·0	528·1
42	0	529·5	529·6	526·0	523·4	521·0	518·8	522·5	533·5	528·1	527·8	528·3
47	0	530·1	530·2	526·4	520·7	522·0	522·0	522·9	532·3	529·4	527·7	528·9
52	0	530·3	528·8	525·4	522·5	522·0	523·5	523·1	530·8	528·9	526·9	529·0
57	0	529·5	528·2	525·6	521·0	521·0	524·0	523·3	530·2	528·8	526·9	529·3
Thermometer		72·4	72·8	72·8	72·8	72·2	71·9	71·5	71·3	70·8	70·4	70·0
		One Scale Division = ·000062 part of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	51·3	49·8	49·5	46·9	47·5	48·0	46·5	48·5	44·8	49·2	51·3
8	0	51·3	49·8	49·5	46·9	47·5	48·0	46·5	48·5	44·8	50·6	50·2
13	0	51·3	49·8	49·3	47·6	47·5	48·0	46·1	48·5	44·9	50·1	50·2
18	0	51·4	49·8	49·5	47·6	47·5	48·0	46·2	48·2	45·8	50·1	50·2
23	0	51·4	49·7	49·5	47·6	47·5	48·2	46·2	48·2	45·8	50·1	50·2
28	0	50·7	50·1	49·0	47·6	47·9	48·7	46·2	48·2	49·0	50·1	50·2
33	0	50·7	50·1	47·3	47·6	47·8	48·7	48·0	47·9	49·0	50·1	50·0
38	0	50·7	50·2	47·3	47·6	47·8	47·9	48·1	47·4	49·8	50·1	50·0
43	0	50·3	50·2	46·9	46·3	47·8	47·7	48·1	46·1	49·8	50·8	50·0
48	0	50·3	49·7	46·9	46·7	48·1	47·7	48·1	45·5	49·2	51·1	50·0
53	0	50·3	49·5	46·9	46·7	48·1	47·7	48·5	44·8	49·2	51·1	50·0
58	0	50·3	49·5	46·9	46·7	48·1	46·5	48·5	44·6	49·2	51·1	50·0
Thermometer		71·4	71·5	71·8	72·5	72·5	72·1	72·5	72·9	72·1	71·3	70·5
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
18	10	0	29·631	71·1	62·4	S. S. W.	Very light.	Clear and unclouded.				
	11	0	29·619	71·2	64·4	—	Calm.	Unclouded; haze round horizon.				
	12	0	29·614	62·0	58·4	—	Calm.	Unclouded haze round horizon.				
	13	0	29·620	58·2	55·8	—	Calm.	Haze round horizon; otherwise clear.				
	14	0	29·620	56·2	54·0	—	Calm.	Unclouded; hazy.				
	15	0	29·617	58·2	55·0	—	Calm.	Clear and unclouded.				
	16	0	29·619	55·8	53·0	—	Calm.	Unclouded; hazy.				
	17	0	29·622	53·5	51·6	—	Calm.	Unclouded; haze round horizon.				
	18	0	29·618	51·9	50·4	—	Calm.	Unclouded; haze round horizon.				
	19	0	29·616	50·2	49·3	—	Calm.	Clear and unclouded.				
	20	0	29·619	48·2	47·2	—	Calm.	Clear and unclouded.				
	21	0	29·620	47·6	46·8	—	Calm.	Clear and unclouded.				

MAGNETICAL OBSERVATIONS.												
September 18th and 19th.												
DECLINATION.												
Angular Value of one Scale Division = 0'·721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
121·0	121·7	121·7	117·0	119·8	121·1	120·0	119·8	118·0	115·2	112·5	112·0	113·8
120·6	121·3	121·2	116·3	120·1	121·2	122·0	119·2	118·0	114·5	112·6	112·0	114·0
120·8	121·1	122·0	116·0	120·4	121·1	121·9	118·8	118·0	114·3	112·8	112·1	114·1
121·6	121·0	120·9	116·1	120·8	121·5	122·0	119·0	117·3	114·1	112·6	112·2	114·1
121·7	120·4	119·8	116·8	120·3	121·2	121·7	119·0	116·9	114·1	112·4	112·2	114·3
122·9	120·3	119·0	117·2	120·2	121·0	121·9	118·8	116·5	114·1	112·8	112·4	114·6
123·5	120·8	118·4	117·0	120·2	121·3	121·2	118·3	116·1	113·7	112·3	112·5	114·8
123·2	121·7	118·0	116·5	119·9	122·0	121·8	118·4	116·2	113·3	112·0	112·5	114·9
122·7	122·0	117·8	117·3	120·5	121·8	121·2	118·0	116·1	113·2	112·0	112·6	115·0
122·0	122·4	117·5	117·9	120·3	121·5	120·7	118·0	115·5	113·0	112·1	112·9	115·1
121·9	122·4	117·0	118·9	120·4	121·5	120·0	117·9	115·3	112·9	112·2	113·0	115·4
121·8	122·0	117·0	119·8	120·7	121·3	120·0	118·0	115·0	112·7	112·2	113·0	115·5

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah°. = ·00027.												
529·9	531·6	531·0	525·7	528·8	523·2	520·3	518·3	520·5	524·4	530·3	535·3	522·8
530·0	532·1	529·6	525·9	527·8	522·6	520·4	518·7	520·5	526·1	529·0	533·5	521·7
529·9	532·2	528·3	526·4	527·8	520·0	514·6	517·5	521·4	526·0	528·8	532·9	526·3
530·0	532·4	527·8	527·1	527·2	519·4	521·0	518·0	522·3	526·0	531·0	532·3	526·5
530·0	532·4	529·0	527·8	527·8	518·5	521·0	517·8	522·2	526·7	530·9	532·4	528·9
529·9	531·7	528·2	529·6	528·1	518·8	520·7	518·0	523·0	527·0	531·2	533·3	528·8
529·1	532·1	525·9	529·6	527·6	519·5	520·4	518·5	522·1	528·7	532·0	530·8	529·0
529·0	531·4	524·8	529·5	527·0	520·7	520·4	518·9	522·6	527·9	530·4	525·0	529·3
530·7	531·3	525·6	528·3	526·4	521·6	520·4	519·5	523·8	528·0	528·1	520·6	530·0
530·6	530·7	526·2	527·7	526·0	520·6	519·6	519·5	524·6	528·5	527·9	518·1	530·9
530·8	531·0	525·4	529·2	523·8	520·6	518·8	519·5	525·2	529·5	531·4	519·9	530·6
530·8	531·2	524·9	530·0	524·3	520·8	518·5	520·0	524·6	530·0	534·5	518·5	529·9
69·2	69·0	68·0	67·5	67·3	67·6	68·0	68·5	69·0	69·5	70·2	71·0	71·8 <sup>a</sup>

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah°. = ·00007.												
50·9	51·3	53·0	52·9	51·6	51·5	52·2	51·3	50·7	50·7	51·5	52·9	50·9
50·9	51·1	53·0	52·0	51·6	51·2	52·2	51·2	50·7	50·7	51·5	52·6	50·9
50·8	51·3	52·3	51·9	52·1	51·2	52·2	51·2	50·7	50·7	51·5	52·4	50·9
50·8	52·5	52·3	51·9	52·4	51·2	51·6	51·2	50·7	50·7	52·5	52·3	50·9
50·8	52·5	52·3	51·9	52·7	51·2	51·6	51·2	50·7	50·4	52·5	52·3	51·4
50·8	52·2	52·3	51·8	52·7	51·8	51·6	51·2	50·7	50·4	52·5	52·3	51·4
50·6	52·0	52·3	51·8	52·7	51·8	51·6	51·2	50·7	50·6	52·5	51·9	51·4
50·6	52·0	52·3	51·6	52·5	52·2	51·6	51·2	50·7	50·6	51·9	51·0	51·0
52·3	52·0	52·3	51·6	52·5	53·0	51·6	51·2	50·7	50·6	51·8	50·3	51·0
52·3	52·0	52·3	51·6	53·0	52·4	51·6	50·7	50·7	50·9	51·7	50·3	51·1
52·1	52·0	52·3	51·6	52·5	52·4	51·6	50·6	50·7	50·9	52·1	50·3	51·1
52·1	53·0	53·7	51·6	51·9	52·4	51·6	50·6	50·7	51·5	52·9	50·7	50·8
70·1	69·4	69·0	68·3	67·9	68·0	68·1	68·3	68·9	69·5	69·5	70·0	70·7 <sup>a</sup>

\* At 19<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 72°·8; of V. F. 71°·3.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.	Barometer at 32°.	Thermometers.		Wind.		Weather.						
		Dry.	Wet.	Direction.	Force.							
D. H. M.	In.	°	°	—	—	—						
18 22 0	29·625	47·0	46·2	—	Calm.	Clear and unclouded.						
23 0	29·628	46·6	45·8	—	Calm.	Unclouded; slight fog.						
19 0 0	29·650	45·2	44·6	N.	Very light.	Unclouded, but hazy; very dense round horizon.						
1 0	29·655	49·2	48·6	—	Calm.	Unclouded, but hazy; dense in horizon.						
2 0	29·646	57·8	54·8	—	Calm.	Unclouded, but hazy.						
3 0	29·637	61·4	58·0	—	Calm.	Unclouded, but hazy.						
4 0	29·620	65·6	61·2	S. S. W.	Light.	Unclouded; hazy.						
5 0	29·609	69·0	64·2	S. S. W.	Light.	Unclouded; hazy.						
6 0	29·588	71·6	65·8	S. S. W.	Light.	Unclouded; hazy. [horizon.						
7 0	29·569	75·1	68·4	S. by W.	Moderate.	Generally clear; light cir.-cum. rising in W. and N. W.; haze round						
8 0	29·546	77·2	69·2	S. by W.	Moderate.	Light cir.-cum. and haze round horizon, light haze in zenith; fair.						
9 0	29·544	76·7	70·4	S. by W.	Moderate.	Cir.-cum. in N. W. horizon, haze round horizon; light haze in zenith; fair.						

October 23rd and 24th.			MAGNETICAL OBSERVATIONS.									
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.				
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		116.0	116.8	122.2	122.7	122.9	118.2	118.8	120.2	117.9	109.3
5	0		116.2	116.8	124.8	120.8	123.5	118.9	118.1	119.9	115.0	109.7
10	0		116.8	116.1	127.1	119.6	121.6	119.0	118.2	119.7	114.3	110.0
15	0		116.7	116.2	128.7	119.3	121.4	118.3	117.9	119.6	115.0	110.0
20	0		116.2	117.0	125.6	119.1	122.0	118.1	119.5	119.0	115.5	111.1
25	0		116.2	116.9	125.7	120.3	121.5	118.5	120.0	118.1	116.0	112.7
30	0		116.0	116.4	124.0	119.7	121.6	118.8	119.0	117.1	113.2	113.0
35	0		116.0	116.4	125.6	119.8	120.0	119.0	119.2	117.2	111.0	114.1
40	0		115.5	116.3	128.0	119.7	118.2	118.5	119.9	117.8	110.9	115.0
45	0		115.2	117.0	126.6	119.3	118.0	118.0	120.2	118.2	112.1	115.2
50	0		115.8	117.8	126.0	120.0	118.0	118.4	120.3	117.8	113.1	115.7
55	0		116.0	121.4	123.7	121.9	118.0	118.8	120.4	118.0	111.3	115.8

		One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0		550.9	551.0	546.0	550.9	545.0	541.8	548.0	547.2	550.6	549.3
7	0		550.4	549.8	546.0	550.7	546.7	541.3	547.2	546.9	551.4	549.5
12	0		552.5	547.7	547.6	548.7	546.8	543.7	546.7	547.0	551.3	550.7
17	0		552.0	545.6	555.5	546.3	547.2	544.0	545.9	548.5	551.3	551.6
22	0		552.3	547.1	554.1	546.3	547.9	543.9	545.3	548.6	551.7	552.4
27	0		552.0	546.5	553.0	549.1	548.2	544.8	547.7	549.1	551.3	552.4
32	0		552.0	546.0	550.1	542.2	546.8	546.0	548.9	549.1	551.4	552.7
37	0		553.0	546.5	546.4	541.9	546.1	546.9	548.1	548.3	550.7	553.9
42	0		552.5	546.8	549.0	542.1	543.8	546.8	548.0	549.0	550.9	554.0
47	0		552.0	547.0	547.9	542.1	544.1	546.9	548.1	551.9	548.9	554.2
52	0		552.0	544.8	550.3	543.1	542.2	545.5	547.8	552.2	548.8	554.8
57	0		550.3	546.4	550.6	544.2	542.1	546.0	547.6	551.3	550.8	554.7

Thermometer		55.3	56.0	56.4	56.5	56.3	56.1	56.2	56.5	56.5	56.0	55.0
		°	°	°	°	°	°	°	°	°	°	°

		One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0		84.5	84.4	84.2	83.1	83.2	82.7	81.7	80.3	80.0	78.9
8	0		84.5	84.4	84.2	82.7	83.1	82.9	81.5	80.3	80.0	78.7
13	0		85.6	84.4	84.2	83.0	82.9	82.9	81.5	80.3	79.6	78.7
18	0		85.6	84.8	83.8	82.7	82.2	83.0	81.5	81.1	79.6	78.7
23	0		85.6	84.8	82.8	82.4	82.2	83.0	81.5	81.1	79.6	78.7
28	0		85.6	84.6	82.8	82.1	82.2	83.0	81.6	80.6	79.6	78.7
33	0		85.6	84.6	82.3	82.1	82.2	83.0	80.7	80.6	76.6	78.4
38	0		85.6	84.6	81.7	82.1	82.1	82.6	80.7	80.6	79.6	78.4
43	0		85.1	84.6	81.7	83.2	82.1	82.5	80.7	80.6	79.6	78.4
48	0		85.1	84.2	81.9	83.2	82.1	82.3	80.7	80.5	79.6	79.4
53	0		85.1	84.2	82.2	83.2	82.1	82.3	80.3	80.5	78.9	79.4
58	0		84.4	84.2	82.2	83.2	82.7	81.7	80.3	80.0	78.9	79.4

Thermometer		54.5	54.9	55.3	56.0	56.1	59.0	56.2	56.3	56.4	56.1	55.6
		°	°	°	°	°	°	°	°	°	°	°

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°						
23	10	0	29.896	51.8	48.4	—	Calm.	Light cir. in W. and N., remainder clear; 0.2 clouded.			
	11	0	29.905	48.2	45.4	—	Calm.	Clear.			
	12	0	29.895	44.0	42.6	—	Calm.	Clear.			
	13	0	29.897	45.2	43.2	—	Calm.	Clear.			
	14	0	29.887	47.4	45.5	—	Calm.	Clear.			
	15	0	29.871	46.8	45.3	—	Calm.	Clear.			
	16	0	29.867	44.2	43.2	—	Calm.	Clear.			
	17	0	29.864	41.4	41.0	—	Calm.	Clear.			
	18	0	29.870	38.2	37.8	—	Calm.	Clear; slight fog on the ground.			
	19	0	29.869	37.3	37.0	—	Calm.	Clear.			
	20	0	29.885	35.6	35.2	—	Calm.	Unclouded; hazy.			
	21	0	29.887	36.0	35.6	—	Calm.	Light cir. and cir.-strat. in N.N.W. and W.; hazy.			

MAGNETICAL OBSERVATIONS.												October 23th and 24th.	
DECLINATION.												Angular Value of one Scale Division = 0'.721.	
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	
Sc. Div. 119.5	Sc. Div. 117.7	Sc. Div. 118.1	Sc. Div. 118.8	Sc. Div. 120.2	Sc. Div. 118.5	Sc. Div. 115.8	Sc. Div. 115.0	Sc. Div. 111.8	Sc. Div. 110.2	Sc. Div. 112.1	Sc. Div. 114.6	Sc. Div. 117.0	
119.8	117.8	118.6	119.3	119.5	118.5	115.6	114.1	111.7	110.2	112.1	114.8	117.0	
119.7	117.5	118.6	120.0	119.0	118.0	115.5	113.8	111.2	110.3	112.5	115.0	117.2	
119.0	117.5	118.8	120.1	118.4	117.1	115.2	113.2	111.2	110.7	112.8	115.1	117.3	
118.8	117.8	118.8	120.4	117.7	117.3	115.2	113.1	111.1	110.7	113.0	115.2	117.4	
118.2	117.4	118.4	120.1	117.8	117.5	115.9	113.0	111.0	110.9	113.2	115.5	117.5	
118.2	117.4	118.5	120.1	118.0	117.4	115.8	113.0	110.7	111.0	113.5	115.8	117.6	
118.3	117.7	119.0	120.5	118.0	117.7	115.7	112.8	110.3	111.2	113.5	116.0	117.8	
118.4	117.7	119.0	121.0	118.1	117.5	115.5	112.3	110.2	111.2	113.9	116.1	117.8	
117.7	117.9	118.9	120.7	117.8	117.9	115.5	112.4	119.8	111.7	114.0	116.4	118.0	
117.2	118.0	118.6	120.4	118.4	117.2	115.2	112.0	110.0	111.8	114.2	116.7	118.0	
117.7	118.1	119.0	120.3	118.2	116.3	115.1	112.0	110.1	111.9	114.4	116.9	118.1	
HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fahr. = .00027.	
555.0	554.7	550.0	556.0	552.3	545.8	544.6	544.8	544.8	544.2	545.7	549.8	551.3	
555.4	555.0	555.8	556.0	549.8	545.6	544.4	545.9	545.3	544.2	546.5	549.4	551.8	
555.3	555.1	556.0	556.1	550.1	546.1	544.5	545.9	545.2	544.2	547.1	549.7	551.8	
555.2	555.6	556.2	557.0	550.0	544.5	544.8	544.5	543.9	543.9	547.9	550.5	552.4	
554.8	555.1	556.5	557.0	549.5	544.8	544.9	544.5	545.0	543.6	547.9	550.5	552.7	
554.8	555.5	556.6	556.0	549.2	544.8	545.1	544.9	545.7	543.9	548.0	550.9	553.0	
554.5	555.8	556.0	556.0	548.9	544.6	545.9	545.4	545.8	544.0	547.9	551.0	552.7	
555.0	555.9	556.0	555.0	548.1	544.0	545.6	545.5	545.8	544.5	548.6	550.8	552.2	
554.5	555.5	556.3	554.9	547.1	543.5	545.5	545.4	546.0	544.0	549.0	550.7	552.2	
555.0	555.8	556.1	554.0	547.1	543.8	544.7	545.3	545.0	544.9	549.0	551.0	552.1	
554.7	556.0	556.0	554.0	547.1	542.7	545.5	545.6	544.6	545.5	549.0	551.1	552.6	
554.9	557.0	557.0	553.5	546.2	543.4	544.3	544.3	544.1	545.6	548.5	551.6	552.5	
54.6	54.6	54.3	54.0	54.0	54.2	55.2	56.0	56.8	57.0	57.5	58.0	58.6 <sup>a</sup>	
VERTICAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.	
80.8	80.4	80.2	81.6	83.7	83.5	81.3	79.5	78.4	79.2	79.8	79.1	78.2	
80.8	80.4	80.2	81.6	83.4	83.0	81.3	79.5	78.4	79.9	79.8	79.1	78.2	
80.8	80.2	80.2	81.6	83.4	83.0	80.6	79.5	78.4	79.9	79.8	78.9	77.9	
80.8	80.2	80.5	81.6	83.4	83.0	80.7	79.3	78.4	79.8	79.8	79.1	77.9	
80.8	80.2	80.5	81.6	83.4	83.0	80.5	79.3	78.4	80.0	79.7	79.1	77.9	
80.8	80.1	80.6	81.6	83.4	83.0	80.5	78.9	78.7	80.0	79.4	78.9	78.1	
80.8	80.1	80.6	81.6	83.4	83.0	80.5	78.9	78.7	80.0	79.4	78.9	77.9	
80.5	80.1	80.6	82.7	83.4	81.9	80.1	78.9	79.2	80.0	79.2	78.4	77.9	
80.5	80.1	81.0	83.3	83.3	82.1	79.5	78.7	79.2	80.0	79.2	78.2	77.9	
80.8	80.1	81.4	83.3	83.5	82.1	79.5	78.4	79.2	80.2	79.4	78.2	78.2	
80.8	80.1	81.4	83.7	83.2	81.8	79.5	78.4	79.2	80.0	79.4	78.2	77.9	
80.8	80.2	81.6	83.7	83.5	81.8	79.5	78.4	79.2	79.8	79.1	78.2	77.9	
55.5	55.5	55.6	55.1	54.3	55.1	55.3	56.1	56.3	56.5	57.0	57.7	58.3 <sup>a</sup>	

<sup>a</sup> At 24<sup>d</sup> 10<sup>h</sup> the Thermometer of H. F. 59°·0; of V. F. 58°·3.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°						
23	22	0	29.892	35.6	35.4	—	Calm.	Light cir. in W.; remainder clear.			
	23	0	29.894	36.4	36.0	—	Calm.	Clear.			
24	0	0	29.895	36.4	36.0	—	Calm.	Hazy round horizon; light cir. in W.			
	1	0	29.899	38.0	37.8	—	Calm.	Light cir. and haze round horizon; zenith clear; fair.			
	2	0	29.901	44.0	43.7	—	Calm.	Light flexuous cir. and cir.-strat. scattered about; generally clear; fair.			
	3	0	29.900	47.2	46.0	E.	Very light.	Generally clear; light cir.-strat. generally diffused; fair.			
	4	0	29.891	49.8	47.6	E.	Very light.	A few light cir.-strat. dispersed round horizon, otherwise clear; fair.			
	5	0	29.886	51.4	48.6	E.	Very light.	A few light cir.-strat. dispersed round horizon, otherwise clear; fair.			
	6	0	29.876	53.9	50.2	E.	Very light.	A few light cir.-strat. dispersed round horizon, otherwise clear; fair.			
	7	0	29.853	55.6	51.6	E.	Very light.	Clear.			
	8	0	29.834	55.9	51.3	E.	Very light.	Clear.			
	9	0	29.830	55.5	50.8	E. by N.	Light.	Clear.			



November 29th and 30th.			MAGNETICAL OBSERVATIONS.									
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.				
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		114.5	117.1	117.7	118.0	119.0	118.8	119.0	118.0	118.0	117.0
5	0		115.0	117.2	117.7	118.0	118.9	119.2	118.6	118.0	117.8	117.0
10	0		115.6	117.1	117.6	118.2	119.4	119.6	118.4	118.2	117.5	117.0
15	0		115.2	117.0	117.5	118.2	119.8	119.3	118.4	118.1	117.6	117.4
20	0		115.3	117.0	117.7	118.4	119.6	119.2	118.2	118.1	117.5	117.6
25	0		115.3	117.0	118.1	118.2	119.5	119.0	118.2	118.2	117.2	117.4
30	0		116.2	117.0	117.7	118.2	119.4	118.9	118.2	118.3	117.1	117.8
35	0		116.1	117.4	117.8	118.1	119.1	118.7	118.5	118.5	117.2	117.6
40	0		116.2	117.4	117.9	118.2	119.2	118.3	118.4	118.3	117.3	117.2
45	0		116.3	117.7	117.9	118.5	119.0	118.3	118.2	118.3	117.2	117.4
50	0		116.5	117.9	117.9	118.8	119.0	119.1	118.0	118.3	117.3	117.6
55	0		116.5	117.8	117.8	118.6	118.8	119.1	118.0	118.1	117.3	117.8
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.				
M.	S.											
2	0		578.6	578.6	580.3	577.5	574.8	575.6	576.1	575.0	574.0	575.0
7	0		577.4	579.0	579.3	577.5	574.5	575.4	576.3	575.0	574.0	575.2
12	0		579.5	578.7	579.0	577.6	572.9	575.0	575.9	575.0	574.5	575.1
17	0		578.0	578.6	579.6	577.0	573.2	575.5	575.6	575.0	575.0	575.0
22	0		577.8	578.6	579.9	577.8	573.6	575.6	575.6	575.0	575.0	575.0
27	0		576.3	579.6	578.6	577.0	573.6	575.7	575.0	574.9	575.0	574.7
32	0		577.9	579.4	580.3	576.5	574.3	576.2	575.0	574.4	574.5	575.0
37	0		578.1	579.7	578.9	576.0	574.4	576.6	575.0	574.0	574.5	574.4
42	0		578.6	579.3	580.2	575.6	574.8	576.0	575.0	574.0	574.0	574.0
47	0		578.2	580.0	578.6	575.0	575.3	576.1	575.0	574.0	574.0	573.6
52	0		577.9	581.3	578.2	574.6	576.0	575.8	575.0	574.0	573.0	573.9
57	0		577.7	580.3	577.6	575.2	575.8	575.7	575.0	574.0	574.4	574.6
Thermometer			44.6	44.5	44.8	45.0	45.2	45.5	46.0	46.5	47.0	47.0
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.				
M.	S.											
3	0		102.3	99.6	97.3	95.9	95.8	95.8	94.0	92.3	91.3	91.5
8	0		102.3	99.2	96.5	95.9	95.8	96.1	94.0	91.8	91.3	91.5
13	0		101.5	98.9	96.5	95.7	95.8	95.9	94.0	91.8	91.3	91.5
18	0		101.5	98.9	96.5	95.7	95.8	95.1	93.4	91.8	91.3	91.5
23	0		101.5	98.3	96.5	95.9	95.8	95.1	93.0	91.8	91.3	91.5
28	0		101.5	98.5	96.5	95.9	95.9	94.9	93.0	91.8	91.3	91.5
33	0		101.5	98.2	95.9	95.9	95.9	94.9	92.7	91.8	91.3	91.5
38	0		101.5	97.9	95.9	95.9	96.1	94.9	92.7	91.9	91.6	91.5
43	0		101.5	98.1	95.9	96.0	96.8	94.7	92.7	91.9	91.6	91.5
48	0		100.5	97.7	95.8	96.0	96.0	94.7	92.7	91.9	90.5	91.5
53	0		99.6	97.3	95.8	96.0	95.8	94.0	92.3	91.9	90.5	91.5
58	0		99.6	97.3	95.8	95.8	95.8	94.0	92.3	91.3	91.0	91.5
Thermometer			44.2	44.6	45.6	46.1	46.6	46.6	47.4	47.7	48.2	48.4
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
29	10	0	29.756	32.2	30.8	S. E.	Very light.	Densely clouded; cum.-strat. and cir.-cum.				
	11	0	29.770	32.1	30.5	S. E.	Very light.	Densely clouded; cum.-strat., cir.-cum., and haze.				
	12	0	29.763	32.0	30.5	S. E.	Very light.	Densely overcast.				
	13	0	29.768	32.0	30.4	S. E.	Very light.	Densely overcast; cir.-cum. and haze.				
	14	0	29.758	32.5	31.0	S. E.	Very light.	Densely overcast; cir.-cum. and haze.				
	15	0	29.761	31.6	30.2	—	Calm.	Densely overcast; cir.-cum. and haze.				
	16	0	29.746	31.4	30.0	—	Calm.	Overcast; cir.-cum. and haze.				
	17	0	29.732	32.2	31.2	—	Calm.	Overcast; cir.-cum. and haze.				
	18	0	29.719	33.6	32.4	—	Calm.	Overcast; cir.-cum. and haze.				
	19	0	29.693	34.2	32.6	S. E. by S.	Light.	Overcast; cir.-cum. and haze.				
	20	0	29.689	33.4	32.4	S. S. E.	Very light.	Thickly overcast.				
	21	0	29.678	33.4	32.5	S. E. by S.	Very light.	Thickly overcast.				

MAGNETICAL OBSERVATIONS.												
November 29th and 30th.												
DECLINATION.												
Angular Value of one Scale Division = 0'·721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div. 117·8	Sc. Div. 118·0	Sc. Div. 118·2	Sc. Div. 117·9	Sc. Div. 118·5	Sc. Div. 119·8	Sc. Div. 119·7	Sc. Div. 120·0	Sc. Div. 118·1	Sc. Div. 115·3	Sc. Div. 114·2	Sc. Div. 114·4	Sc. Div. 114·2
117·6	118·2	118·0	118·3	118·8	120·4	120·1	120·0	118·0	115·0	114·2	114·8	114·2
117·6	117·4	118·3	118·4	119·0	120·3	120·6	119·8	117·4	115·0	114·2	114·8	114·1
117·5	117·8	118·0	118·2	119·0	119·8	120·5	119·8	117·1	115·0	114·0	115·0	114·2
118·0	117·6	117·9	118·3	119·1	120·0	120·2	119·4	116·7	115·0	114·0	115·1	114·1
118·0	117·6	117·9	118·7	119·2	119·7	120·0	119·6	116·3	114·9	113·8	115·2	114·3
117·5	117·6	118·2	118·6	119·0	119·8	119·9	120·3	116·7	114·9	114·0	114·3	114·2
117·6	118·3	118·2	118·4	119·1	119·8	120·1	119·1	116·8	114·5	114·3	114·7	114·2
117·6	118·3	118·0	118·4	119·5	119·5	120·4	119·0	116·1	114·5	114·8	114·5	114·8
117·5	118·9	118·3	118·2	119·7	119·6	120·4	118·7	115·7	114·4	114·5	114·5	114·9
117·4	118·0	118·2	118·1	120·1	119·5	120·1	118·2	115·6	114·3	114·5	114·2	115·0
117·8	118·2	118·7	118·3	120·0	119·6	120·0	119·2	115·6	114·2	114·5	114·2	115·1
HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = ·00027.												
574·6	575·0	574·7	572·9	573·2	571·3	568·4	565·0	561·5	560·8	562·1	565·1	571·0
574·6	574·5	574·7	574·8	573·7	570·7	568·2	564·5	562·3	560·7	562·2	565·5	571·2
574·6	575·0	575·2	575·8	573·0	571·6	568·1	564·7	562·0	560·6	562·6	565·0	571·5
574·4	574·9	574·7	573·8	573·4	571·4	568·3	565·2	560·6	561·1	563·5	564·8	573·3
573·7	575·4	574·2	574·4	573·3	570·5	567·4	564·6	560·0	560·7	563·8	564·7	572·2
574·0	575·0	574·8	575·3	572·9	570·7	567·0	562·9	558·8	561·0	563·3	569·4	572·8
573·8	573·8	573·8	575·1	572·9	570·4	566·4	564·0	559·2	561·1	562·8	568·3	572·3
574·0	574·4	573·7	575·1	572·2	570·4	565·8	563·7	560·5	561·8	562·7	568·8	572·7
573·7	573·9	574·0	574·5	572·4	570·6	565·6	563·6	560·3	561·3	563·3	569·1	572·8
574·6	574·4	573·9	574·9	571·9	569·8	565·7	562·4	560·9	562·0	563·8	569·4	573·4
574·4	573·9	573·2	574·0	571·8	569·1	565·2	560·8	559·6	562·2	563·8	570·0	573·9
575·0	573·6	574·8	573·9	571·9	568·6	564·3	562·0	560·2	561·9	564·5	570·3	574·0
47·5	47·4	48·5	48·6	48·2	47·5	47·5	47·7	48·2	48·2	48·4	48·6	49·0
VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = ·00007.												
91·2	90·0	89·8	88·1	90·0	90·1	93·3	92·8	92·4	92·7	93·5	94·3	94·2
91·2	90·0	89·5	88·5	89·7	90·1	93·3	92·8	92·4	92·7	93·5	94·3	93·9
91·1	89·7	89·3	88·4	89·7	91·9	93·3	92·8	92·7	92·9	93·7	94·1	93·9
91·1	89·7	89·1	88·2	90·2	91·9	93·3	93·4	92·7	92·9	93·7	94·1	93·9
90·4	89·7	89·0	88·2	90·1	91·9	93·3	93·4	92·7	92·9	94·0	94·1	93·9
90·4	90·0	88·7	88·2	90·1	92·8	93·3	93·4	92·7	92·9	94·0	94·1	93·9
90·4	90·1	88·6	88·5	90·1	92·8	93·3	92·9	92·4	92·9	94·0	94·0	93·9
90·4	90·1	87·4	88·5	90·1	93·3	93·1	92·9	92·4	93·2	94·0	94·0	93·9
90·5	90·1	87·6	88·5	90·1	93·3	93·1	92·5	92·7	93·2	94·0	94·0	93·9
90·6	90·0	87·1	89·3	90·1	93·3	93·3	92·5	92·7	93·5	94·0	94·2	93·7
90·5	90·0	87·1	89·3	90·1	93·3	93·3	92·5	92·7	93·5	94·0	94·2	93·7
90·0	90·0	88·1	89·3	90·1	93·3	92·8	92·5	92·7	93·5	94·0	94·2	93·7
48·6	48·4	49·4	49·8	49·4	48·8	48·1	48·1	48·5	48·6	48·5	48·6	49·1

\* At 30<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 49°·0; of V. F. 49°·2.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
29	22	0	29·672	33·4	32·4	S.	Very light.	Thickly overcast.				
23	0		29·669	33·6	32·7	S.	Very light.	Overcast with dense haze.				
30	0	0	29·671	33·6	32·8	S.	Very light.	Overcast with dense haze.				
1	0		29·679	34·0	33·2	S.	Very light.	Densely overcast; light cir-strat. and haze.				
2	0		29·683	34·6	34·2	—	Calm.	Slight spitting rain.				
3	0		29·677	35·4	35·2	—	Calm.	Densely overcast, spitting rain.				
4	0		29·679	36·8	36·4	—	Calm.	Densely overcast, a few drops of rain.				
5	0		29·671	37·7	37·0	—	Calm.	Overcast, drizzling rain.				
6	0		29·671	37·6	36·8	S.	Very light.	Overcast dense haze, thick mist.				
7	0		29·641	37·3	36·4	S.	Very light.	Overcast with dense cir. and haze.				
8	0		29·626	37·5	36·9	S.	Very light.	Overcast with dense cir. and haze.				
9	0		29·613	37·0	36·4	—	Calm.	Overcast with dense haze; Scotch mist.				

December 18th and 19th.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	116·8	116·9	117·1	118·0	119·5	119·7	119·0	118·6	119·8	117·4	116·0
5	0	116·9	117·1	117·9	118·0	119·0	119·8	119·0	119·2	119·4	117·0	116·4
10	0	117·0	117·2	118·0	118·1	118·9	119·8	119·0	119·8	119·3	117·0	116·5
15	0	117·0	117·0	118·3	118·4	118·8	120·0	119·0	120·0	119·5	117·2	117·0
20	0	117·0	117·9	118·5	118·8	119·0	119·5	119·0	120·8	119·2	117·0	118·0
25	0	117·6	117·4	118·0	118·2	118·8	119·6	119·0	121·4	119·0	117·0	118·8
30	0	117·3	117·1	117·2	119·0	118·9	119·5	119·0	121·4	118·8	117·2	119·0
35	0	116·8	118·0	117·0	118·3	119·1	119·0	119·0	121·2	118·4	115·4	120·4
40	0	116·8	117·6	117·2	118·6	119·7	119·0	119·0	120·4	118·4	111·4	121·9
45	0	116·5	117·0	117·0	118·2	119·0	119·0	119·0	120·0	118·0	111·5	122·3
50	0	116·8	117·0	118·0	118·2	119·9	119·0	118·6	120·0	118·0	112·3	121·8
55	0	116·2	117·0	118·0	119·1	120·0	118·8	118·2	121·0	117·6	114·3	120·8
		One Scale Division = ·000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0	594·7	594·0	586·5	589·0	593·4	587·6	587·5	584·0	585·8	583·6	590·2
7	0	594·9	594·0	584·4	588·8	592·9	587·7	587·3	583·6	586·0	585·8	591·2
12	0	595·5	594·0	584·1	589·0	592·0	587·9	587·0	584·0	585·0	585·0	589·4
17	0	595·9	593·6	583·5	589·5	591·5	587·8	585·5	585·4	585·0	584·7	589·4
22	0	595·7	593·6	584·0	590·2	590·4	537·9	586·0	584·4	585·4	584·7	589·2
27	0	596·8	593·0	585·1	589·7	589·3	587·4	585·2	583·8	586·0	585·1	589·9
32	0	597·8	593·1	586·3	590·4	588·2	587·0	585·0	584·3	586·0	585·6	589·8
37	0	596·3	592·8	586·8	591·0	587·1	587·0	585·3	583·0	586·6	587·4	587·9
42	0	595·5	591·5	587·0	592·0	587·9	586·9	585·4	582·8	587·0	589·8	587·2
47	0	595·5	590·5	587·0	592·7	588·3	586·9	584·0	583·8	584·8	590·9	586·3
52	0	595·5	589·7	587·5	594·0	589·2	587·2	583·8	584·7	583·6	590·6	586·2
57	0	595·1	588·1	588·4	592·9	588·7	587·3	584·0	584·6	583·0	590·1	583·1
Thermometer		37·0	37·5	39·0	39·2	40·0	40·7	41·5	40·8	41·0	40·8	40·8
		One Scale Division = ·000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	110·4	108·2	105·0	104·2	104·1	102·4	102·4	100·6	100·1	100·5	98·3
8	0	110·6	108·2	105·0	104·2	103·8	102·4	101·9	100·6	100·1	100·9	98·3
13	0	110·6	107·0	105·0	104·8	103·8	102·4	101·9	100·5	100·2	100·5	98·2
18	0	109·1	106·4	105·0	104·8	102·9	102·4	101·9	99·7	100·2	100·5	98·2
23	0	109·1	106·4	105·0	104·8	102·9	102·2	101·9	99·7	100·2	100·9	97·5
28	0	109·1	106·0	105·0	104·8	102·9	102·2	102·0	99·7	100·2	100·9	97·2
33	0	109·1	106·0	105·0	104·8	102·7	102·2	101·9	99·2	100·7	100·9	96·0
38	0	109·1	106·0	105·0	105·0	102·7	102·2	102·2	99·2	100·7	101·2	94·8
43	0	109·1	106·0	105·0	105·0	103·1	102·2	102·1	99·2	100·7	100·3	94·1
48	0	108·8	106·0	104·2	105·0	103·1	102·0	102·1	99·2	100·7	99·9	94·1
53	0	108·2	106·0	104·2	104·7	102·9	102·2	102·1	100·1	100·5	98·9	93·4
58	0	108·2	106·0	104·2	104·3	102·4	102·4	102·2	100·1	100·5	98·9	93·2
Thermometer		36·9	38·7	39·6	39·8	40·4	41·4	41·6	41·6	41·8	41·9	41·6

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.
				Dry.	Wet.	Direction.	Force.	
D.	H.	M.	In.	°	°	W. S. W.	Very light.	Densely overcast; cum.-strat., cir.-cum., and haze.
18	10	0	29·510	24·6	23·3	—	Calm.	Clouded with cir.-cum. and haze.
	11	0	29·503	24·0	23·0	—	Calm.	Overcast with dense haze.
	12	0	29·510	23·6	21·4	—	Calm.	Overcast with dense haze.
	13	0	29·535	23·2	21·0	—	Calm.	Overcast with dense haze.
	14	0	29·540	23·2	21·0	—	Calm.	Overcast; cir.-cum. and haze.
	15	0	29·540	22·8	21·0	—	Calm.	Overcast; cir.-cum. and haze.
	16	0	29·543	22·2	20·4	—	Calm.	Cir.-cum. and cir.-strat. dispersed round the horizon.
	17	0	29·547	20·4	19·4	—	Calm.	Overcast with mottled cir.-cum. in uniformity.
	18	0	29·545	19·0	18·4	—	Calm.	Mottled cir.-cum. to westward, near horizon; remainder unclouded.
	19	0	29·538	17·0	16·4	—	Calm.	Clouded with cir.-cum. and haze.
	20	0	29·556	18·7	17·9	—	Calm.	Overcast with cir.-strat. and haze.
	21	0	29·556	19·2	18·7	—	Calm.	Overcast with cir.-strat. and haze.





**TORONTO, 1844.**

---

**METEOROLOGICAL OBSERVATIONS.**

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	2.886	2.904	2.952	2.980	2.980	2.955	2.937	2.916	2.900	2.914	2.899	2.890
	2	2.758	2.756	2.748	2.734	2.704	2.670	2.612	2.542	2.538	2.525	2.493	2.457
	3	2.191	2.185	2.173	2.193	2.185	2.175	2.161	2.149	2.151	2.157	2.166	2.179
	4	2.229	2.283	2.327	2.366	2.399	2.409	2.421	2.441	2.469	2.507	2.549	2.578
	5	2.834	2.855	2.892	2.910	2.924	2.935	2.906	2.902	2.902	2.907	2.901	2.913
	6	2.873	2.872	2.892	2.898	2.892	2.872	2.834	2.807	2.793	2.779	2.759	2.743
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	2.806	2.840	2.852	2.864	2.868	2.858	2.841	2.825	2.844	2.844	2.846	2.847
	9	2.675	2.637	2.631	2.588	2.561	2.509	2.457	2.396	2.373	2.339	2.304	2.280
	10	2.440	2.474	2.544	2.558	2.568	2.578	2.592	2.631	2.663	2.706	2.731	2.769
	11	3.091	3.110	3.120	3.134	3.120	3.098	3.092	3.063	3.058	3.039	3.027	2.987
	12	2.605	2.564	2.564	2.508	2.472	2.446	2.371	2.336	2.297	2.269	2.245	2.237
	13	1.682	1.726	1.773	1.846	1.974	2.082	2.189	2.260	2.355	2.435	2.485	2.526
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	2.751	2.759	2.787	2.780	2.757	2.721	2.687	2.670	2.652	2.620	2.612	2.600
	16	2.269	2.247	2.257	2.243	2.227	2.194	2.147	2.124	2.092	2.087	2.067	2.066
	17	1.921	1.911	1.907	1.883	1.869	1.848	1.825	1.779	1.793	1.813	1.839	1.861
	18	2.186	2.232	2.288	2.322	2.360	2.382	2.396	2.419	2.447	2.489	2.521	2.573
	19	2.884	2.896	2.911	2.911	2.941	2.931	2.915	2.903	2.895	2.902	2.914	2.926
	20	3.101	3.122	3.138	3.172	3.188	3.173	3.151	3.125	3.107	3.106	3.092	3.082
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	2.815	2.826	2.837	2.849	2.857	2.856	2.825	2.811	2.774	2.747	2.717	2.696
	23	2.012	2.011	2.005	2.008	2.007	2.015	2.030	2.059	2.082	2.134	2.161	2.176
	24	2.314	2.326	2.334	2.351	2.371	2.381	2.391	2.395	2.433	2.458	2.480	2.522
	25	2.628	2.637	2.653	2.662	2.660	2.650	2.634	2.615	2.614	2.622	2.636	2.656
	26	2.677	2.697	2.729	2.745	2.755	2.765	2.752	2.742	2.742	2.749	2.763	2.785
	27	2.922	2.935	2.949	2.963	2.962	2.959	2.937	2.921	2.900	2.891	2.884	2.880
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	3.054	3.054	3.072	3.085	3.079	3.066	3.027	2.996	2.964	2.929	2.904	2.862
	30	2.483	2.469	2.463	2.453	2.444	2.437	2.422	2.416	2.414	2.441	2.474	2.524
	31	2.963	2.985	3.021	3.036	3.056	3.055	3.031	3.015	3.013	3.012	3.007	3.019
Hourly Means	2.5944	2.6042	2.6229	2.6312	2.6363	2.6304	2.6142	2.6021	2.6024	2.6082	2.6102	2.6161	
FEBRUARY.	1	2.915	2.906	2.926	2.898	2.880	2.845	2.815	2.766	2.707	2.697	2.677	2.646
	2	2.722	2.748	2.780	2.808	2.836	2.841	2.857	2.854	2.851	2.862	2.883	2.897
	3	3.045	3.059	3.083	3.100	3.079	3.082	3.054	3.039	3.021	3.012	3.006	3.004
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	2.378	2.384	2.398	2.399	2.409	2.422	2.407	2.409	2.406	2.405	2.418	2.422
	6	2.406	2.425	2.425	2.411	2.419	2.427	2.412	2.414	2.414	2.433	2.453	2.456
	7	2.495	2.519	2.543	2.543	2.541	2.528	2.512	2.490	2.480	2.462	2.446	2.445
	8	2.442	2.467	2.486	2.500	2.504	2.504	2.492	2.481	2.477	2.480	2.482	2.504
	9	2.604	2.630	2.657	2.683	2.701	2.706	2.694	2.696	2.684	2.686	2.691	2.695
	10	2.673	2.679	2.703	2.705	2.699	2.698	2.686	2.678	2.677	2.687	2.708	2.732
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	2.795	2.817	2.843	2.855	2.884	2.881	2.876	2.869	2.857	2.855	2.853	2.834
	13	2.560	2.548	2.532	2.498	2.478	2.467	2.443	2.441	2.447	2.480	2.512	2.548
	14	2.879	2.908	2.929	2.946	2.966	2.979	2.963	2.955	2.925	2.928	2.924	2.920
	15	2.693	2.687	2.657	2.609	2.597	2.576	2.539	2.493	2.460	2.451	2.434	2.422
	16	2.450	2.467	2.487	2.495	2.503	2.501	2.466	2.448	2.438	2.428	2.426	2.427
	17	2.544	2.558	2.589	2.617	2.635	2.649	2.645	2.632	2.636	2.650	2.692	2.720
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	2.751	2.775	2.790	2.796	2.808	2.799	2.782	2.756	2.721	2.700	2.695	2.688
	20	2.551	2.555	2.568	2.561	2.542	2.533	2.504	2.485	2.468	2.462	2.466	2.483
	21	2.541	2.571	2.585	2.593	2.611	2.592	2.578	2.570	2.568	2.562	2.540	2.537
	22	2.519	2.535	2.561	2.575	2.582	2.567	2.564	2.550	2.532	2.521	2.519	2.524
	23	2.369	2.360	2.365	2.346	2.310	2.284	2.280	2.262	2.268	2.293	2.337	2.371
	24	2.745	2.784	2.810	2.834	2.838	2.865	2.864	2.841	2.841	2.845	2.854	2.848
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	2.854	2.854	2.844	2.851	2.827	2.808	2.794	2.751	2.722	2.711	2.693	2.663
	27	2.661	2.696	2.749	2.786	2.801	2.821	2.839	2.857	2.865	2.895	2.899	2.920
	28	3.051	3.065	3.077	3.075	3.072	3.074	3.055	3.035	3.031	3.038	3.008	2.982
	29	2.702	2.692	2.680	2.680	2.678	2.659	2.659	2.634	2.623	2.625	2.611	2.625
Hourly Means	2.6538	2.6676	2.6827	2.6866	2.6880	2.6843	2.6712	2.6562	2.6448	2.6467	2.6491	2.6525	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English Inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.898	2.916	2.933	2.913	2.888	2.878	2.866	2.862	2.856	2.844	2.804	2.776	2.8978
2.483	2.440	2.430	2.405	2.377	2.353	2.327	2.311	2.294	2.276	2.240	2.199	2.4863
2.179	2.181	2.175	2.169	2.162	2.172	2.166	2.158	2.166	2.170	2.184	2.186	2.1722
2.595	2.626	2.656	2.686	2.711	2.713	2.725	2.733	2.761	2.779	2.796	2.796	2.5648
2.921	2.925	2.912	2.897	2.897	2.893	2.885	2.886	2.898	2.892	2.879	2.873	2.8975
2.739	2.725	2.700	2.660	2.633	2.601	—	—	—	—	—	—	—
—	—	—	—	—	—	2.622	2.671	2.703	2.745	2.768	2.778	2.7650
2.852	2.856	2.845	2.841	2.838	2.822	2.820	2.805	2.799	2.787	2.759	2.717	2.8282
2.274	2.267	2.243	2.255	2.270	2.288	2.281	2.301	2.340	2.372	2.388	2.396	2.3927
2.809	2.840	2.893	2.901	2.911	2.929	2.948	2.980	3.025	3.055	3.052	3.057	2.7772
2.989	2.965	2.944	2.922	2.870	2.826	2.792	2.759	2.729	2.708	2.683	2.633	2.9483
2.207	2.162	2.095	2.025	1.914	1.816	1.709	1.701	1.649	1.614	1.622	1.642	2.1279
2.576	2.604	2.654	2.680	2.684	2.714	—	—	—	—	—	—	—
—	—	—	—	—	—	2.795	2.793	2.793	2.789	2.783	2.751	2.4145
2.582	2.552	2.528	2.510	2.500	2.480	2.435	2.407	2.390	2.356	2.306	2.296	2.5724
2.045	2.027	2.029	2.030	2.038	2.038	2.026	2.013	2.017	2.005	1.977	1.957	2.0926
1.904	1.934	1.950	1.968	1.983	1.996	2.039	2.055	2.102	2.138	2.160	2.178	1.9440
2.628	2.654	2.693	2.722	2.742	2.771	2.805	2.841	2.861	2.863	2.882	2.861	2.5807
2.936	2.952	2.980	2.994	3.009	3.011	3.025	3.042	3.052	3.070	3.068	3.073	2.9642
3.076	3.072	3.045	3.019	3.011	2.991	—	—	—	—	—	—	—
—	—	—	—	—	—	2.748	2.770	2.802	2.804	2.804	2.816	3.0215
2.666	2.614	2.549	2.501	2.439	2.371	2.302	2.209	2.163	2.120	2.071	2.038	2.5689
2.177	2.195	2.211	2.225	2.241	2.268	2.280	2.296	2.319	2.321	2.326	2.314	2.1614
2.552	2.577	2.581	2.596	2.612	2.611	2.614	2.615	2.637	2.638	2.635	2.636	2.5050
2.670	2.671	2.664	2.659	2.655	2.642	2.640	2.619	2.619	2.639	2.663	2.655	2.6443
2.804	2.820	2.835	2.855	2.861	2.874	2.861	2.871	2.889	2.909	2.916	2.924	2.8050
2.880	2.878	2.862	2.857	2.840	2.828	—	—	—	—	—	—	—
—	—	—	—	—	—	—	3.003	3.020	3.027	3.033	3.045	2.9294
2.842	2.810	2.775	2.761	2.718	2.682	2.652	2.630	2.600	2.572	2.530	2.499	2.8401
2.587	2.606	2.656	2.711	2.755	2.778	2.824	2.848	2.901	2.920	2.927	2.943	2.6207
3.020	3.034	3.034	3.024	3.014	3.008	3.015	2.998	2.987	2.977	2.967	2.935	3.0094
2.6256	2.6260	2.6249	2.6217	2.6138	2.6079	2.5847	2.5991	2.6064	2.6070	2.6008	2.5916	2.6118
2.604	2.568	2.511	2.551	2.550	2.590	2.610	2.616	2.632	2.654	2.670	2.692	2.7052
2.936	2.943	2.948	2.966	2.975	3.001	3.005	3.013	3.029	3.031	3.033	3.033	2.9105
2.996	2.997	2.990	2.988	2.981	2.973	—	—	—	—	—	—	—
—	—	—	—	—	—	2.407	2.405	2.393	2.382	2.368	2.375	2.8679
2.452	2.466	2.474	2.474	2.475	2.475	2.474	2.464	2.462	2.466	2.449	2.412	2.4333
2.468	2.472	2.484	2.498	2.493	2.505	2.511	2.504	2.505	2.520	2.516	2.506	2.4615
2.449	2.443	2.435	2.428	2.419	2.422	2.417	2.417	2.417	2.419	2.425	2.429	2.4635
2.508	2.526	2.533	2.525	2.521	2.521	2.517	2.527	2.538	2.551	2.564	2.592	2.5101
2.707	2.719	2.720	2.718	2.711	2.711	2.707	2.692	2.684	2.683	2.686	2.673	2.6891
2.761	2.788	2.791	2.797	2.812	2.814	—	—	—	—	—	—	—
—	—	—	—	—	—	2.709	2.717	2.738	2.740	2.753	2.759	2.7293
2.841	2.835	2.817	2.815	2.792	2.778	2.758	2.744	2.704	2.670	2.636	2.591	2.8000
2.576	2.610	2.642	2.646	2.674	2.706	2.733	2.760	2.777	2.803	2.823	2.851	2.6065
2.916	2.912	2.919	2.905	2.874	2.865	2.846	2.832	2.801	2.779	2.755	2.719	2.8894
2.415	2.420	2.422	2.426	2.420	2.417	2.417	2.438	2.440	2.444	2.448	2.448	2.4905
2.435	2.451	2.474	2.472	2.479	2.481	2.488	2.487	2.490	2.496	2.502	2.524	2.4715
2.756	2.799	2.817	2.832	2.845	2.843	—	—	—	—	—	—	—
—	—	—	—	—	—	2.772	2.762	2.756	2.750	2.744	2.746	2.7079
2.676	2.684	2.682	2.659	2.641	2.622	2.607	2.593	2.577	2.564	2.558	2.552	2.6865
2.495	2.509	2.517	2.510	2.504	2.502	2.502	2.506	2.510	2.511	2.527	2.527	2.5124
2.535	2.535	2.545	2.539	2.542	2.523	2.506	2.502	2.498	2.479	2.493	2.503	2.5437
2.550	2.565	2.566	2.561	2.557	2.559	2.528	2.501	2.475	2.459	2.425	2.391	2.5286
2.403	2.444	2.486	2.524	2.554	2.564	2.580	2.596	2.643	2.665	2.682	2.705	2.4463
2.868	2.862	2.864	2.879	2.880	2.885	—	—	—	—	—	—	—
—	—	—	—	—	—	2.872	2.873	2.864	2.858	2.853	2.847	2.8489
2.650	2.648	2.633	2.622	2.600	2.586	2.580	2.570	2.577	2.583	2.601	2.635	2.6940
2.958	2.972	2.976	2.997	3.021	3.021	3.029	3.030	3.031	3.023	3.049	3.051	2.9145
2.978	2.953	2.925	2.888	2.874	2.826	2.808	2.776	2.764	2.746	2.734	2.702	2.9390
2.641	2.655	2.670	2.670	2.676	2.674	2.676	2.678	2.681	2.663	2.657	2.659	2.6612
2.6630	2.6710	2.6736	2.6756	2.6748	2.6746	2.6424	2.6401	2.6394	2.6376	2.6380	2.6369	2.6604



BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	2.637	2.623	2.611	2.583	2.555	2.533	2.492	2.449	2.407	2.359	2.367	2.333
	2	2.419	2.443	2.438	2.434	2.433	2.417	2.407	2.410	2.404	2.411	2.423	2.437
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	2.757	2.829	2.872	2.906	2.936	2.955	2.969	2.958	2.979	2.938	2.995	3.001
	5	3.123	3.126	3.127	3.127	3.102	3.099	3.068	3.050	3.034	3.031	3.018	3.012
	6	3.134	3.138	3.138	3.146	3.150	3.160	3.146	3.125	3.078	3.066	3.056	3.042
	7	2.986	2.990	3.012	3.005	3.011	2.996	2.986	2.959	2.927	2.913	2.908	2.894
	8	2.680	2.674	2.654	2.618	2.589	2.551	2.476	2.454	2.413	2.378	2.364	2.365
	9	2.600	2.629	2.666	2.688	2.688	2.684	2.674	2.656	2.660	2.653	2.659	2.659
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	2.818	2.836	2.838	2.857	2.853	2.834	2.824	2.802	2.773	2.762	2.757	2.758
	12	2.648	2.648	2.668	2.622	2.598	2.573	2.546	2.518	2.486	2.472	2.454	2.446
	13	2.304	2.329	2.371	2.395	2.417	2.442	2.467	2.485	2.513	2.557	2.591	2.623
	14	2.850	2.903	2.905	2.926	2.956	2.922	2.907	3.879	2.859	2.854	2.840	2.833
	15	2.627	2.620	2.600	2.578	2.562	2.542	2.519	2.485	2.462	2.456	2.428	2.422
	16	2.289	2.277	2.265	2.253	2.253	2.253	2.241	2.211	2.207	2.210	2.210	2.214
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	2.197	2.207	2.232	2.244	2.272	2.267	2.298	2.315	2.355	2.394	2.426	2.455
	19	2.693	2.713	2.713	2.717	2.709	2.706	2.688	2.661	2.628	2.602	2.597	2.585
	20	2.431	2.416	2.398	2.424	2.430	2.423	2.426	2.446	2.470	2.494	2.527	2.562
	21	2.724	2.720	2.721	2.718	2.705	2.692	2.674	2.658	2.628	2.608	2.570	2.560
	22	2.428	2.443	2.443	2.443	2.443	2.450	2.463	2.464	2.441	2.440	2.446	2.463
	23	2.652	2.671	2.703	2.727	2.736	2.746	2.739	2.729	2.712	2.705	2.693	2.692
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	2.502	2.534	2.563	2.608	2.641	2.685	2.722	2.739	2.724	2.713	2.712	2.717
	26	2.718	2.750	2.742	2.758	2.764	2.763	2.761	2.765	2.752	2.750	2.750	2.750
	27	2.763	2.779	2.774	2.794	2.774	2.774	2.758	2.719	2.677	2.661	2.635	2.639
	28	2.334	2.327	2.333	2.303	2.289	2.261	2.241	2.229	2.212	2.212	2.246	2.267
	29	2.856	2.882	2.913	2.894	2.921	2.925	2.923	2.902	2.912	2.872	2.864	2.852
	30	2.679	2.698	2.714	2.719	2.765	2.765	2.750	2.755	2.771	2.773	2.817	2.837
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.6480	2.6617	2.6698	2.6726	2.6751	2.6699	2.6602	2.6470	2.6340	2.6263	2.6290	2.6315	
APRIL.	1	3.203	3.227	3.231	3.244	3.265	3.248	3.245	3.240	3.230	3.219	3.215	3.214
	2	3.224	3.236	3.243	3.224	3.211	3.199	3.175	3.164	3.136	3.096	3.064	3.027
	3	2.827	2.835	2.825	2.808	2.807	2.792	2.773	2.746	2.722	2.697	2.671	2.662
	4	2.625	2.624	2.606	2.591	2.567	2.544	2.533	2.495	2.491	2.500	2.554	2.596
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	2.907	2.917	2.955	2.927	2.936	2.948	2.962	2.938	2.938	2.931	2.929	2.941
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	2.630	2.610	2.587	2.571	2.546	2.565	2.540	2.522	2.499	2.470	2.466	2.483
	9	2.710	2.733	2.748	2.757	2.764	2.762	2.760	2.763	2.757	2.761	2.758	2.755
	10	2.821	2.832	2.835	2.829	2.808	2.798	2.789	2.772	2.744	2.735	2.725	2.714
	11	2.720	2.738	2.750	2.744	2.756	2.725	2.724	2.727	2.703	2.695	2.686	2.685
	12	2.790	2.806	2.812	2.823	2.830	2.827	2.827	2.839	2.824	2.817	2.811	2.817
	13	2.833	2.847	2.860	2.861	2.864	2.842	2.833	2.821	2.807	2.787	2.770	2.763
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	2.677	2.687	2.695	2.695	2.699	2.694	2.692	2.684	2.660	2.648	2.632	2.623
	16	2.507	2.502	2.532	2.534	2.556	2.546	2.545	2.552	2.580	2.572	2.571	2.577
	17	2.726	2.751	2.787	2.807	2.821	2.817	2.819	2.836	2.816	2.816	2.816	2.834
	18	2.950	2.962	2.962	2.968	2.965	2.952	2.940	2.928	2.905	2.889	2.872	2.866
	19	2.866	2.860	2.855	2.853	2.844	2.833	2.801	2.785	2.756	2.738	2.721	2.709
	20	2.663	2.679	2.677	2.669	2.658	2.638	2.615	2.600	2.579	2.564	2.552	2.548
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	2.728	2.728	2.736	2.750	2.762	2.750	2.748	2.756	2.740	2.718	2.709	2.715
	23	2.586	2.586	2.594	2.593	2.577	2.553	2.539	2.514	2.514	2.494	2.508	2.509
	24	2.476	2.464	2.464	2.463	2.446	2.417	2.390	2.371	2.378	2.383	2.394	2.454
	25	2.831	2.830	2.828	2.835	2.833	2.818	2.808	2.793	2.782	2.735	2.698	2.655
	26	2.432	2.422	2.410	2.408	2.442	2.445	2.485	2.505	2.537	2.563	2.597	2.632
	27	2.858	2.859	2.855	2.866	2.876	2.874	2.843	2.817	2.805	2.793	2.789	2.791
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	2.885	2.903	2.908	2.933	2.929	2.926	2.898	2.883	2.855	2.827	2.812	2.796
	30	2.789	2.789	2.782	2.761	2.737	2.727	2.681	2.649	2.628	2.589	2.562	2.542
	Hourly Means	2.7706	2.7771	2.7815	2.7806	2.7799	2.7696	2.7586	2.7480	2.7354	2.7215	2.7153	2.7163

\* Good Friday.

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English Inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.333	2.345	2.345	2.337	2.335	2.339	2.345	2.355	2.383	2.401	2.413	2.413	2.4289
2.443	2.477	2.510	2.521	2.551	2.554	—	—	—	—	—	—	—
—	—	—	—	—	—	2.590	2.616	2.637	2.665	2.695	2.721	2.5023
3.022	3.042	3.055	3.066	3.068	3.085	3.089	3.094	3.093	3.096	3.121	3.123	3.0020
3.024	3.042	3.056	3.058	3.068	3.068	3.072	3.080	3.088	3.094	3.116	3.120	3.0751
3.037	3.032	3.028	3.020	3.020	3.015	3.015	3.013	3.005	2.991	2.991	2.991	3.0640
2.882	2.872	2.872	2.860	2.836	2.817	2.807	2.792	2.757	2.740	2.721	2.700	2.8851
2.359	2.373	2.397	2.421	2.447	2.463	2.489	2.517	2.525	2.545	2.569	2.586	2.4961
2.669	2.669	2.669	2.674	2.673	2.677	—	—	—	—	—	—	—
—	—	—	—	—	—	2.762	2.770	2.767	2.792	2.796	2.808	2.6934
2.764	2.753	2.752	2.728	2.724	2.705	2.699	2.697	2.680	2.668	2.660	2.674	2.7590
2.433	2.421	2.407	2.393	2.369	2.363	2.331	2.316	2.283	2.273	2.273	2.274	2.4506
2.653	2.673	2.708	2.731	2.750	2.766	2.796	2.825	2.844	2.838	2.823	2.819	2.6133
2.827	2.807	2.796	2.782	2.768	2.743	2.725	2.710	2.690	2.663	2.639	2.627	2.8088
2.412	2.403	2.409	2.404	2.394	2.376	2.369	2.353	2.331	2.325	2.308	2.289	2.4448
2.217	2.227	2.221	2.221	2.221	2.223	—	—	—	—	—	—	—
—	—	—	—	—	—	2.166	2.181	2.187	2.195	2.198	2.196	2.2223
2.479	2.498	2.524	2.544	2.550	2.551	2.573	2.597	2.613	2.631	2.653	2.683	2.4399
2.581	2.589	2.589	2.586	2.566	2.540	2.527	2.505	2.487	2.449	2.437	2.432	2.5958
2.594	2.624	2.660	2.688	2.705	2.693	2.694	2.704	2.704	2.702	2.712	2.729	2.5690
2.544	2.536	2.525	2.536	2.530	2.526	2.502	2.491	2.477	2.455	2.452	2.436	2.5828
2.475	2.480	2.492	2.509	2.520	2.531	2.560	2.581	2.574	2.583	2.606	2.616	2.4956
2.708	2.708	2.713	2.717	2.707	2.706	—	—	—	—	—	—	—
—	—	—	—	—	—	2.447	2.449	2.442	2.444	2.456	2.468	2.6446
2.728	2.722	2.719	2.719	2.720	2.720	2.707	2.715	2.700	2.688	2.706	2.700	2.6835
2.752	2.751	2.745	2.750	2.744	2.758	2.745	2.735	2.733	2.725	2.731	2.755	2.7478
2.616	2.585	2.574	2.550	2.528	2.520	2.482	2.438	2.398	2.374	2.361	2.355	2.6053
2.323	2.381	2.450	2.510	2.538	2.583	2.606	2.662	2.706	2.740	2.763	2.793	2.4295
2.826	2.801	2.825	2.832	2.805	2.769	2.735	2.715	2.685	2.687	2.650	2.639	2.8202
2.877	2.920	2.948	2.980	3.010	3.032	—	—	—	—	—	—	—
—	—	—	—	—	—	3.144	3.145	3.146	3.158	3.171	3.191	2.9069
2.6376	2.6435	2.6534	2.6591	2.6595	2.6586	2.6530	2.6560	2.6513	2.6508	2.6547	2.6592	2.6526
3.206	3.203	3.208	3.209	3.200	3.199	3.186	3.178	3.178	3.186	3.184	3.196	3.2131
2.998	2.950	2.918	2.915	2.931	2.923	2.915	2.899	2.877	2.859	2.847	2.827	3.0357
2.660	2.656	2.656	2.650	2.635	2.628	2.615	2.605	2.594	2.603	2.603	2.613	2.6951
2.615	2.650	2.670	2.681	2.693	2.712	—	—	—	—	—	—	—
—	—	—	—	—	—	2.940	2.948	2.928	2.922	2.907	2.907	2.6791
2.941	2.937	2.951	2.940	2.926	2.930	—	—	—	—	—	—	—
—	—	—	—	—	—	2.696	2.671	2.651	2.650	2.630	2.622	2.8656
2.501	2.505	2.533	2.534	2.565	2.597	2.617	2.627	2.635	2.642	2.660	2.670	2.5656
2.752	2.754	2.773	2.782	2.784	2.781	2.775	2.761	2.762	2.766	2.769	2.781	2.7612
2.702	2.704	2.711	2.704	2.703	2.705	2.712	2.706	2.703	2.702	2.694	2.701	2.7437
2.687	2.693	2.703	2.708	2.708	2.720	2.722	2.731	2.737	2.743	2.758	2.759	2.7218
2.811	2.812	2.820	2.827	2.833	2.832	2.833	2.820	2.821	2.816	2.812	2.821	2.8200
2.752	2.749	2.754	2.744	2.743	2.733	—	—	—	—	—	—	—
—	—	—	—	—	—	2.661	2.657	2.652	2.652	2.662	2.663	2.7629
2.615	2.614	2.618	2.622	2.605	2.575	2.537	2.510	2.498	2.502	2.501	2.501	2.6160
2.571	2.570	2.584	2.576	2.582	2.597	2.605	2.608	2.615	2.643	2.662	2.689	2.5782
2.827	2.842	2.863	2.866	2.867	2.870	2.878	2.882	2.887	2.908	2.923	2.942	2.8417
2.856	2.848	2.851	2.853	2.860	2.860	2.864	2.857	2.856	2.849	2.851	2.842	2.8919
2.699	2.686	2.685	2.682	2.674	2.680	2.672	2.664	2.657	2.650	2.644	2.643	2.7357
2.540	2.540	2.541	2.536	2.534	2.535	—	—	—	—	—	—	—
—	—	—	—	—	—	2.680	2.673	2.673	2.684	2.680	2.679	2.6140
2.709	2.662	2.665	2.661	2.657	2.639	2.635	2.609	2.596	2.580	2.556	2.550	2.6816
2.517	2.516	2.535	2.543	2.543	2.538	2.530	2.524	2.529	2.499	2.481	2.489	2.5338
2.464	2.520	2.618	2.647	2.673	2.711	2.748	2.776	2.811	2.809	2.810	2.824	2.5630
2.616	2.594	2.574	2.582	2.569	2.543	2.508	2.470	2.483	2.481	2.426	2.402	2.6539
2.653	2.680	2.714	2.759	2.769	2.799	2.797	2.803	2.815	2.823	2.830	2.843	2.6318
2.766	2.764	2.759	2.761	2.751	2.744	—	—	—	—	—	—	—
—	—	—	—	—	—	2.800	2.798	2.806	2.821	2.843	2.859	2.8124
2.785	2.802	2.821	2.820	2.809	2.803	2.796	2.788	2.787	2.782	2.773	2.781	2.8376
2.523	2.520	2.491	2.479	2.484	2.482	2.462	2.452	2.443	2.441	2.444	2.444	2.5792
2.7106	2.7108	2.7206	2.7232	2.7239	2.7254	2.7274	2.7207	2.7198	2.7205	2.7180	2.7219	2.7374

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	2.461	2.467	2.458	2.460	2.457	2.436	2.418	2.398	2.373	2.365	2.338	2.322
	2	2.266	2.276	2.298	2.288	2.269	2.268	2.257	2.271	2.254	2.247	2.243	2.241
	3	2.397	2.399	2.396	2.413	2.394	2.385	2.373	2.355	2.346	2.334	2.318	2.306
	4	2.381	2.382	2.384	2.384	2.384	2.354	2.353	2.345	2.349	2.347	2.367	2.379
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	2.187	2.156	2.129	2.105	2.106	2.083	2.078	2.062	2.063	2.060	2.058	2.052
	7	2.452	2.479	2.502	2.527	2.547	2.548	2.540	2.524	2.523	2.528	2.518	2.519
	8	2.346	2.335	2.349	2.341	2.370	2.373	2.361	2.357	2.372	2.392	2.437	2.490
	9	2.763	2.787	2.797	2.796	2.798	2.797	2.797	2.793	2.786	2.795	2.814	2.826
	10	3.044	3.048	3.035	3.036	3.037	3.045	2.999	2.977	2.947	2.899	2.845	2.829
	11	2.512	2.520	2.511	2.455	2.459	2.440	2.408	2.415	2.396	2.358	2.354	2.322
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	2.894	2.906	2.914	2.913	2.911	2.886	2.861	2.841	2.791	2.768	2.752	2.702
	14	2.618	2.664	2.673	2.700	2.724	2.721	2.725	2.756	2.770	2.769	2.776	2.789
	15	2.854	2.853	2.846	2.829	2.821	2.790	2.757	2.744	2.701	2.671	2.644	2.619
	16	2.505	2.531	2.538	2.537	2.538	2.535	2.537	2.538	2.525	2.514	2.495	2.479
	17	2.619	2.641	2.661	2.661	2.709	2.674	2.693	2.693	2.672	2.664	2.673	2.667
	18	2.640	2.640	2.632	2.622	2.621	2.580	2.612	2.617	2.617	2.623	2.633	2.642
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	2.459	2.449	2.429	2.415	2.404	2.401	2.398	2.381	2.379	2.403	2.403	2.412
	21	2.717	2.734	2.758	2.772	2.790	2.797	2.796	2.795	2.797	2.797	2.795	2.798
	22	2.940	2.949	2.952	2.941	2.931	2.913	2.896	2.885	2.864	2.851	2.829	2.834
	23	2.887	2.906	2.915	2.914	2.907	2.885	2.874	2.864	2.836	2.813	2.809	2.812
	24	2.881	2.891	2.883	2.875	2.859	2.855	2.816	2.796	2.774	2.760	2.730	2.715
	25	2.620	2.624	2.614	2.612	2.591	2.581	2.560	2.530	2.510	2.480	2.461	2.441
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	2.367	2.367	2.379	2.371	2.361	2.347	2.332	2.315	—	—	2.295	2.295
	28	2.471	2.480	2.494	2.494	2.516	2.521	2.530	2.518	2.515	2.515	2.515	2.516
	29	2.669	2.687	2.687	2.679	2.679	2.676	2.657	2.634	2.604	2.580	2.564	2.540
	30	2.225	2.226	2.206	2.174	2.152	2.130	2.140	2.133	2.123	2.104	2.099	2.087
	31	2.035	2.081	2.139	2.179	2.212	2.251	2.275	2.312	2.331	2.349	2.376	2.392
Hourly Means	2.5633	2.5733	2.5770	2.5738	2.5758	2.5660	2.5557	2.5500	2.5468	2.5379	2.5237	2.5195	
JUNE.	1	2.542	2.554	2.549	2.521	2.487	2.474	2.449	2.432	2.428	2.485	2.398	2.374
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	2.727	2.731	2.733	2.730	2.735	2.733	2.747	2.743	2.725	2.704	2.697	2.700
	4	2.675	2.683	2.683	2.680	2.685	2.693	2.693	2.686	2.682	2.667	2.636	2.639
	5	2.575	2.571	2.571	2.549	2.537	2.532	2.514	2.503	2.481	2.480	2.482	2.472
	6	2.382	2.382	2.403	2.432	2.438	2.473	2.488	2.507	2.526	2.545	2.567	2.571
	7	2.561	2.561	2.548	2.524	2.516	2.497	2.493	2.480	2.472	2.480	2.513	2.528
	8	2.828	2.834	2.835	2.837	2.834	2.818	2.794	2.779	2.775	2.725	2.713	2.700
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	2.606	2.620	2.627	2.630	2.632	2.646	2.656	2.672	2.684	2.706	2.729	2.749
	11	3.018	3.042	3.046	3.042	3.033	3.020	3.008	2.994	2.982	2.971	2.954	2.955
	12	3.021	3.036	3.035	3.038	3.021	3.000	2.989	2.966	2.947	2.917	2.907	2.895
	13	2.782	2.778	2.778	2.779	2.773	2.773	2.764	2.747	2.730	2.720	2.718	2.713
	14	2.779	2.791	2.800	2.817	2.831	2.831	2.830	2.828	2.823	2.818	2.812	2.797
	15	2.877	2.881	2.889	2.907	2.909	2.902	2.899	2.881	2.873	2.864	2.859	2.845
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	2.524	2.516	2.504	2.488	2.484	2.473	2.466	2.448	2.434	2.420	2.402	2.375
	18	2.352	2.364	2.372	2.374	2.371	2.379	2.380	2.376	2.373	2.369	2.366	2.354
	19	2.376	2.364	2.368	2.356	2.318	2.291	2.223	2.219	2.240	2.261	2.279	2.320
	20	2.517	2.535	2.528	2.529	2.545	2.545	2.548	2.546	2.548	2.544	2.544	2.548
	21	2.628	2.638	2.638	2.636	2.644	2.654	2.641	2.630	2.620	2.614	2.606	2.593
	22	2.599	2.609	2.601	2.609	2.609	2.609	2.602	2.584	2.568	2.561	2.560	2.561
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	2.478	2.468	2.451	2.437	2.424	2.413	2.408	2.395	2.367	2.355	2.354	2.358
	25	2.375	2.386	2.396	2.396	2.395	2.385	2.376	2.373	2.364	2.364	2.359	2.372
	26	2.576	2.575	2.597	2.609	2.605	2.607	2.612	2.613	2.607	2.601	2.569	2.555
	27	2.509	2.512	2.514	2.488	2.478	2.444	2.410	2.381	2.373	2.343	2.315	2.279
	28	2.450	2.480	2.504	2.524	2.564	2.582	2.695	2.617	2.632	2.640	2.638	2.654
	29	2.839	2.857	2.861	2.856	2.860	2.853	2.852	2.835	2.815	2.787	2.782	2.759
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.6238	2.6307	2.6332	2.6315	2.6291	2.6251	2.6215	2.6094	2.6028	2.5976	2.5904	2.5866	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English Inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.292	2.272	2.254	2.243	2.258	2.273	2.266	2.280	2.280	2.278	2.278	2.278	2.3419
2.255	2.257	2.276	2.305	2.346	2.392	2.349	2.351	2.359	2.371	2.386	2.387	2.3005
2.308	2.326	2.316	2.347	2.327	2.333	2.339	2.346	2.338	2.350	2.368	2.379	2.3539
2.384	2.393	2.424	2.440	—	—	—	—	—	—	—	—	2.3620
—	—	—	—	—	—	2.374	2.365	2.331	2.324	2.286	2.235	—
2.050	2.051	2.085	2.135	2.165	2.190	2.252	2.301	2.335	2.364	2.396	2.426	2.1620
2.522	2.524	2.522	2.523	2.494	2.485	2.466	2.429	2.407	2.398	2.380	2.360	2.4882
2.538	2.574	2.597	2.618	2.632	2.644	2.653	2.661	2.673	2.684	2.701	2.729	2.5095
2.850	2.878	2.910	2.937	2.948	2.953	2.969	2.964	2.981	3.003	3.008	3.025	2.8750
2.811	2.792	2.779	2.748	2.718	2.684	2.639	2.570	2.536	2.560	2.542	2.524	2.8185
2.333	2.327	2.377	2.397	2.427	2.452	—	—	—	—	—	—	—
—	—	—	—	—	—	2.811	2.818	2.810	2.833	2.843	2.893	2.5196
2.629	2.605	2.622	2.544	2.556	2.517	2.499	2.501	2.501	2.505	2.539	2.551	2.6962
2.788	2.789	2.795	2.826	2.834	2.844	2.845	2.849	2.844	2.843	2.848	2.858	2.7770
2.599	2.597	2.612	2.597	2.580	2.566	2.535	2.527	2.520	2.517	2.506	2.520	2.6585
2.470	2.463	2.498	2.519	2.528	2.519	2.523	2.527	2.524	2.526	2.545	2.575	2.5204
2.668	2.668	2.683	2.679	2.675	2.670	2.662	2.661	2.637	2.631	2.623	2.632	2.6632
2.656	2.685	2.717	2.756	2.771	2.771	—	—	—	—	—	—	—
—	—	—	—	—	—	2.615	2.577	2.554	2.533	2.503	2.483	2.6292
2.443	2.485	2.510	2.513	2.516	2.537	2.556	2.590	2.607	2.620	2.662	2.696	2.4862
2.804	2.810	2.834	2.864	2.876	2.873	2.883	2.892	2.894	2.896	2.903	2.919	2.8247
2.822	2.812	2.826	2.834	2.841	2.843	2.844	2.849	2.849	2.854	2.867	2.889	2.8715
2.816	2.828	2.849	2.863	2.867	2.868	2.862	2.860	2.858	2.863	2.870	2.871	2.8628
2.712	2.693	2.684	2.676	2.672	2.676	2.674	2.642	2.632	2.622	2.618	2.620	2.7398
2.417	2.403	2.408	2.402	2.407	2.378	—	—	—	—	—	—	—
—	—	—	—	—	—	2.310	2.307	2.303	2.304	2.318	2.326	2.4545
2.303	2.329	2.359	2.365	2.374	2.379	2.407	2.410	2.416	2.420	2.427	2.449	2.3667
2.538	2.545	2.565	2.582	2.589	2.590	2.597	2.605	2.625	2.644	2.658	2.659	2.5534
2.516	2.498	2.478	2.479	2.462	2.445	2.416	2.372	2.345	2.333	2.281	2.249	2.5221
2.081	2.061	2.049	2.079	2.044	2.006	2.012	1.988	1.978	1.976	1.966	1.985	2.0843
2.407	2.425	2.454	2.477	2.497	2.511	2.512	2.514	2.522	2.527	2.537	2.542	2.3690
2.5190	2.5219	2.5364	2.5462	2.5540	2.5538	2.5507	2.5465	2.5429	2.5474	2.5503	2.5578	2.5496
2.367	2.368	2.354	2.379	2.405	2.468	—	—	—	—	—	—	2.5071
—	—	—	—	—	—	2.681	2.682	2.685	2.688	2.698	2.703	—
2.658	2.658	2.663	2.684	2.686	2.681	2.683	2.691	2.680	2.664	2.665	2.658	2.6990
2.629	2.622	2.618	2.635	2.619	2.622	2.619	2.618	2.606	2.593	2.583	2.583	2.6437
2.466	2.467	2.444	2.434	2.428	2.426	2.425	2.419	2.411	2.387	2.377	2.375	2.4719
2.590	2.618	2.610	2.608	2.609	2.593	2.584	2.589	2.586	2.582	2.581	2.575	2.5350
2.562	2.598	2.617	2.662	2.691	2.698	2.735	2.740	2.751	2.758	2.785	2.818	2.6078
2.677	2.683	2.692	2.657	2.649	2.603	—	—	—	—	—	—	—
—	—	—	—	—	—	2.545	2.553	2.554	2.561	2.555	2.580	2.6992
2.775	2.801	2.829	2.848	2.864	2.881	2.917	2.922	2.944	2.963	2.988	3.002	2.7788
2.949	2.963	2.963	2.971	2.976	2.985	2.983	2.982	2.986	2.993	2.996	3.001	2.9922
2.879	2.868	2.853	2.859	2.845	2.842	2.832	2.805	2.796	2.783	2.777	2.784	2.9040
2.713	2.713	2.710	2.718	2.728	2.729	2.730	2.726	2.727	2.734	2.749	2.767	2.7416
2.811	2.817	2.818	2.844	2.855	2.863	2.864	2.859	2.856	2.862	2.867	2.872	2.8310
2.837	2.823	2.831	2.822	2.821	2.823	—	—	—	—	—	—	—
—	—	—	—	—	—	2.582	2.560	2.533	2.529	2.529	2.521	2.7832
2.369	2.359	2.361	2.364	2.351	2.347	2.329	2.322	2.316	2.320	2.328	2.336	2.4015
2.357	2.356	2.365	2.380	2.376	2.391	2.403	2.425	2.427	2.381	2.382	2.382	2.3773
2.357	2.368	2.402	2.435	2.448	2.463	2.465	2.466	2.476	2.479	2.487	2.508	2.3737
2.562	2.568	2.576	2.591	2.596	2.603	2.605	2.608	2.599	2.598	2.599	2.613	2.5665
2.577	2.577	2.595	2.608	2.613	2.608	2.604	2.595	2.582	2.577	2.580	2.574	2.6097
2.571	2.563	2.566	2.578	2.590	2.595	—	—	—	—	—	—	—
—	—	—	—	—	—	2.518	2.505	2.492	2.481	2.481	2.482	2.5622
2.366	2.372	2.385	2.397	2.417	2.414	2.409	2.393	2.375	2.377	2.375	2.377	2.3985
2.385	2.404	2.432	2.453	2.460	2.475	2.477	2.488	2.510	2.514	2.532	2.561	2.4263
2.558	2.564	2.568	2.566	2.557	2.553	2.547	2.541	2.536	2.528	2.531	2.518	2.5705
2.289	2.289	2.281	2.283	2.277	2.273	2.273	2.287	2.335	2.377	2.399	2.434	2.3685
2.666	2.696	2.714	2.749	2.758	2.781	2.787	2.794	2.790	2.805	2.812	2.818	2.6729
2.751	2.740	2.734	2.741	2.733	2.726	—	—	—	—	—	—	—
—	—	—	—	—	—	2.466	2.438	2.434	2.432	2.412	2.418	2.7075
2.5888	2.5942	2.5992	2.6106	2.6141	2.6177	2.6025	2.6003	2.5995	2.5986	2.6027	2.6104	2.6092

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	2.438	2.438	2.437	2.436	2.433	2.435	2.444	2.434	2.443	2.442	2.439	2.451
	2	2.548	2.554	2.555	2.546	2.525	2.510	2.490	2.464	2.457	2.451	2.454	2.474
	3	2.462	2.468	2.483	2.511	2.527	2.532	2.543	2.561	2.569	2.578	2.586	2.588
	4	2.826	2.840	2.856	2.857	2.862	2.861	2.864	2.840	2.836	2.812	2.801	2.785
	5	2.658	2.636	2.612	2.582	2.562	2.531	2.473	2.455	2.413	2.366	2.334	2.318
	6	2.327	2.342	2.346	2.357	2.363	2.374	2.370	2.359	2.367	2.488	2.409	2.413
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	2.702	2.716	2.716	2.716	2.707	2.704	2.688	2.658	2.649	2.624	2.613	2.596
	9	2.517	2.507	2.509	2.470	2.446	2.419	2.410	2.370	2.360	2.354	2.338	2.319
	10	2.164	2.175	2.194	2.197	2.197	2.206	2.215	2.230	2.246	2.260	2.276	2.298
	11	2.455	2.465	2.463	2.466	2.482	2.490	2.483	2.485	2.479	2.473	2.472	2.472
	12	2.623	2.635	2.605	2.615	2.629	2.634	2.623	2.620	2.607	2.591	2.583	2.562
	13	2.660	2.678	2.668	2.688	2.698	2.692	2.688	2.680	2.665	2.643	2.638	2.629
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	2.611	2.607	2.605	2.603	2.603	2.603	2.535	2.600	2.570	2.570	2.560	2.514
	16	2.327	2.320	2.320	2.316	2.336	2.357	2.367	2.390	2.397	2.409	2.421	2.426
	17	2.576	2.588	2.598	2.618	2.629	2.631	2.641	2.631	2.630	2.622	2.618	2.625
	18	2.630	2.628	2.620	2.617	2.586	2.593	2.569	2.546	2.505	2.463	2.449	2.435
	19	2.328	2.334	2.358	2.366	2.326	2.324	2.344	2.358	2.338	2.351	2.345	2.335
	20	2.403	2.418	2.424	2.433	2.433	2.434	2.438	2.446	2.443	2.441	2.437	2.446
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	2.643	2.642	2.644	2.629	2.622	2.617	2.607	2.594	2.561	2.578	2.591	2.575
	23	2.657	2.659	2.659	2.648	2.637	2.616	2.618	2.607	2.588	2.579	2.573	2.581
	24	2.608	2.612	2.632	2.634	2.634	2.639	2.625	2.623	2.619	2.610	2.602	2.594
	25	2.560	2.562	2.572	2.562	2.570	2.578	2.596	2.600	2.604	2.601	2.601	2.584
	26	2.654	2.670	2.676	2.684	2.688	2.693	2.691	2.690	2.690	2.689	2.688	2.698
	27	2.773	2.779	2.798	2.796	2.794	2.791	2.789	2.778	2.768	2.757	2.745	2.742
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	2.772	2.768	2.764	2.761	2.748	2.736	2.719	2.697	2.676	2.662	2.653	2.630
	30	2.585	2.599	2.593	2.589	2.575	2.561	2.545	2.531	2.503	2.494	2.464	2.450
	31	2.364	2.360	2.378	2.379	2.386	2.378	2.370	2.360	2.353	2.341	2.340	2.338
Hourly Means	2.5508	2.5555	2.5587	2.5583	2.5554	2.5533	2.5461	2.5410	2.5310	2.5277	2.5197	2.5140	
AUGUST.	1	2.460	2.504	2.507	2.509	2.522	2.540	2.539	2.538	2.535	2.528	2.522	2.525
	2	2.723	2.723	2.733	2.754	2.765	2.764	2.768	2.763	2.743	2.723	2.713	2.707
	3	2.674	2.651	2.663	2.641	2.646	2.630	2.595	2.562	2.538	2.498	2.463	2.451
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	2.581	2.571	2.569	2.560	2.556	2.551	2.526	2.517	2.507	2.484	2.473	2.456
	6	2.350	2.353	2.354	2.361	2.371	2.363	2.378	2.373	2.373	2.390	2.410	2.426
	7	2.551	2.551	2.550	2.554	2.547	2.535	2.533	2.520	2.518	2.518	2.522	2.524
	8	2.503	2.529	2.545	2.545	2.553	2.558	2.557	2.568	2.560	2.553	2.539	2.532
	9	2.256	2.246	2.218	2.224	2.235	2.246	2.256	2.260	2.213	2.246	2.229	2.236
	10	2.480	2.500	2.511	2.518	2.519	2.521	2.519	2.499	2.492	2.492	2.503	2.507
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	2.729	2.737	2.743	2.738	2.741	2.734	2.734	2.733	2.723	2.718	2.695	2.697
	13	2.696	2.707	2.717	2.716	2.705	2.690	2.685	2.673	2.653	2.652	2.638	2.632
	14	2.649	2.649	2.665	2.671	2.687	2.685	2.670	2.666	2.647	2.656	2.663	2.661
	15	2.687	2.701	2.705	2.716	2.707	2.701	2.700	2.678	2.663	2.653	2.632	2.614
	16	2.591	2.577	2.583	2.591	2.604	2.591	2.562	2.547	2.538	2.527	2.514	2.501
	17	2.613	2.612	2.624	2.641	2.639	2.636	2.635	2.635	2.630	2.638	2.641	2.649
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	2.562	2.574	2.574	2.576	2.590	2.578	2.571	2.565	2.563	2.564	2.561	2.599
	20	2.673	2.699	2.713	2.757	2.775	2.791	2.813	2.833	2.821	2.807	2.801	2.803
	21	2.883	2.917	2.918	2.921	2.922	2.909	2.905	2.894	2.875	2.849	2.851	2.819
	22	2.577	2.541	2.511	2.477	2.421	2.403	2.349	2.313	2.275	2.256	2.253	2.272
	23	2.157	2.167	2.167	2.177	2.179	2.165	2.166	2.174	2.169	2.157	2.164	2.182
	24	2.178	2.176	2.168	2.163	2.152	2.126	2.126	2.129	2.136	2.140	2.151	2.170
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	2.299	2.327	2.331	2.333	2.340	2.332	2.329	2.330	2.335	2.335	2.353	2.361
	27	2.368	2.372	2.375	2.378	2.382	2.384	2.382	2.375	2.370	2.352	2.364	2.362
	28	2.385	2.379	2.385	2.389	2.387	2.372	2.382	2.380	2.374	2.363	2.375	2.362
	29	2.466	2.484	2.496	2.509	2.513	2.514	2.502	2.509	2.508	2.520	2.519	2.531
	30	2.627	2.643	2.645	2.657	2.655	2.635	2.626	2.610	2.608	2.571	2.561	2.559
	31	2.592	2.616	2.614	2.618	2.622	2.629	2.629	2.627	2.627	2.614	2.624	2.628
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.5300	2.5372	2.5401	2.5442	2.5457	2.5401	2.5347	2.5286	2.5183	2.5113	2.5087	2.5099	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English Inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.455	2.483	2.505	2.513	2.522	2.539	2.547	2.552	2.553	2.553	2.550	2.546	2.4828
2.468	2.462	2.463	2.465	2.452	2.448	2.446	2.452	2.457	2.463	2.451	2.455	2.4796
2.602	2.616	2.629	2.667	2.678	2.710	2.731	2.739	2.765	2.784	2.798	2.806	2.6222
2.771	2.766	2.759	2.763	2.755	2.758	2.762	2.745	2.720	2.709	2.693	2.679	2.7883
2.294	2.276	2.268	2.279	2.279	2.293	2.295	2.283	2.281	2.295	2.295	2.319	2.3915
2.435	2.457	2.468	2.507	2.513	2.521	—	—	—	—	—	—	—
—	—	—	—	—	—	2.654	2.662	2.668	2.661	2.672	2.687	2.4758
2.585	2.577	2.563	2.557	2.551	2.552	2.552	2.553	2.545	2.548	2.522	2.508	2.6126
2.295	2.287	2.270	2.268	2.250	2.246	2.217	2.203	2.191	2.165	2.159	2.157	2.3220
2.336	2.352	2.369	2.380	2.381	2.383	2.387	2.392	2.394	2.395	2.412	2.435	2.3031
2.483	2.492	2.499	2.512	2.532	2.529	2.544	2.557	2.560	2.560	2.573	2.610	2.5057
2.566	2.570	2.572	2.587	2.608	2.626	2.627	2.627	2.623	2.622	2.634	2.658	2.6111
2.633	2.633	2.619	2.626	2.627	2.613	—	—	—	—	—	—	—
—	—	—	—	—	—	2.575	2.568	2.564	2.565	2.572	2.586	2.6337
2.490	2.491	2.478	2.492	2.484	2.473	2.447	2.403	2.379	2.335	2.350	2.322	2.5052
2.430	2.451	2.463	2.483	2.499	2.504	2.519	2.527	2.525	2.530	2.537	2.562	2.4340
2.621	2.635	2.635	2.643	2.644	2.652	2.659	2.638	2.632	2.629	2.626	2.622	2.6268
2.435	2.404	2.391	2.371	2.355	2.441	2.329	2.312	2.308	2.320	2.312	2.316	2.4556
2.335	2.348	2.348	2.363	2.363	2.374	2.374	2.372	2.373	2.369	2.373	2.383	2.3534
2.442	2.459	2.481	2.506	2.511	2.525	—	—	—	—	—	—	—
—	—	—	—	—	—	2.639	2.634	2.632	2.612	2.621	2.633	2.4955
2.583	2.593	2.609	2.633	2.633	2.635	2.640	2.640	2.638	2.643	2.643	2.654	2.6186
2.575	2.569	2.570	2.570	2.563	2.560	2.562	2.559	2.560	2.566	2.567	2.603	2.5936
2.598	2.594	2.584	2.585	2.569	2.573	2.573	2.571	2.551	2.525	2.541	2.554	2.5932
2.584	2.582	2.595	2.612	2.624	2.626	2.629	2.624	2.625	2.621	2.622	2.633	2.5986
2.694	2.684	2.708	2.713	2.725	2.727	2.728	2.732	2.733	2.729	2.788	2.751	2.7051
2.739	2.735	2.754	2.761	2.753	2.757	—	—	—	—	—	—	—
—	—	—	—	—	—	2.752	2.753	2.754	2.755	2.763	2.771	2.7649
2.621	2.613	2.633	2.625	2.637	2.638	2.622	2.615	2.609	2.590	2.590	2.595	2.6656
2.450	2.450	2.434	2.428	2.418	2.406	2.394	2.373	2.367	2.361	2.359	2.365	2.4706
2.316	2.338	2.364	2.408	2.402	2.407	2.416	2.426	2.435	2.436	2.446	2.460	2.3834
2.5124	2.5154	2.5197	2.5303	2.5307	2.5377	2.5414	2.5373	2.5349	2.5311	2.5364	2.5430	2.5368
2.541	2.566	2.488	2.598	2.604	2.617	2.635	2.643	2.658	2.651	2.667	2.700	2.5665
2.725	2.725	2.761	2.753	2.746	2.739	2.728	2.711	2.702	2.702	2.694	2.689	2.7314
2.427	2.427	2.427	2.407	2.404	2.394	—	—	—	—	—	—	—
—	—	—	—	—	—	2.556	2.557	2.558	2.566	2.567	2.565	2.5361
2.456	2.442	2.443	2.449	2.420	2.399	2.379	2.367	2.355	2.349	2.337	2.328	2.4615
2.466	2.488	2.508	2.528	2.523	2.540	2.533	2.527	2.520	2.521	2.528	2.530	2.4464
2.525	2.535	2.534	2.534	2.544	2.541	2.545	2.551	2.520	2.502	2.502	2.503	2.5316
2.538	2.538	2.532	2.515	2.510	2.592	2.475	2.441	2.371	2.363	2.337	2.305	2.5025
2.250	2.280	2.312	2.340	2.354	2.389	2.391	2.414	2.415	2.437	2.448	2.462	2.3065
2.525	2.533	2.544	2.558	2.578	2.591	—	—	—	—	—	—	—
—	—	—	—	—	—	2.691	2.704	2.706	2.706	2.703	2.719	2.5675
2.696	2.682	2.683	2.683	2.689	2.691	2.697	2.696	2.696	2.690	2.691	2.690	2.7086
2.635	2.641	2.648	2.638	2.637	2.638	2.646	2.642	2.648	2.627	2.625	2.629	2.6591
2.661	2.661	2.663	2.669	2.669	2.673	2.673	2.664	2.656	2.657	2.667	2.685	2.6653
2.620	2.614	2.649	2.639	2.629	2.626	2.614	2.610	2.609	2.599	2.589	2.593	2.6478
2.496	2.496	2.498	2.514	2.505	2.507	2.517	2.514	2.536	2.542	2.567	2.609	2.5428
2.651	2.656	2.670	2.679	2.673	2.684	—	—	—	—	—	—	—
—	—	—	—	—	—	2.610	2.577	2.503	2.570	2.562	2.562	2.6246
2.594	2.610	2.641	2.661	2.653	2.646	2.661	2.666	2.666	2.662	2.663	2.663	2.6110
2.803	2.826	2.840	2.839	2.844	2.851	2.859	2.846	2.860	2.863	2.870	2.879	2.8111
2.815	2.797	2.797	2.795	2.766	2.750	2.747	2.711	2.684	2.647	2.629	2.581	2.8076
2.245	2.232	2.219	2.213	2.203	2.195	2.181	2.165	2.147	2.125	2.133	2.157	2.2860
2.202	2.220	2.243	2.243	2.281	2.226	2.230	2.216	2.198	2.192	2.185	2.177	2.1932
2.179	2.177	2.190	2.198	2.188	2.185	—	—	—	—	—	—	—
—	—	—	—	—	—	2.279	2.275	2.276	2.286	2.293	2.295	2.1932
2.365	2.369	2.373	2.376	2.376	2.374	2.369	2.361	2.356	2.358	2.358	2.366	2.3502
2.375	2.385	2.392	2.366	2.366	2.377	2.377	2.380	2.378	2.385	2.373	2.373	2.3746
2.384	2.390	2.404	2.415	2.409	2.406	2.410	2.397	2.401	2.411	2.425	2.442	2.3928
2.552	2.566	2.580	2.588	2.591	2.595	2.596	2.605	2.614	2.612	2.617	2.619	2.5502
2.553	2.560	2.572	2.564	2.562	2.566	2.566	2.566	2.568	2.570	2.576	2.581	2.5917
2.631	2.646	2.653	2.664	2.669	2.673	—	—	—	—	—	—	—
—	—	—	—	—	—	2.617	2.601	2.577	2.577	2.567	2.575	2.6204
2.5152	2.5208	2.5283	2.5343	2.5331	2.5357	2.5401	2.5336	2.5251	2.5248	2.5249	2.5288	2.5289

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	2·567	2·537	2·527	2·500	2·494	2·478	2·443	2·413	2·376	2·356	2·345	2·354
	3	2·578	2·598	2·602	2·613	2·620	2·613	2·609	2·601	2·592	2·579	2·580	2·594
	4	2·731	2·756	2·763	2·768	2·778	2·775	2·773	2·787	2·793	2·792	2·793	2·813
	5	2·934	2·954	2·960	2·968	2·967	2·958	2·927	2·929	2·916	2·904	2·898	2·897
	6	2·922	2·924	2·930	2·941	2·945	2·937	2·920	2·909	2·893	2·879	2·869	2·867
	7	2·843	2·843	2·842	2·849	2·828	2·825	2·811	2·801	2·794	2·769	2·748	2·746
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	2·641	2·659	2·663	2·672	2·694	2·682	2·687	2·675	2·667	2·671	2·667	2·666
	10	2·751	2·761	2·757	2·769	2·777	2·779	2·752	2·749	2·737	2·722	2·715	2·705
	11	2·671	2·671	2·671	2·679	2·685	2·659	2·659	2·651	2·640	2·640	2·623	2·627
	12	2·690	2·705	2·705	2·711	2·710	2·696	2·682	2·667	2·653	2·644	2·637	2·636
	13	2·705	2·725	2·732	2·743	2·741	2·742	2·723	2·710	2·700	2·688	2·688	2·677
	14	2·752	2·757	2·759	2·763	2·761	2·762	2·745	2·728	2·714	2·702	2·695	2·695
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	2·803	2·819	2·819	2·824	2·818	2·809	2·796	2·769	2·755	2·738	2·729	2·734
	17	2·730	2·732	2·732	2·731	2·718	2·716	2·693	2·670	2·646	2·631	2·626	2·619
	18	2·683	2·697	2·691	2·703	2·704	2·694	2·682	2·662	2·651	2·645	2·631	2·619
	19	2·650	2·655	2·646	2·637	2·620	2·609	2·588	2·569	2·546	2·544	2·543	2·545
	20	2·622	2·622	2·615	2·614	2·610	2·599	2·576	2·559	2·530	2·507	2·492	2·484
	21	2·293	2·305	2·293	2·292	2·323	2·349	2·391	2·413	2·439	2·478	2·507	2·553
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	2·879	2·885	2·886	2·895	2·893	2·878	2·868	2·856	2·837	2·833	2·827	2·830
	24	2·769	2·789	2·785	2·789	2·798	2·796	2·791	2·785	2·784	2·784	2·789	2·793
	25	2·851	2·831	2·861	2·865	2·865	2·857	2·857	2·857	2·849	2·846	2·848	2·856
	26	2·946	2·960	2·968	2·977	2·982	2·995	2·995	2·986	2·976	2·975	2·975	2·979
	27	3·107	3·112	3·118	3·123	3·104	3·100	3·094	3·057	3·055	3·040	3·015	3·009
	28	2·858	2·844	2·824	2·810	2·780	2·749	2·718	2·697	2·662	2·621	2·607	2·591
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	2·488	2·510	2·534	2·550	2·559	2·589	2·600	2·614	2·659	2·687	2·724	2·776
	Hourly Means	2·7386	2·7460	2·7473	2·7514	2·7510	2·7458	2·7352	2·7246	2·7146	2·7070	2·7028	2·7068
OCTOBER.	1	3·035	3·045	3·071	3·078	3·090	3·081	3·064	3·047	3·019	3·016	3·014	3·004
	2	2·887	2·871	2·872	2·838	2·817	2·797	2·765	2·728	2·708	2·667	2·650	2·630
	3	2·384	2·384	2·384	2·384	2·360	2·351	2·336	2·318	2·305	2·291	2·306	2·304
	4	2·302	2·304	2·308	2·306	2·307	2·305	2·292	2·280	2·280	2·276	2·282	2·287
	5	2·355	2·385	2·397	2·417	2·435	2·440	2·447	2·447	2·459	2·479	2·493	2·511
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	2·695	2·717	2·731	2·740	2·732	2·730	2·721	2·717	2·724	2·708	2·706	2·708
	8	2·725	2·727	2·725	2·719	2·702	2·675	2·624	2·597	2·574	2·555	2·543	2·524
	9	2·567	2·587	2·594	2·617	2·628	2·611	2·604	2·597	2·591	2·584	2·576	2·573
	10	2·356	2·362	2·364	2·410	2·440	2·462	2·472	2·474	2·480	2·506	2·524	2·560
	11	2·742	2·764	2·788	2·803	2·808	2·814	2·811	2·805	2·799	2·796	2·809	2·824
	12	2·962	2·962	2·990	3·005	3·012	3·010	2·993	2·967	2·951	2·928	2·926	2·927
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	2·555	2·556	2·543	2·534	2·505	2·482	2·456	2·412	2·396	2·374	2·352	2·350
	15	2·125	2·118	2·100	2·090	2·069	2·058	2·028	2·008	2·002	2·000	2·006	2·018
	16	2·287	2·317	2·355	2·375	2·394	2·434	2·461	2·464	2·484	2·516	2·542	2·582
	17	2·732	2·752	2·748	2·748	2·750	2·716	2·698	2·688	2·688	2·684	2·690	2·698
	18	2·810	2·837	2·825	2·799	2·788	2·760	2·702	2·654	2·614	2·570	2·516	2·450
	19	2·358	2·391	2·401	2·415	2·404	2·416	2·427	2·439	2·476	2·564	2·596	2·625
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	2·965	2·963	2·963	2·955	2·929	2·917	2·904	2·886	2·865	2·865	2·866	2·872
	22	2·992	3·010	3·032	3·040	3·038	3·028	3·009	2·980	2·966	2·966	2·961	2·961
	23	2·964	2·977	2·986	2·983	2·983	2·976	2·966	2·937	2·914	2·907	2·896	2·905
	24	2·895	2·899	2·901	2·900	2·891	2·886	2·876	2·853	2·834	2·830	2·823	2·805
	25	2·659	2·665	2·649	2·648	2·638	2·625	2·595	2·590	2·588	2·597	2·620	2·647
	26	2·823	2·805	2·821	2·802	2·786	2·773	2·749	2·717	2·709	2·689	2·689	2·683
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	2·485	2·477	2·460	2·438	2·422	2·410	2·406	2·388	2·396	2·396	2·412	2·418
	29	2·428	2·428	2·433	2·423	2·428	2·417	2·409	2·405	2·411	2·420	2·429	2·440
	30	2·561	2·581	2·593	2·611	2·621	2·629	2·624	2·626	2·640	2·659	2·683	2·709
	31	2·846	2·868	2·886	2·894	2·894	2·887	2·874	2·862	2·849	2·842	2·833	2·840
Hourly Means	2·6480	2·6575	2·6637	2·6656	2·6619	2·6552	2·6412	2·6254	2·6197	2·6177	2·6201	2·6243	



BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English Inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
—	—	—	—	—	—	—	—	—	—	—	—	—
2.368	2.436	2.465	2.491	2.500	2.501	2.510	2.517	2.537	2.546	2.548	2.564	2.4739
2.603	2.613	2.628	2.642	2.639	2.640	2.643	2.641	2.642	2.641	2.677	2.704	2.6205
2.824	2.831	2.854	2.861	2.872	2.877	2.888	2.879	2.885	2.902	2.912	2.914	2.8259
2.877	2.869	2.872	2.873	2.865	2.866	2.870	2.867	2.869	2.880	2.882	2.902	2.9043
2.861	2.861	2.855	2.866	2.853	2.847	2.841	2.840	2.846	2.837	2.831	2.828	2.8792
2.722	2.712	2.720	2.721	2.722	2.723	—	—	—	—	—	—	—
—	—	—	—	—	—	2.655	2.643	2.639	2.639	2.629	2.629	2.7439
2.674	2.689	2.693	2.708	2.708	2.717	2.745	2.734	2.728	2.724	2.720	2.743	2.6928
2.700	2.704	2.710	2.705	2.702	2.697	2.679	2.665	2.663	2.663	2.661	2.661	2.7160
2.635	2.641	2.653	2.669	2.679	2.679	2.699	2.679	2.671	2.672	2.680	2.696	2.6637
2.640	2.644	2.652	2.660	2.653	2.653	2.655	2.655	2.658	2.666	2.675	2.677	2.6677
2.674	2.688	2.698	2.708	2.716	2.721	2.712	2.712	2.707	2.708	2.719	2.731	2.7110
2.696	2.704	2.717	2.735	2.747	2.757	—	—	—	—	—	—	—
—	—	—	—	—	—	2.789	2.778	2.776	2.772	2.770	2.782	2.7440
2.735	2.745	2.746	2.747	2.742	2.735	2.739	2.735	2.738	2.724	2.718	2.719	2.7598
2.612	2.605	2.618	2.607	2.618	2.620	2.621	2.621	2.622	2.639	2.650	2.668	2.6560
2.614	2.620	2.620	2.617	2.619	2.622	2.618	2.616	2.619	2.620	2.625	2.628	2.6458
2.553	2.583	2.595	2.598	2.601	2.603	2.599	2.604	2.607	2.600	2.600	2.611	2.5961
2.484	2.482	2.465	2.455	2.446	2.438	2.417	2.393	2.372	2.355	2.335	2.311	2.5326
2.607	2.639	2.681	2.700	2.725	2.742	—	—	—	—	—	—	—
—	—	—	—	—	—	2.853	2.868	2.870	2.858	2.857	2.863	2.5791
2.830	2.833	2.822	2.808	2.798	2.787	2.783	2.774	2.761	2.750	2.754	2.765	2.8263
2.797	2.806	2.820	2.821	2.827	2.827	2.823	2.834	2.841	2.849	2.838	2.826	2.8067
2.858	2.864	2.878	2.888	2.893	2.889	2.893	2.897	2.896	2.899	2.912	2.921	2.8721
2.991	3.011	3.026	3.032	3.038	3.061	3.067	3.079	3.076	3.070	3.072	3.089	3.0136
2.999	2.997	2.997	3.006	2.983	2.958	2.946	2.937	2.915	2.896	2.872	2.867	3.0128
2.563	2.549	2.539	2.519	2.505	2.487	—	—	—	—	—	—	2.5566
—	—	—	—	—	—	2.359	2.375	2.395	2.413	2.430	2.464	—
2.824	2.854	2.890	2.904	2.909	2.921	2.930	2.932	2.954	2.988	3.004	3.018	2.7674
2.7096	2.7192	2.7286	2.7336	2.7344	2.7347	2.7334	2.7310	2.7315	2.7324	2.7348	2.7432	2.7307
2.996	2.986	2.984	2.986	2.976	2.968	2.951	2.939	2.932	2.916	2.912	2.886	3.0002
2.606	2.574	2.550	2.522	2.507	2.451	2.422	—	2.404	2.386	2.364	2.382	2.6260
2.318	2.304	2.324	2.309	2.320	2.300	2.301	2.295	2.288	2.288	2.282	2.291	2.3220
2.293	2.297	2.293	2.286	2.295	2.296	2.298	2.304	2.309	2.312	2.318	2.338	2.2987
2.527	2.537	2.553	2.569	2.581	2.595	—	—	—	—	—	—	—
—	—	—	—	—	—	2.652	2.655	2.662	2.671	2.675	2.676	2.5257
2.715	2.714	2.715	2.728	2.722	2.725	2.719	2.716	2.709	2.701	2.716	2.715	2.7177
2.530	2.531	2.513	2.503	2.501	2.492	2.496	2.504	2.505	2.513	2.537	2.543	2.5774
2.571	2.566	2.563	2.544	2.526	2.499	2.470	2.448	2.420	2.400	2.380	2.365	2.5367
2.592	2.612	2.624	2.647	2.654	2.659	2.659	2.671	2.683	2.680	2.715	2.727	2.5555
2.824	2.840	2.863	2.878	2.898	2.907	2.913	2.914	2.924	2.924	2.941	2.952	2.8475
2.929	2.927	2.922	2.918	2.926	2.926	—	—	—	—	—	—	—
—	—	—	—	—	—	2.662	2.646	2.625	2.613	2.563	2.563	2.8689
2.339	2.319	2.303	2.283	2.267	2.239	2.231	2.205	2.189	2.161	2.151	2.141	2.3476
2.042	2.051	2.065	2.096	2.104	2.121	2.149	2.169	2.183	2.209	2.225	2.254	2.0954
2.614	2.644	2.666	2.682	2.691	2.701	2.714	2.721	2.731	2.737	2.733	2.731	2.5657
2.702	2.714	2.739	2.759	2.767	2.759	2.763	2.771	2.778	2.788	2.801	2.826	2.7400
2.380	2.286	2.196	2.083	1.977	1.868	1.864	1.964	2.020	2.112	2.247	2.322	2.4018
2.648	2.671	2.711	2.729	2.741	2.774	—	—	—	—	—	—	—
—	—	—	—	—	—	3.079	3.055	3.031	2.999	2.983	2.973	2.6627
2.868	2.899	2.912	2.966	2.984	2.983	2.992	2.984	2.996	2.998	2.998	2.992	2.9384
2.965	2.965	2.960	2.953	2.954	2.952	2.944	2.939	2.939	2.943	2.957	2.960	2.9753
2.895	2.897	2.887	2.871	2.867	2.864	2.870	2.869	2.885	2.887	2.892	2.894	2.9155
2.791	2.781	2.756	2.738	2.735	2.727	2.725	2.725	2.718	2.710	2.690	2.667	2.7982
2.694	2.736	2.782	2.805	2.833	2.844	2.858	2.853	2.854	2.848	2.845	2.829	2.7209
2.674	2.689	2.670	2.680	2.691	2.695	—	—	—	—	—	—	—
—	—	—	—	—	—	2.631	2.593	2.573	2.563	2.516	2.503	2.6885
2.428	2.433	2.447	2.461	2.441	2.441	2.441	2.447	2.444	2.426	2.428	2.432	2.4324
2.452	2.465	2.467	2.483	2.479	2.481	2.487	2.487	2.486	2.497	2.513	2.543	2.4546
2.729	2.753	2.767	2.771	2.789	2.793	2.805	2.816	2.828	2.828	2.842	2.843	2.7125
2.844	2.836	2.827	2.822	2.816	2.817	—	2.812	2.813	2.815	2.810	2.798	2.8428
2.6284	2.6306	2.6318	2.6323	2.6312	2.6251	2.6191	2.6347	2.6270	2.6269	2.6309	2.6350	2.6356



BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English Inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	2.789	2.775	2.748	2.743	2.740	2.737	2.714	2.690	2.669	2.666	2.660	2.656
	2	2.823	2.871	2.887	2.900	2.900	2.893	2.892	2.875	2.875	2.876	2.876	2.869
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	2.745	2.769	2.795	2.783	2.773	2.759	2.730	2.706	2.696	2.691	2.660	2.632
	5	2.504	2.517	2.533	2.528	2.528	2.535	2.513	2.485	2.481	2.481	2.492	2.506
	6	2.456	2.464	2.464	2.446	2.460	2.429	2.409	2.399	2.379	2.372	2.359	2.358
	7	2.131	2.129	2.131	2.125	2.118	2.104	2.080	2.056	2.046	2.046	2.046	2.050
	8	2.331	2.359	2.395	2.401	2.407	2.403	2.395	2.383	2.386	2.402	2.403	2.419
	9	2.559	2.579	2.585	2.605	2.607	2.617	2.621	2.621	2.632	2.648	2.664	2.686
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	2.540	2.552	2.566	2.580	2.582	2.586	2.584	2.568	2.584	2.607	2.606	2.638
	12	2.423	2.405	2.467	2.313	2.300	2.275	2.233	2.227	2.181	2.159	2.158	2.150
	13	2.480	2.511	2.525	2.549	2.561	2.561	2.556	2.546	2.550	2.562	2.580	2.606
	14	2.763	2.788	2.814	2.842	2.859	2.859	2.849	2.848	2.858	2.872	2.878	2.880
	15	2.812	2.802	2.834	2.822	2.818	2.810	2.784	2.784	2.770	2.766	2.778	2.783
	16	2.859	2.867	2.873	2.877	2.886	2.874	2.872	2.865	2.868	2.858	2.859	2.864
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	2.519	2.556	2.596	2.618	2.636	2.640	2.636	2.636	2.656	2.686	2.744	2.770
	19	2.849	2.852	2.844	2.823	2.819	2.779	2.740	2.718	2.679	2.664	2.654	2.662
	20	2.652	2.644	2.661	2.676	2.681	2.670	2.638	2.635	2.629	2.630	2.636	2.646
	21	2.760	2.776	2.776	2.772	2.755	2.753	2.695	2.680	2.660	2.633	2.634	2.643
	22	2.573	2.563	2.533	2.523	2.484	2.458	2.416	2.380	2.352	2.332	2.330	2.326
	23	2.150	2.150	2.133	2.119	2.099	2.065	2.077	2.060	2.052	2.076	2.099	2.100
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	2.736	2.776	2.798	2.805	2.839	2.851	2.850	2.864	2.890	2.911	2.926	2.957
	26	2.780	2.730	2.674	2.618	2.555	2.486	2.398	2.303	2.253	2.217	2.218	2.218
	27	2.777	2.839	2.876	2.928	2.955	2.963	2.954	2.935	2.933	2.941	2.956	2.956
	28	2.719	2.699	2.668	2.646	2.640	2.612	2.583	2.579	2.571	2.575	2.585	2.588
	29	2.731	2.746	2.762	2.771	2.791	2.798	2.776	2.757	2.769	2.759	2.756	2.770
	30	2.671	2.679	2.683	2.677	2.679	2.671	2.671	2.641	2.626	2.613	2.626	2.624
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.6205	2.6307	2.6393	2.6342	2.6335	2.6226	2.6025	2.5862	2.5787	2.5786	2.5840	2.5907	
DECEMBER.	2	2.959	2.987	3.015	3.033	3.072	3.083	3.081	3.092	3.106	3.117	3.127	3.140
	3	2.970	2.972	2.971	2.964	2.958	2.927	2.906	2.881	2.867	2.854	2.850	2.829
	4	2.688	2.706	2.682	2.692	2.682	2.667	2.654	2.623	2.611	2.618	2.617	2.639
	5	2.727	2.759	2.793	2.806	2.761	2.750	2.767	2.745	2.727	2.717	2.727	2.719
	6	2.751	2.796	2.850	2.845	2.855	2.837	2.811	2.768	2.733	2.724	2.706	2.669
	7	2.041	2.007	2.003	1.987	2.006	2.008	1.994	1.997	2.007	2.044	2.064	2.063
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	2.819	2.813	2.801	2.809	2.796	2.762	2.724	2.696	2.689	2.683	2.673	2.676
	10	2.770	2.802	2.820	2.834	2.854	2.854	2.852	2.856	2.865	2.874	2.881	2.902
	11	2.904	2.903	2.915	2.935	2.935	2.924	2.905	2.883	2.861	2.840	2.840	2.817
	12	2.654	2.646	2.646	2.639	2.628	2.607	2.562	2.535	2.513	2.496	2.488	2.479
	13	2.320	2.312	2.319	2.306	2.307	2.285	2.262	2.250	2.242	2.250	2.264	2.272
	14	2.310	2.324	2.322	2.318	2.325	2.303	2.294	2.278	2.270	2.288	2.296	2.309
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	2.381	2.394	2.402	2.410	2.420	2.420	2.412	2.403	2.401	2.398	2.418	2.440
	17	2.480	2.504	2.506	2.507	2.512	2.496	2.464	2.447	2.438	2.433	2.429	2.431
	18	2.609	2.615	2.609	2.606	2.607	2.576	2.537	2.519	2.502	2.507	2.510	2.503
	19	2.558	2.571	2.583	2.594	2.605	2.605	2.579	2.578	2.580	2.595	2.607	2.638
	20	2.831	2.838	2.840	2.848	2.864	2.852	2.833	2.816	2.810	2.795	2.805	2.797
	21	2.496	2.456	2.446	2.420	2.389	2.343	2.261	2.200	2.156	2.132	2.129	2.128
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	1.975	1.987	1.975	1.970	1.996	1.996	1.980	1.974	1.996	2.032	2.065	2.103
	24	2.376	2.387	2.403	2.459	2.463	2.457	2.452	2.447	2.448	2.466	2.463	2.488
	25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	2.246	2.251	2.259	2.249	2.258	2.228	2.236	2.254	2.297	2.327	2.389	2.423
	27	2.628	2.637	2.655	2.694	2.686	2.671	2.659	2.637	2.644	2.643	2.649	2.637
	28	2.515	2.508	2.510	2.510	2.506	2.491	2.478	2.475	2.472	2.502	2.521	2.531
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	2.111	2.080	2.063	2.054	2.083	2.107	2.143	2.169	2.196	2.234	2.276	2.294
	31	2.694	2.699	2.706	2.716	2.704	2.665	2.638	2.614	2.602	2.580	2.553	2.513
	Hourly Means	2.5525	2.5582	2.5638	2.5682	2.5709	2.5566	2.5394	2.5255	2.5213	2.5260	2.5339	2.5376

<sup>a</sup> Christmas Day.

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.676	2.681	2.687	2.688	2.703	2.729	2.745	2.765	2.771	2.773	2.803	2.804	2.7255
2.869	2.870	2.858	2.860	2.840	2.837	—	—	—	—	—	—	2.8301
—	—	—	—	—	—	2.675	2.691	2.705	2.717	2.725	2.739	2.6445
2.627	2.613	2.613	2.597	2.581	2.563	2.553	2.531	2.525	2.515	2.506	2.504	2.4957
2.516	2.516	2.513	2.501	2.472	2.472	2.473	2.471	2.477	2.470	2.458	2.456	2.3411
2.370	2.363	2.357	2.342	2.304	2.293	2.261	2.218	2.200	2.169	2.159	2.155	2.1296
2.070	2.076	2.094	2.098	2.122	2.138	2.162	2.196	2.242	2.258	2.292	2.301	2.4313
2.427	2.427	2.443	2.463	2.471	2.471	2.474	2.474	2.475	2.497	2.510	2.536	—
2.697	2.699	2.697	2.699	2.696	2.712	—	—	—	—	—	—	2.6132
—	—	—	—	—	—	2.509	2.509	2.519	2.513	2.515	2.527	2.5838
2.638	2.642	2.638	2.630	2.630	2.618	2.612	2.579	2.565	2.527	2.485	2.455	2.2965
2.176	2.180	2.223	2.263	2.300	2.322	2.363	2.341	2.383	2.405	2.414	2.454	2.6103
2.620	2.635	2.632	2.634	2.646	2.651	2.671	2.681	2.704	3.711	2.723	2.753	2.8475
2.880	2.873	2.867	2.881	2.858	2.852	2.844	2.840	2.833	2.837	2.837	2.828	2.8059
2.788	2.793	2.797	2.802	2.800	2.799	2.807	2.822	2.830	2.836	2.852	2.852	—
2.858	2.856	2.854	2.854	2.853	2.845	—	—	—	—	—	—	2.7684
—	—	—	—	—	—	2.427	2.447	2.483	2.506	2.518	2.519	2.7512
2.802	2.831	2.840	2.864	2.874	2.872	2.890	2.882	2.882	2.876	2.861	2.861	2.7037
2.672	2.678	2.670	2.656	2.642	2.638	2.642	2.646	2.644	2.640	2.634	2.644	2.6841
2.652	2.683	2.683	2.711	2.722	2.725	2.730	2.735	2.752	2.741	2.735	2.751	2.6755
2.653	2.661	2.650	2.655	2.636	2.652	2.650	2.653	2.651	2.631	2.603	2.581	2.3531
2.326	2.334	2.330	2.318	2.306	2.276	2.270	2.256	2.236	2.206	2.196	2.150	—
2.102	2.123	2.149	2.172	2.219	2.231	—	—	—	—	—	—	2.2582
—	—	—	—	—	—	2.636	2.646	2.656	2.662	2.694	2.727	2.8860
2.972	2.978	2.975	2.954	2.961	2.948	2.940	2.924	2.898	2.890	2.800	2.820	2.4667
2.223	2.270	2.304	2.385	2.404	2.437	2.484	2.547	2.624	2.654	2.692	2.726	2.9017
2.972	2.973	2.973	2.961	2.949	2.826	2.910	2.887	2.881	2.809	2.755	2.731	2.6432
2.598	2.614	2.641	2.631	2.643	2.667	2.681	2.677	2.687	2.699	2.714	2.719	2.6722
2.763	2.768	2.758	2.761	2.746	2.732	2.719	2.693	2.689	2.678	2.672	2.669	—
2.634	2.622	2.620	2.612	2.602	2.601	—	—	—	—	—	—	2.6977
—	—	—	—	—	—	2.757	2.814	2.858	2.910	2.923	2.929	—
2.5993	2.6061	2.6102	2.6151	2.6146	2.6118	2.6110	2.6125	2.6219	2.6204	2.6183	2.6220	2.6110
3.131	3.125	3.117	3.093	3.099	3.081	3.077	3.046	3.045	3.030	2.994	2.972	3.0676
2.827	2.798	2.799	2.791	2.781	2.744	2.731	2.725	2.720	2.710	2.704	2.688	2.8316
2.639	2.655	2.669	2.665	2.687	2.687	2.704	2.731	2.763	2.773	2.769	2.743	2.7690
2.726	2.729	2.747	2.776	2.785	2.795	2.805	2.793	2.809	2.840	2.825	2.829	2.5949
2.656	2.620	2.584	2.536	2.504	2.462	2.413	2.373	2.313	2.182	2.178	2.111	—
2.082	2.109	2.169	2.256	2.377	2.443	—	—	—	—	—	—	2.2900
—	—	—	—	—	—	2.935	2.911	2.901	2.878	2.850	2.829	2.7217
2.677	2.679	2.682	2.690	2.696	2.700	2.700	2.694	2.687	2.709	2.724	2.742	2.8878
2.916	2.920	2.923	2.925	2.926	2.930	2.936	2.936	2.944	2.940	2.930	2.916	2.8094
2.803	2.790	2.776	2.768	2.744	2.727	2.711	2.694	2.708	2.698	2.676	2.668	2.4876
2.477	2.469	2.446	2.426	2.420	2.406	2.391	2.379	2.373	2.365	2.333	2.325	2.2838
2.271	2.275	2.271	2.278	2.280	2.284	2.293	2.280	2.296	2.304	2.295	2.294	—
2.328	2.332	2.354	2.350	2.344	2.350	—	—	—	—	—	—	2.3362
—	—	—	—	—	—	2.416	2.407	2.405	2.391	2.377	2.378	2.4340
2.446	2.455	2.455	2.457	2.458	2.454	2.447	2.458	2.466	2.480	2.480	2.462	2.4912
2.417	2.439	2.457	2.478	2.488	2.502	2.507	2.521	2.560	2.576	2.583	2.614	2.5502
2.510	2.535	2.540	2.540	2.543	2.547	2.545	2.538	2.556	2.556	2.541	2.552	2.6684
2.651	2.672	2.686	2.706	2.737	2.749	2.750	2.778	2.797	2.807	2.804	2.812	2.7436
2.771	2.761	2.738	2.709	2.707	2.683	2.655	2.639	2.613	2.598	2.531	2.512	—
2.109	2.102	2.096	2.086	2.090	2.098	—	—	—	—	—	—	2.1744
—	—	—	—	—	—	2.011	2.002	2.034	2.019	1.997	1.985	2.1371
2.135	2.160	2.194	2.227	2.253	2.277	2.295	2.308	2.342	2.342	2.354	2.354	—
2.502	2.515	2.527	2.533	2.547	2.561	—	—	—	—	—	—	2.4238
—	—	—	—	—	—	2.294	2.293	2.293	2.286	2.270	2.242	2.4199
2.473	2.504	2.517	2.526	2.548	2.562	2.577	2.578	2.591	2.599	2.584	2.601	2.6225
2.637	2.645	2.625	2.605	2.600	2.596	2.583	2.592	2.583	2.567	2.544	2.522	—
2.539	2.537	2.545	2.551	2.549	2.549	—	—	—	—	—	—	2.4614
—	—	—	—	—	—	2.434	2.378	2.334	2.282	2.008	2.149	2.3306
2.336	2.378	2.394	2.430	2.464	2.496	2.438	2.574	2.624	2.652	2.664	2.675	2.4961
2.488	2.456	2.422	2.362	2.326	2.284	2.270	2.274	2.313	2.334	2.342	2.352	—
2.5419	2.5461	2.5494	2.5506	2.5581	2.5587	2.5567	2.5561	2.5628	2.5567	2.5423	2.5331	2.5486

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	23.8	24.0	24.4	25.2	25.2	26.2	27.6	28.5	29.6	31.1	28.7	26.5
	2	28.0	29.4	30.2	31.2	31.2	32.1	32.7	32.4	33.3	33.3	33.3	34.1
	3	36.4	36.4	36.8	37.0	36.6	35.6	35.4	35.5	34.1	33.6	33.3	33.1
	4	30.0	27.4	26.0	24.8	23.8	23.8	23.2	23.0	23.5	23.5	23.7	23.4
	5	21.0	20.6	19.8	20.2	21.0	21.6	23.2	23.3	24.8	25.2	24.5	22.0
	6	23.6	24.4	24.8	25.6	26.4	26.8	27.6	29.0	28.7	28.5	28.7	29.5
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	12.6	13.6	14.6	15.2	16.5	18.6	19.0	19.4	20.2	19.6	19.2	18.5
	9	15.4	16.6	20.4	21.4	21.8	22.4	22.8	22.6	22.7	22.9	23.8	24.7
	10	26.6	26.0	25.8	26.4	26.7	27.8	29.0	28.1	27.7	26.7	25.4	24.8
	11	3.6	0.6	3.8	7.8	12.0	16.2	19.4	20.5	20.8	21.1	21.2	21.8
	12	29.4	30.6	31.8	32.8	34.0	34.8	35.2	34.8	35.2	34.8	34.8	34.9
	13	37.0	36.0	36.0	34.4	31.4	31.0	31.2	31.7	33.2	32.2	31.6	30.7
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	28.6	29.8	30.2	31.0	32.0	32.4	32.6	32.5	31.9	31.3	32.4	32.4
	16	34.0	34.6	35.2	35.6	38.2	40.0	41.2	41.2	41.1	40.5	39.4	38.9
	17	31.0	30.8	30.8	30.4	30.4	30.4	30.6	30.4	30.4	29.8	39.5	28.8
	18	23.8	23.4	23.2	25.2	27.0	27.2	27.6	28.3	29.1	28.6	28.3	27.0
	19	16.8	17.0	17.0	18.0	17.4	17.0	19.4	19.9	21.4	21.3	21.0	20.6
	20	7.6	6.6	6.2	7.6	10.0	12.2	14.4	15.6	16.4	16.0	14.1	13.4
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	11.8	11.4	12.6	14.8	15.8	16.4	16.8	17.5	18.4	19.4	23.7	24.5
	23	34.6	35.4	37.0	36.8	37.8	40.0	45.0	43.5	43.5	43.4	42.8	40.6
	24	29.6	28.0	27.8	28.0	25.2	27.0	24.0	23.6	19.3	19.5	19.2	17.4
	25	- 0.6	- 1.8	- 2.8	- 3.4	- 3.0	- 0.4	0.6	1.8	3.5	5.4	5.5	3.8
	26	- 2.8	- 4.0	- 4.6	- 3.2	- 2.6	- 1.0	1.2	4.2	7.2	8.4	7.8	6.3
	27	- 5.4	- 6.0	- 5.8	- 4.6	- 2.6	0.0	3.0	5.3	7.9	9.1	8.9	5.8
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	- 1.4	- 1.8	- 2.8	- 2.2	- 0.2	2.4	3.4	4.2	5.8	6.2	5.6	5.3
	30	9.2	9.8	10.4	11.6	13.2	14.6	16.3	16.5	16.4	16.5	15.8	15.1
	31	0.9	0.6	- 0.4	0.6	3.0	5.4	8.0	10.4	12.4	13.0	13.4	12.2
Hourly Means	18.71	18.50	18.83	19.56	20.30	21.50	22.61	23.10	23.65	23.74	23.54	22.82	
FEBRUARY.	1	1.2	1.2	4.8	8.4	13.4	21.8	23.2	23.8	24.2	24.5	23.6	23.8
	2	21.2	20.8	21.2	23.2	24.8	26.2	26.2	28.1	28.5	29.1	29.3	26.8
	3	23.6	22.0	18.8	20.6	22.4	23.4	24.8	25.5	26.4	26.7	24.8	23.2
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	31.4	31.4	31.8	32.4	32.8	33.7	34.2	34.9	34.9	35.3	35.0	34.2
	6	32.8	32.8	32.8	33.4	34.0	34.8	35.8	36.7	35.1	35.0	34.0	33.5
	7	19.6	19.6	20.0	21.2	24.0	26.2	27.2	28.5	28.8	29.8	27.9	26.8
	8	19.2	18.6	18.8	19.4	22.6	25.4	28.6	29.3	29.9	28.9	28.2	26.4
	9	9.6	9.2	9.2	9.8	10.4	11.6	12.8	14.7	15.8	16.4	15.5	13.7
	10	16.6	17.2	17.4	18.8	20.2	21.8	23.6	25.4	26.8	28.0	27.9	26.9
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	15.2	14.6	18.0	21.4	25.1	26.4	27.6	29.7	32.3	33.5	33.5	32.1
	13	32.6	31.8	32.8	32.8	34.2	35.2	36.6	36.8	39.2	39.0	36.4	36.5
	14	23.2	22.2	21.4	22.4	23.0	24.8	25.6	27.7	28.8	29.7	31.0	26.3
	15	25.6	25.6	26.4	29.0	30.4	31.8	31.8	31.6	32.5	31.9	31.2	32.2
	16	29.8	29.2	29.6	31.0	32.0	34.2	35.0	35.2	33.5	34.1	33.8	33.3
	17	21.4	20.4	20.2	20.4	20.1	21.2	22.4	23.5	23.2	21.9	19.1	15.7
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	25.6	26.6	27.6	29.0	30.7	32.2	33.0	35.5	37.6	39.2	39.8	37.5
	20	35.0	35.2	36.4	38.8	40.0	39.6	41.2	43.2	43.0	44.3	43.3	41.3
	21	35.4	34.2	35.4	35.8	36.3	37.6	39.6	40.8	38.3	38.3	38.4	36.6
	22	30.4	29.8	32.2	35.0	36.6	38.8	41.6	44.4	46.0	47.4	47.6	47.1
	23	32.6	32.8	33.0	33.2	33.4	32.8	31.2	30.2	30.2	29.7	28.6	27.2
	24	10.0	9.1	10.5	12.4	14.6	17.8	19.0	21.4	22.9	24.3	24.0	24.2
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	25.0	23.4	25.8	30.8	35.8	37.0	38.7	40.8	37.8	36.4	36.0	35.6
	27	31.8	31.6	31.2	31.6	31.0	30.8	31.4	32.4	33.7	34.5	35.2	33.8
	28	24.0	23.2	25.4	29.0	31.9	32.0	35.4	35.5	36.5	36.0	33.2	32.3
	29	34.6	34.4	34.8	36.0	36.2	36.6	37.8	37.7	39.7	42.1	40.4	40.2
Hourly Means	24.29	23.88	24.62	26.23	27.84	29.35	30.57	31.73	32.22	32.64	31.91	30.69	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
24.8	23.2	22.2	22.0	22.1	23.2	24.2	24.9	26.0	26.3	27.2	27.6	25.60
34.7	33.9	34.1	34.8	34.8	34.8	35.2	35.4	35.5	35.8	36.2	36.4	33.45
32.1	32.1	31.9	31.2	30.2	28.5	28.0	27.6	28.2	28.7	30.2	31.4	32.66
22.8	22.4	22.2	22.1	20.8	20.6	20.7	21.4	21.4	21.5	21.4	21.2	23.11
20.1	17.5	16.8	18.7	19.9	20.5	19.8	18.8	19.0	21.0	22.4	23.2	21.04
29.4	29.5	29.1	29.0	29.4	29.8	—	—	—	—	—	—	—
—	—	—	—	—	—	16.6	17.6	17.6	16.6	16.0	14.8	24.96
19.0	18.2	17.6	16.1	15.0	15.4	13.1	10.0	12.2	12.9	13.8	14.4	16.03
25.2	25.7	25.7	25.8	25.8	25.8	26.2	26.9	27.5	28.4	27.7	27.4	23.98
22.4	19.5	19.6	20.1	20.7	18.4	16.3	14.2	10.9	12.0	10.9	6.8	21.37
21.9	22.8	23.1	24.3	24.6	25.7	26.4	27.0	27.8	27.5	27.6	28.6	19.84
34.7	34.1	35.2	36.5	36.7	37.4	37.4	37.2	37.2	39.2	40.6	39.2	35.35
29.8	29.4	28.2	27.8	27.6	27.5	—	—	—	—	—	—	—
—	—	—	—	—	—	23.5	22.8	22.0	22.7	23.8	24.2	29.40
32.9	33.6	44.3	35.2	35.2	34.7	35.0	33.7	33.5	32.8	33.2	33.6	32.70
38.0	38.4	38.0	37.6	38.8	37.1	35.9	36.0	35.5	35.4	34.7	33.4	37.45
28.2	27.3	26.7	26.3	26.4	26.1	26.2	26.0	25.4	25.0	24.6	23.6	28.13
26.2	25.6	25.6	25.4	24.8	23.7	22.9	22.3	22.0	20.2	18.3	16.6	24.68
20.2	20.2	18.4	15.7	14.5	13.3	12.5	11.7	11.2	10.2	9.5	8.7	16.37
13.9	14.6	12.9	12.0	11.7	11.5	—	—	—	—	—	—	—
—	—	—	—	—	—	10.5	10.7	10.6	10.8	11.2	11.6	11.75
24.2	26.2	27.0	27.8	29.1	29.9	30.6	31.5	32.4	33.2	33.6	34.0	23.44
38.7	38.8	37.4	37.8	37.0	36.0	34.6	32.8	31.0	31.2	31.0	31.0	37.40
14.7	12.4	11.4	10.4	7.8	5.6	4.0	2.6	1.3	0.9	0.8	0.1	15.02
3.0	2.5	2.4	1.6	0.3	- 0.5	- 1.2	- 1.8	- 1.9	- 2.1	- 1.9	- 2.2	0.28
5.1	3.7	2.8	1.8	1.0	- 0.3	- 1.1	- 2.0	- 2.8	- 3.8	- 4.4	- 5.2	0.49
4.7	3.4	3.0	2.8	3.0	3.0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	1.7	0.1	- 1.2	- 1.7	- 1.0	1.45
5.7	6.6	7.5	8.0	7.5	7.6	8.1	8.0	7.7	7.5	8.0	8.4	4.80
13.9	11.5	10.3	9.4	8.4	7.2	7.4	4.8	2.2	- 1.2	- 0.5	1.4	10.01
6.4	7.2	6.4	8.7	8.2	6.8	6.4	7.2	7.8	7.0	3.9	2.2	6.57
21.95	21.49	21.10	21.07	20.79	20.34	19.97	18.85	18.57	18.46	18.45	18.20	20.67
23.4	24.0	22.7	22.2	22.2	22.7	23.0	23.8	22.7	22.2	21.8	20.2	19.37
24.1	22.2	19.1	14.6	12.2	12.7	14.9	18.7	20.9	22.7	22.7	23.6	22.24
15.4	13.2	12.0	13.3	13.2	12.2	—	—	—	—	—	—	—
—	—	—	—	—	—	29.4	30.0	30.5	31.4	31.7	32.0	22.73
34.0	34.2	34.1	33.8	33.7	33.5	32.8	32.9	33.2	33.0	32.8	32.6	33.44
32.5	32.8	31.7	29.5	28.2	27.2	26.1	23.7	17.2	15.0	18.2	19.0	29.66
25.2	21.2	18.0	17.4	16.4	19.6	19.4	22.4	22.5	22.2	22.2	20.6	22.78
26.0	25.7	25.2	25.0	24.2	24.8	23.4	21.3	18.2	16.2	14.3	11.4	22.96
11.0	9.8	8.4	28.2	5.2	6.8	11.4	14.2	16.1	16.7	16.2	16.2	12.04
25.6	24.2	22.4	21.1	22.4	21.6	—	—	—	—	—	—	—
—	—	—	—	—	—	21.6	20.5	19.3	18.3	18.2	19.0	21.87
31.8	31.4	30.2	30.7	31.2	30.3	31.8	31.9	32.9	33.1	32.4	32.6	28.74
35.8	34.8	34.9	33.8	32.5	30.4	29.5	28.6	28.0	27.0	26.2	24.4	32.91
23.3	21.4	19.8	20.0	18.5	17.8	17.0	15.5	18.7	21.4	19.8	19.8	22.46
32.0	31.8	31.4	30.7	30.6	29.7	28.9	28.8	30.3	30.7	30.2	30.0	30.21
32.5	31.7	29.7	28.7	26.7	26.5	26.4	26.0	26.5	26.0	24.8	23.0	29.97
12.2	11.1	10.7	10.8	10.8	11.0	—	—	—	—	—	—	—
—	—	—	—	—	—	26.9	26.2	25.8	25.7	25.8	25.6	19.67
37.2	35.8	34.3	34.1	34.1	34.0	33.4	32.5	32.8	33.5	33.2	34.6	33.49
39.2	41.7	40.2	37.0	33.8	32.5	35.4	35.8	36.2	35.4	35.7	35.8	38.33
36.0	37.0	36.8	35.9	35.2	34.3	33.7	33.8	32.8	30.2	30.9	29.4	35.53
42.3	38.4	35.4	33.6	32.2	30.4	28.2	27.8	27.8	28.2	29.1	31.0	35.89
26.6	26.2	26.4	25.0	25.0	24.0	22.8	19.2	17.0	14.6	12.9	11.7	26.10
19.8	16.5	14.8	14.9	14.1	13.8	—	—	—	—	—	—	—
—	—	—	—	—	—	22.8	22.5	23.0	23.6	24.8	25.0	18.57
34.6	33.9	33.8	34.3	34.5	34.8	34.8	36.7	36.8	35.1	34.2	33.2	34.16
30.8	29.2	28.8	28.2	28.0	27.8	27.3	27.2	27.5	26.9	26.1	25.0	30.07
30.0	30.2	30.9	31.7	32.7	33.2	33.2	33.2	33.8	33.6	33.5	34.0	31.85
38.2	38.9	40.4	41.2	40.8	39.8	38.4	36.8	36.4	36.0	36.8	37.0	37.97
28.78	27.89	26.88	26.23	25.54	25.25	26.90	26.80	26.68	26.35	26.18	25.83	27.72

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	37.0	36.8	37.8	39.4	41.2	41.6	41.3	41.8	42.6	39.8	40.0	40.1
	2	36.4	36.2	35.6	36.0	36.8	37.8	38.5	38.9	40.8	38.8	38.0	35.8
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	18.0	16.4	16.0	17.6	18.6	19.8	21.8	23.1	25.0	26.3	26.1	26.0
	5	12.0	14.6	15.4	20.2	24.5	30.0	32.4	35.2	37.6	37.4	35.4	35.0
	6	26.6	27.0	29.8	33.8	35.4	37.0	38.8	37.0	38.5	38.7	36.1	34.6
	7	30.0	30.2	33.2	36.4	38.0	39.2	41.4	42.7	43.8	41.4	40.6	41.2
	8	32.6	33.2	34.6	38.4	39.6	40.0	39.0	39.0	39.8	40.0	41.5	41.6
	9	31.2	30.2	30.0	31.4	33.0	33.6	34.8	36.0	36.2	35.2	34.7	35.7
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	29.4	30.2	33.0	37.6	39.2	42.2	45.0	49.0	49.6	48.0	45.4	43.4
	12	36.4	38.0	40.8	42.2	45.0	44.0	43.0	41.6	40.3	40.4	40.2	39.9
	13	39.0	39.6	40.0	42.4	45.4	45.8	46.8	45.7	45.5	43.8	43.2	41.6
	14	29.2	28.8	28.8	29.4	30.6	32.6	33.8	34.0	35.2	35.4	35.6	32.8
	15	30.6	31.0	30.4	30.4	30.8	30.4	32.0	33.3	33.9	33.5	34.3	34.3
	16	35.6	34.8	35.0	35.6	35.2	35.4	36.0	37.3	37.8	38.4	37.6	36.8
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	18.2	19.2	17.8	19.2	19.8	20.5	20.4	20.4	18.4	16.8	16.3	15.3
	19	14.4	16.0	17.6	21.6	25.0	26.8	28.8	30.5	33.5	32.8	30.6	29.0
	20	30.8	31.4	30.4	30.2	30.4	30.4	30.8	30.5	30.2	30.0	29.5	29.7
	21	15.4	14.8	16.7	19.1	20.8	22.8	24.4	26.5	28.0	29.1	30.2	30.6
	22	26.0	26.0	26.6	26.6	27.0	28.4	28.8	31.2	32.0	33.1	32.9	33.6
	23	20.2	20.8	22.2	24.2	26.4	28.0	30.0	31.8	33.0	34.2	36.7	37.4
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	42.0	42.6	45.2	44.6	44.4	42.4	42.8	44.6	46.5	49.5	50.7	49.5
	26	32.8	33.8	36.0	40.4	41.2	42.2	45.0	46.8	48.6	45.2	41.2	39.9
	27	33.4	33.2	32.0	31.8	31.6	30.9	31.2	31.7	33.1	33.3	32.9	32.8
	28	39.0	39.8	40.2	40.0	40.2	41.0	41.0	41.2	42.7	42.3	42.6	43.5
	29	25.4	23.2	23.6	25.0	27.8	30.2	32.2	34.4	33.2	33.4	32.2	31.8
	30	19.8	20.4	21.0	20.4	20.4	21.0	22.2	23.2	24.3	25.7	26.2	28.4
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	28.52	28.78	29.60	31.30	32.63	33.62	34.70	35.67	36.54	36.25	35.80	35.40	
APRIL.	1	21.4	24.8	29.8	31.8	32.4	34.2	35.4	37.3	37.3	39.2	38.8	37.4
	2	33.2	34.8	37.0	38.4	39.5	40.5	41.5	43.7	44.8	45.5	44.2	42.8
	3	36.0	37.4	43.0	45.8	49.0	50.8	51.2	57.2	58.3	61.5	62.4	70.0
	4	47.2	47.6	49.8	54.6	55.2	55.5	55.5	60.0	57.4	63.4	53.4	48.6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	38.8	39.0	38.8	38.6	37.8	37.6	38.0	39.8	39.7	40.1	39.5	39.3
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	35.6	40.8	43.8	48.6	47.4	52.0	53.8	60.1	66.1	67.1	63.1	65.5
	9	42.2	45.0	48.2	52.4	55.2	57.5	58.6	57.5	56.7	59.7	61.3	62.0
	10	36.0	41.6	47.4	49.4	52.8	55.8	59.4	62.8	67.4	67.6	67.6	65.2
	11	41.5	46.6	49.0	51.8	53.2	51.8	53.8	57.0	63.9	59.7	64.5	60.5
	12	43.4	49.0	54.8	57.2	60.0	61.5	63.8	65.5	66.2	69.7	66.4	63.4
	13	44.8	48.2	54.0	58.5	60.2	64.4	66.2	69.7	70.8	72.0	70.1	69.5
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	55.0	56.2	56.8	59.8	61.0	58.8	58.4	57.3	55.1	55.1	56.6	54.2
	16	46.4	44.8	45.6	50.0	52.8	61.0	60.2	60.8	59.7	59.8	60.2	59.1
	17	38.6	39.4	40.0	41.8	41.9	43.5	46.7	47.4	48.7	49.6	49.8	50.3
	18	32.0	35.8	38.8	41.4	43.4	45.2	45.2	46.4	48.2	49.3	49.3	48.5
	19	30.4	36.4	40.4	42.7	47.0	49.6	53.4	56.8	56.8	55.0	53.0	56.0
	20	35.8	42.8	46.8	49.4	51.4	54.6	57.0	57.3	60.1	58.2	56.5	58.7
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	50.0	50.4	51.0	51.6	51.8	50.4	48.8	50.4	49.4	53.6	51.8	50.6
	23	49.0	50.8	51.8	52.6	55.4	56.4	59.2	59.8	60.1	63.8	63.2	66.0
	24	50.4	53.8	56.0	55.8	64.0	65.0	66.8	75.0	73.9	70.4	68.0	66.4
	25	39.8	43.0	47.6	50.8	52.2	54.9	56.2	57.7	59.5	56.5	54.8	54.4
	26	47.2	45.8	47.4	49.6	48.6	47.2	47.0	46.9	46.5	44.6	43.4	42.1
	27	34.8	36.0	38.0	40.6	41.4	44.8	44.8	46.7	47.9	47.9	49.8	48.9
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	38.4	44.8	47.8	50.4	52.8	54.6	56.4	58.1	60.2	59.9	61.7	65.6
	30	39.8	44.8	47.8	51.4	54.7	53.4	59.5	62.5	59.0	58.5	56.6	55.5
Hourly Means	40.31	43.18	46.06	48.60	50.44	52.02	53.59	55.75	56.55	57.11	56.24	56.02	

\* Good Friday.

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
39.4	38.4	38.8	39.3	42.7	49.3	48.9	48.0	41.8	39.9	38.3	37.4	40.90
35.2	34.6	34.2	32.2	31.8	31.2	—	—	—	—	—	—	33.21
—	—	—	—	—	—	28.3	26.5	25.4	24.4	23.3	20.4	18.30
23.0	21.0	19.5	18.5	18.0	14.2	13.2	12.6	11.1	10.9	11.2	11.4	30.38
35.7	35.9	35.7	34.8	34.7	35.1	33.9	32.8	31.5	30.4	30.0	29.0	32.74
33.2	32.7	31.1	31.4	31.8	30.2	30.6	30.7	30.3	30.6	30.3	29.6	35.26
37.5	35.4	33.0	32.5	31.5	30.5	30.6	30.6	30.8	31.4	31.8	32.6	38.35
41.0	42.5	41.9	41.7	40.3	39.7	38.7	37.2	36.5	35.0	34.4	32.2	31.67
32.8	29.7	29.2	28.4	27.8	27.6	—	—	—	—	—	—	38.95
—	—	—	—	—	—	33.3	30.8	29.9	29.7	29.4	29.4	40.35
38.3	37.5	38.5	37.9	37.3	37.1	36.7	35.8	35.2	35.4	36.0	37.0	38.41
39.7	40.0	40.1	39.8	39.4	39.5	39.4	39.8	39.8	39.7	39.9	39.4	39.98
40.4	39.6	38.4	35.2	32.7	32.0	31.3	31.0	30.7	31.5	30.3	30.0	33.73
30.4	28.9	28.2	28.7	29.0	30.1	30.4	30.5	31.2	30.0	30.0	30.0	31.31
34.5	35.1	35.1	35.5	35.2	35.5	35.4	35.6	35.8	36.2	35.4	35.4	16.63
34.8	33.4	32.4	30.7	30.2	30.3	—	—	—	—	—	—	27.22
—	—	—	—	—	—	23.2	22.2	20.5	20.4	19.2	18.6	26.63
15.0	14.7	14.5	14.4	14.5	13.8	15.2	14.9	14.8	15.0	15.2	14.8	24.57
28.6	28.0	27.8	27.8	28.3	28.6	28.8	28.8	29.5	29.4	30.2	31.0	27.56
29.5	29.1	28.0	26.7	25.5	24.5	22.5	20.6	18.4	16.8	16.8	16.5	31.09
27.0	26.8	26.7	26.0	25.4	25.6	25.5	26.1	25.5	25.4	25.6	25.6	39.80
32.0	27.8	28.4	27.5	26.7	26.0	25.6	25.0	24.6	22.6	22.1	21.0	38.24
35.4	30.1	27.3	26.0	24.8	23.7	—	—	—	—	—	—	33.12
—	—	—	—	—	—	36.5	39.8	40.4	40.6	38.9	37.8	38.48
43.5	37.8	32.5	31.8	32.0	34.3	35.9	34.1	31.7	31.8	32.5	32.4	27.92
38.5	37.7	36.2	35.2	34.8	34.9	34.5	34.0	34.8	35.0	34.8	34.2	21.69
33.0	33.1	34.1	33.0	32.8	32.0	33.2	33.6	33.5	34.3	36.7	37.6	33.83
45.0	43.0	41.4	37.8	37.2	36.4	34.8	33.0	32.7	31.3	30.0	27.4	31.83
31.6	31.9	31.1	29.4	27.5	25.9	24.7	24.0	23.2	21.8	21.4	25.2	31.83
28.1	24.7	22.4	20.8	20.4	19.8	—	—	—	—	—	—	31.83
—	—	—	—	—	—	19.3	17.9	18.7	19.5	18.0	18.0	31.83
33.97	32.67	31.79	30.88	30.47	30.30	30.40	29.84	29.17	28.81	28.53	28.23	31.83
33.6	31.7	31.3	31.9	31.9	31.5	32.3	32.5	32.8	32.8	32.5	32.4	32.79
41.4	39.4	40.8	41.2	39.0	38.5	37.0	38.1	38.7	40.0	38.2	36.4	39.77
67.6	60.2	49.2	45.5	47.2	52.4	54.9	55.1	54.3	47.1	46.1	46.6	52.16
47.3	46.7	45.3	44.7	43.8	42.5	—	—	—	—	—	—	47.89
—	—	—	—	—	—	37.4	37.3	38.7	39.2	39.7	39.0	38.31
39.6	39.5	39.7	39.5	39.1	39.0	—	—	—	—	—	—	51.69
—	—	—	—	—	—	36.4	35.7	36.2	36.8	36.0	35.0	48.77
63.6	59.0	56.0	54.8	54.0	49.7	47.4	44.5	42.8	41.6	41.5	41.8	51.30
60.0	51.4	47.5	44.9	42.9	41.7	39.9	38.7	38.3	36.8	36.7	35.4	50.80
62.5	56.4	53.6	50.4	47.3	46.5	42.7	40.5	40.0	38.8	39.4	40.0	54.85
56.8	53.1	51.9	50.8	48.8	47.0	44.8	43.4	42.6	41.4	42.8	42.6	59.08
60.5	54.4	52.4	51.2	49.2	48.2	46.7	49.2	46.0	46.3	47.3	44.2	52.65
60.3	57.2	52.8	51.9	50.6	49.5	—	—	—	—	—	—	51.35
—	—	—	—	—	—	60.1	60.2	58.5	56.6	56.5	55.2	40.20
52.1	50.4	48.8	47.8	46.7	48.8	47.8	47.5	47.0	47.5	48.2	46.8	38.97
57.6	56.4	50.7	48.6	48.0	49.8	47.3	46.0	45.8	43.2	40.0	38.6	44.30
49.2	42.0	38.9	36.2	34.0	33.6	33.4	32.8	32.4	32.1	31.5	31.0	50.67
45.0	40.4	35.8	34.4	35.3	35.1	34.2	31.8	30.7	30.3	29.5	29.2	50.35
50.2	47.9	46.3	45.1	40.7	39.6	37.3	36.8	36.7	35.8	35.0	34.2	55.52
56.0	51.6	47.1	44.2	42.4	40.8	—	—	—	—	—	—	55.69
—	—	—	—	—	—	51.9	51.5	51.2	50.7	50.3	49.8	50.51
49.8	50.3	51.8	52.9	52.3	52.3	49.7	47.0	47.4	49.2	48.0	47.8	42.63
68.2	66.2	52.6	50.6	49.5	55.0	51.6	50.8	51.0	48.7	50.2	50.0	41.35
62.6	57.4	52.8	49.2	48.2	46.8	45.5	44.4	42.9	39.9	41.0	40.4	48.46
52.5	51.2	50.2	49.8	49.2	49.1	47.6	47.5	46.4	47.2	46.6	47.6	52.75
42.1	41.9	41.1	40.0	39.8	39.7	39.8	39.2	37.3	36.6	35.2	34.2	48.11
46.4	45.0	38.0	35.3	34.2	32.9	—	—	—	—	—	—	48.11
—	—	—	—	—	—	44.4	42.8	40.0	38.0	36.2	37.7	48.11
60.7	55.0	48.5	44.0	41.2	40.0	39.0	37.7	36.8	36.9	35.8	36.8	48.11
54.8	52.0	51.6	51.8	51.2	51.2	51.4	51.9	51.9	49.8	50.8	54.0	48.11
53.62	50.27	46.99	45.47	44.26	44.05	44.02	43.32	42.66	41.73	41.40	41.07	48.11

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	55.6	56.2	61.4	63.2	65.5	64.2	64.2	63.6	62.2	62.0	61.7	62.6
	2	52.8	55.6	56.8	58.6	59.0	62.8	65.4	67.7	68.1	71.7	68.7	64.0
	3	50.6	55.0	57.2	58.0	59.2	62.0	62.4	62.4	61.4	60.7	65.1	68.2
	4	50.0	50.4	52.0	53.8	52.0	54.8	57.0	55.5	55.4	56.5	51.8	52.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	48.8	49.4	47.4	47.2	48.2	50.8	55.0	55.7	56.0	57.1	56.7	50.0
	7	49.0	51.0	53.2	54.6	56.0	57.4	59.0	61.4	65.4	67.5	69.2	72.3
	8	53.4	54.2	55.6	57.6	58.6	61.0	64.0	66.7	68.2	68.7	64.8	65.1
	9	45.2	47.4	50.0	53.6	56.7	58.6	60.2	61.2	62.7	63.6	64.1	64.5
	10	39.0	45.8	47.4	49.6	50.8	51.4	50.6	51.2	51.0	48.2	46.4	48.4
	11	49.8	48.8	50.4	57.8	61.8	61.8	66.8	65.7	71.4	71.1	65.7	66.6
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	38.6	43.2	46.2	47.6	47.2	49.0	47.8	47.8	45.4	44.5	43.5	42.3
	14	46.0	46.8	47.2	50.0	52.9	54.6	57.0	59.1	59.4	60.9	63.9	65.7
	15	43.0	47.2	50.6	53.6	54.8	58.6	63.0	66.8	63.9	62.8	60.0	63.0
	16	50.0	52.2	54.6	57.2	60.8	63.4	63.0	61.8	60.6	59.4	58.8	58.7
	17	51.2	51.6	52.6	56.2	60.0	58.6	59.8	59.1	59.3	56.7	55.9	56.4
	18	48.0	49.0	51.0	54.6	55.2	57.0	53.8	54.6	57.3	56.5	59.6	61.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	47.0	47.4	49.0	53.4	57.2	55.2	54.4	63.6	64.3	59.8	57.0	53.9
	21	36.8	37.0	37.4	39.2	41.7	44.0	46.6	47.6	49.7	51.9	54.2	54.8
	22	35.0	41.6	44.8	47.0	51.6	54.3	56.6	58.0	59.2	59.2	59.9	59.4
	23	38.6	41.0	50.4	52.6	57.4	61.2	63.3	68.2	68.2	66.8	66.9	67.8
	24	52.0	54.8	57.4	60.2	62.8	65.6	64.8	66.0	65.1	63.6	68.2	72.4
	25	55.8	59.5	62.8	64.8	69.4	70.3	74.0	75.5	75.8	76.6	77.7	78.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	58.0	59.8	61.0	63.8	65.8	68.3	68.5	70.3	—	—	72.8	70.0
	28	57.0	58.0	59.5	61.2	64.0	66.0	66.8	69.4	69.0	71.4	70.4	70.2
	29	51.5	55.1	56.4	58.7	59.6	61.6	62.9	64.4	66.8	66.4	67.0	66.6
	30	51.6	53.0	53.4	53.8	56.0	56.4	62.8	67.0	63.4	60.5	60.4	61.8
	31	55.8	56.4	56.5	56.6	57.8	56.2	60.6	61.5	63.2	64.0	61.8	69.4
Hourly Means	48.52	50.64	52.67	54.99	57.11	58.71	60.38	61.92	62.02	61.85	61.93	62.44	
JUNE.	1	48.7	53.5	55.2	55.9	60.4	61.4	65.6	67.0	67.8	67.2	69.0	73.0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	47.0	49.5	53.0	56.9	58.8	59.2	59.3	61.5	64.2	65.5	66.8	68.4
	4	45.3	48.6	52.5	56.5	58.8	60.4	62.2	63.6	65.0	67.0	66.6	67.4
	5	53.2	53.4	55.0	57.8	58.8	62.0	66.6	69.3	69.2	66.8	68.4	65.5
	6	59.1	63.3	66.7	69.9	71.2	71.2	72.4	72.9	72.8	70.2	68.9	66.2
	7	53.5	53.6	53.4	56.2	59.8	62.6	64.6	68.2	67.6	69.8	72.0	71.2
	8	41.6	44.0	48.8	50.4	52.2	54.8	56.8	59.7	60.8	63.6	65.2	61.5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	45.8	49.4	53.6	55.4	56.8	57.0	58.0	58.9	58.6	59.2	57.6	57.2
	11	40.8	46.1	50.2	53.2	56.0	56.0	57.6	58.8	60.4	63.5	66.8	68.2
	12	48.0	51.7	52.6	55.8	58.0	60.8	63.8	66.1	65.0	65.2	64.8	65.7
	13	51.7	55.9	59.2	61.3	62.8	64.4	64.6	67.4	67.8	70.8	69.4	68.9
	14	54.4	58.2	62.3	62.3	62.3	64.2	65.8	69.2	72.4	71.6	73.2	72.2
	15	56.4	59.6	62.5	66.4	65.6	66.8	69.6	70.5	70.6	66.0	68.2	71.4
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	59.9	60.4	62.7	63.9	64.8	68.5	68.8	66.8	69.5	67.4	66.8	68.8
	18	63.0	66.5	68.6	71.6	73.8	73.0	75.0	74.0	77.7	82.2	76.2	83.1
	19	64.6	69.2	69.8	73.1	73.4	69.6	69.4	67.9	71.1	75.3	75.6	76.2
	20	59.5	61.0	63.4	66.0	67.9	69.7	69.9	71.1	72.3	71.2	70.2	69.4
	21	53.9	56.4	60.3	60.2	64.2	64.0	64.8	65.8	67.4	69.2	71.8	74.6
	22	54.0	55.8	57.8	61.2	62.8	64.5	65.6	67.8	69.8	71.4	70.8	70.3
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	58.4	61.6	65.8	68.4	70.6	69.2	73.0	75.0	72.8	71.6	72.0	76.4
	25	63.8	64.0	64.8	66.6	71.2	74.8	70.6	73.5	77.8	73.0	77.9	81.2
	26	63.7	62.3	63.2	62.6	64.4	67.7	67.6	66.3	66.7	66.7	66.2	65.6
	27	59.8	60.0	59.0	59.2	58.7	58.1	58.0	57.7	59.2	63.0	63.8	63.0
	28	60.8	61.8	61.4	61.8	64.0	65.8	67.4	67.6	67.2	70.4	71.0	71.1
	29	53.0	56.0	59.4	62.0	63.8	64.8	66.4	68.5	70.7	73.5	74.7	75.6
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	54.36	56.87	59.25	61.38	63.24	64.42	65.74	67.00	68.18	68.85	69.36	70.08

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
60.3	58.8	59.2	56.9	56.2	55.7	53.5	52.0	52.2	52.5	52.0	50.6	58.43
66.3	61.0	61.3	59.0	59.5	60.0	57.5	56.6	56.0	51.4	48.7	48.8	59.89
53.2	51.7	53.8	54.8	54.2	53.6	50.2	49.6	50.7	49.9	48.2	49.2	55.89
52.4	50.8	51.0	50.7	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	47.8	46.5	46.7	47.6	50.2	49.0	51.58
49.8	50.0	50.6	52.2	51.8	50.7	50.2	50.1	50.2	50.2	48.7	48.0	51.03
70.1	57.7	52.7	49.6	48.0	49.2	50.4	50.0	49.6	50.4	50.6	52.6	56.12
62.5	57.2	54.7	53.4	49.8	47.6	45.4	45.4	44.6	44.8	44.0	44.0	55.47
61.4	56.0	50.8	46.2	44.9	42.7	41.3	41.2	38.3	35.5	33.9	34.0	50.58
47.9	46.5	44.9	44.4	45.1	45.0	44.5	44.8	45.8	46.9	50.5	51.6	47.41
66.3	66.8	62.7	60.5	57.8	56.0	—	—	—	—	—	—	—
—	—	—	—	—	—	39.8	39.1	36.2	34.5	35.4	36.0	55.37
41.9	42.3	41.6	40.7	40.0	40.8	42.5	42.0	43.5	44.5	44.0	45.0	43.83
63.1	55.3	49.5	48.4	45.5	43.8	42.2	41.0	39.9	38.8	39.7	38.8	50.40
58.2	55.0	53.2	52.9	53.4	52.8	54.5	53.6	52.8	51.7	50.2	49.4	55.21
59.9	54.7	51.7	51.2	49.1	49.5	50.0	49.8	50.4	50.2	50.6	50.6	54.92
54.0	53.5	54.9	54.8	54.0	53.2	50.4	50.2	50.0	48.4	47.2	47.2	53.97
60.4	57.2	52.0	48.7	42.2	39.7	—	—	—	—	—	—	—
—	—	—	—	—	—	45.5	45.8	45.8	46.0	45.7	45.8	51.35
49.5	45.9	45.1	44.8	44.2	43.2	41.0	38.7	36.9	34.8	33.3	35.0	48.11
52.6	47.2	41.8	40.4	39.3	34.1	32.2	32.0	30.9	30.3	29.3	29.8	40.87
57.9	52.7	49.7	45.4	43.4	43.9	39.9	38.0	38.4	37.9	37.2	37.0	47.83
68.1	64.7	56.7	56.0	55.2	53.8	51.0	48.8	47.4	46.1	45.3	45.8	55.89
71.5	65.4	59.8	57.6	56.2	55.7	55.1	53.9	53.7	53.9	54.3	54.5	60.19
72.4	70.6	66.1	62.7	63.2	63.2	—	—	—	—	—	—	—
—	—	—	—	—	—	58.3	58.2	57.6	57.2	55.6	55.8	65.88
69.8	66.6	64.8	62.3	62.2	59.0	59.2	58.0	57.0	56.4	55.4	54.4	62.88
66.7	63.5	59.9	57.8	56.4	55.2	55.0	53.8	51.5	49.8	47.0	48.2	60.32
61.0	57.6	55.0	51.5	53.0	53.2	54.0	54.9	54.2	54.2	52.9	51.6	57.92
59.8	58.4	58.5	58.7	58.4	58.7	57.6	57.4	56.6	55.8	55.4	56.5	58.00
66.7	59.5	55.9	53.4	51.2	47.8	46.4	45.4	45.0	44.2	43.4	42.7	55.06
60.14	56.54	54.00	52.41	51.32	50.31	48.72	48.03	47.48	46.81	46.25	46.37	54.22
65.4	68.6	65.6	62.8	60.7	59.8	—	—	—	—	—	—	58.44
—	—	—	—	—	—	47.0	46.6	46.0	45.2	45.4	44.8	—
67.0	59.4	52.0	49.8	46.7	44.8	43.7	43.3	42.4	42.7	41.9	40.8	53.52
63.0	57.8	54.6	52.3	49.9	48.8	49.1	48.9	49.8	50.3	50.4	52.0	55.87
64.0	60.5	58.9	58.6	58.6	57.1	57.4	57.4	57.4	57.4	57.8	57.7	60.37
64.4	63.6	60.2	57.6	54.8	53.6	51.2	52.2	53.0	52.8	52.8	52.6	62.23
68.8	61.8	55.2	50.9	48.0	45.9	42.0	39.6	38.6	35.1	34.6	34.8	54.49
59.0	55.5	55.3	54.0	53.0	50.4	—	—	—	—	—	—	—
—	—	—	—	—	—	47.8	44.4	43.6	42.8	42.8	40.8	52.03
56.6	54.2	49.4	47.0	44.4	42.4	41.6	41.2	39.5	38.7	35.1	35.4	49.71
67.6	62.6	53.2	49.3	47.0	43.7	42.3	42.6	44.0	43.3	42.8	43.2	52.47
61.9	58.3	56.1	54.2	53.6	51.9	49.0	47.0	47.8	48.4	49.8	48.4	56.00
69.4	61.8	56.4	53.2	51.2	50.4	48.2	46.8	46.4	47.3	47.8	49.0	58.00
72.8	63.6	59.4	56.8	56.4	55.5	53.9	52.6	52.6	52.0	50.4	51.6	61.07
70.2	64.9	59.8	56.5	55.2	54.6	—	—	—	—	—	—	—
—	—	—	—	—	—	59.8	59.4	58.8	59.0	59.4	58.8	62.92
68.0	65.6	63.2	62.8	62.4	62.1	62.7	62.0	61.4	60.2	60.6	61.2	64.15
82.7	75.4	69.2	66.4	66.4	66.3	66.2	64.2	64.8	63.0	63.2	62.4	70.62
72.1	74.3	68.2	64.7	63.0	62.4	63.2	61.6	60.4	60.2	58.8	58.7	67.62
69.8	67.6	61.2	58.0	56.0	54.6	52.0	51.9	51.3	51.7	50.6	51.7	62.00
72.0	69.4	57.2	54.5	56.2	55.2	54.7	54.0	53.0	52.8	52.6	52.6	60.70
71.4	67.1	61.5	54.8	51.4	52.4	—	—	—	—	—	—	—
—	—	—	—	—	—	57.8	55.8	58.0	56.0	57.4	55.8	61.30
68.4	67.7	68.4	68.4	73.0	68.2	64.0	61.4	63.0	62.0	62.2	63.0	67.69
83.0	79.4	74.2	70.4	66.2	66.2	67.6	63.2	65.2	63.2	63.0	63.2	70.17
65.2	64.4	63.4	62.4	60.8	60.6	60.6	60.6	60.0	60.0	60.2	60.2	63.39
63.4	62.0	61.6	61.7	61.9	61.6	61.7	65.4	63.8	62.3	60.9	60.6	61.10
68.3	64.8	60.7	57.4	55.4	53.4	52.6	52.4	50.6	47.2	47.6	50.0	60.45
74.7	67.0	59.2	55.0	53.8	54.3	—	—	—	—	—	—	—
—	—	—	—	—	—	63.8	63.8	63.4	63.5	63.6	65.4	64.00
68.36	64.69	60.16	57.58	56.24	55.05	54.40	53.53	53.39	52.68	52.47	52.59	60.41



STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	67.6	71.2	71.6	73.2	73.4	79.5	77.0	78.2	82.3	83.5	85.6	85.8
	2	54.0	61.6	64.1	66.7	69.2	71.9	73.4	75.8	74.8	74.8	78.1	74.4
	3	59.9	62.0	65.2	65.7	67.4	68.8	69.4	70.0	69.7	69.1	68.6	69.0
	4	47.8	51.3	54.3	56.4	58.3	59.1	60.8	63.2	63.5	64.0	69.0	70.9
	5	52.2	55.6	58.6	59.2	59.5	60.0	60.4	63.1	62.5	61.7	61.7	61.3
	6	67.8	68.6	71.2	73.8	75.4	76.5	78.1	79.8	79.6	80.2	78.6	77.8
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	50.7	53.6	58.2	61.8	63.8	65.0	68.2	72.0	73.6	77.0	78.6	75.1
	9	58.3	64.2	66.4	68.9	73.4	75.0	76.6	75.8	74.0	72.1	70.2	69.2
	10	69.2	73.5	73.8	75.6	76.5	77.0	76.4	74.8	77.2	77.0	77.2	75.1
	11	61.4	65.0	67.6	69.8	72.2	73.6	75.8	76.3	77.4	80.4	82.3	83.8
	12	58.4	62.7	63.1	65.3	65.7	69.7	72.9	77.6	78.8	79.9	79.4	80.6
	13	64.4	68.2	66.5	68.7	69.8	70.9	73.9	75.7	77.6	79.1	75.4	76.2
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	61.2	63.3	67.0	69.2	69.9	70.8	69.6	68.9	68.6	67.8	66.3	64.2
	16	58.8	59.0	59.7	62.8	64.2	66.1	66.9	69.2	64.4	70.2	68.0	69.6
	17	59.2	61.8	65.2	68.0	70.6	72.8	74.2	76.4	73.5	77.4	79.2	78.1
	18	55.3	60.1	64.1	65.9	68.8	71.5	73.3	75.0	73.9	74.3	74.2	75.0
	19	66.8	68.2	69.8	68.2	70.0	73.8	68.8	71.5	75.0	76.3	74.4	76.6
	20	60.0	62.4	64.9	66.8	64.6	70.7	72.2	73.2	75.2	73.2	75.8	78.3
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	60.4	65.4	67.6	70.7	74.0	78.2	78.2	79.5	79.8	77.8	76.8	77.4
	23	65.6	66.7	69.6	71.2	72.6	74.6	75.8	77.7	76.2	75.5	74.3	69.3
	24	61.4	62.2	62.8	65.2	66.8	69.4	69.6	71.2	72.2	72.0	70.0	69.3
	25	60.0	60.2	62.0	63.6	65.4	66.9	68.7	71.6	68.7	69.2	71.7	78.4
	26	58.6	61.0	63.2	65.0	65.0	67.2	68.2	70.0	72.0	71.8	74.8	74.9
	27	55.4	60.6	64.6	66.6	68.4	70.4	72.0	73.0	74.7	75.8	77.6	78.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	62.3	64.8	67.6	69.4	72.2	74.6	75.6	79.6	81.5	82.5	83.0	81.2
	30	66.2	68.9	70.0	71.2	71.1	71.3	72.5	72.0	72.7	70.9	70.4	70.2
	31	68.8	71.0	74.4	76.0	78.1	78.9	80.4	81.2	83.4	83.7	75.4	84.8
Hourly Means	60.43	63.45	65.67	67.59	69.12	71.27	72.18	73.79	74.18	74.71	74.69	74.98	
AUGUST.	1	61.6	63.9	67.0	69.3	71.7	72.7	74.9	78.2	77.6	80.9	82.8	78.9
	2	57.8	63.6	66.6	68.8	70.8	72.7	73.0	73.7	75.5	75.3	77.8	78.6
	3	55.7	58.0	61.5	64.5	68.5	70.5	72.4	74.0	71.6	70.7	68.4	70.0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	48.5	55.2	58.7	62.3	65.9	67.7	69.7	71.7	73.9	72.0	70.4	69.4
	6	61.4	63.2	64.5	66.5	68.8	71.8	66.4	70.2	73.8	71.4	71.5	73.2
	7	51.5	57.3	62.1	65.5	68.2	71.0	74.4	74.8	75.4	74.8	74.8	76.3
	8	63.6	64.8	66.6	68.8	71.6	73.0	75.0	73.4	76.8	79.3	80.0	78.5
	9	67.7	68.6	71.7	72.1	73.8	77.8	78.3	76.8	76.6	76.6	72.8	78.3
	10	58.6	61.5	63.5	64.6	65.7	68.2	69.2	71.7	72.2	74.6	73.8	74.8
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	51.2	55.2	58.0	60.5	62.8	65.2	67.8	67.5	69.7	67.2	70.6	71.0
	13	53.4	54.8	58.0	63.3	65.6	66.7	68.4	69.0	70.2	68.4	67.0	67.0
	14	58.8	60.6	63.0	64.2	66.0	67.2	68.4	68.7	73.6	73.3	73.3	72.8
	15	62.0	65.0	67.7	69.0	70.7	73.2	74.3	76.4	78.0	74.6	74.4	75.5
	16	60.7	65.0	68.9	72.0	73.0	75.4	78.6	79.4	76.3	78.6	77.8	78.2
	17	64.2	65.8	68.0	69.8	72.0	73.8	76.4	76.2	75.6	77.2	76.2	74.5
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	66.2	67.0	67.2	69.5	71.4	74.0	75.8	74.6	74.4	78.8	80.4	80.4
	20	67.4	68.2	68.6	67.0	68.0	66.6	66.4	65.4	68.6	70.2	70.6	72.3
	21	53.8	55.4	57.5	59.5	61.6	62.9	64.3	66.3	66.6	68.0	69.8	68.3
	22	60.9	61.6	60.9	61.2	62.0	60.9	61.6	64.2	71.2	76.2	75.0	72.2
	23	65.2	67.0	68.0	69.0	65.8	69.0	70.7	71.6	72.8	73.6	73.8	72.3
	24	48.6	53.6	57.4	61.1	64.7	67.6	67.3	70.7	65.0	64.8	64.7	64.3
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	48.2	51.4	56.6	59.2	62.0	63.6	64.8	66.3	67.1	65.5	62.1	60.4
	27	55.0	55.9	57.8	59.5	61.4	61.2	61.5	63.8	59.6	66.6	62.6	66.9
	28	54.2	55.6	58.4	59.7	64.6	64.4	65.4	61.0	59.8	64.4	66.0	64.0
	29	54.6	55.4	57.8	62.4	64.6	66.6	68.4	68.2	70.0	68.8	71.8	71.2
	30	51.0	53.2	56.8	61.6	64.0	66.0	68.2	70.7	65.9	65.0	66.3	64.8
	31	61.6	63.4	64.6	65.8	70.2	69.2	70.2	71.6	71.8	73.8	74.6	77.8
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	57.90	60.38	62.87	65.05	67.24	68.85	70.07	70.97	71.47	72.24	72.20	72.29	

STANDARD THERMOMETER.												Daily and Monthly Means.
12	13	14	15	16	17	18	19	20	21	22	23	
6	7	8	9	10	11	12	13	14	15	16	17	
84.4	71.3	71.2	66.3	61.3	59.6	55.0	54.8	53.0	51.8	53.6	52.3	69.31
71.6	70.6	68.2	66.8	63.6	62.0	60.8	62.3	61.4	62.1	57.1	56.2	66.73
67.4	63.6	58.2	55.3	54.2	52.7	50.3	47.2	43.0	41.4	40.8	41.4	59.18
70.2	63.5	54.9	51.7	51.0	51.8	51.7	50.0	47.0	45.0	44.4	45.4	56.05
60.4	60.6	61.0	60.8	61.2	59.0	61.4	62.4	61.4	61.8	61.0	62.5	60.39
77.0	73.7	67.0	63.8	61.2	59.5	—	—	—	—	—	—	66.11
—	—	—	—	—	—	46.6	46.6	46.2	46.0	45.4	46.3	63.05
73.5	68.1	64.2	65.2	58.6	57.2	55.8	55.8	55.2	52.2	55.5	54.4	68.44
72.2	71.6	69.0	65.2	63.8	64.9	64.8	64.8	64.6	65.2	65.6	66.8	69.28
69.3	65.2	64.2	64.0	64.3	64.0	63.4	62.5	61.6	61.4	60.0	59.6	67.65
81.7	77.8	68.6	65.8	63.5	60.4	55.9	51.8	53.0	53.6	52.8	53.2	68.35
76.0	71.7	67.8	65.8	62.8	62.2	61.4	63.6	66.2	63.4	63.2	62.3	68.14
75.8	71.0	66.6	64.4	63.6	64.0	—	—	—	—	—	—	63.79
—	—	—	—	—	—	59.3	61.4	62.2	60.2	60.6	59.8	63.40
62.8	62.2	61.6	61.3	60.9	59.5	59.3	59.8	59.6	59.2	59.2	58.8	64.44
76.5	70.5	64.7	63.1	61.5	60.7	57.6	56.6	57.4	58.7	58.4	57.0	68.23
76.4	72.0	64.0	59.8	56.6	56.0	54.6	51.2	51.0	50.0	49.0	49.6	67.37
76.3	71.2	68.4	69.4	67.6	66.2	66.6	65.6	63.1	62.2	64.9	64.6	65.15
71.2	68.6	66.0	64.1	62.7	62.2	62.1	61.8	61.2	60.6	58.7	58.4	71.20
79.2	72.3	67.5	59.6	55.6	55.4	—	—	—	—	—	—	68.51
—	—	—	—	—	—	58.0	56.6	55.8	55.8	55.4	55.2	65.36
79.7	75.2	72.0	72.3	68.8	67.0	65.6	64.8	65.2	64.5	63.8	64.2	63.48
68.7	70.4	67.7	65.8	65.0	64.6	62.6	62.4	62.4	61.6	62.2	61.7	62.35
67.0	65.3	63.8	64.6	62.8	62.8	62.3	62.1	61.6	61.8	61.7	60.6	64.66
77.2	72.0	60.2	58.2	56.2	55.2	55.2	55.3	57.0	57.6	57.5	55.6	71.01
76.3	67.3	59.2	57.2	55.7	54.4	53.4	53.0	52.4	52.2	52.3	51.2	69.82
75.9	67.9	61.7	57.7	54.6	56.6	—	—	—	—	—	—	72.75
—	—	—	—	—	—	58.2	57.8	57.6	56.6	55.4	54.8	66.08
77.4	74.7	72.9	71.3	68.0	64.8	63.4	62.6	62.6	64.0	64.0	64.3	69.80
69.6	69.8	69.0	68.8	68.8	69.2	69.2	69.3	69.1	69.0	69.0	67.4	65.52
86.0	76.6	69.4	65.8	70.0	71.0	66.0	63.4	61.9	60.4	59.8	59.6	63.49
74.06	69.80	65.52	63.49	61.63	60.85	59.28	58.72	58.25	57.71	57.46	57.16	61.63
78.9	75.5	71.4	69.5	66.8	64.5	61.9	57.0	55.6	55.6	55.0	55.2	68.60
77.3	72.4	65.2	63.4	61.6	59.8	58.8	56.4	54.6	52.8	53.0	53.2	65.95
68.6	67.3	62.8	62.4	62.2	61.6	—	—	—	—	—	—	61.73
—	—	—	—	—	—	50.0	49.4	48.6	43.0	47.6	47.2	64.22
68.0	65.6	65.2	61.8	60.6	61.4	62.4	62.8	62.0	62.8	61.9	61.4	63.08
70.0	68.6	62.2	59.1	57.2	55.3	55.0	56.0	55.0	52.5	50.5	49.8	66.75
72.2	67.7	66.2	65.0	64.9	64.6	63.4	62.8	62.8	62.3	62.0	62.0	70.36
74.2	70.6	68.2	67.1	66.0	67.0	67.4	67.4	67.4	67.0	66.8	68.1	70.18
72.0	74.2	72.0	69.8	69.6	67.6	65.4	63.8	62.0	59.8	58.7	58.4	61.80
73.5	69.2	60.0	55.8	57.6	56.0	—	—	—	—	—	—	58.76
—	—	—	—	—	—	52.3	50.8	48.8	47.6	41.8	48.4	62.49
66.0	59.4	56.6	55.2	54.5	53.9	52.4	50.6	49.2	48.6	48.2	49.0	64.68
66.3	62.5	61.1	60.4	59.7	60.1	59.2	59.4	60.4	60.0	59.7	59.2	67.23
71.7	66.7	64.7	61.7	60.2	59.2	59.2	59.0	58.4	59.6	60.4	61.6	71.30
72.3	67.1	65.2	62.8	61.6	61.8	61.0	61.2	61.0	59.8	59.5	59.3	68.65
73.4	73.6	71.6	69.9	68.9	68.7	68.2	69.4	67.8	66.6	65.6	63.6	71.08
69.9	66.9	64.3	63.1	62.5	60.0	—	—	—	—	—	—	63.46
—	—	—	—	—	—	63.0	64.6	65.6	66.0	66.0	66.0	61.30
79.7	76.8	69.9	72.2	70.3	67.4	65.7	65.0	65.4	65.4	64.2	64.2	66.09
71.8	69.8	59.3	56.4	57.8	56.7	56.6	55.6	56.6	55.4	54.4	53.4	62.60
67.0	59.6	57.4	57.4	58.8	59.0	59.2	58.9	59.2	59.8	60.2	60.8	57.95
69.6	67.6	66.6	66.4	67.2	67.2	68.2	67.2	66.6	65.4	64.0	62.3	58.37
70.3	63.0	59.3	55.8	55.3	54.7	52.9	50.7	50.0	50.6	52.6	48.4	57.49
62.4	60.2	58.2	57.6	55.0	54.4	—	—	—	—	—	—	59.01
—	—	—	—	—	—	52.0	49.3	50.4	47.6	47.5	46.4	59.73
59.2	57.8	56.8	57.0	56.2	55.2	55.7	55.6	55.2	55.0	55.0	54.9	62.57
64.0	57.6	55.4	53.6	52.0	51.2	50.4	52.6	52.2	52.2	53.4	53.4	66.99
62.0	59.6	57.6	56.8	56.8	56.0	55.6	55.0	54.7	54.4	55.1	55.2	64.16
68.3	63.5	59.1	56.5	53.3	54.0	51.7	50.4	49.5	48.4	49.4	49.6	66.08
64.6	63.3	62.8	63.2	61.8	61.8	62.2	61.2	62.2	61.8	61.8	61.6	66.08
72.2	63.9	61.2	59.6	59.6	60.0	—	—	—	—	—	—	64.16
—	—	—	—	—	—	66.8	66.0	65.6	66.0	66.2	66.0	64.16
69.83	66.30	62.97	61.46	60.67	59.97	59.13	58.45	58.03	57.44	57.17	56.99	64.16

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	66.2	67.3	68.7	69.0	69.4	69.0	70.6	75.3	75.5	78.2	81.8	
	3	56.0	59.5	62.4	65.2	66.8	69.4	70.8	70.8	73.3	74.2	77.0	
	4	56.4	58.8	62.0	64.0	66.0	67.8	69.0	69.8	70.7	70.8	70.4	70.7
	5	53.6	54.9	60.6	61.8	66.6	64.0	64.4	66.3	65.9	66.9	66.2	65.0
	6	51.9	56.4	62.1	64.7	65.7	66.9	68.0	68.9	70.9	70.9	71.0	70.4
	7	52.3	60.0	62.6	64.2	65.6	67.6	69.4	69.4	70.2	70.3	69.2	68.6
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	60.9	62.7	63.3	64.4	65.4	67.6	67.9	69.8	69.0	72.0	71.7	79.0
	10	59.7	61.0	63.0	64.4	64.0	67.0	70.6	72.4	72.2	71.0	74.4	72.9
	11	61.4	62.2	63.4	65.8	66.6	67.4	68.6	71.2	71.8	69.2	67.3	67.0
	12	59.2	59.9	61.3	62.4	65.5	68.7	69.2	72.2	72.2	70.9	71.9	72.6
	13	48.8	54.6	60.2	63.8	65.7	68.6	69.4	70.2	71.6	71.8	71.9	74.8
	14	51.2	56.2	61.2	64.7	67.2	69.8	71.6	73.8	75.0	76.6	77.2	78.2
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	55.3	59.4	63.2	67.8	72.0	74.6	75.8	77.0	78.3	79.0	80.2	79.8
	17	57.2	59.6	64.0	68.2	71.2	71.2	74.8	77.1	78.7	79.9	80.1	79.0
	18	53.8	55.2	59.7	62.5	65.2	66.8	68.1	68.9	70.2	70.4	71.1	71.2
	19	45.2	49.2	57.8	61.4	65.6	69.0	71.6	75.1	77.2	76.7	76.1	76.2
	20	59.2	64.3	67.4	69.6	71.8	74.6	78.6	79.6	80.6	80.4	79.6	78.1
	21	68.2	69.0	71.0	72.8	71.8	68.8	65.8	63.8	61.1	60.2	58.9	59.2
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	41.2	42.4	46.0	50.4	52.4	56.0	55.2	55.2	55.4	54.0	53.0	52.2
	24	44.3	45.3	48.1	51.4	52.6	55.7	55.2	56.3	57.5	58.4	60.6	57.6
	25	38.0	40.8	42.7	47.2	50.2	53.3	53.2	52.8	51.7	51.2	49.7	49.2
	26	38.6	40.4	43.0	45.4	50.1	52.0	52.6	52.2	53.2	53.0	53.4	49.9
	27	30.0	34.4	38.2	43.0	44.8	45.6	48.0	48.5	48.3	48.7	49.5	47.7
	28	34.6	36.9	41.3	43.3	45.9	47.2	49.9	50.4	50.3	49.5	48.4	47.6
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	42.4	42.8	47.0	50.9	56.2	59.6	60.6	60.4	59.4	56.7	54.6	53.0
	Hourly Means	51.42	54.13	57.61	60.33	62.57	64.33	65.56	66.74	67.21	67.24	67.41	66.84
OCTOBER.	1	33.7	36.7	41.7	46.4	50.3	52.8	52.7	54.4	55.1	54.3	54.6	
	2	41.4	44.2	50.6	55.0	56.2	57.0	58.6	56.8	60.0	60.0	60.4	
	3	44.2	44.4	49.6	53.2	55.4	58.2	59.6	60.3	60.9	59.4	59.1	
	4	44.0	47.0	50.3	52.4	53.6	56.7	59.4	57.2	52.1	55.6	56.4	
	5	48.1	49.3	49.7	50.0	49.9	51.4	50.7	52.2	52.2	53.0	52.6	
	6	—	—	—	—	—	—	—	—	—	—	—	
	7	33.0	35.4	39.6	41.8	44.3	45.0	45.2	44.7	45.2	47.8	48.4	
	8	29.0	31.0	39.9	43.6	47.0	52.6	58.4	60.3	62.3	62.2	60.6	
	9	51.0	52.0	53.0	56.3	60.9	65.0	65.4	62.9	65.5	69.8	70.1	
	10	54.6	55.5	54.4	55.0	53.4	52.0	52.2	56.6	58.0	57.8	57.0	
	11	37.0	37.7	41.0	43.3	47.0	48.7	50.4	52.9	52.9	52.7	53.0	
	12	33.3	34.5	38.8	43.7	47.4	49.6	51.6	52.2	52.6	51.6	51.0	
	13	—	—	—	—	—	—	—	—	—	—	—	
	14	45.1	46.0	49.0	50.3	51.5	51.6	51.6	50.8	50.6	50.4	50.4	
	15	42.2	43.4	45.4	49.0	50.2	51.2	52.6	52.7	53.3	52.5	51.7	
	16	37.0	37.7	39.7	42.2	45.0	46.6	48.4	49.5	50.6	49.2	48.8	
	17	41.4	41.4	42.0	42.6	44.8	45.8	45.4	45.2	44.8	44.6	44.6	
	18	40.0	39.6	40.0	40.8	42.2	43.2	43.2	42.8	42.2	42.0	41.8	
	19	41.0	40.6	40.6	41.2	43.5	44.4	44.0	44.2	44.6	40.7	36.6	
	20	—	—	—	—	—	—	—	—	—	—	—	
	21	37.0	38.6	41.0	42.4	44.8	47.2	46.8	46.3	46.3	46.2	46.1	
	22	40.7	42.2	43.9	46.4	49.2	49.6	51.1	52.3	52.2	53.5	51.1	
	23	35.6	36.4	40.7	42.9	44.4	46.0	47.7	49.0	54.6	53.0	51.8	
	24	36.4	38.0	44.0	47.2	49.8	51.4	53.9	55.6	55.9	55.5	55.0	
	25	47.2	48.0	51.8	53.6	55.4	57.4	59.4	59.4	59.2	59.4	59.6	
	26	39.0	40.2	42.7	44.6	46.5	47.9	48.4	48.2	47.6	46.7	45.8	
	27	—	—	—	—	—	—	—	—	—	—	—	
	28	27.2	27.4	27.8	28.2	28.2	28.5	28.4	29.0	28.3	28.4	28.2	
	29	28.6	28.3	29.0	29.9	29.6	30.0	30.4	30.2	29.5	29.7	29.2	
	30	29.0	29.4	30.4	31.4	32.2	33.5	35.3	36.2	36.2	36.0	35.4	
	31	19.6	18.6	20.4	27.0	30.7	33.1	36.6	39.4	41.4	42.4	42.5	
Hourly Means	38.38	39.39	42.11	44.46	46.42	48.01	49.16	49.68	50.15	50.16	49.70	47.67	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
77.0	71.2	66.9	64.2	63.0	61.8	60.6	57.5	57.7	56.2	55.5	55.6	67.48
74.6	68.6	64.4	60.2	57.7	56.9	55.4	55.1	54.8	54.3	50.0	52.3	63.31
67.2	61.8	58.4	56.5	54.6	54.0	53.8	52.8	53.2	54.0	53.2	52.6	61.19
62.3	58.8	56.4	57.2	55.0	55.3	56.0	55.2	54.0	51.8	50.8	51.6	59.19
67.6	64.0	62.8	61.8	59.0	57.4	55.6	55.2	53.0	54.8	53.2	52.2	61.89
64.8	62.8	59.6	57.6	57.2	55.4	—	—	—	—	—	—	—
—	—	—	—	—	—	63.6	63.5	63.4	62.8	61.0	59.7	63.41
68.6	63.2	63.6	61.7	61.2	60.3	60.2	60.0	59.9	59.7	58.0	59.0	64.55
69.8	63.0	60.2	59.4	61.0	60.4	62.4	62.4	62.4	62.4	62.1	61.8	65.00
66.5	64.6	64.2	64.4	63.4	62.6	62.0	61.8	61.4	59.8	60.2	59.4	64.68
68.4	61.6	59.5	58.0	58.6	58.2	58.4	57.7	56.1	55.0	51.4	49.4	62.43
64.6	60.4	56.2	54.5	53.7	53.0	52.4	52.1	50.9	51.0	50.8	50.3	60.05
72.6	66.7	65.1	64.2	64.0	62.2	—	—	—	—	—	—	—
—	—	—	—	—	—	60.2	59.6	58.8	56.6	55.6	55.2	65.15
71.8	66.4	66.2	62.2	60.3	59.4	58.8	59.0	58.0	57.8	56.2	55.4	66.41
74.2	71.6	66.3	64.1	63.7	67.2	68.4	67.2	64.2	61.2	59.6	55.7	68.52
62.0	58.2	56.2	58.2	55.8	53.5	51.9	50.2	48.2	47.6	47.0	46.6	59.10
72.4	70.8	70.0	67.4	64.7	62.2	62.4	60.2	59.4	59.6	59.4	59.0	65.36
69.7	71.3	69.2	68.3	67.0	64.2	62.7	62.8	63.4	66.0	66.5	66.6	70.06
54.0	51.8	49.2	47.4	46.2	44.7	—	—	—	—	—	—	—
—	—	—	—	—	—	41.0	42.8	42.0	42.3	42.1	40.0	55.59
51.0	49.8	49.0	49.0	48.8	46.7	44.4	43.2	44.8	44.2	44.0	44.1	48.85
56.2	52.0	49.0	49.2	47.6	43.4	39.6	39.6	39.8	39.8	37.2	36.4	48.87
48.5	47.4	46.1	45.9	45.6	45.0	44.8	44.2	43.8	43.2	42.4	40.6	46.56
46.3	43.1	41.4	41.2	42.0	41.0	41.1	35.0	34.0	33.4	30.5	29.8	43.44
42.0	37.6	36.0	30.6	37.0	37.8	37.6	37.6	36.8	36.8	36.2	35.0	40.57
47.0	46.5	46.4	45.1	44.0	43.0	—	—	—	—	—	—	—
—	—	—	—	—	—	41.2	40.4	39.4	39.2	40.4	39.6	44.06
48.2	45.3	43.4	41.4	38.4	37.0	36.6	33.7	33.5	33.2	34.2	33.5	45.92
62.69	59.14	57.03	55.83	54.78	53.74	53.24	52.35	51.72	51.31	50.30	49.66	58.47
46.2	46.8	39.8	40.4	39.9	39.5	38.6	39.2	38.4	39.4	39.0	40.4	44.70
56.9	57.4	57.5	58.0	57.7	57.0	57.0	—	52.4	51.0	49.8	46.6	54.77
56.5	51.6	51.0	49.1	46.5	47.6	47.2	46.6	45.0	44.2	44.2	43.4	51.37
52.3	51.5	50.6	49.6	49.4	48.4	48.0	47.5	45.4	44.6	46.2	47.0	50.77
50.2	49.4	47.0	47.2	45.8	46.6	—	—	—	—	—	—	—
—	—	—	—	—	—	38.5	38.3	36.2	35.8	32.4	33.2	46.30
40.0	35.6	35.6	32.8	32.3	31.4	31.6	31.7	31.0	31.2	30.0	29.4	37.88
56.8	56.3	56.1	56.4	56.0	55.8	55.5	54.7	54.4	52.8	52.6	51.8	52.69
53.4	51.4	54.0	50.0	46.2	44.8	44.2	45.6	46.2	50.0	52.2	54.4	55.21
51.2	48.4	44.6	44.2	43.8	43.0	40.0	39.2	38.4	39.0	37.4	36.8	48.63
43.8	42.8	40.2	39.7	38.6	35.4	36.5	35.2	34.0	34.0	33.0	33.4	42.33
44.0	42.2	44.4	48.2	47.2	43.7	—	—	—	—	—	—	—
—	—	—	—	—	—	48.3	48.2	46.0	45.6	44.4	44.8	45.96
48.8	48.2	47.8	47.4	47.4	47.7	47.5	47.2	47.2	45.6	44.6	43.4	48.32
48.1	46.3	45.0	43.2	42.5	41.4	40.6	40.0	38.6	38.2	37.6	37.3	45.55
46.4	45.2	43.6	41.0	41.0	40.8	40.2	40.4	39.8	40.2	40.7	41.0	43.43
43.0	42.0	41.4	41.8	42.1	41.4	41.2	41.4	41.0	41.2	40.3	40.2	42.66
43.6	44.8	47.0	49.8	50.8	51.0	55.0	50.3	48.2	45.2	43.2	42.2	44.63
36.0	35.0	34.8	33.7	33.0	32.1	—	—	—	—	—	—	—
—	—	—	—	—	—	29.0	37.0	37.6	38.2	37.9	37.2	38.33
44.0	42.0	40.0	42.4	39.1	36.7	36.1	34.6	38.2	39.0	39.6	39.9	41.66
43.6	40.3	37.7	36.6	36.8	35.8	35.4	37.0	36.4	37.4	36.2	37.2	42.86
44.0	45.2	47.4	46.8	44.2	41.4	38.2	37.3	35.6	36.0	35.6	36.4	43.27
50.8	50.4	45.7	46.0	46.4	44.2	47.0	47.2	48.0	47.0	47.2	46.8	48.33
56.2	52.0	49.7	47.6	45.8	43.5	40.0	35.4	38.4	40.0	41.4	42.0	49.91
43.3	43.8	44.0	44.2	39.7	38.1	—	—	—	—	—	—	—
—	—	—	—	—	—	34.0	33.6	32.4	31.0	28.0	27.4	40.91
28.4	28.8	28.5	28.8	28.6	29.0	29.0	28.9	27.8	28.6	28.8	28.8	28.40
27.8	27.8	28.2	28.6	29.1	28.7	29.2	29.4	29.7	29.7	29.5	29.0	29.14
34.7	35.1	34.8	32.1	29.4	25.4	24.8	25.2	26.6	25.2	21.0	18.8	30.55
31.9	30.0	29.0	28.5	27.8	27.1	—	26.4	26.0	25.0	26.0	26.0	30.13
45.26	44.09	43.16	42.74	41.74	40.65	40.48	39.13	39.22	39.08	38.47	38.33	43.66

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	25.8	26.2	29.5	35.1	41.4	42.1	44.6	43.8	42.7	42.6	42.2	41.9
	2	39.4	38.2	39.5	43.0	44.6	45.7	47.4	48.7	50.2	50.1	49.6	44.8
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	39.4	38.6	40.4	40.9	42.1	43.3	43.2	43.9	45.0	44.6	43.1	42.2
	5	36.1	36.5	39.0	41.2	44.0	43.4	46.5	49.0	48.7	48.6	46.2	43.4
	6	32.6	31.6	33.6	38.6	43.2	45.0	46.4	48.0	48.9	49.3	48.6	43.4
	7	40.4	36.8	38.0	43.0	46.6	48.6	50.0	48.2	47.8	46.5	46.0	44.7
	8	32.6	30.0	34.0	36.6	38.4	39.6	39.6	40.2	40.3	40.0	38.0	35.6
	9	30.4	31.0	32.2	33.4	34.8	37.4	38.5	40.2	41.8	43.4	42.4	37.9
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	39.6	39.5	39.6	40.0	40.4	41.0	41.6	42.4	42.8	41.8	41.6	41.8
	12	42.4	42.6	43.0	43.8	44.4	45.6	47.1	46.9	47.0	46.9	46.9	46.1
	13	36.5	34.3	34.7	36.3	35.6	36.4	37.4	37.8	37.7	37.1	37.2	35.6
	14	29.0	29.4	31.4	33.8	35.8	37.3	38.7	39.4	39.3	39.7	37.2	36.4
	15	35.0	34.8	35.0	36.5	39.2	40.5	42.4	43.4	43.8	44.4	43.2	40.7
	16	32.0	33.2	34.0	37.2	42.0	45.0	45.8	47.4	48.4	45.4	43.2	39.3
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	34.0	33.2	33.2	32.0	32.8	33.5	35.0	34.6	33.0	32.1	30.4	29.0
	19	27.2	26.4	28.6	32.9	34.6	35.8	39.0	40.6	41.2	41.4	41.0	40.7
	20	31.8	33.4	35.4	37.7	40.2	38.9	41.4	42.8	43.7	44.8	43.6	39.2
	21	29.0	29.7	32.2	37.6	41.2	44.6	44.4	44.9	44.0	44.7	41.6	40.2
	22	34.2	38.4	39.6	41.6	44.7	42.6	41.8	41.6	43.1	42.4	41.9	41.6
	23	41.3	40.4	36.6	39.0	39.7	39.7	40.9	42.6	44.2	44.4	41.4	38.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	19.0	18.8	20.4	22.1	23.5	23.8	25.1	24.6	26.0	25.7	24.6	23.2
	26	22.0	24.6	25.0	26.8	27.3	27.0	27.3	29.4	30.0	30.2	29.8	30.2
	27	19.9	20.1	19.8	17.7	17.5	18.1	18.8	20.2	20.0	20.4	17.6	16.6
	28	23.6	21.4	19.2	19.2	20.3	21.6	22.5	23.1	23.4	23.0	22.6	22.0
	29	22.8	23.8	25.2	27.0	29.8	21.9	32.8	32.9	33.0	32.6	32.2	32.1
	30	33.6	34.0	34.6	35.4	36.8	37.7	37.6	37.3	37.5	37.0	35.8	35.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	31.91	31.80	32.95	34.94	36.96	37.54	39.07	39.77	40.13	39.97	38.77	37.02	
DECEMBER.	2	29.2	29.3	28.7	30.0	30.6	30.3	30.8	31.4	33.6	32.6	31.0	29.6
	3	30.3	27.8	30.2	31.4	33.0	34.6	36.0	36.8	36.2	34.9	34.6	34.2
	4	32.8	33.3	35.8	36.4	37.2	37.6	37.8	38.0	37.6	35.5	34.8	34.8
	5	33.8	33.8	34.0	34.0	33.2	33.4	33.6	34.1	34.7	34.6	34.5	34.5
	6	33.5	33.6	33.8	34.2	34.2	34.2	34.2	34.0	33.4	33.2	32.6	33.8
	7	42.1	42.6	43.3	44.5	45.8	45.6	46.0	43.8	41.6	38.6	36.4	35.8
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	21.0	21.6	22.7	24.4	26.8	30.4	32.2	34.4	35.6	35.8	34.8	32.4
	10	29.4	27.4	27.0	26.6	26.8	27.8	28.2	28.8	28.6	28.6	28.4	27.0
	11	28.6	28.8	28.8	29.7	31.4	32.4	32.6	33.6	34.2	34.1	32.8	32.7
	12	23.2	23.4	27.3	32.9	34.6	35.9	36.5	38.0	38.8	39.0	36.3	34.8
	13	37.1	37.1	35.6	35.1	34.8	35.6	36.2	36.4	36.7	36.0	35.4	34.2
	14	30.5	30.3	30.3	32.0	33.6	34.4	35.2	36.0	36.4	35.8	35.4	34.3
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	23.0	22.8	22.0	21.4	21.4	21.0	21.6	22.0	21.3	21.9	21.5	20.4
	17	16.2	16.4	16.6	18.2	20.6	21.4	22.6	24.3	24.6	24.5	23.4	22.1
	18	2.0	3.5	7.0	14.2	18.1	21.1	22.8	23.5	25.2	25.0	24.6	24.0
	19	20.4	21.0	21.4	22.3	23.4	24.2	23.6	23.6	23.0	22.2	21.2	20.4
	20	9.7	11.2	12.8	12.8	16.8	19.2	21.8	22.4	22.4	21.0	20.4	19.6
	21	26.8	27.4	27.8	28.3	28.2	28.6	28.2	29.0	30.6	31.4	32.4	32.2
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	31.8	31.0	30.2	30.2	29.0	29.0	28.6	27.8	27.4	26.2	25.6	25.3
	24	27.0	28.0	28.2	28.4	29.7	31.2	32.2	33.4	34.1	34.8	35.8	33.6
	25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	42.0	42.0	43.6	43.8	43.0	43.8	49.3	40.0	45.0	43.4	39.6	37.2
	27	23.4	21.8	20.9	21.4	22.4	24.8	26.0	26.0	27.6	27.2	26.6	25.2
	28	13.8	14.1	14.8	18.0	21.2	24.6	27.4	29.0	28.6	28.6	27.0	26.6
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	34.4	35.2	36.5	37.6	40.6	39.8	38.4	37.2	36.2	36.5	37.0	36.8
	31	30.7	29.4	29.2	31.4	32.4	33.2	33.2	34.6	35.6	34.8	34.6	33.7
	Hourly Means	26.91	26.91	27.54	28.76	29.95	30.96	31.80	32.28	32.36	31.85	31.07	30.21

<sup>a</sup> Christmas-day.

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
38.8	37.8	37.6	37.4	38.0	37.9	38.0	38.4	39.2	38.8	39.8	39.5	38.30
42.6	39.6	38.8	38.4	38.4	38.4	—	—	—	—	—	—	42.86
—	—	—	—	—	—	42.4	44.2	42.4	42.0	41.0	39.2	40.46
41.8	42.6	42.4	42.3	41.2	37.0	37.8	38.0	37.7	35.0	34.5	34.0	40.10
40.6	40.2	38.8	37.7	37.0	36.7	36.4	35.4	34.2	34.2	34.6	34.0	39.10
37.6	34.0	32.0	30.9	31.4	31.0	32.6	36.4	40.0	40.2	41.2	41.9	43.30
44.0	44.0	42.6	44.6	45.0	44.6	44.6	42.9	40.2	38.2	36.5	35.5	34.42
34.6	34.6	35.0	35.2	35.0	32.8	30.7	29.6	29.6	27.7	27.2	29.2	36.32
33.6	30.6	30.8	30.8	30.4	30.3	—	—	—	—	—	—	41.25
—	—	—	—	—	—	41.2	40.0	40.0	40.4	40.2	40.0	41.25
41.7	41.8	41.4	41.2	41.2	41.3	41.0	41.4	41.7	41.8	41.5	41.8	42.60
46.0	45.6	46.0	41.6	40.6	40.2	39.0	37.2	36.8	35.4	35.4	36.0	33.60
33.4	32.0	31.6	31.6	31.4	30.6	31.0	30.2	29.8	29.5	29.4	29.2	34.05
35.4	33.8	31.4	31.2	33.0	33.4	33.8	32.3	32.0	29.0	28.7	35.8	36.30
39.6	37.2	33.8	33.0	32.2	31.6	32.0	31.3	31.0	30.3	29.6	30.8	39.35
37.9	35.8	36.8	40.8	41.0	41.2	—	—	—	—	—	—	29.87
—	—	—	—	—	—	39.3	37.3	36.5	35.2	34.8	34.8	35.43
27.8	27.4	27.6	27.2	27.0	26.0	25.7	26.1	26.8	26.8	28.2	27.4	35.60
40.0	38.6	37.6	36.6	37.0	37.4	35.8	31.4	32.9	32.4	29.6	31.6	36.93
35.2	37.2	37.6	35.8	32.3	29.7	30.2	30.0	29.2	28.0	27.6	28.8	41.67
39.6	38.2	34.2	32.0	31.2	32.0	34.0	35.0	34.5	34.0	33.4	34.2	34.36
41.6	42.4	42.6	43.5	43.8	42.8	43.0	42.5	41.3	40.8	40.3	42.0	21.42
39.7	37.8	35.2	33.0	31.2	30.0	—	—	—	—	—	—	27.12
—	—	—	—	—	—	22.6	22.0	21.6	20.4	19.6	19.6	27.42
21.8	20.2	18.2	17.8	18.2	17.8	19.4	19.6	19.8	20.8	22.2	21.4	17.42
30.0	30.0	30.2	28.6	22.2	26.4	25.4	25.7	25.6	25.2	24.1	21.8	21.29
13.6	13.2	15.0	15.6	15.6	15.4	15.2	15.0	15.4	16.3	18.0	23.0	30.81
20.4	20.4	20.2	20.2	20.3	20.4	20.3	20.6	21.0	21.4	21.6	22.2	33.91
32.0	32.0	32.5	31.6	31.4	32.2	33.6	34.2	33.4	33.4	33.4	33.6	—
34.4	34.2	33.9	34.6	34.0	33.6	—	—	—	—	—	—	—
—	—	—	—	—	—	29.6	29.4	29.8	29.4	29.4	29.2	—
35.53	34.66	33.99	33.58	33.31	32.72	32.87	32.54	32.40	31.79	31.61	32.17	34.92
27.4	28.2	28.2	29.4	29.2	30.0	30.0	27.2	26.0	26.7	28.6	28.8	29.45
34.0	34.2	35.8	34.2	34.8	34.9	35.4	29.3	28.5	27.7	29.8	31.5	32.92
34.4	34.4	34.2	34.0	34.0	34.2	34.0	34.0	33.6	33.6	33.6	33.8	34.97
34.4	34.3	34.7	34.2	33.4	33.0	33.0	33.0	33.4	33.4	33.4	33.2	33.82
33.4	35.0	35.4	36.4	37.0	37.6	38.8	38.8	40.0	40.6	41.0	41.4	35.84
36.0	35.6	34.6	34.4	28.4	25.2	—	—	—	—	—	—	35.10
—	—	—	—	—	—	26.1	25.5	23.4	22.6	22.6	21.8	28.68
28.0	28.0	26.2	26.2	26.4	27.6	29.2	29.6	29.0	28.8	28.2	29.0	27.21
26.4	26.1	25.6	25.4	25.3	25.9	26.2	26.4	27.2	27.6	28.0	28.4	29.89
32.5	32.1	32.6	30.8	29.6	32.6	29.6	24.2	25.0	23.6	22.6	22.4	34.75
35.4	36.2	35.8	35.4	35.8	36.2	36.0	36.4	36.2	36.0	36.0	38.0	34.31
34.0	33.4	33.2	33.5	33.3	33.3	33.0	32.8	32.5	32.0	31.2	31.0	30.81
33.6	33.0	32.5	32.6	32.2	32.1	—	—	—	—	—	—	19.71
—	—	—	—	—	—	23.0	22.4	22.1	24.7	23.6	23.5	17.96
19.8	19.2	18.9	18.6	18.7	18.5	18.4	16.0	16.0	16.0	16.6	16.0	19.14
22.6	21.6	20.2	19.0	17.6	17.8	17.0	15.6	14.0	10.0	4.0	0.8	17.98
23.6	23.2	23.2	22.8	22.2	20.4	19.0	17.0	18.7	19.2	19.3	19.8	19.01
20.0	18.6	18.2	19.6	19.8	17.7	13.6	9.2	6.2	4.7	6.3	10.8	29.69
19.3	19.4	18.2	19.4	19.4	18.9	18.7	18.7	21.4	22.0	25.2	25.5	26.47
32.2	29.8	25.7	24.4	24.3	28.0	—	—	—	—	—	—	34.77
—	—	—	—	—	—	34.4	34.2	33.2	32.2	31.4	32.0	35.75
25.0	24.4	24.4	23.7	22.8	22.8	23.2	23.2	25.0	25.6	26.0	27.0	20.97
32.3	35.4	35.4	34.8	33.6	32.4	—	—	—	—	—	—	25.87
—	—	—	—	—	—	41.4	42.4	43.0	42.8	42.0	42.6	34.61
35.2	33.0	30.8	29.9	28.6	28.2	27.2	26.2	25.4	23.4	23.6	24.9	33.61
23.6	22.2	23.0	19.8	19.0	18.6	17.1	14.4	13.0	12.8	13.0	13.5	—
26.2	26.2	25.4	26.4	27.2	27.4	—	—	—	—	—	—	—
—	—	—	—	—	—	30.6	30.4	31.8	32.0	32.2	31.3	—
34.4	33.6	32.6	32.6	31.8	31.8	32.0	31.5	31.4	31.2	30.9	30.7	—
33.5	35.0	35.4	34.4	33.7	31.8	29.4	30.4	35.4	36.8	38.6	39.4	—
29.49	29.28	28.81	28.48	27.92	27.88	27.85	26.75	26.86	26.64	26.71	27.08	28.93

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	23.0	23.2	23.8	24.4	24.4	24.8	26.4	26.6	27.4	28.8	28.1	25.4
	2	27.0	28.6	29.4	30.2	30.3	31.2	31.7	31.5	32.0	32.0	32.1	32.5
	3	36.2	36.2	36.6	36.8	36.2	35.2	34.8	34.9	33.4	33.2	32.8	32.5
	4	28.6	26.0	24.6	23.2	22.2	22.2	21.6	21.0	21.6	21.6	21.8	21.6
	5	19.0	18.6	18.2	18.6	19.4	19.8	20.2	20.8	22.2	22.0	22.0	20.4
	6	22.6	23.0	23.4	24.0	24.2	24.8	25.4	27.0	27.0	27.0	27.0	27.7
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	10.8	11.6	12.6	13.8	15.2	17.2	17.4	17.6	18.4	17.8	17.8	17.2
	9	15.0	16.0	18.8	19.8	20.2	21.8	21.0	21.4	22.0	22.4	23.4	24.0
	10	25.2	24.0	24.0	24.4	24.8	25.8	26.4	25.8	25.4	24.5	23.5	22.6
	11	3.6	0.4	3.8	7.4	11.4	14.4	18.6	19.6	20.2	20.3	20.5	20.8
	12	28.0	29.0	30.6	31.6	32.4	32.6	32.6	33.2	34.7	34.4	34.6	34.8
	13	33.8	33.4	33.4	32.6	29.0	28.8	28.8	29.2	30.3	29.8	28.8	28.2
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	27.4	27.2	28.6	29.6	30.4	30.8	30.6	30.5	30.4	30.1	30.5	30.8
	16	33.8	34.4	35.0	35.4	37.6	39.4	40.2	40.2	40.1	39.5	38.8	38.0
	17	28.0	27.4	27.8	27.6	27.6	27.6	27.8	27.6	27.6	27.2	26.8	25.8
	18	21.4	21.4	21.4	23.2	24.3	24.2	24.6	24.8	26.8	25.4	25.4	24.3
	19	16.0	16.0	16.0	17.0	16.4	16.2	18.0	18.0	19.4	19.1	19.0	18.5
	20	6.8	5.8	5.4	6.4	8.6	10.2	12.6	14.4	14.8	14.8	13.2	12.2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	11.2	11.0	12.2	14.4	15.6	16.2	16.6	17.2	18.2	19.2	23.0	23.4
	23	34.2	35.2	36.8	36.8	37.8	39.8	42.6	40.0	39.8	38.8	38.2	36.9
	24	26.2	24.8	24.8	25.0	24.2	23.8	22.4	20.6	17.7	17.5	16.4	15.1
	25	- 1.2	- 2.3	- 3.4	- 3.8	- 4.4	- 1.0	0.0	1.0	2.4	4.2	4.4	2.8
	26	- 3.6	- 4.6	- 5.0	- 4.0	- 3.2	- 2.0	0.0	2.8	5.5	6.2	6.0	5.2
	27	- 5.8	- 6.4	- 6.0	- 5.0	- 3.2	- 0.6	2.0	4.2	6.5	8.0	7.9	5.1
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	- 1.6	- 2.2	- 3.2	- 2.6	- 0.4	2.4	3.4	3.6	5.2	5.8	5.0	4.7
	30	9.0	9.6	10.2	11.4	13.0	14.2	16.0	16.2	16.2	16.2	15.3	14.7
	31	0.6	0.4	- 0.6	0.0	1.8	4.1	6.5	8.7	10.9	11.9	12.0	10.5
Hourly Means	17.60	17.32	17.75	18.45	19.10	20.14	21.04	21.42	22.08	22.14	22.01	21.32	
FEBRUARY.	1	1.0	1.0	4.4	7.8	12.5	20.2	22.0	22.2	22.8	22.1	22.5	23.2
	2	20.4	20.2	20.4	22.4	23.6	24.5	25.9	26.2	26.2	26.1	26.0	23.2
	3	21.4	20.2	17.8	19.0	20.2	21.4	22.8	23.5	24.5	24.7	23.4	21.8
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	31.2	31.2	31.6	32.2	32.4	32.4	32.6	33.2	33.5	34.5	34.3	33.7
	6	32.6	32.6	32.8	33.0	33.4	34.0	34.6	35.6	34.7	34.3	32.8	32.2
	7	18.6	18.8	19.2	20.4	22.6	23.8	25.0	27.0	26.8	27.4	25.7	24.7
	8	18.2	17.8	18.0	18.6	21.0	23.4	25.6	26.3	26.2	25.8	25.3	24.5
	9	8.8	8.6	9.0	9.0	9.2	10.4	11.6	13.0	14.1	14.5	13.9	12.2
	10	15.8	16.0	16.2	17.2	18.8	20.0	21.2	22.8	24.0	25.2	25.3	24.4
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	15.2	14.6	18.0	21.4	25.1	26.0	27.4	28.8	30.7	32.1	32.2	31.5
	13	31.2	30.6	31.6	32.4	32.6	33.0	35.8	35.4	35.2	35.4	33.6	33.6
	14	21.6	20.6	19.6	21.6	21.0	22.4	23.0	24.8	25.7	27.3	27.5	24.2
	15	24.0	24.4	25.4	28.0	29.2	30.0	30.2	30.6	31.2	30.5	30.8	31.5
	16	28.0	27.6	28.4	30.0	31.2	31.8	32.0	32.4	32.0	32.4	32.4	32.1
	17	20.0	19.0	19.8	18.6	18.0	18.2	19.2	20.5	20.1	19.2	16.7	13.5
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	24.2	25.4	26.4	27.2	28.8	30.0	31.8	32.4	32.8	36.2	36.6	35.3
	20	33.4	33.6	34.6	36.0	37.2	37.2	37.8	38.9	38.8	39.9	39.3	38.0
	21	33.8	33.2	34.0	33.6	33.3	34.6	35.8	36.6	36.1	36.4	36.2	34.6
	22	29.0	28.6	30.4	32.6	33.6	35.4	36.8	38.2	39.4	38.6	38.6	38.2
	23	32.4	32.4	32.0	31.4	31.8	30.8	29.0	29.4	29.6	28.2	26.8	25.7
	24	8.4	7.8	8.8	10.2	12.4	15.6	17.0	19.8	21.2	22.2	22.2	22.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	24.2	23.0	25.0	29.4	32.6	32.7	34.1	37.3	35.1	34.4	34.1	33.7
	27	30.6	30.0	29.0	29.2	29.0	28.6	28.8	29.1	29.7	30.0	30.6	30.0
	28	21.8	21.4	22.8	25.4	28.6	30.0	31.8	32.0	32.4	32.5	32.4	30.2
	29	32.6	32.6	32.6	33.8	34.8	35.8	36.5	36.8	38.3	40.4	39.4	39.2
Hourly Means	23.14	22.85	23.51	24.82	26.12	27.29	28.33	29.31	29.64	30.01	29.54	28.53	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
23.5	22.5	21.4	21.7	21.8	22.9	23.9	24.4	25.4	25.6	26.5	26.8	24.70
32.7	32.7	32.7	32.9	33.3	34.2	35.0	35.0	35.0	35.0	35.8	36.2	32.44
31.8	31.8	31.0	30.5	29.8	27.5	27.0	27.2	27.4	28.0	29.3	29.8	32.08
21.4	21.4	20.8	21.9	19.7	19.5	19.6	20.1	20.0	20.1	19.9	19.8	21.67
18.7	16.8	16.3	18.1	19.2	19.7	19.2	18.0	18.4	20.0	21.5	22.0	19.55
27.7	28.1	27.9	27.6	27.5	27.8	—	—	—	—	—	—	23.29
—	—	—	—	—	—	15.1	16.0	16.1	15.2	14.2	12.6	—
17.1	16.3	15.9	14.6	13.9	14.0	12.0	9.2	11.5	12.0	12.8	13.4	14.59
24.8	25.4	25.4	25.5	25.5	25.0	25.5	26.1	26.5	26.6	25.8	25.2	23.05
20.0	18.2	18.2	18.8	19.5	17.2	15.6	13.6	10.0	11.4	10.3	6.4	19.82
20.4	21.4	21.6	22.9	23.2	24.2	24.9	25.5	25.8	25.5	25.9	27.0	18.72
34.6	34.0	35.1	36.2	36.4	37.0	37.1	37.0	37.0	39.1	39.2	36.6	34.49
27.5	27.0	25.8	25.6	25.7	25.6	—	—	—	—	—	—	—
—	—	—	—	—	—	23.0	22.5	21.7	22.2	23.4	23.6	27.49
31.0	32.0	32.4	32.5	32.6	32.8	33.0	33.2	33.2	32.5	33.0	33.2	31.18
37.4	37.6	37.0	36.9	35.7	34.7	34.2	33.5	33.3	33.0	32.3	30.0	36.17
26.2	25.2	24.8	24.7	24.7	24.8	24.4	24.0	23.5	22.6	22.0	21.4	25.71
24.0	23.0	23.0	23.2	22.5	21.7	20.7	20.1	19.8	18.4	17.0	15.8	22.35
17.6	17.7	16.0	14.2	13.5	12.6	11.4	10.6	10.1	9.1	8.6	7.8	14.95
12.8	13.5	11.8	10.9	10.4	10.7	—	—	—	—	—	—	—
—	—	—	—	—	—	10.0	10.2	10.3	10.5	10.8	11.0	10.75
23.5	25.0	25.8	27.0	28.3	29.2	30.2	31.3	32.2	32.5	32.5	33.5	22.88
35.8	33.4	34.4	33.8	32.8	31.7	30.7	30.1	29.6	29.0	28.0	27.6	34.83
12.9	11.1	10.0	9.0	7.0	5.0	3.6	2.0	0.7	0.2	0.3	0.6	13.32
2.2	1.8	1.5	0.9	0.4	1.0	1.8	2.4	2.8	3.0	2.8	3.0	0.50
4.5	3.2	2.2	1.2	0.0	1.0	1.9	2.7	3.4	4.2	5.0	5.4	0.38
4.2	3.1	2.7	2.2	2.2	2.0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	1.1	0.5	1.8	2.1	1.2	0.81
5.2	6.1	7.0	7.5	7.2	7.4	7.8	7.4	7.2	7.0	7.8	8.2	4.42
12.9	10.5	9.4	8.8	7.5	6.5	6.6	4.2	1.8	1.4	0.8	1.0	9.54
5.5	6.2	5.8	7.8	7.5	6.0	5.6	6.2	7.0	6.2	3.4	2.0	5.67
20.59	20.26	19.85	19.89	19.52	19.17	18.94	17.91	17.66	17.46	17.39	17.06	19.42
23.0	23.7	22.2	21.5	21.5	22.0	22.2	23.0	22.5	21.8	20.8	19.8	18.57
22.0	20.6	18.0	14.0	11.8	12.4	14.6	18.1	20.2	21.2	21.5	21.8	20.89
14.2	12.8	11.8	13.0	12.8	11.8	—	—	—	—	—	—	—
—	—	—	—	—	—	29.0	29.8	30.2	30.8	30.7	31.2	21.62
33.6	33.7	33.6	33.2	33.2	33.0	32.4	32.6	32.4	32.5	32.3	32.4	32.82
31.8	32.5	31.5	28.8	27.3	25.8	24.2	22.6	16.9	14.8	17.7	18.0	28.94
23.2	20.1	17.4	16.9	16.0	18.7	18.6	21.0	20.8	20.5	20.4	19.6	21.38
24.0	23.8	23.1	23.0	22.4	22.5	22.2	19.3	16.7	15.1	13.2	10.2	21.09
9.7	8.8	7.5	7.3	4.8	6.4	10.3	12.8	14.5	15.1	15.0	15.0	10.90
23.5	22.4	21.2	20.0	21.0	20.3	—	—	—	—	—	—	—
—	—	—	—	—	—	21.0	20.2	19.0	18.0	17.8	18.8	20.42
30.5	29.8	29.5	29.8	30.2	29.3	30.7	30.9	31.3	31.5	31.0	31.2	27.86
33.0	33.4	32.0	30.4	30.2	27.6	27.0	26.0	25.2	25.0	24.8	22.0	30.71
21.7	20.0	18.3	18.4	17.8	16.8	15.4	14.8	17.8	19.8	19.0	19.4	20.77
31.6	31.4	31.0	30.4	30.0	29.2	28.4	28.1	28.5	29.0	28.7	28.4	29.19
29.8	29.2	27.8	27.2	25.5	25.0	25.1	24.8	24.6	24.0	22.5	21.4	28.22
10.7	9.8	9.4	9.5	9.2	8.8	—	—	—	—	—	—	—
—	—	—	—	—	—	25.5	25.0	24.3	24.2	24.4	24.2	17.83
35.3	34.0	32.7	32.5	32.4	32.4	32.0	31.8	32.0	32.2	31.8	33.2	31.64
36.5	37.5	36.8	34.8	32.0	31.0	32.5	32.7	33.0	32.8	33.6	34.2	35.50
34.2	34.3	33.6	33.2	32.6	32.2	31.9	32.0	31.5	29.0	29.5	28.4	33.36
35.3	33.0	32.5	31.2	30.2	29.2	27.3	27.0	27.0	27.4	28.2	30.0	32.40
25.5	25.3	25.0	24.0	23.4	23.0	20.4	17.0	15.2	12.5	10.9	9.9	24.65
18.2	15.8	14.2	13.5	13.5	13.2	—	—	—	—	—	—	—
—	—	—	—	—	—	22.0	21.8	22.2	22.8	23.4	24.2	17.18
33.7	33.9	33.8	34.3	34.5	34.2	34.5	36.2	36.0	33.9	32.8	32.4	32.74
27.4	26.5	26.2	26.0	25.4	25.0	24.9	24.5	24.6	23.8	23.2	22.6	27.28
29.2	28.8	29.5	30.0	31.1	30.9	30.9	31.0	31.0	32.4	32.0	32.4	29.60
37.5	38.0	39.5	39.8	39.5	38.8	37.2	36.4	36.0	35.6	36.4	36.6	36.84
27.00	26.36	25.52	24.91	24.33	23.98	25.61	25.58	25.34	25.03	24.86	24.69	26.10



WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	36.6	36.6	37.6	39.4	41.0	41.3	41.0	41.4	42.0	39.1	39.5	39.4
	2	34.8	34.4	33.8	34.0	34.8	35.4	35.7	36.0	37.2	37.0	36.5	34.8
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	16.2	15.4	14.8	16.0	16.0	17.2	19.2	20.1	21.7	22.7	22.6	22.7
	5	11.6	13.0	14.8	18.8	23.4	28.0	30.2	32.0	32.6	32.8	32.7	32.7
	6	25.8	26.2	28.6	31.0	32.2	32.6	33.3	34.5	35.8	36.1	33.4	32.2
	7	29.0	29.4	31.8	35.0	36.2	36.4	38.0	38.8	40.5	38.3	37.7	36.5
	8	32.0	32.2	33.6	37.6	37.2	38.0	38.6	38.6	39.5	39.8	41.4	41.3
	9	29.8	28.8	28.6	29.6	32.6	31.6	31.8	32.5	32.7	32.6	31.5	32.2
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	28.6	29.6	32.4	35.8	37.6	39.2	40.8	44.0	44.8	43.4	41.4	39.7
	12	34.8	36.0	38.2	40.2	41.6	40.6	40.4	40.4	39.8	39.8	39.8	39.5
	13	38.8	39.4	39.8	41.8	44.2	44.0	43.8	42.8	42.2	41.0	40.4	39.2
	14	28.0	27.2	26.4	27.0	28.0	29.2	31.0	21.2	32.2	32.2	32.2	30.2
	15	29.0	29.6	29.6	29.8	30.2	30.0	31.6	32.5	32.6	32.7	34.0	34.1
	16	35.4	34.6	34.8	35.4	34.8	34.8	35.2	36.3	36.5	36.7	36.0	34.8
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	16.6	17.6	16.6	16.8	17.0	18.0	18.2	18.0	17.1	15.1	14.4	13.3
	19	13.0	14.8	16.4	19.8	22.6	23.2	24.8	26.5	29.4	29.1	28.1	27.2
	20	30.4	30.6	30.2	30.0	30.2	29.8	29.8	29.6	29.4	28.2	28.0	27.8
	21	13.9	13.5	14.8	16.9	18.5	20.8	22.4	24.8	26.2	27.2	28.0	28.1
	22	24.8	25.4	26.4	26.0	26.2	27.0	27.2	29.0	29.4	31.0	30.3	31.2
	23	18.2	18.4	19.6	21.0	23.0	24.4	26.0	27.5	29.0	29.8	31.7	31.5
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	38.0	38.2	38.4	37.8	38.6	36.8	35.8	36.5	37.7	39.5	43.3	41.5
	26	30.4	31.2	33.2	36.0	37.0	36.8	38.4	40.0	41.4	38.2	36.2	36.1
	27	30.4	30.4	29.2	28.8	28.3	28.2	28.3	29.2	30.4	30.6	30.3	30.3
	28	38.2	39.0	39.4	39.6	39.8	40.6	40.6	41.0	42.4	41.9	42.2	43.0
	29	23.6	21.6	21.6	22.8	25.0	26.6	28.6	30.2	30.4	30.3	29.0	29.3
	30	19.8	20.2	20.4	20.1	20.0	21.0	22.2	22.2	23.3	24.1	24.5	26.1
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	27.22	27.43	28.12	29.50	30.62	31.21	32.03	32.91	33.70	33.43	33.27	32.87	
APRIL.	1	19.6	23.2	28.0	29.8	30.5	32.2	32.4	32.8	34.0	35.4	35.5	34.8
	2	32.0	33.4	34.6	35.4	36.7	37.3	37.9	38.1	40.1	40.7	39.1	38.0
	3	34.4	35.4	39.4	41.4	44.6	45.8	48.1	50.8	51.9	54.3	54.4	53.0
	4	45.0	45.6	47.2	50.8	51.8	51.0	51.4	55.0	53.2	56.4	49.8	46.6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	35.6	36.0	36.6	37.4	36.6	36.4	36.6	38.2	38.0	38.3	37.8	38.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	35.4	40.6	42.8	47.2	46.2	51.4	52.2	57.5	61.4	62.1	58.7	60.5
	9	41.8	42.8	45.2	47.6	48.6	50.2	53.8	52.9	51.7	53.5	54.0	53.5
	10	35.0	40.6	43.6	46.6	49.2	51.6	53.8	56.4	57.5	58.5	58.3	56.6
	11	40.4	44.8	47.0	48.6	49.6	46.6	47.2	50.1	55.4	52.3	54.9	53.0
	12	41.8	46.2	49.4	52.0	54.0	54.8	56.2	57.8	57.8	59.5	58.8	59.0
	13	43.6	46.8	50.6	53.6	54.0	56.4	57.0	58.8	60.5	63.4	60.0	58.7
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	54.0	55.4	55.6	57.6	58.2	56.4	56.6	56.1	54.1	53.9	54.4	51.4
	16	45.6	44.0	44.6	49.4	52.0	57.8	56.6	54.0	52.0	51.6	51.8	51.5
	17	36.2	37.0	36.8	37.6	37.4	38.2	40.5	40.5	41.3	41.4	41.2	41.0
	18	29.6	32.0	34.4	37.0	39.6	41.6	42.4	43.5	44.6	44.4	44.3	44.0
	19	29.2	34.0	36.6	38.8	42.2	43.8	47.2	50.0	49.4	48.0	47.2	47.4
	20	35.0	41.0	43.4	44.6	45.8	48.0	50.0	50.2	52.4	50.0	48.3	48.7
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	47.0	47.6	47.0	47.8	48.4	48.0	47.4	48.2	47.6	50.8	48.5	47.7
	23	47.2	48.8	49.6	50.6	52.6	54.6	56.4	56.4	56.2	59.0	59.8	62.6
	24	49.8	53.4	55.2	54.4	61.0	61.4	62.0	60.8	59.2	58.2	57.4	56.4
	25	38.2	40.8	43.4	45.8	47.4	48.4	47.9	48.4	50.5	47.1	47.1	48.0
	26	44.6	44.8	46.4	46.2	45.6	45.2	45.4	45.4	43.8	42.8	41.7	40.0
	27	31.0	32.0	33.8	36.2	36.8	39.4	38.2	39.9	41.7	41.2	42.8	41.6
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	35.4	38.8	41.6	44.4	46.0	45.8	47.0	49.2	49.8	49.7	50.3	52.8
	30	37.6	40.0	43.6	46.6	49.2	48.3	52.1	54.8	52.2	51.3	49.2	48.4
Hourly Means	38.60	41.00	43.06	45.10	46.56	47.62	48.65	49.88	50.25	50.55	49.81	49.33	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
38.8	37.8	38.0	38.8	41.8	47.2	46.7	45.8	39.3	37.5	36.4	35.8	39.95
34.3	32.2	31.8	30.4	30.2	29.5	—	—	—	—	—	—	31.34
19.8	18.4	17.2	16.8	15.2	13.7	27.5	25.7	23.9	22.9	21.4	18.0	16.39
32.6	32.5	31.2	31.0	31.0	31.2	12.5	12.0	10.6	10.6	10.9	11.0	27.80
31.6	31.0	29.8	30.0	30.4	29.4	31.5	30.0	29.2	28.5	28.2	27.6	30.80
34.4	33.0	31.5	31.3	30.8	29.9	29.6	29.6	29.4	29.7	29.4	27.6	33.36
40.8	42.2	41.2	40.7	39.4	38.5	29.8	29.6	29.4	30.8	31.0	31.6	37.38
31.7	28.9	27.9	27.5	26.8	26.4	37.2	35.8	35.0	33.8	32.5	30.2	30.08
—	—	—	—	—	—	—	32.5	30.0	29.2	29.2	28.8	36.42
36.2	35.2	35.6	35.3	34.8	34.8	34.7	34.2	33.8	33.6	33.5	35.2	39.28
39.4	39.7	39.7	39.0	38.8	39.0	38.8	39.4	39.5	39.4	39.7	39.2	36.83
37.8	37.0	35.8	33.4	32.3	31.1	30.5	30.3	30.0	30.3	29.1	29.0	28.66
28.8	27.1	26.8	27.2	27.7	28.0	27.5	27.6	28.2	27.8	28.0	28.4	33.25
34.3	34.9	35.0	35.5	35.0	35.2	35.2	35.4	35.6	35.9	35.2	35.2	30.05
32.8	31.6	31.0	29.3	29.3	29.0	—	—	—	—	—	—	14.82
—	—	—	—	—	—	21.4	20.0	18.5	19.0	17.0	17.0	25.43
12.7	12.5	12.5	12.7	12.8	12.6	13.8	13.8	13.6	13.2	13.2	13.6	25.33
26.6	26.5	26.5	27.3	27.8	28.2	28.4	28.5	28.1	28.3	29.5	29.8	22.68
26.8	26.3	26.2	25.3	23.9	22.8	20.8	19.0	17.0	15.6	15.0	15.2	25.82
24.8	24.5	24.5	24.2	23.5	23.8	23.8	24.3	23.8	23.8	24.0	24.2	27.96
29.5	26.4	26.0	25.4	24.9	24.2	24.0	23.5	23.2	20.3	19.5	19.0	34.98
31.8	27.2	24.9	23.0	22.7	22.0	—	—	—	—	—	—	35.06
—	—	—	—	—	—	36.0	37.6	36.9	37.8	36.0	35.0	30.94
38.4	34.0	30.5	30.2	30.2	31.7	32.6	30.8	29.2	29.5	30.0	30.4	37.64
35.6	35.0	34.5	34.1	34.0	34.1	33.9	33.2	33.6	33.5	32.6	32.4	25.47
30.4	30.7	31.2	30.8	31.0	30.6	32.0	32.2	32.3	33.9	36.0	37.0	20.64
43.8	41.4	39.8	36.5	36.0	35.8	33.2	31.5	31.7	30.8	28.9	26.2	29.94
28.8	27.7	27.2	25.9	24.8	23.4	22.8	22.6	22.0	21.2	20.8	25.2	31.85
25.5	22.7	20.7	19.0	18.5	17.8	—	—	—	—	—	—	30.63
—	—	—	—	—	—	18.4	17.4	18.0	18.7	17.4	17.4	29.88
31.85	30.63	29.88	29.25	28.98	28.84	29.04	28.45	27.73	27.52	27.08	26.92	29.94
31.7	30.3	30.8	30.5	30.5	29.8	30.6	31.0	31.4	31.5	31.4	31.2	30.79
37.0	36.0	37.1	37.4	36.0	36.0	34.8	35.6	35.9	36.8	36.2	34.6	36.58
60.0	48.0	43.2	41.8	42.8	47.5	49.3	49.8	49.1	44.5	43.8	44.2	46.56
45.6	45.1	43.5	42.8	42.2	40.7	—	—	—	—	—	—	44.86
—	—	—	—	—	—	33.8	34.5	35.2	37.4	36.6	35.4	37.02
38.3	38.2	38.5	38.4	38.1	38.0	—	—	—	—	—	—	49.31
—	—	—	—	—	—	36.0	35.1	35.8	36.2	35.4	35.0	41.63
57.1	55.5	52.7	52.5	52.2	46.7	45.5	42.7	42.0	40.2	40.2	40.2	46.91
50.5	45.4	43.0	41.7	40.3	39.3	38.2	36.1	35.8	35.2	35.3	34.6	46.47
53.7	50.1	48.0	46.4	44.0	43.5	40.7	39.0	38.5	37.5	38.0	38.8	50.47
49.6	47.2	45.8	46.4	45.0	43.8	42.6	41.8	40.8	40.0	41.3	41.0	53.73
52.5	50.4	49.7	48.8	46.9	46.4	44.8	46.8	44.6	44.7	45.2	43.2	51.06
53.7	53.2	50.5	49.2	47.2	46.8	—	—	—	—	—	—	47.60
—	—	—	—	—	—	55.4	55.3	54.7	53.1	54.3	52.8	35.20
49.4	47.2	46.8	46.3	45.4	47.0	46.8	46.5	46.2	46.7	47.4	46.0	36.09
53.6	53.0	47.6	46.4	45.9	45.5	43.0	41.6	40.8	39.0	38.4	36.8	40.30
40.5	37.4	34.0	31.6	30.0	29.4	29.2	29.1	28.8	28.8	28.6	28.4	45.78
41.0	37.2	34.0	32.8	33.1	32.9	32.2	30.3	29.7	29.1	28.5	28.0	47.75
44.5	42.7	41.2	40.6	38.5	37.5	35.8	35.5	35.4	34.5	33.8	33.4	53.62
46.7	44.8	42.7	41.0	39.8	38.0	—	—	—	—	—	—	50.53
—	—	—	—	—	—	49.5	49.0	48.2	47.8	47.0	46.8	45.40
48.0	48.2	49.0	50.1	49.5	49.0	46.7	45.0	45.0	47.0	46.5	46.0	40.35
64.8	64.6	51.8	49.8	48.6	54.2	51.0	50.2	50.5	48.2	49.8	49.6	36.27
54.8	51.8	47.0	44.2	44.0	43.2	42.1	41.4	40.3	38.1	38.7	38.0	42.70
47.1	46.7	45.2	45.9	45.9	45.5	43.9	43.4	42.0	44.0	43.5	43.4	47.59
40.0	39.8	38.7	37.5	37.8	37.8	37.5	37.2	34.5	33.2	31.7	30.8	44.30
39.6	37.4	35.5	34.2	32.8	32.0	—	—	—	—	—	—	44.91
—	—	—	—	—	—	36.2	35.4	34.2	33.2	32.0	33.4	45.81
49.7	47.5	43.5	41.5	39.8	38.4	37.2	36.2	35.2	34.6	34.5	35.8	43.47
48.3	47.5	47.0	47.2	46.8	46.0	46.5	47.3	47.9	46.7	47.4	50.2	42.60
—	—	—	—	—	—	—	—	—	—	—	—	41.72
47.91	45.81	43.47	42.60	41.72	41.40	41.17	40.63	40.10	39.54	39.42	39.10	41.40

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	52.0	52.8	57.2	59.0	60.5	60.4	60.4	59.4	58.0	57.6	57.6	58.4
	2	52.6	55.2	56.4	57.6	56.2	59.6	60.8	61.7	61.3	62.3	59.8	56.4
	3	50.2	54.0	56.6	56.4	57.2	59.8	60.2	59.8	58.8	57.5	60.7	62.8
	4	47.2	48.4	49.8	51.8	49.6	51.4	53.2	51.8	51.8	51.8	49.3	49.8
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	45.0	46.0	45.6	45.8	47.4	49.8	53.0	53.7	54.4	55.1	53.8	48.6
	7	45.8	47.2	47.8	48.4	49.6	51.6	51.6	51.2	53.8	54.4	55.0	57.3
	8	51.4	52.4	53.6	55.2	50.6	50.2	51.8	50.8	52.0	52.9	52.5	54.9
	9	40.8	42.2	43.6	44.8	47.2	48.6	49.0	49.5	49.8	51.0	50.4	51.4
	10	37.6	42.6	43.2	44.6	45.0	46.0	44.8	46.0	46.0	45.0	43.5	42.7
	11	49.2	48.2	50.0	56.6	60.4	61.2	64.4	63.7	68.0	67.5	64.1	65.3
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	36.8	38.6	41.4	41.0	40.8	47.0	42.6	47.0	39.6	38.8	38.5	37.5
	14	43.0	43.6	44.6	47.0	48.4	49.2	52.4	53.2	52.0	52.9	56.4	54.9
	15	42.2	45.8	49.0	51.2	52.6	55.6	58.8	60.1	59.1	58.0	55.0	56.6
	16	47.8	49.2	50.6	52.4	58.6	57.6	56.6	55.5	54.8	53.2	53.0	53.5
	17	44.6	45.0	45.8	49.0	54.0	52.8	53.6	52.6	51.1	50.1	49.2	48.5
	18	46.2	46.8	47.0	50.6	51.0	52.0	49.2	48.6	50.6	49.2	51.5	50.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	45.2	45.4	48.0	51.6	54.4	52.6	51.8	57.2	57.1	54.8	52.1	48.2
	21	32.8	32.6	32.6	34.0	35.8	37.4	39.0	42.2	43.5	44.2	45.9	46.2
	22	32.6	39.2	42.6	44.6	47.8	49.4	50.4	50.8	50.6	50.5	52.7	51.3
	23	36.4	39.0	47.2	49.6	52.8	56.5	58.1	61.1	60.1	58.8	58.2	58.3
	24	50.0	52.0	53.6	56.0	58.0	60.0	59.6	60.7	59.7	58.0	61.0	64.8
	25	54.4	57.6	60.8	62.4	66.4	67.5	69.6	69.7	68.3	68.4	68.7	68.2
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	56.6	57.8	58.8	60.6	62.3	63.9	62.7	63.1	—	—	62.8	61.0
	28	54.0	54.8	56.4	57.4	59.2	59.8	59.0	59.6	60.1	59.8	58.8	57.8
	29	49.4	52.5	52.6	53.3	54.4	55.8	56.9	57.8	59.6	58.6	58.6	58.8
	30	50.8	52.2	52.6	53.2	55.6	56.0	61.8	65.0	60.8	59.8	59.4	60.0
	31	54.8	53.5	52.8	53.2	53.6	52.5	54.6	55.0	55.8	55.4	54.2	58.5
Hourly Means	46.27	47.95	49.64	54.38	52.94	54.23	55.03	55.81	55.26	54.83	54.91	54.89	
JUNE.	1	48.2	53.0	53.9	54.0	56.6	57.4	61.4	61.2	61.8	60.4	62.0	64.6
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	44.2	46.4	48.4	52.3	55.0	54.9	54.7	56.8	57.6	57.7	59.0	59.8
	4	44.0	47.0	50.0	53.4	56.0	56.6	57.6	58.6	58.6	59.8	59.6	59.8
	5	51.6	52.6	53.8	55.4	55.6	58.6	62.8	64.6	64.0	61.6	63.4	63.2
	6	58.7	62.5	65.5	65.8	64.6	62.8	62.6	61.9	61.4	59.4	58.2	56.8
	7	49.8	49.5	50.4	52.6	55.0	58.0	60.0	63.3	63.0	64.2	58.0	56.8
	8	37.6	40.2	43.8	45.8	47.2	48.8	50.0	51.8	52.8	54.2	55.0	53.1
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	43.6	45.9	45.4	46.4	46.8	48.8	45.2	53.4	45.0	45.4	45.2	44.4
	11	38.8	42.6	45.0	45.6	46.6	50.3	52.0	52.4	52.2	55.4	56.8	57.8
	12	44.6	47.0	49.2	50.2	52.2	54.5	55.8	56.9	55.6	54.6	54.0	54.3
	13	48.0	51.5	54.2	55.4	57.0	57.8	57.8	59.4	60.6	63.2	62.2	61.0
	14	48.7	52.2	56.6	57.4	58.2	59.0	58.8	62.2	64.6	63.6	65.6	62.6
	15	53.2	55.8	57.8	61.4	59.8	62.2	64.0	64.6	64.0	60.5	62.0	63.7
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	58.2	59.6	62.0	63.3	63.8	66.8	66.5	64.9	66.8	65.4	64.8	66.2
	18	62.6	65.5	67.2	69.5	70.0	68.8	71.0	69.8	72.2	75.2	72.8	75.3
	19	64.2	68.0	68.4	70.6	71.0	68.6	68.4	67.3	68.9	70.1	69.1	68.7
	20	55.6	55.6	57.4	58.4	58.8	61.5	60.1	61.7	62.0	60.6	60.4	67.0
	21	52.2	53.6	56.0	54.8	58.0	57.4	58.2	58.0	58.6	60.4	62.0	64.6
	22	51.2	52.6	54.2	54.6	55.0	56.0	54.8	57.2	57.2	57.0	56.6	56.2
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	56.0	58.4	61.4	63.0	64.2	63.0	67.2	68.4	67.4	65.0	65.0	67.3
	25	62.5	62.4	62.6	64.6	67.8	69.6	67.2	69.5	71.8	70.1	73.2	74.6
	26	59.4	60.0	60.6	60.9	62.2	64.0	65.0	64.7	64.0	63.5	62.9	62.4
	27	59.0	59.2	58.4	58.7	58.2	57.6	57.6	57.2	58.8	62.4	63.0	62.6
	28	56.6	57.6	56.4	56.4	58.0	59.0	59.4	59.4	58.6	60.8	60.2	64.6
	29	51.0	52.8	54.2	55.0	57.0	57.6	58.4	59.7	60.7	61.7	61.9	63.0
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	51.98	54.06	55.71	57.00	58.18	59.18	59.86	61.00	61.13	61.29	61.32	62.02	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
56.7	55.8	56.4	55.0	54.5	54.5	52.7	51.3	51.0	51.5	51.4	50.0	55.61
58.5	54.9	55.8	54.0	54.2	55.5	55.0	54.6	52.8	50.0	48.0	48.4	55.90
51.8	50.0	52.4	53.7	53.5	52.2	49.8	48.9	49.5	48.3	46.5	46.2	54.03
48.8	48.7	48.4	48.0	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	44.5	43.4	43.4	43.3	44.8	45.4	48.39
48.2	49.0	49.8	50.2	49.2	48.2	48.2	48.0	47.5	47.3	45.9	45.0	48.95
59.2	52.3	49.3	47.3	46.5	47.2	48.3	48.0	47.6	48.2	48.6	51.6	50.32
49.8	47.0	45.1	44.8	43.0	42.5	41.6	41.2	41.0	40.4	40.2	39.8	47.70
50.0	46.5	43.5	41.2	40.2	38.9	38.0	38.1	36.5	34.3	33.0	33.4	43.41
41.9	41.8	40.7	40.5	41.1	41.4	42.7	43.0	43.8	45.4	50.0	51.4	43.78
66.0	65.4	60.5	57.8	55.2	52.4	—	—	—	—	—	—	—
—	—	—	—	—	—	38.4	37.9	34.4	33.3	33.9	34.4	53.67
37.2	36.8	37.5	36.7	38.0	39.3	41.1	40.8	41.7	43.5	43.4	41.0	40.40
56.0	50.2	46.5	46.0	43.6	42.8	41.4	40.4	39.0	38.2	39.1	38.6	46.64
53.0	51.0	49.6	49.0	49.6	49.4	50.5	50.5	49.1	49.0	47.7	47.0	51.64
51.8	50.2	45.8	45.4	44.9	44.8	44.7	44.5	44.0	43.6	43.4	43.8	49.57
48.0	48.0	48.3	48.4	48.0	45.4	46.2	47.3	47.8	46.6	46.2	46.0	48.44
49.8	47.6	44.0	42.4	40.0	38.2	—	—	—	—	—	—	—
—	—	—	—	—	—	43.5	43.0	43.6	44.0	43.5	44.4	46.54
44.7	42.2	41.7	41.0	39.8	33.2	37.0	35.6	33.7	32.4	32.0	33.0	44.57
46.0	43.2	39.6	37.7	36.2	32.8	31.6	31.0	30.1	29.5	28.6	29.0	36.73
49.9	46.5	45.2	41.3	41.0	41.7	38.8	37.2	36.8	36.5	36.0	35.6	43.71
57.3	56.8	52.5	52.8	51.5	50.4	49.2	47.7	46.6	45.4	44.7	45.0	51.50
63.8	58.8	56.8	55.6	54.6	54.7	54.0	53.1	52.8	53.2	53.1	53.0	56.54
64.8	64.3	61.6	59.1	60.2	61.4	—	—	—	—	—	—	—
—	—	—	—	—	—	57.2	57.2	56.6	56.4	55.0	55.2	62.12
61.2	62.0	61.5	61.0	60.0	58.2	58.4	56.8	55.0	54.2	53.4	52.5	59.26
55.5	54.5	52.3	51.0	50.6	49.8	50.0	48.7	47.0	46.6	45.5	46.5	53.95
55.0	52.2	49.2	47.4	47.5	47.2	48.0	48.9	49.2	49.0	49.8	50.4	52.59
58.2	57.2	58.0	58.0	57.8	58.2	57.1	57.0	56.4	55.4	55.0	55.8	57.14
60.5	55.2	52.1	50.4	49.2	46.8	45.6	44.8	44.0	43.8	42.8	41.5	51.27
53.47	51.41	49.78	48.73	48.07	47.39	46.43	45.90	45.22	44.79	44.50	44.70	50.14
60.0	61.8	60.0	59.5	56.2	55.8	—	—	—	—	—	—	54.40
—	—	—	—	—	—	44.6	43.4	43.0	42.6	42.8	41.5	—
58.8	53.6	49.6	48.2	45.6	43.8	42.9	42.7	41.9	41.9	41.2	40.0	49.87
56.4	53.0	51.0	49.8	48.7	47.9	48.3	48.7	48.8	49.4	49.3	50.6	52.62
63.0	58.7	57.9	57.6	57.5	55.7	56.4	56.6	56.8	56.8	57.6	57.2	58.29
53.7	54.6	52.8	51.4	50.4	49.6	48.4	48.3	48.5	49.7	49.8	48.8	56.09
55.6	51.0	44.2	41.7	39.2	38.0	37.2	36.0	35.3	33.6	33.2	33.6	48.30
52.4	50.2	50.3	50.0	49.0	47.6	—	—	—	—	—	—	—
—	—	—	—	—	—	45.8	43.4	42.6	41.8	42.0	40.2	47.32
44.8	45.0	42.4	41.0	39.8	39.0	38.2	38.3	37.3	37.0	34.3	34.6	42.80
56.4	53.6	49.0	46.1	44.2	42.0	40.7	40.4	41.0	40.4	40.2	41.0	47.08
51.4	49.9	47.9	47.2	47.4	46.5	45.0	44.0	44.0	44.6	45.6	46.1	49.52
60.0	57.4	53.3	50.2	48.6	47.6	46.4	45.2	45.0	45.2	45.2	45.3	53.23
62.6	59.4	56.0	54.2	53.2	51.0	49.5	49.6	49.6	49.0	47.8	48.8	55.84
62.3	58.7	55.9	54.3	52.9	52.5	—	—	—	—	—	—	—
—	—	—	—	—	—	57.9	55.9	55.4	56.6	56.8	57.4	58.57
66.0	64.2	62.2	62.4	62.0	61.7	62.0	61.6	61.0	59.8	60.0	60.5	62.99
74.9	70.0	67.0	64.5	64.7	65.0	64.8	63.0	64.2	62.4	62.8	61.8	67.71
66.8	66.0	63.2	61.1	60.0	60.2	61.2	60.2	59.6	59.1	58.0	55.4	64.75
69.8	67.6	61.2	53.0	51.8	50.6	49.4	49.7	49.3	49.3	49.3	50.4	57.10
62.6	60.8	53.8	52.1	52.3	51.4	51.7	50.3	50.0	48.7	49.6	50.0	55.30
57.4	56.2	53.4	50.4	48.8	49.0	—	—	—	—	—	—	—
—	—	—	—	—	—	54.4	54.0	55.2	54.0	54.5	53.8	54.32
62.5	62.2	62.9	63.2	66.0	66.0	62.6	60.2	61.2	60.2	61.2	62.0	63.19
70.6	67.2	63.8	63.2	63.0	62.5	61.6	59.6	59.4	59.2	59.0	59.3	65.18
62.8	63.2	62.4	61.6	60.2	60.2	60.0	60.0	58.9	58.6	59.2	59.6	61.51
63.2	61.6	61.2	61.3	61.5	61.2	61.4	63.6	59.8	58.6	57.0	56.8	60.00
61.2	56.7	54.8	52.9	51.4	50.4	49.8	49.5	48.6	46.3	45.6	46.0	55.00
63.2	59.7	55.9	53.4	52.0	51.6	—	—	—	—	—	—	—
—	—	—	—	—	—	62.8	63.0	62.8	63.0	63.0	64.8	58.67
60.74	58.49	55.68	54.01	53.06	52.27	52.12	51.49	51.17	50.71	50.60	50.62	55.99

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	67.0	69.6	70.0	70.2	69.9	71.9	71.9	71.4	70.7	69.8	69.5	66.3
	2	51.8	57.6	60.2	61.8	63.3	65.9	66.1	66.3	65.6	66.4	67.2	64.0
	3	55.6	56.9	58.6	58.6	59.3	59.2	59.1	59.2	58.2	56.4	56.4	57.2
	4	44.0	45.5	45.4	46.8	50.8	51.2	51.8	52.8	53.0	55.6	58.8	60.6
	5	50.4	53.8	55.4	55.4	56.4	57.6	58.1	59.6	60.4	59.8	59.6	58.9
	6	66.0	61.2	65.2	63.6	63.4	64.0	64.9	65.0	63.0	63.5	63.0	61.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	48.6	50.6	53.3	55.4	56.7	57.6	58.9	60.6	61.4	63.6	66.2	65.5
	9	57.5	61.7	62.7	64.2	66.8	68.0	68.2	65.3	65.4	64.8	64.8	64.6
	10	68.4	71.0	70.0	68.3	68.7	69.6	68.3	67.6	68.6	68.2	68.5	66.3
	11	57.8	59.4	60.8	62.0	63.6	64.4	64.8	66.8	66.7	69.4	70.2	70.0
	12	54.4	58.5	58.7	59.7	58.4	60.7	62.4	66.0	67.8	68.2	67.6	69.5
	13	61.9	63.0	63.1	66.0	65.6	66.3	68.1	69.0	68.4	69.7	67.0	68.4
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	56.5	58.5	60.0	59.6	60.0	60.8	60.2	60.5	61.2	62.0	61.8	60.8
	16	57.6	57.6	58.0	60.4	60.8	62.5	64.0	65.0	59.0	65.4	63.0	64.2
	17	55.8	58.0	60.0	61.4	62.2	60.4	59.5	68.1	64.6	68.0	68.0	66.8
	18	52.8	55.8	60.4	62.3	65.0	66.8	67.7	69.0	67.8	67.6	67.6	68.0
	19	64.8	65.6	67.0	65.6	67.8	70.8	66.4	66.2	68.0	68.6	67.7	68.6
	20	57.0	58.0	60.7	62.0	63.4	64.0	65.0	65.2	66.6	65.4	66.0	68.8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	59.6	63.2	64.0	66.0	68.0	71.0	70.8	71.6	72.0	72.0	73.0	73.4
	23	62.8	62.4	62.8	63.8	65.6	67.6	67.0	68.3	67.6	67.7	68.1	66.0
	24	59.3	59.0	60.2	61.2	62.0	64.8	64.9	65.6	65.3	64.5	63.6	64.0
	25	59.2	59.2	60.6	61.6	60.6	62.3	61.6	64.0	62.1	62.8	64.2	67.8
	26	55.0	55.7	57.0	59.0	59.4	59.4	61.0	63.0	62.2	63.6	65.4	65.6
	27	54.2	59.0	62.8	62.8	63.8	65.0	65.0	65.7	63.7	65.7	69.6	69.2
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	60.0	63.2	65.0	65.6	67.8	69.4	69.2	71.2	73.6	73.4	72.8	72.2
	30	65.8	68.4	69.2	70.1	70.0	70.6	71.5	70.8	71.4	70.2	70.1	70.1
	31	68.7	70.5	71.8	72.2	72.2	74.8	76.1	74.7	75.4	77.0	72.5	73.8
Hourly Means	58.24	60.11	61.59	62.43	63.39	64.69	64.91	65.87	65.54	66.27	66.38	66.36	
AUGUST.	1	60.9	62.4	64.0	65.6	68.3	69.5	71.5	73.3	72.0	75.0	75.8	74.0
	2	56.4	61.0	62.4	63.6	64.4	63.0	63.4	64.2	64.3	64.4	65.2	66.0
	3	54.2	55.6	59.1	61.9	65.3	66.4	67.6	68.4	66.0	65.2	65.2	66.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	47.8	52.7	55.3	58.1	61.1	62.5	64.9	64.7	67.8	66.8	65.2	65.6
	6	61.0	62.0	62.5	63.1	66.2	68.5	65.4	64.7	66.6	64.6	62.8	62.8
	7	50.4	54.2	57.0	61.4	63.5	65.4	68.1	63.0	66.6	65.8	65.8	65.0
	8	62.8	63.8	64.0	66.4	66.8	67.6	68.6	69.0	70.7	73.9	73.3	72.0
	9	65.2	65.3	66.6	66.8	68.3	69.4	69.6	69.4	70.2	71.2	68.6	72.6
	10	56.8	57.8	58.4	57.9	61.2	63.4	63.4	60.7	60.4	61.5	59.4	60.4
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	48.4	51.4	52.7	54.7	56.0	56.4	60.2	60.0	62.2	60.5	62.8	63.0
	13	52.6	53.8	55.9	60.2	62.0	62.8	63.8	64.0	64.6	61.4	60.8	60.9
	14	57.4	60.0	61.8	63.0	64.2	65.4	66.0	66.2	69.0	67.9	67.2	66.0
	15	61.6	64.6	66.4	67.3	68.1	69.5	69.5	71.5	72.3	69.6	69.2	70.6
	16	60.3	64.4	67.4	68.8	70.2	72.2	73.6	74.2	71.4	75.0	72.2	70.0
	17	61.6	62.6	62.2	62.9	63.3	62.0	62.5	68.0	67.8	69.6	69.0	61.9
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	65.6	66.2	66.6	68.7	69.6	72.0	73.2	71.8	73.2	75.0	75.5	74.6
	20	66.2	66.8	68.0	64.6	64.4	62.8	62.0	61.4	63.6	63.8	62.3	61.3
	21	48.2	50.4	52.7	55.1	57.0	57.8	57.3	58.3	57.4	58.7	60.4	59.2
	22	56.6	57.7	57.7	58.0	58.9	59.7	60.9	63.2	69.4	72.6	71.4	70.4
	23	64.8	66.4	67.0	65.6	60.9	61.8	62.1	60.8	60.8	61.8	62.6	60.3
	24	48.0	51.4	54.4	57.6	58.6	63.0	57.4	59.9	57.7	58.4	56.9	57.3
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	47.6	50.4	54.8	56.4	59.4	60.0	61.0	61.9	62.3	60.4	58.0	57.3
	27	54.3	54.9	56.1	56.7	57.4	57.6	58.6	61.4	58.0	62.9	59.0	61.6
	28	53.2	54.5	56.6	58.0	61.0	61.8	62.2	56.0	58.0	61.8	61.8	60.0
	29	53.5	54.2	55.8	59.4	59.8	60.2	61.2	61.2	63.8	61.6	63.6	62.7
	30	50.0	52.2	55.0	58.6	61.4	61.0	63.2	66.3	63.3	63.7	64.1	63.6
	31	61.0	62.2	63.0	63.0	66.9	66.8	66.4	67.4	67.2	68.9	69.2	71.2
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	56.53	58.48	60.13	61.61	63.12	64.02	64.58	64.91	65.43	66.00	65.46	65.06	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
66.0	61.2	59.4	58.6	55.0	55.2	53.2	53.6	52.0	50.8	52.0	51.5	62.78
61.6	61.3	62.0	60.4	59.0	58.6	58.0	58.2	58.0	58.0	54.8	54.1	60.84
55.8	53.2	49.6	48.2	47.9	47.6	46.4	44.0	41.6	40.3	39.6	39.8	52.03
60.2	57.0	51.5	49.2	49.0	49.0	48.2	47.4	45.6	44.2	43.6	44.6	50.24
58.9	59.4	60.0	60.0	60.6	58.6	61.0	62.0	61.0	61.8	60.8	62.2	58.82
61.2	62.5	57.2	55.6	53.8	52.8	—	—	—	—	—	—	57.42
—	—	—	—	—	—	45.6	45.4	45.2	45.2	44.8	45.1	57.55
65.0	62.4	59.8	61.4	56.8	56.0	55.0	54.9	53.6	50.4	54.2	53.4	64.79
68.6	68.0	66.2	63.8	62.9	64.1	63.8	63.8	63.4	64.8	65.3	66.2	63.99
62.8	61.0	60.5	60.4	60.4	59.9	59.0	58.6	58.0	57.8	57.0	56.8	60.63
68.2	66.3	61.6	59.2	58.0	56.4	53.8	50.4	51.4	52.8	50.6	50.5	61.20
67.4	62.6	58.8	57.2	56.8	57.4	57.4	59.0	60.2	59.6	60.2	60.2	63.08
68.0	65.8	63.2	62.0	61.6	62.0	—	—	—	—	—	—	59.53
—	—	—	—	—	—	55.7	56.5	56.8	55.4	55.3	55.2	60.35
59.6	59.6	58.8	60.0	60.2	58.6	58.4	58.6	58.6	58.2	58.3	58.0	58.06
69.4	65.3	61.9	61.0	60.0	59.0	57.2	55.8	56.2	55.8	55.0	54.4	64.13
65.5	64.8	57.8	54.6	52.4	51.7	51.4	49.4	49.0	48.6	47.8	47.6	62.80
68.8	66.0	64.6	65.0	64.0	63.2	63.8	63.3	61.7	61.2	63.4	63.3	60.54
64.4	63.6	59.0	58.2	57.1	56.8	57.1	57.2	57.6	57.3	56.1	55.6	67.40
68.9	65.8	63.5	55.3	53.5	52.6	—	—	—	—	—	—	64.24
—	—	—	—	—	—	57.0	55.8	54.7	54.9	54.6	54.3	62.07
75.6	72.6	71.0	70.6	65.8	64.7	63.8	61.0	61.6	62.4	61.8	62.0	59.62
66.8	68.5	66.4	64.6	64.0	63.2	60.5	59.8	59.6	59.4	59.6	59.7	57.64
62.6	61.6	61.2	61.8	61.6	61.2	61.2	61.1	61.0	61.2	60.9	59.8	60.31
67.4	64.6	58.4	56.6	54.8	53.6	53.7	54.0	55.5	55.6	55.8	54.8	66.96
68.3	63.8	57.2	55.2	53.7	52.6	52.0	51.6	51.2	50.8	50.4	50.2	69.24
68.8	63.5	57.3	54.0	52.1	52.4	—	—	—	—	—	—	68.70
—	—	—	—	—	—	57.0	56.6	55.0	55.6	54.4	54.2	61.29
70.8	69.6	68.2	68.0	66.2	63.6	62.4	62.0	61.8	63.6	63.6	63.9	64.75
69.2	69.2	68.8	68.6	68.6	68.8	68.8	68.8	68.6	68.4	68.4	67.3	59.61
74.8	71.6	64.4	64.6	65.0	65.4	62.4	62.2	60.9	59.8	59.2	58.8	58.95
66.10	64.10	61.05	59.78	58.56	57.96	57.18	56.70	56.29	56.07	55.83	55.69	61.02
74.0	67.4	65.8	65.2	62.8	58.9	57.7	55.2	54.2	53.8	53.0	53.6	61.83
64.7	62.3	59.7	58.4	57.2	55.8	54.8	53.0	52.6	51.2	51.6	51.0	62.29
65.0	62.2	62.0	61.3	60.6	60.2	—	—	—	—	—	—	67.38
—	—	—	—	—	—	48.0	47.8	47.4	46.8	46.6	45.7	65.28
62.4	60.0	59.6	59.8	59.6	60.8	61.8	62.0	61.5	62.2	61.3	61.0	55.39
62.4	59.2	55.6	54.7	53.2	51.8	51.6	51.7	51.6	50.3	49.2	48.8	54.75
64.3	63.8	62.3	62.0	61.6	61.9	62.0	62.2	62.2	61.6	61.4	61.2	59.31
70.3	68.0	67.0	66.2	64.8	65.0	66.4	66.4	66.4	65.8	65.8	66.2	62.33
67.6	69.0	67.8	66.0	63.6	61.2	60.4	60.0	57.6	58.0	56.2	56.2	64.95
59.8	58.6	55.0	52.4	52.6	52.2	—	—	—	—	—	—	68.32
—	—	—	—	—	—	48.2	47.4	47.0	45.2	43.4	46.2	62.50
61.0	57.2	55.0	53.8	53.2	52.8	51.4	49.6	48.4	47.4	47.5	48.3	69.07
61.1	59.4	58.5	57.3	57.8	58.2	57.4	57.6	58.0	58.6	58.3	58.4	58.72
65.3	62.3	61.6	59.4	59.4	58.6	58.6	58.2	58.0	59.2	60.0	61.2	55.56
68.3	65.0	64.4	62.0	61.0	61.0	60.2	60.4	60.2	58.4	59.0	58.8	64.42
68.2	70.0	69.4	67.5	66.7	66.5	65.7	67.6	66.9	65.6	64.0	62.0	57.20
59.3	57.3	56.2	55.9	55.6	53.6	—	—	—	—	—	—	54.02
—	—	—	—	—	—	62.4	64.0	65.4	65.5	65.8	65.6	56.13
75.1	73.2	69.9	68.4	67.7	65.9	64.9	64.4	64.7	64.6	63.4	63.4	55.46
61.6	61.8	57.6	55.0	53.6	53.0	52.6	51.4	50.0	49.4	48.6	47.4	56.88
59.2	55.4	54.2	54.2	54.0	55.0	54.8	53.7	54.5	55.2	55.1	55.6	60.80
67.6	66.2	65.8	65.8	66.8	66.8	67.4	66.5	66.2	65.2	63.6	61.8	64.70
59.5	55.2	53.5	52.6	51.9	51.6	50.2	49.2	48.6	48.6	49.8	47.2	60.54
56.4	56.0	55.0	54.6	53.2	53.0	—	—	—	—	—	—	—
—	—	—	—	—	—	50.6	48.4	49.3	46.8	46.8	45.8	—
56.2	55.9	55.6	55.6	54.7	54.2	54.6	54.4	54.2	54.0	54.0	54.2	—
58.8	56.6	54.2	52.4	51.0	50.6	50.0	51.8	51.4	51.0	52.2	52.6	—
59.4	57.4	55.6	55.1	55.2	54.6	54.6	54.0	53.5	53.0	53.9	54.0	—
62.6	57.2	56.2	54.4	52.0	52.5	50.4	49.8	48.8	47.8	48.8	49.0	—
63.0	62.4	61.8	61.2	60.7	61.0	61.4	60.8	61.2	61.1	61.2	61.0	—
67.2	61.9	60.5	58.8	59.0	59.6	—	—	—	—	—	—	—
—	—	—	—	—	—	65.8	65.2	65.0	65.4	65.6	65.6	—
63.71	61.51	59.99	58.89	58.13	57.64	57.18	56.77	56.47	55.99	55.78	55.62	60.54

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	65.8	66.4	67.5	67.9	68.2	68.0	69.4	72.8	72.4	73.2	71.2	70.5
	3	53.8	56.0	57.8	59.4	59.6	60.0	61.4	60.2	61.6	61.6	62.8	63.2
	4	53.6	55.8	57.2	58.2	58.0	58.6	58.6	58.1	58.2	57.2	57.0	57.4
	5	51.0	53.0	55.0	55.8	56.4	57.4	57.2	58.3	57.5	59.7	59.6	58.4
	6	51.3	55.5	60.7	61.9	62.5	63.0	63.7	65.0	65.6	65.0	65.0	64.2
	7	51.7	59.0	60.4	61.0	62.0	63.0	64.5	64.8	64.8	64.4	64.0	63.6
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	60.2	62.2	62.5	63.6	64.6	66.6	66.3	67.2	67.3	68.8	68.4	69.3
	10	58.8	60.0	61.8	63.0	62.4	64.6	67.0	68.8	67.8	66.6	69.6	68.2
	11	61.2	61.6	62.8	54.4	63.0	65.4	65.8	68.2	68.3	65.7	65.9	64.9
	12	57.1	57.5	58.6	59.5	61.5	63.5	63.4	67.6	67.0	66.4	67.0	67.0
	13	48.0	53.2	57.1	59.6	59.5	62.7	62.9	63.6	61.6	63.4	63.2	66.8
	14	50.6	55.7	59.4	62.0	64.3	67.0	67.0	67.0	68.0	69.8	70.6	71.0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	54.7	58.8	62.4	66.0	67.8	68.8	69.2	69.2	69.4	70.4	71.8	71.8
	17	56.0	58.0	62.0	65.5	67.4	66.2	69.2	70.5	71.2	72.9	72.2	70.1
	18	50.4	52.4	53.2	53.9	55.2	58.8	60.6	60.8	61.2	61.7	62.4	64.4
	19	41.6	48.6	54.8	58.0	61.2	64.2	65.8	68.4	69.2	70.4	71.0	70.8
	20	58.7	64.0	66.4	67.8	69.4	70.8	72.7	71.6	71.2	70.0	69.4	68.6
	21	64.8	65.8	66.6	67.0	63.0	59.4	60.4	50.1	48.8	49.0	48.5	50.7
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	38.0	39.4	42.2	45.8	48.2	53.0	50.6	49.3	50.0	49.0	47.8	46.0
	24	42.5	43.8	45.6	47.9	48.6	50.6	50.2	51.0	52.0	54.0	52.0	51.8
	25	37.3	36.6	41.9	45.4	47.6	49.7	49.3	47.4	47.9	47.0	46.4	46.3
	26	37.4	38.8	40.6	43.0	44.5	45.0	44.6	43.8	44.6	45.4	44.6	43.2
	27	28.8	32.0	35.0	37.4	38.6	40.0	40.6	40.8	40.9	41.1	41.5	40.6
	28	32.7	34.3	36.5	37.2	41.1	42.3	44.4	45.7	45.5	44.4	43.5	43.4
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	40.2	41.1	44.9	47.5	51.3	52.2	51.4	51.0	50.4	48.8	47.0	45.2
Hourly Means	49.97	52.38	54.92	56.75	57.84	59.23	59.85	60.05	60.10	60.24	60.10	59.90	
OCTOBER.	1	30.6	33.6	38.1	42.6	45.0	45.0	46.2	47.6	47.7	47.5	48.3	47.0
	2	41.0	43.8	49.5	53.0	54.0	54.1	55.6	54.6	57.0	57.0	56.6	56.2
	3	43.8	43.8	49.2	51.4	52.8	55.2	55.4	55.2	55.5	55.2	55.6	53.5
	4	43.4	46.2	48.5	50.3	51.2	51.8	55.2	52.0	49.8	51.0	52.4	51.2
	5	46.0	46.2	46.0	46.0	46.4	47.3	47.4	49.0	47.2	47.5	46.7	46.4
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	32.0	33.6	36.7	38.2	39.8	40.3	40.3	40.0	40.6	42.6	43.6	42.0
	8	29.0	30.5	35.5	41.6	44.8	49.8	53.2	52.8	53.4	54.3	53.4	52.0
	9	48.0	49.0	50.0	52.3	54.5	55.0	57.8	57.2	58.8	54.6	55.1	54.8
	10	53.2	53.6	52.8	52.9	50.4	47.7	46.8	46.6	47.0	47.2	46.4	46.2
	11	35.6	36.4	39.0	40.3	42.9	44.0	46.0	47.7	47.8	47.8	47.5	47.8
	12	32.0	33.2	37.0	41.4	43.9	45.2	46.2	46.6	46.4	46.0	46.0	45.7
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	44.3	45.4	48.4	49.8	50.8	50.4	50.8	50.0	49.8	49.6	49.4	48.9
	15	41.6	42.6	44.4	47.0	48.2	49.2	49.8	49.8	49.4	48.3	47.8	47.4
	16	36.2	36.8	38.2	40.0	41.3	42.4	43.8	44.8	44.6	45.8	45.8	43.0
	17	40.3	40.2	41.1	41.8	44.0	45.0	44.6	44.2	44.0	43.8	43.8	43.4
	18	38.0	37.8	38.0	38.8	40.2	41.3	41.6	41.2	41.4	41.0	41.0	41.4
	19	37.4	37.6	36.4	37.2	38.6	38.6	37.2	37.2	36.8	36.0	34.8	34.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	35.2	36.0	37.6	39.4	43.4	42.0	41.8	41.5	42.5	41.8	42.0	41.8
	22	40.2	41.6	43.2	45.7	47.1	46.6	47.9	48.8	48.4	49.2	47.3	43.8
	23	35.2	36.2	40.4	42.7	44.2	45.7	47.0	47.8	51.6	49.7	48.4	45.4
	24	36.0	37.8	43.7	46.0	47.6	48.6	50.2	51.6	51.3	50.8	50.3	47.8
	25	46.2	47.0	50.2	51.6	52.8	54.2	55.6	55.8	55.4	55.6	56.0	52.9
	26	37.4	37.6	40.2	42.5	42.8	44.0	44.5	44.5	44.2	43.8	43.6	43.2
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	26.8	26.8	27.2	27.6	27.8	28.2	28.0	29.0	28.3	28.4	28.1	27.4
	29	27.4	27.4	27.2	29.0	29.0	28.6	28.8	29.2	28.6	28.7	28.0	27.4
	30	27.6	27.8	28.5	29.5	30.3	31.3	32.6	32.8	32.8	33.0	32.2	32.5
	31	19.2	18.0	20.0	25.8	29.6	31.0	32.7	36.4	38.8	39.4	39.2	35.6
Hourly Means	37.17	38.02	40.26	42.39	43.83	44.54	45.44	45.70	45.89	45.76	45.53	44.40	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
65.8	62.0	59.4	57.4	56.0	55.4	55.2	54.0	54.1	53.4	53.2	53.2	63.02
62.8	67.4	56.8	55.2	53.7	53.0	52.3	52.0	52.1	52.0	48.4	50.2	57.22
55.4	52.2	49.8	48.9	49.2	48.8	50.0	49.8	50.2	51.0	50.6	50.6	53.93
56.7	55.3	53.2	54.8	54.4	54.0	54.8	54.2	53.0	51.2	50.6	51.0	55.10
62.2	60.4	59.8	59.6	57.8	56.0	54.6	54.4	52.0	54.2	52.6	51.5	59.10
61.4	60.4	58.0	56.2	56.0	55.4	—	—	—	—	—	—	60.75
—	—	—	—	—	—	62.1	62.2	62.4	61.3	60.2	59.2	62.66
65.8	62.2	61.4	60.0	59.3	58.6	58.5	58.6	58.6	58.4	57.2	58.2	62.66
64.8	61.7	59.3	58.7	60.4	59.8	62.0	62.0	62.0	62.0	61.7	61.6	63.11
64.2	63.1	62.4	62.3	61.6	60.8	60.2	59.6	59.2	58.0	58.0	57.5	62.67
64.0	60.2	58.5	57.0	57.6	56.8	56.2	55.0	53.3	52.4	50.0	48.6	59.40
60.0	57.6	54.4	53.3	52.3	51.4	51.7	51.4	50.1	50.4	50.2	49.6	56.42
66.2	64.5	63.5	62.3	62.5	61.0	—	—	—	—	—	—	62.25
—	—	—	—	—	—	59.6	58.8	57.6	55.9	55.0	54.6	62.50
67.4	63.6	62.4	60.2	58.4	56.2	56.2	56.6	55.3	54.9	54.6	54.0	62.50
68.4	67.8	64.2	62.3	62.0	64.7	64.0	60.0	54.6	53.8	53.8	51.8	63.69
58.4	55.8	54.0	55.0	53.0	51.6	50.4	49.3	47.2	46.8	46.2	45.8	54.52
68.6	68.0	67.2	65.0	63.2	61.4	61.2	59.6	58.8	59.0	58.8	58.8	62.36
66.4	65.3	64.7	65.7	65.2	63.0	62.0	62.0	62.5	64.4	64.3	64.2	66.26
51.9	47.0	43.6	43.0	41.6	41.0	—	—	—	—	—	—	49.70
—	—	—	—	—	—	38.5	38.8	38.4	38.4	38.6	37.8	45.01
45.2	45.2	44.2	44.6	45.0	43.8	42.2	42.0	42.6	42.2	41.8	42.1	45.01
50.8	48.2	44.8	44.4	43.4	41.0	38.0	38.4	38.6	38.8	36.4	36.0	45.37
45.9	45.4	44.3	43.7	43.2	42.2	41.7	41.0	41.4	41.0	40.4	39.0	43.83
41.1	39.4	37.5	36.8	37.2	37.4	37.2	33.0	31.4	30.6	28.6	28.6	38.93
37.6	34.6	33.0	33.6	34.2	35.0	34.8	35.0	34.4	34.4	33.6	32.8	36.26
43.0	42.4	42.4	42.0	40.8	40.4	—	—	—	—	—	—	40.47
—	—	—	—	—	—	38.8	38.4	37.8	37.6	38.6	38.2	40.47
41.8	40.0	38.8	37.4	35.0	34.0	33.8	31.2	30.9	30.4	31.2	30.4	41.08
57.43	55.59	53.50	52.78	52.12	51.31	51.04	50.29	49.54	49.30	48.58	48.21	54.62
42.8	39.8	38.4	39.2	38.6	38.2	37.6	38.3	37.8	38.8	38.6	39.8	41.13
55.5	54.8	55.1	55.2	55.4	55.5	55.4	—	51.2	50.3	49.0	46.0	52.86
53.4	48.2	47.4	46.6	45.0	46.0	46.2	45.4	44.0	43.4	43.4	43.0	49.11
50.4	49.8	48.8	47.8	47.0	46.0	45.4	45.2	44.2	43.0	44.4	45.4	48.35
46.0	45.8	44.6	45.0	44.0	44.6	—	—	—	—	—	—	43.20
—	—	—	—	—	—	36.2	36.2	34.5	34.0	31.5	32.2	35.48
37.8	34.2	34.2	32.2	31.6	30.5	30.9	31.0	30.5	30.0	29.7	28.8	47.38
50.8	49.3	48.9	49.1	49.1	49.0	48.8	48.6	48.6	48.0	48.4	48.2	50.64
49.8	48.6	51.4	47.7	44.0	43.0	43.1	44.8	45.0	48.0	49.7	53.2	44.28
44.8	43.4	41.0	40.8	40.8	40.4	38.4	37.8	37.2	36.2	36.0	35.2	39.26
40.4	38.6	37.0	36.8	36.2	34.0	34.5	33.6	32.3	32.0	31.8	32.2	42.78
41.5	40.6	43.0	45.8	45.0	42.1	—	—	—	—	—	—	43.2
—	—	—	—	—	—	43.0	41.0	53.3	43.0	42.6	43.2	47.66
48.2	47.9	47.2	47.0	46.9	47.0	47.1	46.6	46.4	45.0	44.0	43.0	43.38
44.5	43.1	42.3	41.4	40.6	39.6	38.7	38.2	37.2	37.2	36.6	36.2	40.92
43.2	42.1	41.0	39.2	39.6	39.6	39.0	39.0	28.4	38.8	39.8	39.8	41.73
42.4	41.4	40.6	41.2	41.2	40.8	40.4	40.2	40.0	39.7	38.7	38.7	42.77
43.2	44.5	46.7	40.6	40.6	50.6	53.2	45.2	43.6	40.2	39.4	38.2	34.77
33.0	32.4	32.0	31.6	31.7	30.3	—	—	—	—	—	—	36.0
—	—	—	—	—	—	26.4	32.8	34.0	35.6	36.8	36.0	39.31
41.1	40.0	38.6	40.6	38.2	36.0	35.6	34.2	37.0	38.6	39.0	39.5	41.43
42.0	39.4	37.4	36.2	36.6	35.4	35.0	36.7	36.1	37.0	35.8	37.0	42.17
42.6	43.2	45.5	45.3	43.2	41.0	37.8	37.0	35.2	35.6	35.4	36.0	46.35
47.8	47.8	44.2	45.0	45.2	43.2	46.2	46.2	47.0	46.0	46.2	45.8	47.02
49.6	47.1	45.4	43.6	42.2	40.3	37.8	34.6	37.0	38.6	39.2	39.8	38.80
42.7	42.4	42.6	42.7	38.8	37.4	—	—	—	—	—	—	27.0
—	—	—	—	—	—	32.0	31.2	30.0	28.6	27.4	27.0	27.54
27.2	27.0	27.0	27.4	27.4	27.6	27.4	27.4	27.0	27.2	27.4	27.4	28.08
27.2	27.0	27.2	27.2	27.9	28.2	28.2	28.6	28.8	28.8	28.0	27.4	28.76
33.7	33.1	33.0	30.7	28.0	25.0	24.3	24.4	25.4	24.2	20.4	18.2	28.77
30.6	29.3	28.4	28.0	27.4	26.4	—	25.8	25.2	24.6	25.0	25.4	41.26
42.64	41.51	41.07	49.85	40.07	39.17	39.56	37.42	37.66	37.51	37.19	37.13	41.26



WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	25.2	25.8	29.0	32.6	39.9	40.6	42.4	41.7	40.8	40.6	40.2	40.2
	2	38.8	37.7	38.9	41.4	43.0	43.8	45.4	46.1	47.0	47.0	47.2	43.2
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	38.0	37.5	39.2	39.9	40.9	41.3	41.2	41.8	42.4	43.0	41.8	41.4
	5	35.4	35.7	38.1	39.5	41.6	40.8	43.0	42.2	42.0	42.2	40.8	39.5
	6	31.6	30.8	32.0	35.4	37.4	38.4	38.8	40.2	41.5	42.2	41.7	38.6
	7	39.2	36.2	37.2	41.4	44.0	45.2	46.4	45.9	45.4	44.6	44.0	43.2
	8	31.0	29.0	32.3	33.7	35.2	36.0	35.7	36.4	36.9	36.8	35.5	34.8
	9	30.0	30.6	31.4	32.0	32.4	35.8	37.0	38.4	39.6	40.2	39.4	36.1
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	39.3	39.2	39.4	39.8	40.2	40.8	41.0	41.8	42.4	41.4	41.2	41.5
	12	41.8	42.2	42.6	43.2	43.8	45.2	46.4	46.4	46.6	46.5	46.4	45.6
	13	34.0	32.6	31.7	31.8	31.3	32.0	32.7	32.6	33.0	33.0	32.0	31.2
	14	27.2	27.8	29.3	30.8	32.1	33.0	34.0	35.2	36.1	37.6	36.4	35.6
	15	33.0	33.2	33.2	33.3	36.4	37.0	38.4	39.2	39.2	40.0	40.0	38.8
	16	31.0	32.6	33.4	36.2	40.0	42.2	43.0	44.2	44.8	42.6	41.2	38.3
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	30.8	31.0	30.4	29.6	29.8	30.4	31.8	31.9	31.3	29.1	28.2	26.5
	19	25.0	24.8	27.4	29.8	31.4	32.4	31.0	36.4	37.0	38.2	39.3	40.0
	20	30.7	32.3	33.7	35.3	37.2	36.5	38.6	40.0	40.4	40.8	39.5	36.6
	21	28.4	29.4	31.8	36.6	40.0	42.2	41.7	41.4	41.2	41.6	39.2	39.4
	22	33.6	37.4	38.4	39.6	41.7	40.4	40.0	39.4	40.4	40.2	40.9	40.2
	23	38.2	37.4	36.8	37.2	38.5	38.6	38.8	39.0	39.0	38.4	36.6	35.2
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	17.2	17.4	18.5	19.8	20.8	20.6	22.2	22.0	23.3	23.1	22.4	21.6
	26	21.6	24.4	24.8	26.3	26.6	26.8	27.3	28.6	29.6	30.0	29.8	29.6
	27	18.2	18.5	18.9	16.8	16.4	17.0	17.6	19.4	18.2	18.2	15.8	15.4
	28	23.3	21.0	19.2	19.0	20.0	21.4	22.2	22.6	22.4	22.0	21.4	19.6
	29	22.4	23.2	24.4	26.4	29.0	30.7	31.4	31.4	31.2	31.3	30.8	30.5
	30	32.8	33.2	34.2	35.2	36.4	37.0	36.8	36.4	36.9	36.4	35.3	34.6
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	30.68	30.80	31.78	33.18	34.85	35.62	36.45	36.95	37.25	37.19	36.42	35.28	
DECEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	28.2	27.8	27.0	27.3	28.2	28.2	29.0	29.6	31.6	31.4	30.2	27.6
	3	29.3	27.3	29.6	30.2	31.4	32.2	32.7	33.2	33.6	33.0	32.8	33.0
	4	32.0	32.4	32.8	35.5	36.0	36.0	36.4	36.4	35.4	34.8	33.4	34.5
	5	32.4	32.6	32.6	32.5	32.0	32.0	32.0	32.4	32.6	32.8	32.6	33.1
	6	33.2	33.0	33.2	33.7	33.6	33.8	33.7	33.2	33.0	32.7	32.2	33.4
	7	41.9	42.4	43.2	44.5	43.4	41.7	41.8	40.6	38.8	36.4	33.8	33.6
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	20.0	20.6	21.3	22.6	24.6	27.6	29.4	31.2	31.2	31.2	30.6	29.0
	10	28.6	26.0	25.3	24.6	24.8	25.6	25.8	26.4	26.2	26.4	26.2	25.2
	11	26.8	27.0	27.0	27.6	29.6	30.0	30.0	30.7	31.3	31.2	30.3	30.4
	12	22.9	22.9	26.0	32.0	32.4	32.8	33.4	35.1	35.8	36.0	33.8	32.6
	13	34.9	34.6	34.8	34.7	34.4	35.0	35.5	35.6	35.8	35.2	34.8	33.8
	14	30.1	29.8	29.9	31.0	32.0	32.6	32.6	34.0	34.0	33.6	33.0	32.4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	22.4	22.0	21.6	20.2	20.4	19.8	20.0	20.3	19.6	20.0	19.4	18.4
	17	15.0	15.0	15.2	16.6	18.6	19.8	20.8	22.2	22.6	22.7	21.2	20.3
	18	1.6	3.4	6.7	12.4	16.1	19.0	21.3	22.1	24.0	23.9	23.3	23.0
	19	19.6	20.2	21.0	21.5	22.6	23.6	22.8	22.7	22.0	21.2	20.0	19.6
	20	8.8	10.2	11.5	10.5	15.0	17.3	20.0	20.0	20.4	19.0	18.6	18.0
	21	25.4	25.8	25.6	26.6	26.6	27.2	26.8	28.6	29.8	30.6	31.4	31.4
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	30.2	29.0	28.6	28.4	27.5	27.5	26.8	26.2	25.8	24.8	24.1	24.0
	24	25.6	26.6	26.2	26.7	27.6	30.4	29.8	30.2	31.4	32.0	32.4	32.6
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	40.0	40.2	41.0	41.2	40.8	41.6	46.2	46.0	41.8	40.0	37.0	35.8
	27	21.2	20.4	19.3	19.4	20.7	22.7	23.6	24.0	24.4	24.2	23.4	22.6
	28	13.0	13.4	13.8	16.0	19.4	22.8	24.8	26.0	25.8	25.8	24.8	24.7
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	32.2	32.6	34.3	35.4	36.5	35.6	34.2	33.0	33.0	33.2	32.6	32.6
	31	29.7	28.4	28.2	29.8	30.6	30.6	30.2	31.8	32.5	32.4	32.5	31.7
Hourly Means	25.80	25.74	26.23	27.24	28.19	29.02	29.58	30.06	30.10	29.78	28.98	28.53	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
37.8	37.4	37.4	37.2	37.2	37.6	37.4	37.4	37.8	38.2	39.2	39.1	37.20
41.6	38.8	37.8	37.8	37.8	38.0	—	—	—	—	—	—	41.39
—	—	—	—	—	—	41.4	41.2	41.0	40.8	39.7	38.0	39.31
41.0	41.6	41.4	41.1	40.3	36.5	37.2	37.2	36.9	34.3	34.0	33.5	37.26
37.5	36.2	35.4	35.0	34.4	34.8	35.2	33.0	33.0	33.0	33.2	32.8	35.76
34.8	32.2	30.6	29.8	30.2	29.8	31.8	35.2	38.0	38.0	39.0	40.2	41.09
42.8	42.6	41.6	41.4	41.4	41.2	41.0	41.3	37.2	35.4	34.6	32.9	32.88
34.0	34.0	34.6	34.7	34.5	32.3	30.2	29.2	29.0	27.3	27.0	29.0	35.22
32.8	30.2	30.3	30.2	30.0	29.9	—	—	—	—	—	—	40.89
—	—	—	—	—	—	40.6	39.6	39.5	40.0	39.7	39.6	41.80
41.4	41.5	41.0	40.8	41.0	41.0	40.6	41.0	41.4	41.2	41.2	41.2	30.64
45.6	45.3	45.2	40.4	39.6	38.4	37.2	36.4	35.4	34.2	34.6	34.2	31.87
29.8	29.2	29.0	29.4	29.4	29.4	29.6	29.0	28.4	28.2	28.2	27.8	34.28
32.6	31.5	30.0	30.2	30.6	31.8	32.3	31.1	30.8	28.4	27.8	32.7	38.07
37.4	35.8	32.6	31.9	31.3	30.8	31.4	30.6	30.4	29.8	29.0	30.0	27.81
37.0	35.2	36.3	40.0	40.3	40.6	—	—	—	—	—	—	33.10
—	—	—	—	—	—	39.0	37.2	36.5	35.2	34.7	32.2	33.39
26.5	26.0	26.0	26.0	26.0	25.3	25.0	25.0	25.6	24.8	25.6	24.8	35.67
39.6	36.6	34.4	33.8	34.4	34.8	33.4	30.2	31.4	31.2	28.4	30.6	39.81
33.2	33.6	33.6	32.3	30.4	28.4	28.6	28.2	29.0	27.1	26.9	28.4	31.69
38.2	36.7	33.3	31.6	30.4	31.2	33.4	34.4	34.0	33.6	32.8	33.6	19.55
40.2	40.9	40.8	40.6	40.6	40.8	41.0	41.0	40.0	39.8	38.8	38.8	25.98
36.0	36.2	34.0	30.2	30.0	27.6	—	—	—	—	—	—	16.35
—	—	—	—	—	—	21.0	20.0	19.6	17.8	17.0	17.4	20.62
20.6	18.0	16.5	16.4	15.8	16.6	18.2	18.3	18.5	19.4	21.0	21.0	30.04
29.4	29.4	28.6	26.6	25.4	24.4	22.6	23.0	23.4	23.2	22.2	20.0	33.28
13.6	12.4	14.0	15.0	14.4	13.8	13.6	14.2	14.8	15.9	18.0	22.3	—
19.4	19.4	19.0	19.4	19.6	19.6	19.8	20.2	20.6	21.0	21.2	21.6	—
30.5	30.4	31.0	30.2	30.0	31.2	32.4	32.6	32.4	32.5	32.4	32.7	—
34.0	34.0	33.6	34.0	33.6	33.4	—	—	—	—	—	—	—
—	—	—	—	—	—	28.8	28.8	28.6	28.4	28.4	28.0	—
34.13	33.27	32.62	32.15	31.87	31.51	31.64	31.36	31.28	30.72	30.56	30.86	33.27
—	—	—	—	—	—	—	—	—	—	—	—	—
26.6	26.4	26.4	27.7	27.4	28.4	28.2	25.8	24.8	26.0	28.0	28.4	27.92
32.7	33.0	34.0	32.6	32.8	33.6	33.2	28.7	28.3	27.4	29.6	31.0	31.47
34.0	34.0	33.8	33.7	33.6	33.5	33.4	33.0	32.2	32.0	32.0	32.4	33.88
33.3	33.2	33.2	33.4	32.4	32.2	32.2	32.2	32.6	32.6	32.6	32.5	32.58
33.4	34.8	35.2	36.0	36.6	37.4	38.6	38.4	39.8	40.2	40.6	41.2	35.45
33.6	33.6	33.0	33.0	25.9	22.4	—	—	—	—	—	—	33.22
—	—	—	—	—	—	24.2	24.1	22.3	21.8	21.0	20.3	26.41
26.0	26.2	24.6	24.5	24.8	25.6	27.0	27.3	27.3	27.0	26.7	27.6	25.55
24.8	24.5	24.2	23.9	23.8	24.4	25.0	25.2	25.2	26.6	27.0	27.4	28.05
30.0	30.0	30.3	29.1	28.6	31.0	28.4	23.6	24.2	22.0	22.0	22.0	32.75
32.8	32.8	33.8	34.0	34.0	34.4	34.6	34.8	34.0	34.4	34.8	35.9	33.63
33.6	33.0	33.0	33.0	33.0	33.0	32.6	32.2	32.1	31.4	30.2	31.0	29.47
32.4	31.7	31.2	30.4	30.3	30.3	—	—	—	—	—	—	18.44
—	—	—	—	—	—	22.6	22.0	21.8	23.4	23.2	23.0	16.34
18.2	17.4	17.2	17.2	17.4	17.4	17.2	15.4	15.2	15.0	15.8	15.0	17.88
21.0	20.3	19.8	17.4	16.2	16.4	15.8	13.8	12.0	6.0	3.0	0.4	17.08
21.4	21.0	21.0	21.0	20.4	19.4	18.4	16.4	17.9	18.7	17.8	19.0	17.54
19.0	17.2	17.0	18.2	18.2	16.2	12.5	9.2	5.7	4.3	5.9	9.8	28.82
17.9	17.5	17.0	18.2	18.2	18.0	17.8	17.2	20.6	21.4	23.8	24.0	24.97
31.4	29.2	24.8	24.3	24.3	28.0	—	—	—	—	—	—	32.60
—	—	—	—	—	—	33.8	33.0	32.5	32.2	31.3	31.0	33.28
23.4	23.1	23.0	22.8	20.8	21.0	21.8	21.8	23.8	24.6	25.0	25.4	19.25
30.8	32.6	32.6	32.6	32.2	30.6	—	—	—	—	—	—	24.15
—	—	—	—	—	—	39.4	39.4	40.9	40.0	40.4	40.2	31.90
32.2	29.2	27.5	27.0	25.8	25.3	25.0	23.8	23.7	22.0	22.8	22.7	31.46
21.6	20.0	20.4	18.4	17.8	17.4	16.4	13.8	12.7	12.3	12.4	12.8	—
25.9	25.4	24.2	24.8	25.3	26.2	—	—	—	—	—	—	—
—	—	—	—	—	—	30.0	28.6	29.2	29.8	30.2	29.8	—
32.4	30.6	29.4	29.8	29.2	29.4	30.3	30.2	29.8	29.8	29.8	29.6	—
31.6	32.6	32.7	32.8	32.5	31.4	28.6	29.4	32.0	33.6	34.2	35.2	—
28.00	27.57	27.17	27.03	26.46	26.52	26.68	25.56	25.59	25.38	25.60	25.90	37.36

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	JANUARY.	1	90	90	93	90	90	85	87	80	78	78	95	88	
		2	89	92	92	91	92	92	91	92	88	88	89	85	
		3	98	98	98	98	96	96	95	95	94	96	96	95	95
		4	86	85	84	82	82	82	81	76	77	77	77	77	78
		5	75	74	80	80	81	78	66	72	71	64	72	72	82
		6	87	83	84	82	76	79	77	80	82	85	82	82	82
		7	—	—	—	—	—	—	—	—	—	—	—	—	—
		8	71	70	69	79	81	81	81	80	76	77	76	81	82
		9	93	92	81	81	81	92	78	85	91	92	92	95	92
		10	85	78	79	79	80	79	75	76	76	76	76	79	75
		11	100	95	100	92	92	74	89	89	93	90	92	92	88
		12	86	84	89	89	85	78	75	85	95	96	96	98	98
		13	72	77	77	82	78	79	78	78	74	79	74	74	77
		14	—	—	—	—	—	—	—	—	—	—	—	—	—
		15	88	75	84	86	86	86	81	81	87	89	82	82	86
		16	98	98	98	98	95	95	92	92	92	92	92	95	93
		17	71	68	72	73	73	73	73	73	73	73	75	73	70
		18	72	76	78	77	71	68	69	65	77	68	71	71	71
		19	89	85	85	86	86	89	81	75	75	73	75	73	73
		20	85	85	85	78	76	66	72	81	78	82	85	82	82
		21	—	—	—	—	—	—	—	—	—	—	—	—	—
		22	91	94	93	93	97	97	97	95	97	97	97	92	87
		23	96	98	98	100	100	98	82	73	72	66	66	66	70
		24	67	67	69	69	88	66	82	66	80	74	63	63	68
		25	87	87	87	90	59	87	86	82	76	75	78	79	79
		26	79	86	90	86	87	74	71	64	75	60	66	66	79
		27	89	89	95	90	87	87	78	77	74	80	81	81	87
		28	—	—	—	—	—	—	—	—	—	—	—	—	—
		29	96	91	90	91	95	100	100	87	89	92	87	87	87
		30	96	96	97	97	96	93	95	95	97	95	92	92	93
		31	92	95	95	86	73	73	74	71	77	82	78	73	73
		Hourly Means		86	85	87	86	85	83	82	80	82	81	82	82
Tension of the Vapour.	JANUARY.	1	In. .118	In. .119	In. .125	In. .126	In. .126	In. .122	In. .133	In. .127	In. .128	In. .137	In. .149	In. .129	
		2	.139	.150	.156	.158	.160	.165	.168	.168	.168	.168	.168	.167	
		3	.209	.209	.212	.214	.207	.200	.195	.196	.183	.184	.180	.178	
		4	.144	.130	.121	.112	.108	.108	.105	.096	.101	.101	.101	.101	.102
		5	.087	.085	.088	.090	.094	.094	.084	.093	.097	.090	.098	.100	
		6	.114	.112	.115	.116	.110	.116	.118	.129	.132	.135	.132	.135	
		7	—	—	—	—	—	—	—	—	—	—	—	—	
		8	.058	.060	.063	.072	.079	.086	.085	.083	.086	.084	.088	.086	
		9	.087	.090	.092	.097	.098	.115	.098	.107	.114	.118	.125	.124	
		10	.125	.112	.113	.114	.117	.122	.120	.119	.116	.112	.111	.102	
		11	.056	.043	.056	.062	.070	.071	.098	.102	.108	.106	.108	.107	
		12	.140	.146	.159	.166	.166	.160	.156	.171	.195	.194	.198	.200	
		13	.158	.162	.162	.164	.138	.139	.137	.138	.140	.144	.132	.131	
		14	—	—	—	—	—	—	—	—	—	—	—	—	
		15	.138	.124	.143	.151	.155	.157	.151	.151	.156	.155	.151	.157	
		16	.191	.196	.201	.203	.217	.233	.236	.236	.234	.230	.230	.217	
		17	.125	.118	.124	.125	.125	.125	.126	.125	.125	.125	.122	.113	
		18	.097	.099	.101	.107	.107	.103	.106	.103	.126	.108	.111	.107	
		19	.087	.085	.085	.089	.087	.088	.089	.084	.089	.086	.087	.084	
		20	.056	.054	.054	.052	.055	.054	.065	.078	.075	.079	.075	.069	
		21	—	—	—	—	—	—	—	—	—	—	—	—	
		22	.072	.073	.077	.085	.091	.094	.095	.097	.102	.106	.119	.118	
		23	.193	.202	.214	.217	.216	.240	.242	.205	.201	.183	.178	.176	
		24	.111	.104	.106	.108	.123	.099	.108	.086	.086	.080	.068	.068	
		25	.040	.038	.036	.037	.025	.040	.042	.042	.042	.045	.047	.044	
		26	.033	.034	.035	.034	.036	.034	.036	.030	.046	.041	.044	.050	
		27	.033	.032	.035	.035	.036	.041	.042	.046	.050	.056	.057	.053	
		28	—	—	—	—	—	—	—	—	—	—	—	—	
		29	.043	.040	.038	.040	.045	.054	.056	.051	.055	.058	.054	.053	
		30	.068	.070	.072	.076	.082	.084	.092	.093	.094	.093	.087	.086	
		31	.046	.046	.044	.042	.044	.044	.050	.053	.063	.069	.066	.059	
		Hourly Means		.103	.101	.105	.107	.108	.111	.112	.111	.115	.114	.114	.112

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
85	91	90	96	96	96	98	93	94	92	93	91	90
81	89	87	82	84	95	98	96	95	93	96	98	91
97	97	92	91	95	89	89	96	92	94	91	85	94
82	87	83	97	86	86	86	84	82	81	82	81	83
81	91	92	92	91	90	92	89	92	88	88	85	82
83	86	88	86	80	80	—	—	—	—	—	—	81
—	—	—	—	—	—	80	79	80	80	74	66	—
75	74	77	79	83	79	82	85	89	84	83	84	79
95	97	97	97	97	90	92	91	89	81	80	77	89
72	82	81	83	85	84	90	91	83	91	91	92	82
83	83	82	83	83	84	84	85	79	79	82	84	87
99	99	99	97	97	96	97	98	98	99	88	78	92
78	77	76	77	80	80	—	—	—	—	—	—	82
—	—	—	—	—	—	93	95	95	93	95	93	—
82	86	81	74	75	82	81	95	97	97	98	96	86
95	93	91	94	73	79	85	78	79	79	77	70	89
79	78	79	83	81	86	80	78	78	74	71	74	75
76	71	71	75	74	76	75	74	74	77	82	88	74
67	69	68	79	84	88	80	80	80	80	83	83	80
82	83	81	80	78	86	—	—	—	—	—	—	83
—	—	—	—	—	—	91	91	96	95	94	91	—
92	86	87	91	93	94	96	98	98	94	90	95	94
75	71	74	65	63	65	67	75	86	88	72	68	79
73	79	77	75	85	87	90	87	87	83	88	83	77
82	84	80	84	83	86	88	88	75	74	75	76	81
87	87	87	87	76	83	82	84	88	90	88	95	81
87	92	92	87	82	78	—	—	—	—	—	—	86
—	—	—	—	—	—	—	86	87	86	91	95	—
89	90	90	91	94	96	94	93	90	90	96	96	92
83	82	83	90	83	87	85	87	90	96	93	90	91
83	81	91	83	87	85	85	85	85	85	88	95	83
83	85	84	85	84	85	87	87	87	87	86	86	84
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·116	·117	·111	·118	·118	·123	·136	·129	·134	·133	·138	·140	·127
·163	·172	·170	·165	·173	·191	·201	·199	·198	·195	·204	·209	·174
·176	·176	·164	·163	·162	·141	·139	·145	·143	·147	·154	·152	·176
·105	·109	·103	·119	·100	·099	·100	·100	·099	·099	·099	·098	·107
·092	·091	·091	·098	·101	·104	·102	·095	·099	·103	·110	·109	·096
·136	·141	·142	·138	·132	·133	—	—	—	—	—	—	·114
—	—	—	—	—	—	·077	·080	·081	·078	·070	·061	—
·080	·078	·078	·075	·075	·073	·069	·062	·072	·071	·073	·075	·075
·132	·136	·136	·137	·137	·130	·133	·136	·136	·128	·123	·117	·119
·089	·091	·090	·094	·098	·088	·086	·080	·064	·073	·069	·059	·099
·100	·105	·106	·112	·113	·118	·123	·126	·122	·120	·126	·134	·100
·199	·194	·203	·208	·210	·214	·215	·216	·216	·235	·222	·186	·191
·128	·126	·119	·118	·122	·122	—	—	—	—	—	—	—
—	—	—	—	—	—	·121	·121	·118	·117	·125	·124	·134
·154	·166	·162	·154	·155	·165	·164	·182	·185	·181	·184	·184	·159
·215	·215	·208	·210	·173	·174	·179	·163	·164	·161	·156	·134	·199
·125	·118	·117	·120	·119	·123	·116	·112	·110	·101	·096	·097	·118
·110	·101	·101	·105	·101	·100	·094	·091	·090	·086	·086	·086	·101
·076	·077	·072	·074	·075	·076	·067	·065	·062	·059	·060	·058	·078
·073	·074	·069	·065	·062	·068	—	—	—	—	—	—	·067
—	—	—	—	—	·068	·069	·072	·073	·073	·072	·071	—
·122	·126	·130	·141	·148	·155	·164	·173	·179	·177	·172	·185	·125
·177	·167	·165	·148	·139	·136	·133	·141	·152	·148	·125	·119	·176
·066	·064	·060	·056	·057	·055	·052	·046	·043	·041	·043	·039	·074
·045	·044	·042	·042	·040	·040	·039	·039	·035	·033	·034	·034	·039
·052	·049	·047	·044	·038	·038	·038	·036	·036	·036	·034	·036	·039
·052	·052	·051	·047	·044	·041	—	—	—	—	—	—	—
—	—	—	—	—	—	—	·044	·041	·039	·040	·043	·044
·056	·058	·060	·061	·063	·064	·064	·062	·061	·060	·065	·066	·055
·074	·066	·062	·064	·057	·057	·056	·052	·047	·043	·043	·046	·069
·053	·053	·057	·058	·059	·055	·054	·053	·057	·055	·051	·049	·053
·110	·109	·108	·109	·106	·107	·107	·104	·104	·103	·103	·100	·108

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	FEBRUARY.	1	95	95	90	90	85	81	85	81	83	73	86	93	
		2	90	93	90	90	86	82	97	80	76	71	68	62	
		3	74	78	87	81	74	76	77	78	79	79	79	84	82
		4	—	—	—	—	—	—	—	—	—	—	—	—	—
		5	98	98	98	98	96	88	85	84	87	93	94	94	95
		6	98	98	100	96	95	93	89	90	96	94	89	89	88
		7	86	90	90	90	83	74	76	85	80	78	77	77	77
		8	86	90	90	90	81	78	70	70	64	69	70	70	79
		9	85	90	96	85	78	79	80	75	75	72	77	77	77
		10	88	82	82	80	92	78	72	71	70	71	74	74	74
		11	—	—	—	—	—	—	—	—	—	—	—	—	—
		12	100	100	100	100	100	96	98	91	86	86	88	88	95
		13	96	89	89	96	85	79	93	87	66	70	75	74	74
		14	81	82	78	90	76	73	71	70	69	77	67	77	77
		15	82	86	88	90	88	83	86	89	88	87	96	94	94
		16	82	84	88	91	93	78	73	73	87	83	87	89	89
		17	82	82	95	77	73	63	62	66	64	67	70	67	67
		18	—	—	—	—	—	—	—	—	—	—	—	—	—
		19	84	86	87	81	81	79	89	71	58	75	73	80	80
		20	85	86	84	76	77	80	73	68	69	68	69	74	74
		21	86	91	87	79	73	74	69	66	80	83	80	82	82
		22	86	88	83	78	73	71	63	55	54	41	39	39	39
		23	98	96	91	83	83	81	79	92	95	85	81	85	85
		24	74	76	71	64	66	69	74	81	80	75	78	74	74
		25	—	—	—	—	—	—	—	—	—	—	—	—	—
		26	90	94	90	86	70	63	62	71	77	82	82	82	82
		27	89	86	79	78	81	79	76	71	65	61	61	66	66
		28	74	78	71	64	70	81	70	71	63	68	93	80	80
		29	80	82	78	79	87	93	88	92	88	86	92	92	92
Hourly Means		87	88	87	84	82	79	78	77	76	76	78	79		
Tension of the Vapour.	FEBRUARY.	1	In. .048	In. .048	In. .054	In. .061	In. .073	In. .098	In. .109	In. .107	In. .111	In. .099	In. .113	In. .121	
		2	.107	.108	.107	.116	.118	.118	.140	.125	.121	.114	.112	.092	
		3	.097	.095	.092	.092	.091	.099	.105	.109	.115	.115	.115	.107	.107
		4	—	—	—	—	—	—	—	—	—	—	—	—	—
		5	.172	.172	.175	.179	.179	.169	.167	.169	.175	.191	.191	.191	.187
		6	.182	.182	.186	.182	.185	.187	.187	.194	.196	.191	.173	.168	.168
		7	.096	.099	.100	.107	.111	.107	.116	.135	.128	.128	.119	.115	.115
		8	.094	.094	.095	.093	.101	.109	.111	.115	.108	.111	.110	.110	.115
		9	.062	.063	.068	.062	.059	.063	.068	.067	.071	.071	.071	.067	.067
		10	.086	.083	.084	.084	.093	.094	.094	.100	.104	.111	.114	.110	.110
		11	—	—	—	—	—	—	—	—	—	—	—	—	—
		12	.091	.089	.103	.119	.138	.139	.148	.151	.156	.166	.167	.171	.171
		13	.170	.159	.165	.179	.167	.161	.200	.190	.160	.165	.160	.159	.159
		14	.105	.101	.093	.112	.096	.101	.101	.107	.110	.126	.117	.112	.112
		15	.116	.122	.129	.145	.150	.149	.153	.161	.161	.157	.168	.170	.170
		16	.136	.137	.144	.157	.167	.156	.151	.152	.167	.164	.168	.168	.168
		17	.099	.094	.108	.087	.082	.074	.076	.085	.082	.081	.075	.063	.063
		18	—	—	—	—	—	—	—	—	—	—	—	—	—
		19	.118	.127	.133	.131	.141	.145	.167	.148	.132	.178	.178	.179	.179
		20	.173	.174	.179	.179	.188	.193	.187	.186	.188	.194	.193	.190	.190
		21	.176	.178	.180	.166	.155	.166	.165	.168	.186	.192	.186	.177	.177
		22	.147	.146	.152	.158	.157	.167	.162	.159	.164	.134	.131	.129	.129
		23	.181	.179	.171	.158	.161	.151	.138	.156	.160	.141	.130	.127	.127
		24	.054	.054	.053	.052	.060	.071	.079	.097	.101	.102	.104	.100	.100
		25	—	—	—	—	—	—	—	—	—	—	—	—	—
		26	.125	.122	.130	.150	.148	.137	.145	.181	.174	.176	.175	.171	.171
		27	.159	.152	.139	.139	.140	.136	.135	.129	.126	.123	.126	.129	.129
		28	.099	.101	.099	.104	.126	.147	.144	.147	.137	.146	.175	.147	.147
		29	.162	.164	.159	.168	.186	.200	.199	.207	.214	.230	.229	.227	.227
Hourly Means		.122	.122	.124	.127	.129	.133	.138	.142	.142	.144	.144	.140		

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
94	96	92	91	91	91	90	90	97	94	88	95	89
75	82	85	91	94	95	95	92	91	82	85	78	85
82	93	97	94	93	93	—	—	—	—	—	—	86
—	—	—	—	—	—	96	98	97	95	91	93	—
96	94	95	95	95	95	96	97	93	95	95	98	94
94	97	98	94	90	85	79	86	96	97	93	87	93
77	86	92	92	93	88	90	82	80	80	79	87	84
78	79	76	77	79	74	85	75	81	84	83	79	79
78	81	83	83	90	92	80	78	78	79	82	82	81
76	79	85	86	82	84	—	—	—	—	—	—	83
—	—	—	—	—	—	92	96	96	96	94	97	—
88	85	94	92	91	91	90	91	86	86	87	87	92
74	87	74	70	79	73	76	74	71	79	84	73	80
81	83	81	80	91	87	79	89	88	81	90	93	81
96	96	96	97	94	95	95	94	82	83	85	84	90
76	78	81	85	87	84	86	86	80	78	73	81	83
77	78	77	77	74	62	85	86	84	84	84	84	76
—	—	—	—	—	—	—	—	—	—	—	—	—
83	83	85	85	83	85	87	94	93	88	87	87	83
77	67	72	80	83	87	73	71	71	76	81	86	76
84	77	71	75	75	79	83	83	88	88	87	90	80
47	54	73	79	81	88	90	91	91	92	91	91	72
88	89	84	88	82	87	73	71	74	68	68	70	83
80	90	91	78	90	90	—	—	—	—	—	—	81
—	—	—	—	—	—	90	91	89	90	83	91	—
92	100	100	100	100	95	97	95	93	89	86	93	87
68	73	74	77	74	71	75	71	70	67	68	74	73
92	87	87	84	86	79	79	79	74	89	87	85	79
94	93	93	88	89	92	89	96	96	96	96	96	90
82	84	85	86	87	86	86	86	86	85	86	86	83
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·122	·127	·117	·112	·112	·114	·115	·118	·122	·117	·106	·108	·101
·101	·100	·092	·082	·076	·079	·087	·097	·106	·103	·108	·103	·105
·076	·080	·078	·081	·080	·076	—	—	—	—	—	—	·112
—	—	—	—	—	—	·157	·164	·165	·166	·162	·167	—
·187	·187	·185	·183	·183	·181	·185	·181	·175	·179	·177	·181	·180
·172	·181	·175	·153	·141	·128	·114	·113	·096	·088	·096	·093	·157
·107	·102	·094	·093	·091	·097	·098	·102	·099	·098	·096	·101	·106
·111	·112	·106	·106	·105	·101	·110	·088	·084	·080	·073	·062	·100
·059	·060	·057	·057	·055	·059	·063	·069	·074	·076	·080	·080	·066
·109	·105	·105	·101	·102	·101	—	—	—	—	—	—	—
—	—	—	—	—	—	·110	·111	·105	·100	·098	·104	·100
·157	·151	·158	·157	·158	·153	·160	·162	·160	·162	·159	·161	·147
·156	·175	·153	·138	·145	·124	·125	·119	·112	·118	·122	·099	·151
·105	·099	·090	·089	·095	·089	·077	·083	·093	·097	·100	·103	·100
·174	·172	·169	·167	·161	·157	·150	·147	·139	·144	·145	·141	·152
·139	·138	·135	·135	·128	·124	·125	·124	·116	·111	·101	·104	·140
·062	·059	·058	·059	·055	·048	—	—	—	—	—	—	—
—	—	—	—	—	—	·126	·126	·119	·118	·120	·119	·086
·184	·175	·168	·167	·164	·166	·167	·172	·173	·167	·165	·173	·159
·183	·176	·178	·176	·163	·159	·152	·150	·151	·157	·168	·180	·176
·177	·168	·155	·158	·155	·158	·162	·163	·164	·148	·151	·146	·167
·127	·125	·152	·152	·148	·150	·141	·141	·141	·143	·146	·157	·147
·129	·130	·124	·122	·114	·116	·092	·077	·073	·062	·056	·055	·125
·089	·087	·082	·071	·079	·079	—	—	—	—	—	—	—
—	—	—	—	—	—	·114	·114	·114	·117	·115	·125	·088
·183	·195	·194	·199	·200	·191	·196	·206	·202	·181	·170	·175	·172
·117	·118	·118	·121	·114	·110	·114	·107	·106	·100	·098	·102	·123
·154	·146	·151	·150	·159	·149	·149	·151	·145	·170	·167	·166	·143
·215	·217	·231	·226	·226	·223	·206	·208	·206	·202	·208	·210	·205
·136	·135	·133	·130	·128	·125	·132	·132	·130	·128	·127	·129	·132

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	MARCH.	1	96	98	98	100	98	97	97	97	95	94	96	94	
		2	86	84	83	82	82	80	76	75	71	84	87	91	
		3	—	—	—	—	—	—	—	—	—	—	—	—	
		4	75	86	82	79	66	67	68	65	64	61	62	64	64
		5	94	77	91	82	87	80	79	73	56	59	74	78	78
		6	91	91	86	74	70	61	54	79	77	78	75	77	77
		7	90	92	87	87	84	76	73	71	75	75	76	63	63
		8	95	91	91	94	80	83	96	96	97	98	99	97	97
		9	87	86	85	83	96	81	74	68	68	76	72	68	68
		10	—	—	—	—	—	—	—	—	—	—	—	—	—
		11	92	95	95	84	87	76	69	66	68	68	71	72	72
		12	86	82	79	84	75	74	80	90	95	95	97	97	97
		13	98	98	98	96	90	87	78	79	75	78	78	81	81
		14	88	84	76	77	76	70	74	75	72	70	69	76	76
		15	84	87	93	95	95	96	96	93	88	93	97	98	98
		16	98	98	98	98	96	95	93	91	88	85	86	82	82
		17	—	—	—	—	—	—	—	—	—	—	—	—	—
		18	80	80	84	69	64	70	72	71	82	76	72	70	70
		19	79	83	83	78	74	62	59	62	64	67	77	81	81
		20	96	93	98	98	98	95	91	91	92	82	85	81	81
		21	78	80	73	71	71	76	76	81	81	80	78	77	77
		22	86	94	98	94	91	86	84	79	77	80	76	78	78
		23	74	71	69	63	64	63	59	60	64	63	59	54	54
		24	—	—	—	—	—	—	—	—	—	—	—	—	—
		25	68	66	52	51	56	57	48	42	40	36	52	48	48
		26	78	76	74	65	67	58	53	53	52	50	60	69	69
		27	73	74	74	72	70	74	72	78	75	75	76	78	78
		28	94	93	93	97	97	97	97	98	97	97	97	96	96
		29	79	81	76	75	71	66	68	64	74	72	70	78	78
		30	100	97	93	96	95	100	100	99	98	82	81	76	76
		31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		86	86	85	82	81	78	76	77	76	74	78	78		
Tension of the Vapour.	MARCH.	1	In. .210	In. .212	In. .221	In. .240	In. .251	In. .253	In. .250	In. .253	In. .258	In. .229	In. .235	In. .232	
		2	.184	.178	.173	.173	.179	.179	.176	.178	.179	.198	.197	.191	
		3	—	—	—	—	—	—	—	—	—	—	—	—	
		4	.078	.083	.079	.080	.070	.074	.082	.083	.089	.089	.091	.092	.092
		5	.075	.069	.085	.093	.118	.134	.146	.151	.127	.134	.155	.159	.159
		6	.134	.136	.146	.145	.145	.135	.127	.172	.178	.183	.160	.155	.155
		7	.151	.156	.165	.188	.191	.182	.188	.190	.212	.194	.192	.160	.160
		8	.175	.171	.181	.215	.193	.204	.228	.228	.237	.240	.256	.253	.253
		9	.153	.146	.144	.147	.180	.158	.149	.145	.146	.155	.145	.142	.142
		10	—	—	—	—	—	—	—	—	—	—	—	—	—
		11	.150	.160	.177	.188	.206	.203	.204	.226	.238	.225	.213	.201	.201
		12	.184	.188	.200	.224	.220	.212	.220	.235	.236	.236	.238	.236	.236
		13	.231	.237	.240	.255	.273	.263	.248	.239	.229	.222	.217	.211	.211
		14	.143	.135	.122	.126	.129	.129	.145	.147	.148	.145	.143	.143	.143
		15	.145	.152	.158	.161	.162	.163	.174	.176	.170	.177	.192	.194	.194
		16	.203	.197	.199	.203	.197	.196	.197	.201	.199	.197	.193	.179	.179
		17	—	—	—	—	—	—	—	—	—	—	—	—	—
		18	.082	.086	.086	.075	.071	.079	.082	.080	.086	.074	.070	.065	.065
		19	.070	.079	.085	.094	.102	.092	.096	.105	.123	.125	.130	.132	.132
		20	.166	.163	.166	.165	.166	.161	.157	.156	.156	.137	.140	.135	.135
		21	.073	.072	.072	.077	.082	.096	.103	.120	.126	.131	.132	.130	.130
		22	.124	.134	.143	.138	.136	.135	.135	.138	.139	.152	.144	.152	.152
		23	.084	.082	.086	.084	.093	.099	.092	.109	.120	.124	.128	.119	.119
		24	—	—	—	—	—	—	—	—	—	—	—	—	—
		25	.181	.179	.153	.148	.166	.154	.130	.123	.126	.128	.193	.169	.169
		26	.148	.149	.157	.162	.172	.155	.156	.167	.176	.150	.154	.168	.168
		27	.141	.143	.134	.131	.124	.128	.127	.138	.143	.144	.144	.145	.145
		28	.221	.227	.231	.237	.238	.245	.245	.251	.264	.258	.261	.268	.268
		29	.112	.105	.100	.103	.110	.111	.123	.127	.142	.138	.129	.139	.139
		30	.112	.111	.109	.110	.108	.116	.122	.122	.127	.117	.117	.121	.121
		31	—	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		.143	.144	.147	.152	.157	.156	.158	.164	.168	.165	.168	.165		

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
95	95	93	95	93	86	85	84	81	80	83	86	92
92	77	78	83	86	84	—	—	—	—	—	—	82
—	—	—	—	—	—	91	91	83	83	77	71	76
63	68	70	78	62	91	88	90	91	95	96	94	76
71	69	62	68	68	67	78	74	78	81	82	85	76
86	84	86	87	87	92	91	90	91	92	91	80	82
73	79	87	89	94	95	93	90	86	95	93	91	84
98	97	94	92	93	90	87	87	87	89	81	81	91
90	92	87	90	89	87	—	—	—	—	—	—	85
—	—	—	—	—	—	93	93	94	95	95	95	80
81	79	75	78	79	79	82	86	87	83	78	84	91
98	97	97	93	95	96	95	97	97	97	98	98	87
79	78	78	83	96	92	93	94	94	89	88	90	78
84	81	86	86	87	79	72	72	71	78	80	84	95
98	98	91	100	98	97	98	98	98	97	98	98	87
81	83	87	87	91	88	—	—	—	—	—	—	74
—	—	—	—	—	—	78	74	74	82	71	80	79
65	66	69	75	74	81	79	83	82	73	70	82	86
80	85	86	85	85	86	86	87	86	89	94	86	78
73	72	81	85	82	80	81	81	81	82	74	81	82
76	75	76	79	79	70	80	80	80	82	82	84	82
78	85	76	78	80	79	82	83	83	73	68	75	70
70	72	75	67	76	79	—	—	—	—	—	—	64
—	—	—	—	—	—	95	82	71	77	75	76	75
62	67	81	86	83	76	70	71	78	79	78	81	80
75	77	85	96	93	93	95	93	89	87	78	82	93
76	79	74	79	83	87	89	87	89	96	94	95	76
90	88	87	88	89	95	85	87	91	95	89	87	88
74	62	63	66	72	73	78	83	85	92	95	100	88
74	77	81	77	76	74	—	—	—	—	—	—	—
—	—	—	—	—	—	88	92	91	90	92	92	82
80	80	81	83	84	84	86	86	85	87	85	86	82
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.229	.220	.218	.229	.251	.296	.289	.277	.211	.196	.192	.191	.235
.189	.155	.156	.152	.153	.149	—	—	—	—	—	—	.160
—	—	—	—	—	—	.143	.133	.117	.112	.100	.080	.079
.080	.079	.077	.082	.064	.080	.075	.074	.071	.073	.074	.072	.130
.149	.146	.130	.135	.137	.136	.154	.139	.139	.138	.137	.138	.153
.163	.157	.153	.153	.156	.156	.156	.154	.155	.157	.155	.132	.171
.163	.161	.163	.163	.165	.161	.158	.156	.150	.166	.165	.168	.213
.249	.262	.248	.240	.230	.218	.204	.193	.188	.180	.163	.148	.152
.167	.153	.141	.142	.138	.133	—	—	—	—	—	—	.188
—	—	—	—	—	—	.176	.159	.155	.157	.154	.154	.226
.188	.179	.174	.176	.174	.175	.178	.180	.178	.171	.563	.184	.204
.236	.239	.238	.227	.228	.230	.228	.235	.237	.236	.240	.235	.135
.197	.190	.180	.170	.178	.165	.163	.162	.160	.157	.149	.151	.185
.145	.131	.134	.136	.140	.134	.122	.123	.125	.131	.134	.141	.159
.196	.200	.203	.206	.201	.202	.202	.203	.204	.206	.202	.202	.073
.163	.160	.159	.149	.154	.147	—	—	—	—	—	—	.122
—	—	—	—	—	—	.101	.090	.085	.094	.077	.084	.129
.061	.060	.062	.067	.067	.071	.072	.075	.074	.066	.064	.074	.107
.126	.132	.132	.136	.140	.141	.142	.144	.141	.144	.158	.154	.126
.121	.117	.126	.126	.116	.108	.100	.092	.085	.081	.073	.078	.152
.114	.111	.112	.114	.111	.103	.114	.115	.114	.115	.116	.119	.218
.141	.131	.121	.119	.119	.114	.116	.116	.113	.091	.084	.088	.117
.144	.121	.114	.096	.103	.105	—	—	—	—	—	—	.106
—	—	—	—	—	—	.205	.198	.178	.194	.178	.172	—
.174	.152	.150	.153	.150	.152	.147	.139	.138	.142	.143	.150	—
.175	.173	.180	.184	.187	.188	.189	.180	.178	.174	.159	.163	—
.145	.149	.145	.150	.155	.157	.169	.166	.170	.190	.203	.213	—
.268	.240	.225	.199	.197	.202	.171	.163	.168	.166	.149	.132	—
.132	.112	.110	.109	.109	.105	.106	.111	.110	.111	.112	.139	—
.114	.105	.099	.089	.086	.082	—	—	—	—	—	—	—
—	—	—	—	—	—	.096	.095	.096	.098	.094	.094	—
.163	.155	.152	.150	.150	.150	.153	.149	.145	.144	.140	.141	.153



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.  APRIL.	1	78	82	82	81	82	80	72	60	71	68	73	78
	2	89	87	80	74	76	74	71	68	66	66	68	64
	3	86	82	72	68	70	67	64	64	64	62	5	28
	4	84	85	82	77	80	76	76	73	76	64	78	86
	5 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	6	73	75	80	90	89	89	89	87	86	85	86	89
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	98	98	92	89	91	96	90	85	76	75	77	74
	9	97	83	79	70	61	59	73	74	70	66	61	56
	10	91	92	73	81	77	75	69	66	54	57	57	57
	11	91	87	86	79	78	67	60	62	57	60	53	60
	12	88	80	68	70	67	64	61	61	59	54	63	77
	13	90	90	79	72	66	61	56	50	54	61	54	51
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	93	95	92	87	84	86	89	92	93	92	87	82
	16	93	93	92	96	95	82	80	64	59	55	55	59
	17	79	80	73	67	63	60	58	53	51	46	44	41
	18	79	69	63	65	71	73	79	79	75	67	66	69
	19	88	79	69	70	65	61	62	62	57	59	64	51
	20	93	86	76	67	64	60	61	60	58	54	53	45
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	80	81	74	75	78	84	89	85	88	82	85	81
	23	88	86	85	87	83	89	83	81	78	75	82	83
	24	96	97	95	92	84	82	76	43	40	46	51	52
	25	87	82	71	67	70	62	53	49	52	47	55	61
	26	81	92	92	77	79	85	88	89	80	86	87	83
	27	68	67	64	64	64	60	52	53	58	54	54	52
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	74	56	58	61	58	48	47	52	45	45	43	40
	30	82	65	71	69	67	68	60	61	63	61	58	60
	Hourly Means	86	83	78	76	74	72	70	67	65	63	64	63
Tension of the Vapour.  APRIL.	1	In. .093	In. .112	In. .136	In. .147	In. .152	In. .159	In. .150	In. .135	In. .158	In. .162	In. .169	In. .173
	2	.169	.175	.174	.171	.184	.184	.186	.191	.192	.196	.179	.172
	3	.181	.183	.199	.208	.241	.245	.262	.292	.306	.331	.323	.200
	4	.269	.278	.291	.321	.339	.321	.326	.366	.350	.365	.311	.291
	5 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	6	.170	.177	.189	.208	.201	.200	.201	.211	.208	.209	.206	.212
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	.203	.248	.261	.304	.294	.367	.366	.435	.473	.486	.433	.456
	9	.256	.246	.262	.270	.262	.275	.352	.341	.319	.331	.327	.305
	10	.194	.240	.236	.282	.303	.327	.343	.371	.351	.377	.371	.350
	11	.236	.272	.295	.301	.308	.255	.244	.278	.332	.300	.313	.309
	12	.244	.276	.285	.322	.342	.345	.354	.380	.372	.382	.398	.438
	13	.265	.300	.324	.347	.340	.353	.349	.361	.397	.469	.390	.361
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	.399	.421	.419	.440	.443	.418	.427	.425	.400	.395	.389	.342
	16	.292	.275	.280	.341	.372	.431	.407	.332	.293	.281	.282	.287
	17	.185	.192	.180	.177	.167	.169	.180	.172	.172	.164	.157	.148
	18	.143	.143	.149	.169	.198	.218	.236	.245	.250	.231	.228	.233
	19	.150	.169	.171	.190	.211	.215	.250	.277	.250	.250	.253	.223
	20	.195	.233	.239	.236	.240	.254	.275	.277	.297	.261	.240	.225
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	.283	.294	.272	.282	.296	.303	.306	.319	.305	.333	.309	.294
	23	.299	.317	.323	.340	.357	.397	.413	.405	.396	.432	.463	.514
	24	.346	.395	.417	.398	.490	.489	.487	.357	.324	.335	.341	.330
	25	.211	.226	.230	.245	.267	.260	.235	.229	.260	.211	.231	.256
	26	.261	.281	.300	.269	.267	.274	.281	.282	.251	.251	.240	.221
	27	.135	.140	.147	.162	.165	.178	.153	.166	.190	.179	.192	.176
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	.172	.167	.189	.220	.228	.204	.209	.243	.233	.234	.230	.246
	30	.198	.191	.232	.259	.281	.275	.298	.233	.306	.290	.259	.254
	Hourly Means	.222	.238	.248	.264	.278	.285	.292	.293	.295	.298	.289	.281

<sup>a</sup> Good Friday

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
82	87	95	87	87	85	84	87	87	88	90	89	81
65	72	70	70	74	79	80	79	76	73	82	84	74
63	38	60	72	69	69	67	68	69	81	83	83	67
87	88	87	86	88	85	—	—	—	—	—	—	81
—	—	—	—	—	—	69	76	96	95	74	70	81
89	89	90	91	92	92	—	—	—	—	—	—	89
—	—	—	—	—	—	96	95	96	96	95	100	89
66	80	80	86	89	80	86	86	93	88	89	87	85
50	62	69	76	80	81	86	78	79	86	87	93	74
55	64	66	73	76	78	84	88	88	89	88	90	75
60	63	62	71	74	76	83	88	85	88	89	88	73
58	76	82	84	84	88	86	84	89	88	84	92	75
65	77	85	82	78	81	—	—	—	—	—	—	72
—	—	—	—	—	—	74	73	78	79	86	85	72
82	78	86	89	90	88	93	92	93	94	94	93	89
77	80	80	84	85	71	70	68	64	68	87	84	77
43	64	59	62	65	64	63	67	68	70	73	75	62
71	73	83	85	79	79	80	87	91	88	90	88	77
62	64	64	68	82	82	87	88	88	88	89	93	73
47	58	70	76	80	77	—	—	—	—	—	—	70
—	—	—	—	—	—	84	84	80	81	78	77	70
88	86	81	82	82	80	80	85	83	85	89	88	83
84	92	95	94	94	95	96	96	96	96	97	97	89
60	68	64	66	71	74	75	77	80	85	81	81	72
67	71	66	73	77	76	74	71	68	77	77	71	68
83	83	81	79	83	84	80	83	76	70	70	70	82
53	46	79	90	86	92	—	—	—	—	—	—	62
—	—	—	—	—	—	41	45	53	59	66	63	62
43	57	66	81	88	87	85	87	86	80	88	91	65
61	72	70	72	72	67	68	71	75	79	78	76	69
66	72	76	79	81	80	79	80	81	83	84	84	75
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.159	.155	.166	.157	.157	.151	.154	.159	.162	.164	.165	.163	.151
.169	.172	.177	.178	.176	.183	.176	.179	.178	.180	.189	.180	.192
.419	.190	.208	.219	.222	.267	.282	.291	.284	.260	.245	.259	.255
.282	.278	.257	.250	.248	.231	—	—	—	—	—	—	.269
—	—	—	—	—	—	.153	.168	.204	.206	.179	.165	.204
.215	.214	.218	.218	.216	.216	—	—	—	—	—	—	.204
—	—	—	—	—	—	.206	.199	.204	.206	.199	.204	.330
.381	.391	.352	.360	.363	.281	.278	.250	.255	.231	.232	.229	.252
.253	.230	.223	.223	.219	.212	.210	.183	.181	.187	.189	.192	.287
.306	.285	.266	.265	.246	.243	.229	.219	.215	.208	.211	.220	.266
.267	.252	.235	.261	.251	.245	.243	.244	.231	.229	.240	.236	.317
.296	.315	.320	.313	.291	.290	.271	.289	.275	.274	.272	.264	.349
.329	.351	.336	.314	.281	.285	—	—	—	—	—	—	.354
—	—	—	—	—	—	.376	.371	.376	.356	.387	.365	.288
.316	.282	.293	.293	.283	.297	.304	.301	.299	.306	.313	.297	.153
.358	.356	.290	.285	.280	.251	.225	.209	.194	.188	.213	.196	.184
.151	.170	.139	.133	.127	.123	.121	.124	.125	.128	.129	.130	.207
.208	.183	.175	.168	.162	.161	.159	.155	.156	.149	.147	.142	.251
.224	.212	.198	.200	.206	.199	.192	.191	.191	.185	.180	.182	.298
.209	.215	.220	.217	.214	.195	—	—	—	—	—	—	.388
—	—	—	—	—	—	.320	.314	.298	.295	.280	.275	.316
.309	.308	.310	.324	.315	.305	.281	.272	.268	.291	.296	.285	.242
.558	.574	.369	.343	.328	.402	.361	.351	.356	.325	.347	.344	.226
.333	.314	.250	.228	.237	.235	.226	.224	.219	.207	.208	.200	.157
.257	.264	.238	.260	.267	.259	.240	.229	.214	.247	.242	.229	.211
.221	.219	.207	.195	.203	.204	.196	.197	.168	.150	.144	.139	.263
.164	.136	.178	.185	.170	.172	—	—	—	—	—	—	.256
—	—	—	—	—	—	.118	.121	.131	.134	.140	.142	
.225	.238	.220	.230	.227	.211	.199	.196	.187	.174	.185	.197	
.259	.273	.265	.268	.266	.247	.255	.269	.283	.279	.283	.288	
.275	.263	.244	.243	.238	.235	.231	.228	.226	.222	.225	.221	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	MAY.	1	78	80	77	78	75	80	80	78	77	76	78	77
		2	98	97	97	91	83	82	76	71	68	58	58	62
		3	97	93	96	91	88	88	88	86	85	82	78	74
		4	81	86	85	87	84	80	78	77	78	73	84	80
		5	—	—	—	—	—	—	—	—	—	—	—	—
		6	74	77	87	89	94	93	88	88	90	88	83	90
		7	77	75	67	64	63	67	60	47	45	40	38	37
		8	87	89	88	86	56	45	41	29	29	52	41	51
		9	68	64	58	48	47	45	42	40	37	39	35	38
		10	88	76	71	66	62	65	62	67	68	78	79	61
		11	96	96	97	92	92	96	88	89	84	83	92	93
		12	—	—	—	—	—	—	—	—	—	—	—	—
		13	84	66	66	55	56	86	64	95	58	58	63	63
		14	78	76	81	80	72	68	73	67	60	57	62	49
		15	93	89	89	86	86	82	77	67	76	75	73	66
		16	85	80	76	72	87	70	66	66	68	66	67	71
		17	59	59	57	59	67	67	66	64	55	60	61	55
		18	88	85	74	76	75	71	72	64	62	58	56	45
		19	—	—	—	—	—	—	—	—	—	—	—	—
		20	87	85	93	88	83	84	84	67	64	72	71	66
		21	64	61	58	57	54	51	47	62	60	52	51	50
		22	78	81	83	83	75	70	64	60	53	53	61	56
		23	80	84	78	80	73	75	73	66	62	61	58	56
		24	87	82	78	77	75	72	74	73	73	71	66	65
		25	92	88	89	87	85	86	80	74	68	66	63	60
		26	—	—	—	—	—	—	—	—	—	—	—	—
		27	91	88	88	83	82	78	72	67	—	—	56	59
		28	82	81	82	79	75	69	62	55	58	49	48	46
		29	86	84	77	69	71	69	69	66	65	63	60	62
		30	95	95	95	96	97	97	95	90	86	96	94	90
		31	94	83	78	80	76	78	67	65	62	56	60	50
		Hourly Means		84	81	80	78	75	75	71	68	65	65	64
Tension of the Vapour.	MAY.	1	In. .340	In. .352	In. .410	In. .440	In. .456	In. .469	In. .469	In. .448	In. .424	In. .416	In. .419	In. .432
		2	.385	.421	.439	.448	.409	.461	.466	.468	.450	.440	.401	.358
		3	.353	.389	.441	.426	.435	.476	.484	.472	.456	.426	.467	.495
		4	.288	.312	.326	.355	.322	.334	.354	.336	.337	.324	.318	.316
		5	—	—	—	—	—	—	—	—	—	—	—	—
		6	.251	.267	.280	.287	.313	.340	.371	.382	.397	.402	.374	.322
		7	.266	.276	.266	.265	.276	.311	.290	.254	.275	.265	.263	.273
		8	.350	.365	.381	.399	.271	.235	.238	.184	.196	.213	.247	.307
		9	.202	.207	.206	.193	.211	.224	.213	.214	.205	.224	.204	.223
		10	.208	.233	.229	.232	.228	.244	.226	.247	.248	.258	.245	.205
		11	.338	.326	.350	.434	.497	.520	.561	.551	.626	.613	.562	.591
		12	—	—	—	—	—	—	—	—	—	—	—	—
		13	.196	.181	.203	.178	.178	.294	.211	.308	.175	.170	.174	.168
		14	.240	.242	.261	.283	.284	.282	.333	.330	.296	.301	.358	.300
		15	.257	.287	.324	.343	.363	.398	.437	.431	.434	.416	.366	.375
		16	.301	.310	.317	.330	.456	.399	.371	.360	.355	.327	.328	.343
		17	.215	.219	.225	.260	.342	.325	.334	.314	.275	.280	.268	.246
		18	.287	.290	.271	.317	.320	.323	.292	.270	.286	.261	.281	.235
		19	—	—	—	—	—	—	—	—	—	—	—	—
		20	.275	.276	.318	.354	.382	.359	.348	.385	.374	.363	.325	.267
		21	.140	.135	.130	.137	.141	.146	.149	.204	.208	.198	.210	.209
		22	.158	.211	.243	.264	.282	.290	.290	.283	.264	.263	.308	.279
		23	.187	.213	.282	.315	.339	.392	.414	.444	.415	.394	.376	.368
		24	.332	.349	.360	.390	.416	.442	.440	.457	.438	.408	.442	.510
		25	.398	.444	.496	.521	.595	.622	.650	.636	.586	.581	.577	.558
		26	—	—	—	—	—	—	—	—	—	—	—	—
		27	.431	.446	.459	.478	.506	.528	.489	.480	—	—	.442	.421
		28	.375	.384	.408	.418	.436	.431	.399	.386	.406	.369	.352	.328
		29	.323	.357	.344	.337	.356	.369	.386	.392	.417	.394	.386	.397
		30	.356	.375	.380	.391	.428	.432	.526	.576	.490	.494	.484	.485
		31	.410	.369	.349	.356	.357	.344	.350	.350	.351	.331	.325	.356
		Hourly Means		.291	.305	.322	.339	.356	.370	.374	.376	.361	.351	.352

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
80	82	83	88	90	92	95	98	92	93	97	96	84
63	67	70	72	70	75	86	88	80	91	95	97	79
91	89	90	93	96	90	97	95	91	89	88	79	89
77	85	83	82	—	—	—	—	—	—	—	—	79
—	—	—	—	—	—	77	77	76	70	64	75	79
89	93	94	87	83	84	86	85	81	81	80	79	86
52	69	79	85	89	86	85	86	86	85	86	93	69
38	43	44	48	56	65	72	70	73	68	71	68	59
42	45	53	64	66	71	74	75	84	89	92	95	59
60	66	69	71	71	73	86	86	85	89	96	98	75
98	92	88	85	85	79	—	—	—	—	—	—	89
—	—	—	—	—	—	88	90	84	89	87	86	89
63	57	67	67	83	88	89	90	86	92	95	92	74
64	71	79	83	86	92	93	95	93	95	95	97	78
71	76	78	75	76	79	76	81	76	82	84	84	79
57	73	62	63	72	68	65	64	58	57	54	56	68
64	66	61	62	64	53	72	81	85	88	92	90	67
45	47	50	58	82	88	—	—	—	—	—	—	71
—	—	—	—	—	—	85	79	83	85	83	89	71
68	73	75	72	67	62	67	73	71	77	88	81	76
59	72	82	78	74	88	95	91	93	92	94	92	70
56	61	70	70	82	83	91	93	86	87	89	87	74
50	61	75	80	77	79	88	92	94	94	95	90	76
65	67	83	88	91	94	93	95	94	96	92	93	81
65	71	77	81	84	90	—	—	—	—	—	—	82
—	—	—	—	—	—	93	94	94	95	96	96	82
60	76	83	93	88	95	95	93	88	86	88	88	82
47	55	59	62	66	68	69	69	71	79	89	88	67
68	69	66	73	66	63	64	64	69	69	80	92	70
91	92	96	96	96	96	96	97	99	97	97	96	95
70	76	77	82	86	93	93	95	92	96	96	90	79
65	70	74	76	79	81	84	85	84	86	87	88	76
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.409	.401	.412	.402	.396	.402	.381	.375	.353	.362	.367	.350	.404
.393	.354	.373	.352	.351	.380	.396	.395	.354	.339	.322	.330	.395
.362	.336	.369	.392	.394	.368	.347	.333	.333	.316	.293	.273	.393
.299	.315	.305	.299	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	.252	.241	.240	.228	.231	.257	.299
.314	.331	.343	.335	.315	.304	.309	.305	.293	.288	.273	.260	.319
.368	.323	.307	.294	.296	.297	.309	.307	.302	.306	.315	.364	.294
.208	.200	.187	.194	.196	.211	.215	.208	.213	.199	.203	.195	.242
.225	.203	.194	.198	.193	.191	.190	.192	.193	.185	.178	.185	.202
.195	.207	.203	.205	.209	.217	.250	.253	.259	.282	.350	.370	.242
.617	.592	.489	.438	.397	.344	—	—	—	—	—	—	—
—	—	—	—	—	—	.215	.213	.178	.176	.178	.181	.416
.166	.154	.176	.170	.204	.222	.242	.238	.239	.266	.270	.272	.211
.356	.300	.278	.280	.257	.260	.249	.243	.226	.222	.230	.229	.277
.335	.321	.308	.297	.305	.308	.316	.326	.300	.311	.299	.291	.339
.285	.307	.235	.231	.247	.239	.231	.229	.210	.203	.195	.203	.292
.262	.267	.257	.261	.262	.210	.260	.288	.302	.293	.296	.292	.273
.231	.216	.192	.196	.219	.212	—	—	—	—	—	—	—
—	—	—	—	—	—	.255	.242	.253	.261	.252	.272	.260
.237	.223	.221	.210	.193	.171	.173	.171	.156	.157	.168	.164	.261
.230	.230	.216	.194	.176	.171	.173	.163	.160	.157	.151	.153	.174
.262	.242	.245	.210	.227	.234	.221	.211	.199	.198	.197	.191	.240
.337	.360	.339	.354	.331	.322	.323	.315	.305	.290	.285	.286	.333
.487	.409	.417	.410	.399	.408	.397	.387	.381	.390	.382	.378	.409
.510	.513	.482	.449	.475	.508	—	—	—	—	—	—	—
—	—	—	—	—	—	.445	.447	.436	.435	.418	.419	.508
.428	.489	.493	.509	.480	.466	.470	.437	.401	.385	.377	.365	.454
.302	.313	.298	.289	.296	.290	.297	.281	.266	.277	.283	.293	.341
.356	.322	.277	.275	.261	.252	.262	.273	.286	.283	.316	.347	.332
.457	.444	.465	.463	.462	.468	.450	.449	.441	.425	.419	.428	.449
.444	.377	.338	.327	.321	.304	.292	.286	.273	.277	.265	.245	.333
.336	.324	.312	.305	.302	.298	.293	.289	.280	.278	.278	.281	.322

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	JUNE.	1	96	96	92	89	79	78	78	71	71	67	67	63
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	79	79	71	73	78	76	74	75	66	62	62	59
		4	90	89	84	81	83	79	75	74	68	65	66	63
		5	90	95	92	86	81	82	81	78	75	74	76	87
		6	97	95	93	81	69	62	56	53	51	52	51	55
		7	77	74	81	79	73	75	76	76	77	73	41	39
		8	68	71	65	69	68	64	62	58	57	53	51	57
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	83	76	50	48	44	54	32	68	29	28	34	31
		11	84	74	66	51	47	66	68	64	57	59	53	52
		12	77	70	79	67	67	66	59	56	54	49	48	45
		13	76	74	72	67	69	66	65	61	66	65	66	63
		14	65	66	69	74	74	74	66	67	65	64	66	57
		15	81	79	75	74	71	77	73	73	70	72	71	65
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	95	95	96	97	94	91	88	90	87	90	90	87
		18	98	95	92	89	82	80	82	80	76	72	85	69
		19	98	94	93	89	89	95	95	97	89	77	72	68
		20	77	70	69	63	58	62	55	58	55	53	55	88
		21	89	83	77	70	69	66	67	62	58	59	56	57
		22	82	80	79	64	60	57	49	51	44	39	39	39
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	86	82	77	74	71	71	73	71	75	70	69	61
		25	93	91	88	90	84	77	84	81	74	86	80	73
		26	78	87	86	90	88	81	87	92	86	84	83	84
		27	95	95	96	96	97	97	97	97	97	97	95	98
		28	77	77	72	71	70	66	61	61	59	56	52	70
		29	87	80	71	63	66	64	61	59	55	50	47	49
		30	—	—	—	—	—	—	—	—	—	—	—	—
		Hourly Means		85	83	79	76	73	73	71	71	66	65	63
Tension of the Vapour.	JUNE.	1	In. .326	In. .388	In. .293	In. .388	In. .404	In. .416	In. .481	In. .460	In. .470	In. .435	In. .462	In. .495
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	.254	.275	.282	.333	.380	.374	.367	.397	.390	.379	.400	.403
		4	.269	.300	.327	.364	.405	.404	.413	.425	.409	.420	.418	.415
		5	.357	.379	.393	.403	.395	.443	.513	.538	.520	.475	.510	.536
		6	.478	.541	.597	.570	.516	.460	.441	.414	.400	.373	.353	.343
		7	.310	.300	.326	.347	.369	.419	.453	.508	.508	.519	.311	.287
		8	.178	.203	.224	.251	.262	.272	.277	.288	.300	.304	.307	.300
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	.254	.265	.204	.208	.201	.245	.151	.337	.140	.140	.155	.142
		11	.212	.229	.236	.203	.206	.294	.317	.312	.290	.337	.337	.348
		12	.252	.263	.305	.294	.317	.344	.345	.348	.325	.297	.287	.283
		13	.287	.324	.353	.362	.387	.392	.389	.404	.434	.477	.465	.434
		14	.274	.316	.382	.405	.417	.429	.405	.465	.503	.480	.526	.443
		15	.360	.392	.415	.471	.435	.493	.516	.524	.504	.451	.471	.486
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	.466	.489	.534	.558	.564	.617	.605	.577	.607	.585	.574	.596
		18	.548	.600	.630	.673	.667	.635	.690	.658	.700	.764	.742	.759
		19	.578	.651	.658	.696	.709	.666	.663	.642	.659	.654	.615	.594
		20	.388	.371	.394	.392	.381	.437	.396	.428	.424	.395	.402	.614
		21	.364	.372	.388	.360	.401	.386	.399	.383	.383	.414	.430	.477
		22	.338	.351	.370	.342	.336	.340	.298	.334	.314	.290	.286	.280
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	.411	.441	.480	.499	.510	.490	.580	.600	.590	.523	.520	.545
		25	.535	.530	.527	.569	.620	.641	.607	.652	.687	.680	.736	.753
		26	.447	.479	.486	.502	.520	.538	.569	.576	.550	.533	.521	.511
		27	.479	.483	.473	.477	.468	.460	.461	.452	.480	.541	.552	.548
		28	.400	.418	.386	.382	.403	.410	.404	.402	.384	.409	.387	.517
		29	.345	.354	.353	.344	.376	.384	.388	.400	.403	.401	.394	.417
		30	—	—	—	—	—	—	—	—	—	—	—	—
		Hourly Means		.364	.389	.405	.416	.426	.440	.445	.461	.455	.451	.446

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
73	67	72	82	76	78	—	—	—	—	—	—	78
60	68	84	89	91	92	83	76	78	81	81	75	79
65	72	78	84	91	94	93	95	96	93	94	93	82
95	89	93	93	93	92	94	96	97	97	97	98	89
48	55	60	65	74	75	82	75	72	80	80	76	69
41	46	37	42	41	45	63	70	72	87	86	89	65
63	69	71	75	75	81	—	—	—	—	—	—	72
—	—	—	—	—	—	85	92	92	92	92	95	—
34	46	54	58	67	74	73	76	81	85	93	93	59
48	54	74	78	79	87	87	82	77	78	80	83	69
47	53	54	39	62	66	73	78	73	74	72	84	63
57	76	81	81	83	81	88	88	89	84	81	74	74
55	78	81	85	81	73	74	80	80	80	83	81	72
63	70	78	86	86	87	—	—	—	—	—	—	78
—	—	—	—	—	—	88	80	81	86	85	92	—
90	93	94	98	97	97	96	97	97	97	97	96	94
70	76	89	90	91	93	93	93	97	97	98	96	87
75	64	75	81	84	87	89	91	95	94	95	81	86
100	100	100	71	76	76	83	85	86	85	91	91	75
58	61	80	85	76	77	81	77	81	74	80	83	72
40	50	58	74	83	78	—	—	—	—	—	—	—
—	—	—	—	—	—	80	89	83	88	83	88	66
72	74	73	75	69	89	92	93	90	90	94	95	79
54	52	56	67	83	81	71	81	71	79	79	79	77
87	93	94	95	96	97	96	96	94	91	95	96	90
99	97	97	97	97	97	98	91	79	80	78	79	94
66	60	67	74	76	81	81	82	86	92	85	73	71
52	64	81	90	88	83	—	—	—	—	—	—	—
—	—	—	—	—	—	94	95	97	97	97	97	74
64	69	75	78	81	82	85	86	85	87	88	87	77
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.444	.460	.443	.461	.390	.391	—	—	—	—	—	—	—
—	—	—	—	—	—	.265	.240	.240	.240	.243	.221	.382
.391	.337	.322	.314	.288	.271	.264	.264	.257	.254	.248	.236	.320
.368	.339	.326	.324	.326	.319	.324	.336	.328	.337	.333	.346	.357
.550	.463	.459	.454	.451	.418	.433	.439	.445	.445	.463	.452	.456
.283	.315	.306	.303	.311	.303	.303	.289	.286	.314	.317	.295	.380
.282	.243	.159	.155	.138	.136	.164	.170	.168	.175	.172	.178	.283
.310	.297	.303	.309	.296	.293	—	—	—	—	—	—	—
—	—	—	—	—	—	.280	.265	.257	.250	.252	.240	.272
.158	.190	.188	.186	.193	.197	.190	.197	.195	.199	.190	.191	.197
.315	.301	.294	.269	.254	.244	.233	.223	.219	.216	.217	.228	.264
.254	.257	.236	.240	.252	.250	.249	.249	.240	.247	.253	.279	.278
.398	.412	.362	.323	.308	.293	.290	.278	.278	.271	.266	.254	.352
.436	.448	.398	.382	.360	.316	.297	.314	.314	.307	.298	.308	.384
.457	.412	.392	.387	.366	.362	—	—	—	—	—	—	—
—	—	—	—	—	—	.448	.397	.391	.421	.422	.446	.434
.598	.567	.534	.543	.537	.531	.534	.528	.518	.497	.499	.506	.549
.750	.649	.614	.568	.575	.584	.580	.547	.576	.541	.552	.531	.631
.576	.526	.505	.484	.471	.481	.504	.493	.490	.477	.462	.392	.569
.706	.655	.527	.336	.330	.317	.318	.324	.323	.319	.331	.346	.411
.445	.420	.368	.355	.340	.329	.342	.317	.320	.292	.314	.325	.372
.293	.316	.307	.311	.310	.303	—	—	—	—	—	—	—
—	—	—	—	—	—	.375	.389	.394	.387	.383	.384	.335
.482	.483	.496	.504	.541	.595	.538	.496	.506	.489	.515	.530	.515
.584	.506	.456	.480	.523	.508	.465	.457	.429	.446	.442	.449	.553
.530	.549	.536	.524	.503	.504	.499	.499	.473	.466	.481	.492	.512
.561	.528	.522	.522	.526	.522	.525	.555	.456	.440	.409	.407	.494
.446	.357	.353	.342	.327	.326	.520	.329	.315	.296	.278	.260	.369
.433	.416	.400	.382	.360	.344	—	—	—	—	—	—	—
—	—	—	—	—	—	.545	.552	.550	.556	.554	.590	.427
.442	.418	.392	.378	.371	.365	.371	.366	.359	.355	.356	.355	.404

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	JULY.	1	98	92	92	86	84	68	77	71	56	49	43	34	
		2	86	78	79	75	72	73	68	60	61	63	55	56	
		3	76	73	67	66	61	56	53	52	49	44	45	47	
		4	73	63	47	46	58	57	53	48	48	57	53	54	
		5	88	89	81	78	82	86	87	81	88	90	89	87	
		6	91	65	72	56	50	49	48	44	44	78	78	40	36
		7	—	—	—	—	—	—	—	—	—	—	—	—	—
		8	85	81	72	65	64	63	56	51	48	47	47	51	59
		9	95	87	81	77	70	70	64	56	62	67	67	75	78
		10	96	89	82	68	67	68	66	67	64	64	64	64	63
		11	81	72	67	63	62	60	54	60	57	57	57	54	49
		12	77	77	76	72	65	58	54	53	55	54	54	54	57
		13	87	75	83	87	80	78	74	71	62	61	63	63	67
		14	—	—	—	—	—	—	—	—	—	—	—	—	—
		15	75	75	66	56	55	55	57	60	65	71	77	77	82
		16	92	91	90	87	82	82	85	80	73	77	75	75	75
		17	81	79	74	69	62	47	40	65	61	61	56	54	54
		18	85	77	80	82	81	78	74	74	73	70	70	70	70
		19	90	87	87	87	89	86	88	75	70	67	70	66	66
		20	83	76	78	76	93	69	68	66	63	66	59	61	61
		21	—	—	—	—	—	—	—	—	—	—	—	—	—
		22	95	88	82	78	73	70	69	67	67	75	83	82	82
		23	85	78	69	66	69	69	63	61	63	77	73	84	84
		24	89	83	87	79	76	78	78	74	69	65	70	75	75
		25	95	95	92	89	76	76	66	65	69	70	65	57	57
		26	79	71	68	70	72	62	66	68	57	63	60	60	60
		27	92	91	90	81	77	75	68	67	54	58	66	64	64
		28	—	—	—	—	—	—	—	—	—	—	—	—	—
		29	88	92	87	82	79	77	72	66	68	64	60	64	64
		30	98	97	97	95	95	97	96	94	94	97	98	99	99
		31	99	98	88	83	75	83	82	74	68	73	87	95	95
Hourly Means		87	82	79	75	73	70	68	65	65	66	65	66		
Tension of the Vapour.	JULY.	1	In. .655	In. .682	In. .693	In. .684	In. .668	In. .670	In. .699	In. .666	In. .595	In. .549	In. .513	In. .404	
		2	.352	.420	.465	.481	.497	.549	.539	.518	.508	.533	.522	.460	
		3	.384	.393	.406	.401	.400	.382	.372	.369	.343	.299	.304	.325	
		4	.240	.233	.197	.206	.278	.280	.275	.272	.275	.336	.368	.398	
		5	.340	.386	.392	.386	.408	.439	.446	.458	.489	.480	.473	.459	
		6	.600	.442	.535	.454	.429	.437	.448	.429	.370	.376	.381	.331	
		7	—	—	—	—	—	—	—	—	—	—	—	—	
		8	.313	.328	.341	.356	.369	.380	.380	.385	.388	.418	.483	.500	
		9	.454	.507	.512	.528	.560	.584	.573	.485	.508	.511	.534	.539	
		10	.666	.708	.667	.588	.590	.614	.578	.572	.578	.569	.577	.527	
		11	.427	.431	.440	.453	.472	.482	.471	.526	.513	.570	.575	.552	
		12	.368	.433	.432	.435	.395	.413	.428	.488	.532	.535	.521	.569	
		13	.512	.501	.522	.589	.565	.575	.600	.609	.569	.594	.544	.586	
		14	—	—	—	—	—	—	—	—	—	—	—	—	
		15	.391	.425	.425	.388	.392	.404	.401	.417	.441	.474	.486	.480	
		16	.452	.449	.452	.486	.480	.508	.545	.551	.425	.552	.502	.520	
		17	.397	.426	.446	.453	.449	.372	.329	.572	.490	.556	.535	.506	
		18	.363	.386	.471	.504	.554	.582	.592	.618	.590	.577	.579	.584	
		19	.574	.583	.608	.583	.632	.698	.602	.565	.584	.588	.580	.585	
		20	.420	.421	.470	.486	.553	.502	.517	.511	.535	.519	.508	.572	
		21	—	—	—	—	—	—	—	—	—	—	—	—	
		22	.488	.537	.539	.566	.596	.653	.645	.658	.670	.692	.742	.749	
		23	.524	.498	.479	.491	.533	.576	.541	.564	.557	.567	.596	.583	
		24	.469	.450	.480	.480	.486	.544	.543	.549	.527	.503	.498	.519	
		25	.482	.480	.500	.510	.460	.493	.452	.493	.468	.483	.496	.537	
		26	.383	.374	.383	.419	.431	.407	.441	.480	.433	.477	.500	.507	
		27	.397	.470	.536	.513	.523	.537	.518	.532	.447	.500	.608	.492	
		28	—	—	—	—	—	—	—	—	—	—	—	—	
		29	.478	.544	.569	.569	.608	.636	.618	.645	.711	.691	.663	.660	
		30	.611	.668	.683	.700	.698	.716	.735	.717	.730	.708	.709	.712	
		31	.678	.716	.726	.719	.695	.786	.820	.756	.758	.817	.738	.796	
Hourly Means		.460	.477	.495	.497	.508	.527	.523	.534	.520	.536	.538	.535		

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
36	55	49	62	66	75	89	92	93	93	90	95	73
55	58	70	70	76	82	85	77	82	77	86	87	72
46	49	53	58	62	68	73	76	89	91	99	87	64
55	66	80	84	86	81	77	82	89	94	94	93	68
91	93	95	96	96	97	97	97	97	100	99	98	91
38	52	53	58	61	63	—	—	—	—	—	—	66
—	—	—	—	—	—	92	90	92	93	95	90	—
63	72	77	80	89	93	96	95	90	88	92	93	74
83	83	86	93	95	96	95	95	93	98	98	97	83
70	78	80	81	79	78	77	78	81	81	83	83	75
49	54	67	67	72	78	87	90	90	95	86	83	69
63	59	58	58	68	74	78	76	71	80	84	89	67
67	76	83	87	89	89	—	—	—	—	—	—	—
—	—	—	—	—	—	79	73	71	73	71	74	76
82	86	84	92	96	94	94	93	94	94	94	94	79
70	76	85	89	91	90	97	95	92	83	81	84	84
55	68	69	71	75	75	80	88	86	90	91	86	70
68	76	81	80	82	84	86	88	92	95	92	93	80
68	76	66	70	71	71	74	75	81	81	85	83	78
59	71	80	76	87	83	—	—	—	—	—	—	—
—	—	—	—	—	—	93	95	93	95	95	94	78
82	89	96	92	86	88	91	80	82	88	89	88	83
90	91	93	93	95	93	89	86	84	88	86	89	81
78	81	86	85	94	91	94	94	96	96	95	95	84
60	66	89	91	91	90	91	92	91	88	90	95	81
66	82	88	88	88	89	91	90	92	90	88	93	77
69	78	77	78	85	75	—	—	—	—	—	—	—
—	—	—	—	—	—	92	92	85	94	93	96	79
72	77	79	84	91	93	94	96	95	98	98	98	82
98	97	99	99	99	98	98	97	97	97	97	99	97
95	77	75	93	76	74	82	93	94	96	96	95	85
68	74	78	81	83	84	88	88	89	90	90	91	78
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.409	.410	.362	.394	.352	.376	.376	.390	.369	.354	.363	.364	.500
.418	.422	.471	.440	.435	.443	.439	.427	.432	.424	.394	.387	.457
.303	.278	.250	.251	.257	.268	.266	.246	.242	.235	.228	.225	.309
.395	.379	.335	.317	.319	.310	.293	.293	.284	.277	.270	.282	.296
.470	.481	.494	.496	.509	.477	.518	.537	.518	.538	.516	.542	.469
.345	.421	.345	.338	.322	.314	—	—	—	—	—	—	—
—	—	—	—	—	—	.290	.284	.285	.287	.286	.282	.376
.500	.482	.452	.485	.430	.423	.415	.413	.386	.340	.396	.388	.406
.636	.624	.594	.559	.549	.571	.564	.564	.553	.592	.602	.620	.555
.481	.476	.471	.472	.469	.456	.438	.437	.430	.426	.421	.420	.526
.515	.496	.452	.416	.408	.398	.382	.345	.355	.382	.336	.331	.447
.552	.448	.382	.360	.382	.406	.416	.435	.441	.453	.475	.485	.449
.576	.556	.523	.514	.510	.518	—	—	—	—	—	—	—
—	—	—	—	—	—	.393	.388	.387	.374	.367	.373	.510
.461	.468	.453	.490	.501	.471	.468	.468	.471	.463	.467	.462	.449
.616	.547	.508	.500	.489	.468	.453	.427	.427	.403	.385	.385	.480
.486	.514	.397	.358	.338	.327	.336	.325	.319	.321	.315	.302	.411
.596	.561	.548	.548	.538	.528	.543	.538	.521	.516	.550	.550	.539
.509	.513	.407	.406	.391	.389	.397	.405	.424	.422	.409	.401	.511
.566	.542	.523	.378	.377	.356	—	—	—	—	—	—	—
—	—	—	—	—	—	.442	.426	.407	.413	.408	.403	.469
.808	.745	.724	.705	.583	.566	.554	.480	.491	.523	.514	.515	.614
.614	.654	.615	.578	.568	.546	.489	.472	.465	.470	.468	.477	.539
.502	.490	.497	.505	.519	.509	.514	.513	.516	.520	.511	.492	.506
.539	.506	.457	.430	.405	.386	.389	.395	.415	.410	.416	.412	.459
.580	.535	.435	.403	.382	.367	.364	.358	.356	.348	.340	.346	.419
.601	.520	.409	.367	.354	.338	—	—	—	—	—	—	—
—	—	—	—	—	—	.440	.433	.395	.421	.403	.405	.465
.654	.642	.615	.627	.605	.557	.536	.535	.529	.567	.567	.573	.600
.682	.686	.680	.674	.675	.677	.677	.676	.671	.668	.668	.647	.686
.818	.691	.530	.578	.541	.544	.507	.532	.509	.495	.485	.476	.655
.542	.522	.479	.466	.454	.444	.441	.435	.430	.431	.428	.428	.485



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	AUGUST.	1	96	92	84	83	84	85	85	79	76	75	72	79	
		2	91	86	79	75	70	57	58	58	53	54	50	51	
		3	91	86	87	86	84	80	77	75	74	75	85	83	
		4	—	—	—	—	—	—	—	—	—	—	—	—	—
		5	95	85	81	77	75	75	78	68	73	76	76	82	82
		6	97	93	89	83	87	84	95	82	68	68	61	54	54
		7	93	82	73	78	77	74	72	91	63	62	62	53	53
		8	95	95	86	88	77	75	72	80	74	77	72	72	72
		9	87	84	76	75	76	65	64	68	72	76	81	76	76
		10	89	80	74	66	77	76	72	52	50	46	41	52	52
		11	—	—	—	—	—	—	—	—	—	—	—	—	—
		12	81	77	70	68	64	57	63	64	65	67	64	63	63
		13	95	93	87	84	82	80	78	76	74	67	70	71	71
		14	91	96	93	94	91	91	89	88	79	75	73	69	69
		15	97	98	93	91	87	82	79	78	75	78	77	78	78
		16	97	97	92	84	86	86	78	58	78	85	76	65	65
		17	86	83	72	69	61	50	44	65	66	68	69	48	48
		18	—	—	—	—	—	—	—	—	—	—	—	—	—
		19	97	96	97	96	91	91	89	87	94	84	79	75	75
		20	93	92	97	88	83	81	78	79	76	71	63	52	52
		21	66	70	72	76	75	73	65	61	56	56	57	57	57
		22	77	78	82	82	83	93	96	95	91	84	84	91	91
		23	98	98	95	84	75	66	61	53	48	50	52	48	48
		24	96	86	82	81	70	77	54	52	64	68	61	65	65
		25	—	—	—	—	—	—	—	—	—	—	—	—	—
		26	95	93	89	83	86	81	80	77	76	74	77	82	82
		27	96	94	90	83	78	81	84	87	91	81	81	73	73
		28	94	93	89	90	81	86	84	73	89	87	79	79	79
		29	93	93	88	83	76	70	66	67	71	66	64	62	62
		30	93	93	89	84	86	74	76	80	86	93	89	93	93
		31	96	94	92	85	84	88	82	80	78	78	76	72	72
		32	—	—	—	—	—	—	—	—	—	—	—	—	—
		Hourly Means		92	89	85	82	79	77	75	73	73	72	70	68
Tension of the Vapour.	AUGUST.	1	In. .512	In. .531	In. .545	In. .570	In. .632	In. .659	In. .707	In. .735	In. .693	In. .769	In. .779	In. .753	
		2	.428	.594	.500	.512	.514	.449	.458	.473	.456	.463	.459	.476	
		3	.394	.406	.463	.510	.568	.582	.601	.610	.556	.540	.565	.538	
		4	—	—	—	—	—	—	—	—	—	—	—	—	
		5	.320	.362	.388	.425	.470	.491	.543	.514	.589	.577	.544	.569	
		6	.518	.528	.527	.523	.596	.639	.597	.586	.551	.513	.457	.437	
		7	.348	.375	.395	.481	.515	.544	.595	.554	.533	.514	.514	.468	
		8	.548	.564	.551	.603	.581	.594	.603	.637	.658	.748	.715	.684	
		9	.575	.568	.575	.576	.609	.600	.600	.610	.642	.678	.629	.709	
		10	.430	.425	.420	.392	.475	.511	.500	.391	.378	.380	.331	.349	
		11	—	—	—	—	—	—	—	—	—	—	—	—	
		12	.303	.329	.329	.352	.359	.344	.422	.419	.459	.436	.468	.469	
		13	.379	.395	.413	.474	.500	.511	.523	.522	.527	.450	.448	.452	
		14	.445	.499	.523	.547	.562	.587	.594	.598	.635	.600	.577	.542	
		15	.528	.587	.615	.629	.638	.655	.641	.690	.700	.642	.633	.667	
		16	.507	.581	.635	.645	.684	.725	.744	.757	.687	.797	.697	.616	
		17	.504	.515	.478	.480	.465	.406	.391	.571	.569	.612	.605	.395	
		18	—	—	—	—	—	—	—	—	—	—	—	—	
		19	.607	.617	.627	.671	.679	.737	.760	.723	.776	.794	.795	.761	
		20	.612	.620	.658	.565	.547	.513	.491	.482	.513	.502	.451	.402	
		21	.268	.303	.334	.374	.401	.410	.380	.385	.356	.376	.404	.387	
		22	.398	.423	.430	.434	.450	.485	.513	.551	.675	.734	.704	.698	
		23	.592	.625	.630	.574	.464	.455	.444	.395	.381	.402	.423	.374	
		24	.323	.347	.380	.426	.413	.508	.348	.380	.384	.405	.365	.379	
		25	—	—	—	—	—	—	—	—	—	—	—	—	
		26	.319	.349	.400	.412	.466	.465	.480	.490	.490	.456	.424	.419	
		27	.405	.411	.419	.418	.416	.425	.449	.502	.453	.516	.447	.473	
		28	.386	.403	.427	.452	.483	.508	.508	.379	.450	.508	.490	.459	
		29	.389	.397	.413	.461	.446	.436	.444	.446	.505	.451	.477	.456	
		30	.343	.372	.403	.448	.500	.466	.504	.577	.535	.559	.554	.557	
		31	.516	.531	.543	.529	.601	.610	.586	.603	.593	.627	.630	.665	
		32	—	—	—	—	—	—	—	—	—	—	—	—	
		Hourly Means		.441	.465	.490	.499	.520	.530	.534	.537	.546	.557	.540	.526

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
79	65	74	80	80	72	78	89	91	89	88	90	82
50	56	72	74	76	78	77	80	88	90	90	86	71
83	75	96	94	91	91	—	—	—	—	—	—	86
—	—	—	—	—	—	86	89	91	91	93	89	84
73	72	72	89	94	96	96	95	97	97	97	97	78
64	56	64	75	77	79	80	75	80	86	91	93	81
65	80	80	85	83	86	92	97	97	96	97	95	86
82	87	93	96	93	90	95	95	95	94	95	90	77
80	77	80	82	72	69	74	80	76	89	86	87	69
43	52	73	80	71	77	—	—	—	—	—	—	79
—	—	—	—	—	—	74	78	88	83	89	84	83
74	87	91	91	91	93	93	93	94	91	95	95	88
74	83	85	82	88	88	89	89	87	92	91	95	89
71	77	84	88	95	97	96	95	97	97	97	97	88
81	90	95	95	96	96	95	95	95	92	97	97	85
77	83	89	88	89	89	88	91	96	95	92	91	72
53	55	59	64	63	66	—	—	—	—	—	—	91
—	—	—	—	—	—	97	97	99	97	99	98	76
80	84	100	82	87	92	96	97	97	96	96	96	70
55	63	90	91	76	78	76	75	62	66	65	64	91
62	76	81	81	73	77	76	71	74	74	72	72	70
90	92	97	98	98	98	97	97	98	99	98	97	91
52	60	67	80	80	81	83	90	90	86	81	91	74
68	77	82	82	89	90	—	—	—	—	—	—	79
—	—	—	—	—	—	90	94	92	94	95	95	87
82	89	92	91	91	93	93	92	94	93	93	96	89
73	94	93	92	94	96	97	95	95	92	92	95	88
86	87	88	90	91	91	93	93	92	90	92	92	82
72	68	83	87	91	90	91	96	95	95	96	96	90
92	95	95	89	94	95	95	97	94	96	96	96	89
76	89	96	95	95	97	—	—	—	—	—	—	89
—	—	—	—	—	—	95	96	97	97	97	98	82
72	77	84	86	86	87	89	90	91	91	91	92	82
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.753	.557	.553	.554	.511	.422	.420	.405	.395	.386	.371	.386	.567
.450	.429	.436	.420	.407	.390	.375	.355	.365	.352	.358	.341	.432
.557	.487	.532	.515	.498	.493	—	—	—	—	—	—	.470
—	—	—	—	—	—	.307	.310	.308	.303	.302	.285	.492
.483	.442	.434	.479	.486	.512	.531	.533	.525	.539	.522	.518	.447
.460	.383	.357	.370	.352	.338	.336	.327	.336	.333	.329	.328	.502
.495	.531	.501	.507	.495	.509	.525	.539	.539	.525	.522	.518	.619
.673	.635	.627	.616	.583	.576	.618	.618	.618	.603	.605	.604	.557
.605	.628	.611	.577	.504	.453	.456	.461	.416	.450	.413	.415	.364
.344	.361	.366	.346	.330	.340	—	—	—	—	—	—	.380
—	—	—	—	—	—	.284	.283	.296	.269	.260	.282	.459
.465	.432	.406	.390	.383	.378	.362	.337	.326	.308	.316	.325	.524
.466	.460	.451	.424	.446	.453	.441	.445	.444	.466	.460	.470	.579
.532	.496	.497	.469	.487	.476	.472	.466	.466	.487	.501	.522	.642
.626	.574	.579	.533	.516	.516	.501	.505	.501	.462	.482	.479	.485
.610	.670	.670	.627	.610	.606	.588	.634	.629	.602	.562	.524	.671
.372	.350	.348	.355	.354	.331	—	—	—	—	—	—	.439
—	—	—	—	—	—	.541	.574	.605	.604	.614	.608	.368
.788	.749	.708	.631	.627	.602	.590	.581	.585	.583	.558	.558	.574
.416	.446	.446	.408	.356	.352	.342	.326	.279	.279	.271	.254	.406
.403	.382	.374	.374	.354	.378	.371	.346	.362	.373	.367	.374	.369
.632	.609	.608	.610	.631	.613	.642	.624	.621	.600	.567	.531	.418
.373	337	.335	.351	.340	.339	.327	.328	.321	.315	.320	.306	.411
.376	.390	.387	.383	.377	.378	—	—	—	—	—	—	.431
—	—	—	—	—	—	.346	.325	.333	.307	.308	.297	.410
.403	.415	.419	.416	.403	.400	.404	.400	.400	.398	.398	.403	.502
.426	.436	.397	.371	.356	.356	.350	.369	.364	.353	.370	.379	.571
.466	.436	.410	.405	.408	.401	.406	.398	.388	.378	.394	.396	.431
.487	.386	.408	.390	.366	.370	.346	.345	.332	.321	.333	.336	.410
.543	.538	.526	.504	.504	.514	.520	.514	.515	.517	.520	.516	.431
.588	.517	.507	.476	.479	.493	—	—	—	—	—	—	.502
—	—	—	—	—	—	.605	.594	.592	.602	.607	.608	.431
.511	.484	.477	.463	.450	.444	.445	.442	.439	.434	.427	.428	.435

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air. SEPTEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	98	96	93	94	94	95	94	89	86	78	59	58
	3	86	81	75	71	65	57	58	56	50	48	41	70
	4	83	82	74	70	61	57	53	48	46	41	42	43
	5	84	89	69	69	52	66	64	61	59	65	67	67
	6	96	94	91	85	83	80	79	77	75	72	72	72
	7	96	94	88	83	82	77	76	78	75	72	75	75
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	96	97	95	95	96	95	92	87	91	84	85	61
	10	94	95	93	92	91	88	83	83	79	79	78	82
	11	99	96	97	93	82	90	87	85	84	83	92	90
	12	88	86	85	84	79	75	72	78	76	79	77	74
	13	94	90	82	78	69	72	70	69	55	62	61	65
	14	96	97	90	86	86	87	78	69	70	70	72	70
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	96	96	95	91	80	74	71	67	64	65	65	67
	17	92	91	89	87	82	76	75	72	68	71	67	64
	18	79	83	64	56	51	61	64	62	59	60	61	68
	19	95	96	82	82	77	76	73	71	66	77	78	76
	20	97	98	95	91	89	83	75	67	62	59	59	61
	21	84	85	79	73	61	57	73	34	37	41	44	54
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	73	76	72	69	74	81	72	65	68	69	68	61
	24	86	89	82	77	75	71	70	69	68	75	54	67
	25	94	66	93	87	83	78	75	67	76	73	78	80
	26	90	87	81	82	63	57	51	48	48	54	47	56
	27	88	78	72	58	55	60	50	79	50	49	48	51
	28	81	78	62	54	65	65	63	69	68	66	66	71
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	82	87	84	78	71	60	52	50	52	55	55	53
	Hourly Means	90	88	83	79	75	74	71	68	65	66	64	66
Tension of the Vapour. SEPTEMBER.	1	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
	2	.611	.620	.640	.649	.656	.651	.681	.753	.733	.732	.619	.599
	3	.381	.397	.415	.429	.417	.398	.421	.400	.399	.389	.395	.488
	4	.372	.401	.402	.408	.380	.377	.363	.339	.332	.302	.301	.310
	5	.338	.372	.360	.368	.327	.386	.376	.385	.367	.418	.422	.403
	6	.365	.420	.501	.508	.513	.516	.525	.542	.552	.531	.532	.513
	7	.370	.476	.487	.486	.501	.508	.532	.544	.535	.520	.520	.514
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	.501	.539	.541	.563	.583	.622	.610	.617	.629	.642	.637	.583
	10	.475	.494	.524	.544	.530	.565	.600	.641	.609	.584	.644	.627
	11	.524	.527	.550	.572	.520	.585	.585	.635	.632	.576	.604	.574
	12	.431	.437	.451	.464	.485	.511	.500	.604	.582	.579	.584	.577
	13	.321	.381	.420	.450	.427	.486	.483	.496	.419	.471	.464	.545
	14	.356	.428	.475	.511	.552	.609	.589	.563	.589	.627	.649	.654
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	.413	.478	.539	.600	.611	.614	.616	.604	.595	.620	.658	.663
	17	.423	.453	.519	.580	.607	.568	.628	.646	.656	.704	.672	.611
	18	.322	.353	.322	.309	.311	.393	.430	.425	.423	.436	.449	.509
	19	.284	.331	.375	.432	.477	.527	.550	.598	.601	.658	.678	.668
	20	.476	.576	.618	.637	.670	.686	.710	.658	.633	.592	.580	.568
	21	.558	.580	.584	.574	.460	.387	.450	.199	.200	.212	.216	.265
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	.190	.205	.222	.250	.284	.360	.309	.278	.293	.284	.269	.236
	24	.247	.265	.273	.290	.291	.304	.300	.307	.318	.360	.282	.310
	25	.213	.167	.254	.277	.296	.309	.302	.260	.285	.270	.273	.276
	26	.208	.217	.224	.247	.225	.214	.200	.185	.192	.211	.190	.198
	27	.143	.158	.166	.158	.162	.180	.165	.163	.168	.168	.167	.170
	28	.164	.169	.158	.150	.200	.210	.225	.247	.244	.230	.221	.230
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	.221	.235	.268	.285	.314	.298	.267	.259	.257	.250	.230	.207
	Hourly Means	.356	.387	.412	.430	.432	.451	.457	.454	.450	.455	.450	.452

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
—	—	—	—	—	—	—	—	—	—	—	—	—
54	59	63	65	64	65	70	79	79	83	85	85	79
51	94	62	72	77	77	81	81	83	85	89	86	71
45	51	52	57	68	68	76	80	81	81	84	87	64
70	80	81	87	96	92	93	93	93	96	98	96	79
74	81	83	88	92	91	93	95	93	96	96	96	86
82	87	91	92	93	94	—	—	—	—	—	—	86
—	—	—	—	—	—	92	93	94	92	95	96	86
87	95	88	91	89	90	90	92	92	92	95	95	90
76	93	95	96	96	96	97	97	97	97	97	99	91
88	93	90	88	90	90	90	88	88	89	87	88	89
78	91	94	93	93	92	87	84	83	85	90	94	84
76	84	89	92	90	90	96	96	95	96	96	95	82
71	89	92	89	92	94	—	—	—	—	—	—	86
—	—	—	—	—	—	97	95	92	96	96	97	86
80	85	80	89	88	82	85	87	84	83	91	91	82
74	82	89	90	91	87	79	65	53	61	68	76	77
81	86	86	81	83	87	90	94	93	94	93	94	76
82	86	87	88	93	95	93	96	96	96	96	98	86
84	72	78	87	91	93	96	95	95	92	89	88	83
86	69	62	69	67	72	—	—	—	—	—	—	83
—	—	—	—	—	—	80	69	72	70	73	82	66
62	69	67	70	74	79	83	90	83	84	83	84	74
68	76	72	67	71	82	87	90	90	92	93	96	78
83	85	87	83	82	79	76	75	82	83	84	87	81
63	71	69	65	62	71	68	81	76	74	81	88	68
65	74	72	73	76	76	76	78	79	79	77	78	68
72	71	72	76	75	80	—	—	—	—	—	—	74
—	—	—	—	—	—	81	83	87	87	85	88	74
56	61	65	68	71	73	75	78	76	75	74	72	68
72	79	79	81	83	84	85	86	85	86	88	89	79
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
—	—	—	—	—	—	—	—	—	—	—	—	—
·488	·436	·409	·383	·357	·356	·363	·370	·369	·368	·371	·371	·524
·422	·637	·363	·368	·359	·349	·349	·345	·351	·354	·317	·333	·395
·295	·274	·253	·253	·282	·280	·311	·317	·323	·333	·333	·339	·328
·386	·388	·360	·394	·408	·395	·407	·400	·383	·364	·359	·361	·380
·483	·472	·467	·472	·454	·421	·406	·405	·369	·405	·382	·365	·463
·490	·487	·453	·424	·423	·418	—	—	—	—	—	—	491
—	—	—	—	—	—	·527	·530	·536	·513	·501	·485	—
·585	·535	·503	·486	·472	·463	·461	·466	·468	·464	·449	·466	·537
·539	·521	·484	·475	·507	·495	·537	·537	·537	·537	·531	·530	·544
·556	·546	·527	·522	·512	·498	·489	·472	·466	·450	·445	·442	·534
·530	·493	·469	·442	·454	·435	·415	·393	·366	·356	·338	·329	·468
·453	·434	·393	·384	·369	·355	·368	·377	·347	·354	·351	·341	·412
·552	·563	·552	·524	·534	·510	—	—	—	—	—	—	—
—	—	—	—	—	—	·491	·476	·452	·429	·418	·411	·521
·601	·540	·504	·487	·457	·403	·411	·421	·397	·390	·400	·394	·517
·608	·615	·558	·525	·522	·566	·530	·424	·308	·322	·340	·333	·530
·438	·409	·384	·387	·362	·353	·344	·336	·309	·307	·299	·294	·371
·633	·633	·614	·572	·546	·520	·513	·492	·478	·481	·478	·482	·526
·592	·538	·543	·586	·582	·547	·534	·533	·540	·570	·559	·556	·587
·355	·262	·215	·224	·206	·211	—	—	—	—	—	—	—
—	—	—	—	—	—	·204	·188	·190	·186	·193	·200	·305
·229	·243	·231	·241	·251	·249	·240	·250	·243	·243	·235	·242	·253
·303	·288	·245	·232	·230	·227	·209	·217	·219	·223	204	·206	·265
·275	·275	·266	·255	·249	·234	·224	·216	·231	·228	·226	·218	·253
·195	·197	·178	·167	·164	·181	·175	·164	·150	·143	·139	·146	·188
·174	·166	·153	·157	·166	·172	·170	·180	·172	·172	·162	·160	·166
·228	·220	·222	·228	·214	·220	—	—	—	—	—	—	—
—	—	—	—	—	—	·208	·208	·208	206	·212	·212	·210
·188	·184	·182	·176	·165	·161	·162	·150	·146	·142	·144	·139	·210
·424	·414	·381	·375	·362	·361	·362	·355	·342	·342	·335	·334	·399

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	OCTOBER.	1	72	72	72	73	66	53	60	60	57	59	62	66	
		2	97	96	92	88	86	83	82	87	83	83	79	88	
		3	96	95	97	88	85	83	77	73	70	76	80	87	
		4	95	94	88	86	86	71	76	70	84	72	76	86	
		5	85	78	75	73	76	73	79	79	69	67	64	67	
		6	—	—	—	—	—	—	—	—	—	—	—	—	—
		7	91	83	76	72	67	66	64	65	67	64	66	66	71
		8	100	95	64	84	84	82	71	60	55	59	61	61	64
		9	80	80	81	76	66	61	62	70	67	34	36	36	67
		10	90	89	90	76	81	73	66	45	40	42	41	50	50
		11	87	88	84	77	71	68	71	68	68	68	69	67	69
		12	88	88	85	82	75	71	66	65	65	61	64	67	72
		13	—	—	—	—	—	—	—	—	—	—	—	—	—
		14	93	95	96	96	96	92	95	95	95	95	95	93	95
		15	95	94	92	86	86	86	82	81	76	74	74	74	81
		16	93	92	88	82	73	71	68	68	61	77	79	79	70
		17	91	90	93	93	93	93	93	92	93	93	93	93	92
		18	83	85	83	84	84	85	88	88	93	92	92	93	93
		19	71	75	66	67	63	57	50	49	45	63	84	84	72
		20	—	—	—	—	—	—	—	—	—	—	—	—	—
		21	84	78	73	76	89	64	64	66	73	69	70	70	72
		22	95	95	94	94	85	80	79	78	76	74	75	75	83
		23	96	98	97	98	98	97	95	92	82	79	78	78	80
		24	96	98	97	91	85	82	78	76	72	72	72	72	81
		25	92	93	90	87	85	81	78	80	78	78	80	80	84
		26	87	79	81	84	73	73	73	74	76	79	83	83	89
		27	—	—	—	—	—	—	—	—	—	—	—	—	—
		28	96	95	94	95	96	97	96	100	100	100	99	99	90
		29	88	90	81	91	95	86	84	90	91	90	88	88	91
		30	85	84	81	82	82	79	74	70	70	72	70	70	74
		31	94	93	95	87	90	80	65	74	80	76	74	74	78
		Hourly Means		90	89	85	84	82	77	75	75	73	73	74	78
Tension of the Vapour.	OCTOBER.	1	In. .140	In. .156	In. .186	In. .224	In. .234	In. .206	In. .232	In. .247	In. .241	In. .247	In. .261	In. .255	
		2	.249	.277	.233	.371	.384	.378	.398	.392	.419	.419	.404	.419	
		3	.277	.275	.339	.352	.362	.391	.382	.368	.369	.378	.393	.377	
		4	.270	.299	.315	.335	.343	.321	.378	.322	.325	.315	.340	.346	
		5	.282	.272	.264	.260	.271	.274	.285	.304	.262	.261	.247	.253	
		6	—	—	—	—	—	—	—	—	—	—	—	—	
		7	.171	.171	.183	.188	.191	.193	.190	.191	.198	.210	.224	.217	
		8	.166	.165	.156	.235	.266	.320	.338	.305	.298	.322	.317	.307	
		9	.295	.307	.320	.338	.342	.337	.381	.392	.407	.244	.253	.353	
		10	.381	.382	.373	.339	.326	.278	.253	.200	.190	.198	.189	.211	
		11	.189	.198	.213	.213	.225	.230	.256	.268	.269	.270	.261	.271	
		12	.168	.174	.198	.231	.243	.246	.245	.249	.240	.242	.248	.254	
		13	—	—	—	—	—	—	—	—	—	—	—	—	
		14	.277	.292	.328	.345	.357	.347	.356	.346	.343	.340	.336	.333	
		15	.252	.260	.276	.294	.309	.321	.320	.319	.302	.286	.282	.290	
		16	.203	.207	.212	.219	.214	.220	.229	.238	.223	.264	.269	.224	
		17	.235	.233	.245	.252	.275	.286	.282	.275	.275	.273	.273	.265	
		18	.204	.205	.204	.212	.224	.235	.241	.238	.249	.242	.245	.249	
		19	.181	.190	.166	.174	.176	.166	.142	.139	.128	.156	.181	.160	
		20	—	—	—	—	—	—	—	—	—	—	—	—	
		21	.184	.181	.185	.205	.260	.205	.203	.205	.224	.211	.216	.217	
		22	.240	.252	.268	.294	.294	.279	.292	.300	.290	.295	.277	.256	
		23	.200	.209	.245	.267	.283	.298	.309	.314	.340	.313	.296	.266	
		24	.206	.223	.277	.292	.299	.306	.315	.329	.319	.311	.305	.295	
		25	.297	.306	.340	.352	.362	.374	.388	.394	.385	.388	.396	.363	
		26	.204	.194	.219	.243	.229	.239	.244	.247	.247	.249	.253	.259	
		27	—	—	—	—	—	—	—	—	—	—	—	—	
		28	.144	.142	.144	.146	.149	.152	.150	.160	.155	.156	.154	.141	
		29	.138	.141	.131	.151	.155	.144	.145	.152	.149	.149	.142	.143	
		30	.138	.138	.138	.146	.150	.153	.154	.147	.147	.153	.145	.156	
		31	.104	.097	.109	.130	.154	.152	.141	.179	.205	.205	.200	.177	
		Hourly Means		.215	.220	.232	.252	.262	.261	.268	.267	.267	.263	.263	.261

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
75	52	88	90	89	89	92	93	95	95	96	96	76
91	85	86	83	86	91	91	—	92	96	94	95	88
81	78	77	83	89	89	92	90	92	93	93	97	86
87	88	88	88	84	83	81	83	90	88	87	88	84
72	76	83	84	87	85	—	—	—	—	—	—	78
—	—	—	—	—	—	79	81	85	83	92	91	—
82	87	87	95	94	92	94	94	95	93	97	95	82
65	61	59	58	60	60	61	64	65	70	74	77	69
78	81	84	84	83	86	91	93	91	86	84	92	76
59	63	73	74	77	80	87	88	89	76	87	86	72
74	68	73	76	79	87	82	86	83	81	89	89	77
81	87	89	84	84	88	—	—	—	—	—	—	78
—	—	—	—	—	—	64	71	80	81	86	88	—
96	98	95	96	95	95	96	95	93	94	95	97	95
75	76	80	86	84	85	84	85	87	91	91	90	84
76	76	80	85	88	90	90	88	88	88	93	99	82
95	95	94	95	93	95	93	90	92	88	87	88	92
97	97	97	98	97	97	89	67	68	64	71	69	86
72	75	75	80	88	83	—	—	—	—	—	—	71
—	—	—	—	—	—	74	63	69	78	89	89	—
78	84	88	85	93	94	95	96	89	96	96	98	82
88	93	97	96	98	96	96	97	97	96	96	98	90
89	85	86	89	92	97	96	97	96	96	98	96	92
80	93	89	92	90	92	93	93	93	93	93	92	87
63	68	71	72	74	75	82	93	87	88	82	82	81
95	89	89	89	93	94	—	—	—	—	—	—	84
—	—	—	—	—	—	81	79	79	78	94	96	—
88	81	85	85	88	86	84	85	91	85	85	85	91
94	91	89	85	88	95	90	92	91	91	85	84	89
81	81	83	87	85	95	93	91	87	88	93	92	82
88	94	95	95	96	93	—	94	91	95	88	94	87
81	82	84	86	87	89	87	86	87	87	89	90	83
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.233	.163	.214	.224	.218	.214	.212	.220	.219	.228	.228	.236	.218
.415	.390	.397	.394	.403	.415	.412	—	.356	.351	.333	.300	.370
.360	.293	.281	.286	.278	.288	.296	.284	.273	.268	.268	.269	.221
.339	.332	.319	.307	.290	.279	.269	.269	.272	.256	.267	.280	.308
.259	.262	.264	.269	.263	.268	—	—	—	—	—	—	.245
—	—	—	—	—	—	.185	.187	.181	.175	.168	.171	—
.200	.181	.181	.175	.170	.161	.165	.166	.165	.162	.163	.154	.182
.297	.266	.259	.259	.264	.263	.263	.269	.271	.274	.287	.291	.269
.311	.306	.344	.300	.258	.253	.262	.284	.281	.307	.322	.384	.316
.219	.215	.213	.213	.217	.220	.213	.209	.206	.180	.194	.187	.242
.210	.185	.181	.184	.185	.179	.177	.174	.164	.161	.167	.168	.208
.231	.233	.257	.276	.269	.247	—	—	—	—	—	—	.233
—	—	—	—	—	—	.213	.236	.246	.244	.243	.258	—
.325	.326	.313	.312	.311	.309	.314	.307	.302	.288	.277	.269	.319
.248	.236	.236	.237	.229	.221	.212	.208	.203	.208	.203	.200	.256
.238	.229	.224	.217	.226	.228	.222	.220	.214	.219	.233	.199	.225
.261	.251	.242	.249	.246	.245	.240	.233	.234	.226	.216	.217	.251
.271	.285	.311	.346	.356	.356	.376	.238	.227	.189	.196	.183	.253
.153	.154	.153	.157	.165	.151	—	—	—	—	—	—	.162
—	—	—	—	—	—	.119	.139	.155	.177	.203	.197	—
.222	.222	.216	.230	.219	.203	.200	.193	.205	.228	.229	.236	.212
.246	.230	.218	.208	.212	.201	.199	.212	.208	.214	.204	.216	.246
.252	.253	.278	.280	.264	.249	.221	.215	.200	.202	.203	.206	.257
.292	.298	.270	.283	.282	.264	.299	.296	.306	.295	.296	.292	.290
.273	.261	.249	.233	.225	.210	.200	.191	.202	.216	.212	.217	.293
.264	.251	.252	.254	.225	.214	—	—	—	—	—	—	.215
—	—	—	—	—	—	.161	.151	.144	.135	.145	.145	—
.137	.131	.135	.136	.138	.138	.135	.136	.141	.135	.136	.136	.143
.144	.141	.140	.135	.142	.150	.145	.150	.151	.151	.140	.135	.144
.163	.165	.166	.157	.140	.134	.127	.126	.127	.122	.109	.098	.142
.158	.156	.150	.149	.146	.138	—	.136	.131	.131	.128	.134	.142
.249	.238	.239	.240	.235	.230	.225	.210	.214	.213	.214	.214	.254

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	NOVEMBER.	1	94	96	95	78	88	88	82	83	84	84	84	86
		2	95	95	95	88	88	86	85	82	78	79	84	86
		3	—	—	—	—	—	—	—	—	—	—	—	—
		4	88	91	90	92	91	84	84	84	81	88	90	93
		5	94	93	93	86	82	80	75	54	55	57	61	70
		6	91	93	85	72	56	53	47	47	51	53	54	64
		7	90	95	93	88	81	77	76	84	83	86	85	89
		8	86	90	83	74	72	71	68	69	72	73	79	93
		9	96	96	93	87	78	86	87	85	82	75	76	84
		10	—	—	—	—	—	—	—	—	—	—	—	—
		11	97	97	98	98	98	98	96	95	97	97	97	97
		12	95	97	97	96	95	96	94	95	96	96	95	95
		13	78	83	74	64	64	64	59	55	59	64	59	63
		14	81	84	80	73	68	63	61	65	72	82	93	93
		15	81	85	83	71	76	71	69	68	66	68	74	84
		16	91	95	95	91	84	79	79	76	75	79	84	92
		17	—	—	—	—	—	—	—	—	—	—	—	—
		18	73	79	75	79	74	72	72	75	84	73	79	76
		19	76	83	88	72	72	69	58	66	66	74	86	94
		20	90	90	84	79	75	79	78	78	75	70	68	78
		21	95	97	96	91	90	82	80	74	79	76	81	93
		22	95	92	90	84	77	82	85	82	79	82	92	88
		23	75	75	76	85	90	91	83	72	62	57	62	70
		24	—	—	—	—	—	—	—	—	—	—	—	—
		25	76	81	76	73	69	64	67	70	70	71	74	81
		26	94	97	98	95	93	98	100	93	96	98	100	95
		27	78	80	88	88	85	85	84	90	77	72	75	82
		28	96	94	100	97	96	97	96	93	87	87	85	73
		29	94	93	91	94	93	89	87	87	83	88	87	86
		30	93	93	96	98	96	94	93	92	95	95	95	96
		31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		88	90	89	84	82	81	79	77	77	78	81	85	
Tension of the Vapour.	NOVEMBER.	1	In. .133	In. .138	In. .155	In. .157	In. .227	In. .234	In. .241	In. .235	In. .230	In. .227	In. .224	In. .227
		2	.228	.218	.228	.240	.256	.260	.275	.277	.280	.281	.293	.258
		3	—	—	—	—	—	—	—	—	—	—	—	—
		4	.210	.210	.224	.232	.239	.234	.233	.237	.238	.256	.246	.249
		5	.198	.199	.218	.221	.232	.222	.234	.187	.187	.192	.190	.196
		6	.168	.163	.167	.168	.155	.155	.147	.158	.173	.184	.181	.177
		7	.224	.205	.211	.240	.254	.256	.269	.278	.271	.269	.261	.260
		8	.158	.150	.163	.160	.168	.177	.163	.169	.178	.179	.178	.193
		9	.163	.167	.168	.167	.157	.191	.202	.210	.216	.209	.205	.190
		10	—	—	—	—	—	—	—	—	—	—	—	—
		11	.235	.234	.237	.240	.244	.249	.247	.255	.262	.253	.251	.255
		12	.255	.261	.264	.269	.275	.291	.303	.304	.309	.307	.305	.294
		13	.168	.165	.148	.134	.133	.138	.131	.126	.133	.140	.129	.131
		14	.131	.138	.142	.141	.142	.138	.142	.158	.172	.200	.204	.198
		15	.164	.171	.168	.152	.181	.179	.185	.190	.185	.195	.207	.213
		16	.163	.178	.184	.200	.222	.234	.242	.249	.252	.237	.233	.218
		17	—	—	—	—	—	—	—	—	—	—	—	—
		18	.141	.151	.142	.142	.137	.138	.147	.153	.158	.131	.133	.121
		19	.116	.121	.138	.135	.144	.145	.138	.166	.171	.191	.219	.237
		20	.160	.170	.173	.178	.185	.187	.201	.213	.211	.206	.193	.185
		21	.150	.161	.175	.203	.231	.239	.229	.218	.224	.223	.211	.231
		22	.185	.210	.217	.219	.225	.223	.224	.214	.218	.221	.241	.230
		23	.193	.187	.185	.199	.218	.219	.210	.195	.177	.163	.159	.164
		24	—	—	—	—	—	—	—	—	—	—	—	—
		25	.081	.086	.086	.089	.089	.083	.093	.096	.101	.101	.101	.105
		26	.116	.131	.134	.139	.139	.146	.150	.150	.161	.165	.166	.160
		27	.087	.090	.098	.089	.086	.088	.090	.101	.085	.081	.076	.080
		28	.125	.112	.108	.105	.109	.117	.118	.119	.113	.111	.107	.088
		29	.119	.121	.126	.139	.152	.159	.162	.162	.156	.162	.157	.155
		30	.177	.180	.193	.202	.208	.211	.208	.203	.211	.207	.199	.195
		31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		.163	.166	.171	.175	.185	.189	.192	.193	.195	.196	.195	.193	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
92	96	98	98	93	97	95	92	88	95	95	97	91
92	93	92	95	95	96	—	—	—	—	—	—	89
—	—	—	—	—	—	92	77	89	90	89	90	91
93	92	92	90	93	95	95	93	93	94	95	95	78
74	67	71	77	78	83	89	78	89	89	86	89	75
76	82	87	90	89	89	93	89	83	82	82	86	83
90	89	92	75	73	75	73	88	75	76	83	77	87
95	95	96	95	95	95	95	96	95	96	98	98	—
93	96	95	95	96	96	—	—	—	—	—	—	91
—	—	—	—	—	—	96	97	96	97	96	97	97
97	97	97	97	98	97	97	97	97	96	97	96	93
96	97	93	90	92	85	85	93	87	89	93	84	74
69	74	76	80	81	89	87	88	86	87	88	86	80
74	78	87	91	79	86	86	89	89	95	91	71	83
81	87	89	90	92	93	95	94	95	95	95	93	—
92	95	95	93	94	95	—	—	—	—	—	—	90
—	—	—	—	—	—	97	99	100	100	99	76	80
86	85	84	87	89	92	92	87	87	79	74	73	80
97	82	72	75	78	78	78	89	87	89	88	91	80
81	68	65	68	82	87	84	82	98	90	93	96	81
88	87	92	96	93	93	95	95	95	96	95	95	90
88	88	85	78	75	84	84	89	89	92	88	74	85
69	86	89	74	89	77	—	—	—	—	—	—	76
—	—	—	—	—	—	81	76	76	67	67	71	77
85	72	78	80	69	83	83	82	82	82	85	94	88
95	95	84	80	71	79	69	70	75	77	77	78	85
100	86	85	91	83	77	77	88	91	93	100	91	92
87	90	84	90	91	90	93	95	96	94	94	93	89
87	86	87	87	87	91	89	85	91	92	91	92	—
96	98	97	95	96	98	—	—	—	—	—	—	94
—	—	—	—	—	—	92	95	89	90	90	88	—
87	87	87	87	87	88	88	89	89	89	90	87	85
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.214	.217	.219	.217	.211	.220	.215	.210	.209	.222	.231	.232	.210
.247	.226	.214	.219	.219	.222	—	—	—	—	—	—	.243
—	—	—	—	—	—	.246	.221	.237	.238	.227	.213	.226
.245	.247	.246	.241	.238	.207	.213	.211	.209	.190	.190	.184	.190
.187	.166	.166	.172	.169	.180	.191	.160	.173	.173	.172	.172	.173
.170	.161	.157	.155	.156	.154	.171	.191	.204	.201	.210	.227	.231
.258	.252	.247	.220	.217	.216	.212	.239	.185	.174	.178	.157	.171
.190	.189	.195	.195	.194	.176	.162	.158	.155	.146	.147	.158	.194
.177	.164	.163	.162	.163	.162	—	—	—	—	—	—	.248
—	—	—	—	—	—	.244	.237	.234	.240	.236	.237	.256
.254	.255	.249	.238	.251	.250	.245	.249	.254	.249	.252	.249	.141
.296	.293	.287	.235	.230	.210	.199	.204	.189	.184	.191	.177	.157
.131	.134	.135	.142	.144	.152	.151	.148	.142	.142	.143	.139	.176
.153	.154	.153	.158	.148	.164	.166	.162	.159	.150	.144	.150	.215
.196	.192	.171	.169	.166	.163	.170	.164	.165	.161	.155	.159	.134
.209	.199	.206	.236	.240	.244	—	—	—	—	—	—	.165
—	—	—	—	—	—	.232	.218	.214	.205	.199	.152	.168
.132	.129	.128	.131	.133	.132	.131	.127	.128	.116	.115	.110	.196
.237	.192	.161	.162	.169	.172	.164	.156	.162	.162	.144	.161	.222
.166	.151	.146	.143	.151	.143	.143	.137	.158	.140	.141	.152	.156
.212	.199	.180	.173	.162	.166	.184	.192	.189	.187	.180	.185	.163
.230	.236	.231	.217	.213	.229	.231	.237	.230	.231	.218	.197	.196
.168	.194	.182	.140	.155	.129	—	—	—	—	—	—	.184
—	—	—	—	—	—	.101	.092	.091	.076	.073	.078	.156
.103	.081	.080	.082	.071	.085	.091	.091	.092	.095	.104	.112	.092
.158	.158	.143	.126	.111	.113	.096	.099	.107	.107	.103	.094	.132
.085	.074	.077	.085	.077	.071	.070	.080	.085	.090	.103	.116	.086
.099	.101	.095	.101	.104	.103	.106	.109	.111	.112	.113	.114	.108
.156	.155	.159	.153	.152	.164	.170	.167	.172	.174	.172	.176	.156
.191	.193	.188	.190	.186	.187	—	—	—	—	—	—	.184
—	—	—	—	—	—	.152	.154	.153	.146	.146	.142	—
.187	.181	.176	.172	.170	.170	.171	.170	.170	.166	.165	.163	.178



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	DECEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
		2	90	85	82	74	78	79	82	83	81	89	93	—
		3	90	94	95	89	86	78	70	68	77	82	82	80
		4	93	92	72	92	89	86	87	86	80	94	87	97
		5	87	89	86	86	89	87	86	83	79	82	81	86
		6	97	95	95	95	95	96	95	93	96	95	96	96
		7	98	98	99	100	82	71	70	75	78	80	77	79
		8	—	—	—	—	—	—	—	—	—	—	—	—
		9	87	88	82	79	76	73	74	72	63	61	64	70
		10	92	85	82	79	79	77	76	76	76	77	77	80
		11	81	81	81	79	83	79	77	74	74	74	78	79
		12	95	93	86	92	78	71	72	75	74	74	78	78
		13	80	79	93	96	96	95	94	93	92	93	95	96
		14	96	95	95	91	86	82	76	82	79	79	78	81
		15	—	—	—	—	—	—	—	—	—	—	—	—
		16	92	90	94	85	88	85	81	80	79	77	74	74
		17	82	80	80	80	74	81	79	75	77	79	74	79
		18	90	97	94	72	73	74	82	82	86	87	84	87
		19	90	90	94	89	89	93	89	88	87	87	85	90
		20	83	81	80	63	73	75	78	72	76	75	77	80
		21	85	84	77	84	84	85	85	96	93	93	91	93
		22	—	—	—	—	—	—	—	—	—	—	—	—
		23	86	81	84	82	85	85	81	84	84	84	83	85
		24	85	85	79	82	79	93	79	71	75	74	69	91
		25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
		26	84	85	80	80	82	83	78	79	76	74	77	87
		27	74	83	81	75	80	76	74	78	66	68	65	71
		28	86	89	85	73	78	79	73	70	72	72	76	79
		29	—	—	—	—	—	—	—	—	—	—	—	—
		30	78	75	80	80	66	66	65	64	71	71	61	63
		31	91	90	90	85	83	77	73	74	71	77	79	81
Hourly Means		88	87	86	83	82	81	79	79	78	80	79	83	
Tension of the Vapour.	DECEMBER.	1	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
		2	·145	·139	·132	·123	·132	·134	·142	·147	·157	·164	·160	·132
		3	·153	·145	·160	·156	·160	·155	·148	·148	·148	·162	·165	·173
		4	·173	·174	·152	·196	·197	·193	·197	·195	·180	·194	·174	·196
		5	·167	·171	·168	·167	·169	·167	·166	·164	·160	·165	·163	·171
		6	·185	·181	·182	·186	·185	·189	·186	·180	·182	·180	·177	·185
		7	·260	·264	·274	·289	·249	·214	·213	·212	·202	·187	·164	·165
		8	—	—	—	—	—	—	—	—	—	—	—	—
		9	·102	·105	·104	·106	·113	·124	·135	·141	·131	·128	·129	·127
		10	·149	·129	·122	·114	·115	·118	·118	·121	·120	·123	·121	·120
		11	·129	·130	·130	·130	·146	·143	·140	·142	·145	·144	·144	·147
		12	·122	·119	·130	·172	·157	·149	·154	·171	·174	·176	·166	·159
		13	·176	·172	·193	·196	·194	·197	·198	·198	·199	·196	·195	·189
		14	·163	·161	·162	·163	·166	·164	·155	·173	·168	·165	·160	·162
		15	—	—	—	—	—	—	—	—	—	—	—	—
		16	·117	·113	·116	·101	·104	·100	·097	·097	·094	·093	·088	·084
		17	·079	·077	·077	·082	·085	·097	·098	·101	·104	·106	·095	·096
		18	·047	·055	·061	·064	·075	·086	·104	·108	·119	·120	·115	·116
		19	·103	·105	·112	·111	·116	·124	·117	·115	·111	·107	·100	·103
		20	·061	·064	·066	·052	·072	·080	·094	·089	·094	·087	·087	·088
		21	·125	·127	·118	·131	·131	·135	·134	·154	·159	·163	·166	·168
		22	—	—	—	—	—	—	—	—	—	—	—	—
		23	·153	·140	·142	·137	·136	·136	·130	·128	·126	·121	·118	·118
		24	·126	·132	·124	·130	·131	·162	·143	·136	·149	·153	·145	·173
		25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
		26	·222	·226	·224	·226	·226	·233	·271	·271	·224	·205	·189	·192
		27	·095	·100	·093	·089	·100	·103	·106	·111	·102	·102	·097	·099
		28	·076	·078	·076	·075	·091	·107	·110	·113	·114	·114	·114	·116
		29	—	—	—	—	—	—	—	—	—	—	—	—
		30	·156	·155	·172	·180	·166	·159	·150	·140	·150	·151	·135	·137
		31	·156	·146	·145	·151	·153	·146	·138	·151	·148	·157	·160	·158
Hourly Means		·138	·136	·137	·141	·143	·145	·146	·148	·147	·147	·141	·143	

<sup>a</sup> Christmas Day.

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
—	—	—	—	—	—	—	—	—	—	—	—	—
91	81	81	83	81	84	82	85	86	92	95	96	85
88	89	83	85	81	88	79	95	98	97	98	95	87
96	96	96	97	96	94	95	91	87	86	86	86	90
86	90	86	93	91	93	93	93	93	93	93	94	88
100	98	98	96	96	98	98	96	98	97	97	98	96
78	82	85	86	75	68	—	—	—	—	—	—	—
—	—	—	—	—	—	79	83	86	89	81	83	83
79	81	83	81	83	79	78	77	82	81	85	85	78
83	83	84	83	84	84	86	86	79	89	90	90	82
78	81	79	83	90	86	88	93	91	81	92	94	82
77	69	82	87	83	84	87	86	80	86	89	81	82
96	96	98	95	97	97	96	95	96	95	91	100	94
89	88	88	79	82	83	—	—	—	—	—	—	—
—	—	—	—	—	—	94	94	95	85	95	93	87
80	76	78	81	82	85	83	91	88	86	88	86	83
81	84	95	80	80	80	82	73	69	31	81	90	78
74	74	74	78	79	87	92	92	89	92	81	90	84
87	81	83	81	80	80	82	100	89	90	92	82	87
81	75	83	83	83	88	88	81	90	92	83	83	80
93	95	89	98	100	100	—	—	—	—	—	—	—
—	—	—	—	—	—	95	89	94	100	99	91	91
82	84	83	88	77	78	82	82	86	88	88	83	84
87	73	73	78	86	83	—	—	—	—	—	—	—
—	—	—	—	—	—	84	76	76	78	87	86	80
72	66	69	72	72	70	76	74	80	82	89	75	78
76	74	70	81	83	84	91	91	94	90	90	88	79
97	91	86	83	79	87	—	—	—	—	—	—	—
—	—	—	—	—	—	95	82	76	80	81	87	82
80	73	71	74	76	79	84	88	85	87	90	90	76
82	78	74	85	89	96	93	91	72	71	63	65	80
85	82	83	84	84	85	87	87	86	85	88	88	84
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
—	—	—	—	—	—	—	—	—	—	—	—	—
·138	·127	·127	·136	·132	·141	·137	·128	·124	·136	·149	·152	·139
·171	·173	·175	·167	·163	·177	·163	·153	·153	·147	·163	·167	·161
·191	·191	·189	·189	·187	·183	·184	·176	·166	·166	·166	·167	·182
·172	·176	·172	·182	·172	·173	·173	·173	·176	·176	·176	·177	·171
·190	·199	·202	·206	·209	·219	·230	·226	·240	·242	·245	·253	·202
·164	·168	·169	·171	·119	·095	—	—	—	—	—	—	—
—	—	—	—	—	—	·113	·118	·112	·112	·101	·100	·176
·122	·126	·120	·117	·121	·120	·127	·127	·133	·131	·133	·138	·123
·121	·119	·118	·117	·116	·120	·126	·127	·119	·136	·139	·140	·124
·142	·147	·146	·144	·148	·158	·144	·124	·124	·106	·116	·117	·137
·156	·147	·170	·179	·174	·177	·183	·183	·170	·181	·187	·185	·164
·187	·182	·184	·181	·183	·183	·179	·175	·177	·170	·157	·173	·185
·170	·165	·161	·147	·150	·151	—	—	—	—	—	—	—
—	—	—	—	—	—	·120	·117	·117	·116	·123	·120	·150
·088	·082	·083	·085	·087	·089	·088	·087	·083	·081	·086	·081	·093
·101	·101	·108	·085	·082	·082	·082	·068	·060	·022	·046	·044	·082
·097	·094	·094	·098	·096	·099	·099	·091	·094	·101	·088	·099	·093
·097	·085	·087	·089	·088	·082	·071	·070	·056	·054	·058	·062	·093
·088	·081	·087	·091	·091	·094	·093	·085	·107	·113	·116	·117	·087
·168	·156	·127	·132	·133	·154	—	—	—	—	—	—	—
—	—	—	—	—	—	·187	·173	·176	·182	·174	·163	·152
·114	·113	·112	·116	·096	·098	·106	·106	·118	·125	·128	·124	·123
·157	·153	·153	·159	·165	·153	—	—	—	—	—	—	—
—	—	—	—	—	—	·217	·205	·210	·213	·231	·152	·161
·147	·124	·119	·120	·114	·110	·116	·107	·113	·107	·117	·102	·171
·100	·090	·089	·090	·090	·088	·089	·080	·080	·076	·076	·076	·093
·140	·131	·120	·121	·120	·132	—	—	—	—	—	—	—
—	—	—	—	—	—	·161	·140	·136	·144	·148	·152	·118
·161	·141	·132	·138	·136	·141	·152	·155	·151	·152	·155	·154	·151
·159	·158	·154	·168	·171	·172	·150	·154	·147	·154	·147	·157	·154
·142	·137	·136	·137	·134	·136	·140	·134	·134	·134	·137	·135	·139



**TORONTO, 1844.**

---

**DIRECTION AND FORCE OF THE WIND.**



DIRECTION AND FORCE OF THE WIND.

6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	lbs. 0·0	—	lbs. 0·0	—	lbs. 0·0	—	lbs. 0·0	—	lbs. 0·0	—	lbs. 0·0	1
E. by N.	3·0	N. E. by E.	4·0	E. by N.	4·0	E.	4·0	E.	2·5	E.	2·0	2
S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·2	S. S. W.	0·2	3
N. W.	3·5	N. W. by N.	5·0	N. W. by N.	5·0	N. W. by N.	3·0	N. W. by N.	2·0	N. W. by N.	2·0	4
N. W. by N.	0·2	N. W. by N.	0·5	N. W. by N.	0·5	N. W. by N.	0·5	N. W. by N.	0·2	—	0·0	5
—	0·0	N. W. by W.	0·2	S. W.	0·5	S. W.	0·5	S. W. by W.	0·0	—	0·0	6
—	—	—	—	—	—	—	—	—	—	—	—	7
—	0·2	N. W. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	8
E. N. E.	1·0	E. S. E.	1·0	E. S. E.	1·0	E. S. E.	1·0	S. E.	1·0	S. E. by E.	0·5	9
W.	0·2	W.	0·2	W.	0·2	W. by N.	0·2	N. N. W.	0·5	N. N. W.	0·5	10
—	0·0	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·5	E. by S.	0·5	11
S.	0·2	S.	0·2	S.	0·2	S.	0·2	S.	0·2	—	0·0	12
N. by W.	5·0	N.	5·0	N. by W.	3·0	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	13
—	—	—	—	—	—	—	—	—	—	—	—	14
E. N. E.	5·0	E.	4·5	E.	3·5	E.	2·5	E.	2·5	E.	3·0	15
—	0·0	S. S. E.	0·2	S. S. E.	0·2	S. S. E.	0·2	—	0·0	S. S. E.	0·2	16
—	0·0	N. W. by W.	0·2	N. W. by W.	0·5	N. W. by W.	0·5	W. N. W.	0·5	W. N. W.	0·5	17
N. W.	3·5	W. N. W.	4·0	W. N. W.	3·0	W. N. W.	2·0	N. W. by W.	2·5	N. W.	1·0	18
N.	0·2	N.	0·2	N.	0·2	—	0·0	—	0·0	—	0·0	19
N. by E.	0·2	S. E. by E.	0·2	S. E. by E.	0·5	S. E. by E.	0·2	S. E. by E.	0·2	S. E. by E.	0·2	20
—	—	—	—	—	—	—	—	—	—	—	—	21
—	0·0	—	0·0	N. E.	0·2	N. E.	0·2	S. E.	0·2	S. E.	0·5	22
S. by W.	2·5	S. by E.	3·0	W. S. W.	2·0	W. S. W.	3·0	S. W. by S.	0·2	S. W. by S.	0·2	23
N. W. by W.	2·5	W. by N.	3·0	N. W.	2·5	N. W. by N.	1·0	N. W. by N.	2·0	N. W.	1·0	24
N.	2·0	N. by W.	2·0	N. by W.	1·0	N. by W.	0·5	N. by W.	1·0	N. by W.	2·0	25
N. by W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	1·0	26
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	27
—	—	—	—	—	—	—	—	—	—	—	—	28
—	0·0	N. E. by N.	0·2	N. E. by N.	0·2	—	0·0	—	0·0	—	0·0	29
—	0·0	—	0·0	—	0·0	N. E. by N.	0·2	N. E. by N.	0·2	N. E. by N.	0·2	30
N.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	31

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		Mean Göttingen Time.
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	1
E.	0·2	E.	0·2	E.	0·5	—	0·0	—	0·0	—	0·0	2
S. W. by W.	0·5	S. W. by W.	0·5	W. S. W.	0·5	W. S. W.	0·5	W. N. W.	0·5	W. N. W.	0·5	3
N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	4
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	5
—	—	—	—	—	—	—	—	—	—	—	—	6
W.	0·5	W.	0·2	—	0·0	N. W. by W.	1·0	N. W. by W.	0·5	N. W. by W.	1·0	7
N. W. by W.	0·2	N. W. by W.	0·2	—	0·0	—	0·0	N. W. by W.	0·2	—	0·0	8
S. W.	0·2	S. W.	0·5	S. W.	0·5	W. by S.	0·5	W.	1·0	W.	1·0	9
N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·2	—	0·0	10
E. by S.	0·5	E. by S.	0·2	E. by S.	0·5	E. by S.	0·5	E. S. E.	0·5	—	0·0	11
E. S. E.	0·2	E. S. E.	0·2	E. S. E.	0·2	S. S. W.	0·2	W. S. W.	1·0	W. by N.	6·5	12
—	—	—	—	—	—	—	—	—	—	—	—	13
E.	0·2	E.	0·2	—	0·0	E.	0·2	E.	0·2	—	0·0	14
E. S. E.	0·5	E. S. E.	0·5	E. S. E.	0·5	E. by S.	0·5	E.	0·5	E.	0·5	15
S. W. by W.	0·2	S. W.	0·2	S. W.	0·2	—	0·0	—	0·0	—	0·0	16
W. by N.	2·5	W. by N.	2·0	W. N. W.	2·0	W. N. W.	2·0	W. N. W.	2·0	W. N. W.	1·0	17
N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·2	18
—	0·0	N.	0·5	N.	0·5	N.	0·5	N.	0·2	N.	0·2	19
—	—	—	—	—	—	—	—	—	—	—	—	20
—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	21
E. S. E.	2·5	E. S. E.	2·5	E. by S.	2·0	E. by S.	0·5	E. by S.	0·5	—	0·0	22
S. W. by W.	2·0	W. S. W.	3·0	S. W. by S.	2·5	S. W. by S.	0·5	S. W. by S.	0·2	S. W. by S.	0·5	23
N. N. W.	2·0	N. N. W.	2·0	N. N. W.	1·0	N. N. W.	1·0	N. N. W.	1·0	N.	0·2	24
N. N. W.	2·5	N. N. W.	3·0	N. N. W.	3·5	N. N. W.	2·5	N.	2·0	N. by E.	0·2	25
N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	0·2	N. N. W.	0·2	—	0·0	26
—	—	—	—	—	—	—	—	—	—	—	—	27
—	—	—	0·0	—	0·0	—	0·0	—	0·0	N. E. by N.	0·2	28
—	0·0	—	0·0	—	0·0	—	0·0	N. E. by N.	0·2	N. E. by N.	0·2	29
N. N. W.	0·5	N. N. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	30
N. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	31

JANUARY.

JANUARY.









DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
E.	0.2	E.	0.2	E.	0.2	E. by S.	0.2	—	0.0	—	0.0	1
—	0.0	—	0.0	—	0.0	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	2
N. N. W.	2.5	N. N. W.	1.0	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	3
S. W.	0.2	S. W.	0.2	S. S. W.	0.2	S.	0.5	S.	0.5	S.	0.2	4
E. S. E.	0.2	E. S. E.	0.2	S. E. by E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	5
E. S. E.	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.2	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	8
—	—	—	—	—	—	—	—	—	—	—	—	9
—	0.0	S. E. by S.	0.2	S. E.	0.2	S. E.	0.5	S. E.	0.5	N. E.	0.2	10
—	0.0	S. E.	0.2	S. E.	0.2	S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	11
N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. by W.	0.5	N.	1.0	E. S. E.	0.2	12
E. S. E.	0.2	E. S. E.	0.5	E. S. E.	0.5	S. E. by E.	0.5	S. E. by E.	0.2	S. E. by E.	0.2	13
E.	5.0	E.	3.0	E.	2.0	E.	2.0	E.	1.5	E.	1.0	14
N. E.	0.2	N. E.	0.2	N. N. E.	0.2	N. W.	0.2	N. N. W.	0.5	N. N. W.	0.5	15
—	—	—	—	—	—	—	—	—	—	—	—	16
N. W.	1.0	W. by N.	2.0	W. by N.	2.5	W. by N.	3.0	W. by N.	3.0	W. by N.	3.0	17
W. S. W.	0.2	S. W.	0.5	S. W.	0.5	S. W.	1.0	S. S. W.	2.0	S. S. W.	2.0	18
E. by N.	2.5	E. by N.	2.5	E. by N.	2.0	N.	2.0	N.	2.5	N.	2.5	19
N. N. W.	0.2	S. S. W.	0.2	S. S. E.	0.2	S. S. E.	0.2	—	0.0	—	0.0	20
E.	0.5	E. by S.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	21
N.	1.0	N.	0.5	N.	0.2	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	22
—	—	—	—	—	—	—	—	—	—	—	—	23
N. N. W.	0.0	N. W. by N.	0.2	N. W. by N.	0.2	W. by S.	0.2	S.	0.2	S.	0.2	24
—	0.0	—	0.0	—	0.0	N. by E.	0.2	—	0.0	—	0.0	25
E. by S.	3.0	E. by S.	2.0	E. by S.	1.0	E. by S.	1.0	E. N. E.	1.0	E. by N.	1.0	26
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	27
N. E.	0.2	N. E.	0.2	E. S. E.	0.5	E. S. E.	0.5	E. S. E.	0.2	E. S. E.	0.2	28
N. by E.	3.0	N.	3.0	N.	3.0	N.	2.0	N. by E.	2.0	N. N. E.	2.0	29
—	—	—	—	—	—	—	—	—	—	—	—	30
—	—	—	—	—	—	—	—	—	—	—	—	31

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		Mean Göttingen Time.
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
S. by W.	0.2	—	0.0	S. W.	0.2	S. W.	0.5	S. W.	0.2	—	0.0	
—	—	—	—	—	—	—	—	—	—	—	—	2
N. N. E.	1.0	N. by E.	1.0	N.	2.0	N. by W.	2.0	N. by W.	2.0	N. by W.	1.0	3
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	5
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
N. W. by W.	0.5	N. W.	1.0	N. W.	0.5	N. W.	0.5	N. W.	1.0	N. N. W.	1.0	8
—	—	—	—	—	—	—	—	—	—	—	—	9
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12
—	0.0	—	0.0	—	0.0	—	0.0	N. by E.	0.5	N. by E.	0.5	13
E. by S.	1.0	E. by S.	1.0	E. by S.	2.0	E. by S.	2.0	E. by S.	3.0	E.	3.0	14
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
—	—	—	—	—	—	—	—	—	—	—	—	16
W. S. W.	5.0	W. S. W.	2.0	W.	2.0	W.	1.0	W.	2.5	W.	2.5	17
N. W.	0.5	N. W.	0.5	N. W.	0.5	N. W.	0.5	N. W.	0.5	—	0.0	18
S. S. W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
N.	2.0	N.	0.5	—	0.0	—	0.0	—	0.0	N.	0.2	20
—	0.0	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	21
N. W.	0.2	N. W.	2.0	N. W.	1.0	N. W.	0.5	N. W. by N.	1.0	N. N. W.	1.0	22
—	—	—	—	—	—	—	—	—	—	—	—	23
—	0.0	—	0.0	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	—	0.0	24
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	25
—	0.0	—	0.0	—	0.0	—	0.0	E. N. E.	3.0	N. E. by N.	3.5	26
E. by N.	1.0	E. by N.	1.0	E. by N.	1.0	E. by N.	1.0	E. N. E.	0.5	—	0.0	27
N. by W.	1.0	N. by W.	1.5	N. N. W.	0.5	N. N. W.	1.0	N. N. W.	1.5	N.	2.0	28
N. E.	2.5	N. E.	2.5	N. E.	2.0	N. E.	1.5	N. E.	2.5	N. E.	2.5	29
—	—	—	—	—	—	—	—	—	—	—	—	30
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	31

MARCH.

MARCH.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>b</sup> .		1 <sup>b</sup> .		2 <sup>b</sup> .		3 <sup>b</sup> .		4 <sup>b</sup> .		5 <sup>b</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
APRIL.	1	—	0·0	—	0·0	—	0·0	S. E.	0·0	S. E.	0·2	S. E.	0·2
	2	—	0·0	—	0·0	E.	0·2	E. by S.	0·5	E. S. E.	0·5	E. S. E.	0·5
	3	—	0·0	—	0·0	S. W. by W.	0·2	S. W. by W.	0·2	S. W.	0·2	S. W.	0·2
	4	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	E. by S.	0·5	E.	0·5	E.	0·5	E. by S.	1·0	E.	1·0	E.	0·5
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·2
	9	N.	0·2	N.	0·2	N. by E.	0·2	N. by E.	0·5	N. by E.	0·5	N. N. E.	0·2
	10	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	11	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	12	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	E.	0·2
	13	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	16	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	N. W.	0·2
	17	N. N. W.	1·0	N. by E.	1·5	N. by E.	1·0	N. by E.	1·5	N. by E.	1·0	N. N. W.	0·5
	18	N.	0·2	N.	0·2	—	0·0	E. N. E.	0·5	E. by S.	0·5	E. by S.	0·5
	19	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	20	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0·0	—	0·0	—	0·0	—	0·0	E.	0·2	E. by S.	0·2
	23	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	E.	0·2
	24	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	25	N. N. W.	0·2	—	0·0	—	0·0	—	0·0	S. W.	0·2	S. S. W.	0·2
	26	—	0·0	—	0·0	—	0·0	—	0·0	N. E.	0·5	N. E.	0·5
	27	—	0·0	—	0·0	E. N. E.	0·5	E. N. E.	0·5	E.	0·5	E. by S.	0·5
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. S. E.	0·2
	30	—	0·0	—	0·0	—	0·0	—	0·0	S. by E.	0·2	S. E.	0·2
APRIL.	12 <sup>b</sup> .		13 <sup>b</sup> .		14 <sup>b</sup> .		15 <sup>b</sup> .		16 <sup>b</sup> .		17 <sup>b</sup> .		
	1	E. by S.	0·2	E.	0·2	E.	0·2	E.	0·2	E.	0·2	—	0·0
	2	E.	0·5	E.	0·5	E. by S.	0·5	—	0·0	—	0·0	—	0·0
	3	W. N. W.	0·2	W. N. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	4	N.	1·0	N.	1·0	N.	0·5	—	0·0	—	0·0	N.	0·5
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	E. by N.	1·0	E. by N.	1·0	E.	1·0	E.	1·0	E.	1·0	E. by N.	1·0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	N. by E.	0·5	N. by E.	0·5	N. by E.	1·0	N. by E.	0·2	N. by E.	0·2	—	0·0
	9	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	10	S.	0·2	S.	0·2	S.	0·2	—	0·0	—	0·0	—	0·0
	11	S. S. E.	0·2	E. S. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	12	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	13	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	N. E.	0·2	N. E.	0·2	—	0·0	N. E.	0·2	N. E.	0·2	N. E.	0·2
	16	W. N. W.	0·2	W. N. W.	0·2	—	0·0	—	0·0	—	0·0	N. N. W.	1·5
	17	N. by E.	1·0	N. N. E.	0·5	N. N. E.	0·5	N. N. E.	0·5	N. N. E.	0·5	N. N. E.	0·5
	18	E. S. E.	0·2	E. S. E.	0·2	—	0·0	—	0·0	F. S. E.	0·2	E. S. E.	0·2
	19	E. S. E.	0·2	E. S. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	20	E. S. E.	0·5	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0·0	E. by N.	0·2	E.	1·0	E.	2·0	E. by S.	3·0	E. by S.	3·0
	23	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	24	N.	1·0	N.	2·0	N. W.	2·0	N. W.	2·0	N. N. W.	1·0	N. N. W.	1·0
	25	S.	0·2	—	0·0	S.	0·2	S.	0·2	—	0·0	—	0·0
	26	N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	—	0·0	—	0·0
	27	E. S. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
30	E. by S.	0·2	E. by S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	

DIRECTION AND FORCE OF THE WIND.												
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
S. E.	0.2	S. E.	0.5	S. E.	0.5	S. E.	0.2	S. E.	0.2	E. by S.	0.2	1
E. S. E.	0.5	E. by S.	0.5	E. S. E.	0.5	E. S. E.	0.5	E. by S.	0.5	E. by S.	0.5	2
S. W. by S.	0.2	S. W. by S.	0.5	S. W. by S.	0.2	S. W. by S.	0.2	S. S. W.	0.2	W. N. W.	0.2	3
S. W.	0.2	S. W.	0.2	S. W.	0.2	N. W.	0.5	N.	1.0	N.	1.0	4
—	—	—	—	—	—	—	—	—	—	—	—	5
E. by N.	0.5	E.	0.5	E.	0.5	E.	0.5	E.	0.5	E. by N.	1.0	6
—	—	—	—	—	—	—	—	—	—	—	—	7
S.	0.2	—	0.0	—	0.0	S.	0.2	S.	0.2	S.	0.2	8
—	0.0	S. S. E.	0.2	S. S. E.	0.2	S. E. by S.	0.2	—	0.0	—	0.0	9
—	0.0	—	0.0	S.	0.2	S.	0.2	S.	0.2	S.	0.2	10
—	0.0	—	0.0	—	0.0	—	0.0	S. S. E.	0.2	S. S. E.	0.2	11
E.	0.2	E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	12
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13
—	—	—	—	—	—	—	—	—	—	—	—	14
N. E.	0.2	N. E.	0.2	N. E.	0.2	—	0.0	—	0.0	N. E.	0.2	15
N. W.	0.2	W. N. W.	0.2	W.	0.2	W. N. W.	0.5	W. N. W.	0.2	W. N. W.	0.2	16
N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. by W.	0.5	N. N. E.	0.5	N.	1.5	17
E. S. E.	0.5	E. S. E.	0.5	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	18
—	0.0	—	0.0	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	19
E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.5	E. S. E.	0.5	E. S. E.	0.5	20
—	—	—	—	—	—	—	—	—	—	—	—	21
S. by E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.2	—	0.0	22
E.	0.2	E.	0.2	E.	0.2	E.	0.2	S. W.	1.0	—	0.0	23
E. by S.	0.2	W. S. W.	2.5	W. N. W.	2.0	N. N. W.	1.5	N.	2.5	N. N. W.	2.0	24
S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	25
N. E.	0.2	E. N. E.	0.2	N. by E.	0.2	N.	0.2	N. by E.	0.2	N. by E.	0.5	26
E.	5.0	E. N. E.	0.5	E. S. E.	0.5	E. S. E.	0.5	E. S. E.	0.5	E. S. E.	0.2	27
—	—	—	—	—	—	—	—	—	—	—	—	28
S. E. by S.	0.2	S. E. by S.	0.2	S. by E.	0.2	S. by E.	0.2	S.	0.2	—	0.0	29
S. E.	0.2	S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. by S.	0.2	30

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
E.	0.2	E.	0.2	—	0.0	E.	0.0	—	0.0	—	0.0	1
—	0.0	—	0.0	E.	0.2	—	0.2	—	0.0	—	0.0	2
—	0.0	W. N. W.	0.5	W. N. W.	0.5	W. by S.	0.2	W. by S.	0.2	—	0.0	3
—	—	—	—	—	—	—	—	—	—	—	—	4
E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.5	E. by S.	0.5	E. by S.	0.5	5
—	—	—	—	—	—	—	—	—	—	—	—	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2	8
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12
—	—	—	—	—	—	—	—	—	—	—	—	13
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14
N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
N. N. W.	1.5	N. N. W.	1.5	N. N. W.	2.5	N. N. W.	2.0	N. N. W.	0.5	N. N. W.	1.5	16
N. N. E.	0.2	N. by E.	0.2	N.	0.5	N.	0.5	N.	0.5	N.	0.5	17
E. S. E.	0.2	E. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	18
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
—	—	—	—	—	—	—	—	—	—	—	—	20
N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21
E. by S.	3.0	S. E. by E.	2.0	S. E. by E.	2.0	S. E. by E.	1.0	S. E. by E.	1.0	—	0.0	22
—	0.0	—	0.0	S.	0.2	S.	0.2	S.	0.2	—	0.0	23
N. N. W.	1.0	N. N. W.	1.0	—	0.0	—	0.0	—	0.0	N. N. W.	0.2	24
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	25
—	0.0	N. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	—	0.0	26
—	—	—	—	—	—	—	—	—	—	—	—	27
S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	29
S. S. E.	0.2	S. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	30

APRIL.

APRIL.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
MAY.	1	—	0·0	—	0·0	—	0·0	S. S. W.	0·2	S. S. W.	0·2	S. S. W.	0·2
	2	—	0·0	—	0·0	—	0·0	—	0·0	S. by W.	0·5	S. by W.	0·5
	3	—	0·0	—	0·0	—	0·0	E. S. E.	0·2	—	0·0	S. E.	0·2
	4	S. by W.	0·2	S. by W.	0·2	S. by W.	0·2	S. by W.	0·2	S.	0·2	S.	0·2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	N. E. by E.	0·2	E. N. E.	0·5	E. N. E.	0·2	E. N. E.	0·2	N. E. by E.	0·2	N. E. by E.	0·2
	7	W.	0·2	W.	0·2	N. W.	0·5	W. N. W.	1·0	N. W.	1·5	N. W.	1·0
	8	—	0·0	—	0·0	S. by W.	0·2	S. by W.	0·2	W. N. W.	0·5	W. by S.	0·5
	9	N. W. by W.	0·2	N. W. by W.	0·2	N. W. by N.	0·5	N. W.	1·0	N. W.	1·0	N. W. by N.	0·5
	10	—	0·0	E. N. E.	0·2	E. by S.	0·2	E. by S.	0·2	E. by S.	0·2	E. by S.	0·2
	11	—	0·0	S. by W.	0·2	S. by W.	0·2	S. by W.	0·2	S. by W.	0·2	S. by W.	0·2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	—	0·0	—	0·0	N. E. by E.	0·2	E. by N.	0·2	E. by S.	0·2	E. by S.	0·2
	14	N. N. E.	0·2	N.	0·2	N. N. W.	0·2	N. W. by N.	0·2	N. N. W.	0·2	N. N. W.	0·2
	15	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	16	E.	0·2	E.	0·2	E. N. E.	0·2	N. E. by E.	0·2	N. E. by E.	0·2	S. E. by E.	0·2
	17	N. by W.	0·2	N. by W.	0·2	N.	0·2	N.	0·2	S. W.	0·2	S. W.	0·2
	18	—	0·0	—	0·0	S. W. by S.	0·2	S. by W.	0·2	S.	0·5	S. S. W.	0·5
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	21	N. N. W.	0·2	N. by W.	0·2	N. N. W.	0·2	N. by W.	0·2	N. N. W.	0·2	N. by W.	0·2
	22	—	0·0	—	0·0	—	0·0	—	0·0	S. S. W.	0·2	S. W. by S.	0·2
	23	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	24	—	0·0	—	0·0	—	0·0	S.	0·2	S. by E.	0·2	S. by E.	0·2
	25	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2	S. S. W.	0·5
	28	—	0·0	—	0·0	W. S. W.	0·2	W. S. W.	0·5	W. S. W.	0·5	W. S. W.	0·5
	29	—	0·0	—	0·0	—	0·0	—	0·0	S. by E.	0·2	S. S. E.	0·2
	30	E. by S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	31	W.	0·2	W. by N.	0·5	W. by S.	0·5	W. S. W.	0·5	W. S. W.	0·5	W. S. W.	0·5
MAY.	1	S. S. W.	0·5	S. S. W.	0·5	S. S. W.	0·5	—	0·0	S. S. W.	1·0	S. S. W.	0·2
	2	S. S. W.	0·2	S. S. W.	0·2	S. S. W.	0·5	S. S. W.	1·0	S. S. W.	7·0	S. W.	5·0
	3	E. by S.	0·5	E. by S.	0·5	E. by N.	0·2	S.	0·2	—	0·0	—	0·0
	4	S. S. W.	0·2	S. S. W.	0·5	—	0·0	—	0·0	—	—	—	—
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	S. E.	0·2	—	0·0	—	0·0	W. by N.	1·0	W. N. W.	1·0	W. N. W.	1·5
	7	S. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	8	N. W.	1·0	N. W.	1·0	—	0·0	—	0·0	—	0·0	—	0·0
	9	N.	0·5	N.	0·2	N.	0·2	N.	1·2	N.	0·2	N.	0·2
	10	E.	0·5	E.	0·5	E.	0·5	E. by S.	0·5	E.	0·5	E.	0·5
	11	S. S. W.	0·5	—	0·0	N. N. W.	1·5	N. W.	1·0	N. W.	1·5	N. W.	1·5
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	E. by N.	0·2	E. by N.	0·5	E. by N.	0·5	E.	1·0	N. E. by E.	0·5	N. E. by E.	0·5
	14	S. W. by S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	15	E. S. E.	0·2	—	0·0	—	0·0	S. S. E.	0·2	S. S. E.	0·2	S. S. E.	0·2
	16	—	0·0	N.	0·5	N. by W.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. by W.	0·5
	17	S. S. W.	0·5	S. S. W.	0·5	—	0·0	—	0·0	—	0·0	—	0·0
	18	N. W.	0·5	N. N. E.	1·0	N.	0·5	N.	0·2	N. by W.	0·2	—	0·0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	N. W.	1·5	N. W. by W.	0·2	—	0·0	N. W. by N.	0·5	N. W. by N.	0·2	N. W. by N.	0·5
	21	S. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	22	S.	0·5	S.	0·5	S.	0·5	—	0·0	—	0·0	S.	0·2
	23	S. W.	0·5	S. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	24	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	25	S. by W.	0·5	S. by W.	0·2	S. by W.	0·2	S. by W.	0·5	—	0·0	—	0·0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	S. S. W.	0·2	W. S. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	28	W.	0·2	W.	0·2	W. by N.	0·2	—	0·0	—	0·0	—	0·0
	29	—	0·0	—	0·0	—	0·0	—	0·0	E. N. E.	0·5	E. N. E.	0·5
	30	S. E.	0·2	S. E.	0·5	S. E. by E.	0·2	S. E.	0·2	S. E.	0·2	S. E.	0·2
	31	W. S. W.	0·2	W. S. W.	0·2	W. S. W.	0·2	—	0·0	—	0·0	—	0·0





DIRECTION AND FORCE OF THE WIND.												
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
S. by W.	0.2	S. by W.	0.5	S.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	1
—	—	—	—	—	—	—	—	—	—	—	—	2
S.	0.5	S.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2	3
S. S. E.	0.2	—	0.0	—	0.0	—	0.0	S. E.	0.2	S. E.	0.2	4
S. E.	0.2	S.	0.2	S.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	—	0.0	5
N. W.	0.5	N. W.	0.5	N. W. by N.	0.5	N. N. W.	0.5	N. W.	0.5	W. N. W.	0.5	6
—	0.0	S. by W.	0.2	S. by W.	0.2	N. by E.	0.5	N. W.	1.0	N. W.	1.0	7
S. S. W.	0.2	S. S. W.	0.2	S.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	8
—	—	—	—	—	—	—	—	—	—	—	—	9
W.	2.0	W.	2.0	W.	3.0	N. W. by N.	4.0	W. N. W.	4.2	W. N. W.	1.0	10
S.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	—	0.0	11
E.	0.2	E.	0.2	E. by N.	0.2	E. by N.	0.2	E. N. E.	0.2	E. by S.	0.2	12
E. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13
E. S. E.	0.2	E. S. E.	0.2	S. E. by E.	0.2	—	0.0	—	0.0	—	0.0	14
E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	—	0.0	E. by S.	0.2	15
—	—	—	—	—	—	—	—	—	—	—	—	16
E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	17
S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S. E.	0.2	—	0.0	—	0.0	18
—	0.0	W. N. W.	0.2	W. N. W.	0.5	W. N. W.	0.5	—	0.0	N.	0.5	19
N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.2	N. E. by N.	0.5	20
S. E. by E.	0.2	E. S. E.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	—	0.0	21
N. N. E.	0.2	N. N. E.	0.2	N.	0.2	N. by E.	0.5	N. by E.	0.2	N. N. E.	0.5	22
—	—	—	—	—	—	—	—	—	—	—	—	23
S. S. W.	0.2	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	24
S. W.	0.2	S. W.	0.2	S. S. W.	0.5	S. S. W.	0.2	—	0.0	S. W.	0.2	25
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	26
E.	0.5	E. N. E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2	—	0.0	E.	0.2	27
W. S. W.	1.0	W. by S.	2.0	W. by S.	2.0	W. by S.	1.0	W. S. W.	0.5	W. S. W.	0.5	28
S. E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	—	0.0	—	0.0	29
—	—	—	—	—	—	—	—	—	—	—	—	30

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	—	—	—	—	—	—	—	—	—	—	—	1
—	0.0	—	0.0	—	0.0	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.2	2
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	5
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6
N. W.	0.2	—	0.0	—	0.0	—	0.0	N. W.	0.2	—	0.0	7
—	—	—	—	—	—	—	—	—	—	—	—	8
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14
—	—	—	—	—	—	—	—	—	—	—	—	15
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	16
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18
—	0.0	—	0.0	N. N. W.	0.2	N. N. W.	0.2	—	0.0	N. N. W.	0.2	19
—	0.0	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	N.	0.2	20
E. N. E.	0.5	E. by N.	0.5	E. by N.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	21
—	—	—	—	—	—	—	—	—	—	—	—	22
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23
S. W.	0.2	—	0.0	S. W.	0.2	—	0.0	—	0.0	—	0.0	24
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	25
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	26
S. by E.	0.2	S. by W.	0.2	S. W.	0.5	—	0.0	S. W.	0.5	S. W. by S.	0.5	27
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28
—	—	—	—	—	—	—	—	—	—	—	—	29
—	0.0	—	0.0	—	0.0	—	—	—	0.0	—	0.0	30



DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
JULY.	1	—	—	—	—	—	—	—	—	—	S. S. W.	0.5	
	2	—	—	—	—	—	—	—	S. S. W.	0.2	S.	0.2	
	3	—	—	—	—	N. by W.	0.2	N. by W.	0.5	N. by W.	0.5	0.5	
	4	N. by W.	0.2	N. by W.	0.2	N.	0.2	E. by N.	0.2	S. E.	0.2	S.	0.5
	5	—	—	—	—	—	—	—	—	—	—	—	0.0
	6	W.	0.2	W.	0.2	W.	0.2	W. by N.	0.2	W. by N.	0.5	W. N. W.	1.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	—	—	—	—	—	—	S.	0.2	S.	—	0.0
	10	S. W.	0.2	W.	0.5	W.	0.5	W. by N.	1.0	N. W.	0.5	N. W.	0.5
	11	N. W.	0.2	N. W.	0.5	N. W.	0.5	N. W.	0.5	N. W.	0.5	N. W.	0.2
	12	—	—	—	—	S.	0.2	S.	0.2	S.	0.2	S.	0.2
	13	—	—	N. W.	0.0	—	—	—	—	—	—	—	—
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	—	—	—	—	—	—	—	—	S. E.	0.2	S. E.	0.5
	16	E.	1.0	E.	1.0	E.	1.0	E. by N.	1.0	E. N. E.	0.5	E. N. E.	0.5
	17	—	—	—	—	N. W.	0.2	N. W.	0.5	N. W.	0.2	N. W.	0.2
	18	—	—	—	—	—	—	—	—	—	—	S.	0.2
	19	—	—	—	—	—	—	—	—	—	—	S. S. W.	0.2
	20	—	—	—	—	—	—	—	—	N. by E.	0.2	S. W.	0.2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	—	S. E.	0.2	S. E.	0.2	—	—	S.	0.2	S. by W.	0.2
	23	—	—	—	—	—	—	E. by N.	0.2	E. N. E.	0.2	E. by N.	0.2
	24	—	—	—	—	—	—	N. E. by E.	0.2	E. N. E.	0.2	E. by N.	0.2
	25	E.	0.2	N. E. by E.	0.2	N. E. by E.	0.5	N. E. by E.	0.5	N. E. by E.	0.5	E. N. E.	0.5
	26	N. E. by N.	0.2	N. E. by N.	0.2	N. E. by E.	0.2	E. N. E.	0.2	E. N. E.	0.2	E. N. E.	0.2
	27	—	—	—	—	—	—	—	—	—	—	E.	0.2
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	—	—	—	—	—	—	—	E. S. E.	0.2	S. E. by E.	0.2
	30	—	—	—	—	—	—	—	—	S. by E.	0.2	S. by E.	0.2
	31	—	—	—	—	—	—	—	—	W. by S.	0.2	W.	0.2
JULY.	12 <sup>h</sup> .		13 <sup>h</sup> .		14 <sup>h</sup> .		15 <sup>h</sup> .		16 <sup>h</sup> .		17 <sup>h</sup> .		
	1	W. S. W.	0.2	—	—	—	—	—	—	—	—	—	
	2	N. by E.	0.2	N. by E.	0.2	—	—	—	—	—	—	—	
	3	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	N. by W.	
	4	—	—	—	—	—	—	—	—	—	—	—	
	5	S. S. E.	0.2	—	—	—	—	—	—	—	—	—	
	6	N. W.	2.0	N. W.	0.5	—	—	N. W.	0.2	—	—	—	
	7	—	—	—	—	—	—	—	—	—	—	—	
	8	S.	0.2	—	—	—	—	—	—	—	—	—	
	9	—	—	—	—	S. W.	0.2	—	—	—	—	—	
	10	N. W.	2.0	N. W.	2.0	N. W.	1.0	N. W.	0.5	N. W.	1.0	N. W.	
	11	—	—	—	—	—	—	—	—	—	—	—	
	12	S. by W.	0.2	S.	0.2	—	—	—	—	—	—	—	
	13	—	—	—	—	—	—	—	—	—	—	—	
	14	—	—	—	—	—	—	—	—	—	—	—	
	15	—	—	—	—	—	—	—	—	—	—	—	
	16	—	—	—	—	—	—	—	—	—	—	—	
	17	—	—	—	—	—	—	—	—	N. by W.	0.2	—	
	18	—	—	—	—	—	—	—	—	—	—	—	
	19	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	—	—	—	—	—	
	20	—	—	—	—	—	—	—	—	—	—	—	
	21	—	—	—	—	—	—	—	—	—	—	—	
	22	S. by E.	0.2	—	—	—	—	—	—	—	—	—	
	23	—	—	—	—	—	—	—	—	—	—	—	
	24	—	—	—	—	—	—	—	—	—	—	—	
	25	—	—	—	—	—	—	—	—	—	—	—	
	26	E.	0.2	E.	0.2	—	—	—	—	—	—	—	
	27	—	—	—	—	—	—	—	—	—	—	—	
	28	—	—	—	—	—	—	—	—	—	—	—	
	29	S.	0.2	S.	0.2	—	—	—	—	—	—	—	
	30	S. by W.	0.2	S. by W.	0.2	—	—	—	—	—	—	—	
31	—	—	—	—	W. N. W.	7.0	W. N. W.	0.5	W. N. W.	0.5	N. N. W.	0.2	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
S. W.	0.5	S. W.	0.5	S. W. by S.	0.5	S. W. by S.	0.5	S. S. W.	0.5	S. S. W.	0.2	1	
S.	0.5	S.	0.5	S.	0.5	S.	0.2	E. N. E.	1.0	N. by E.	0.5	2	
N. by W.	0.5	N. by W.	0.5	N. by W.	1.0	N. by W.	1.0	N.	1.0	N. by W.	1.0	3	
S.	0.5	S.	0.5	S.	0.5	S. by E.	0.5	S. by E.	0.5	S. by E.	0.2	4	
S. E.	0.2	S. E.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	5	
W. N. W.	1.0	W.	1.0	W. N. W.	1.0	W. N. W.	1.0	N. W.	3.0	N. W.	2.0	6	
—	—	—	—	—	—	—	—	—	—	—	—	7	
S.	0.2	S. E.	0.2	S. E.	0.2	S.	0.2	S.	0.2	S.	0.2	8	
S. W.	0.5	S. W.	1.0	S. by W.	2.0	S.	0.5	S. by W.	0.5	S. W.	0.5	9	
N. W.	1.0	N. W.	0.5	N. W.	0.5	N. W.	1.0	N. W.	1.5	N. W.	1.5	10	
—	0.0	S.	0.2	S.	0.2	S.	0.2	S.	0.2	—	0.0	11	
S.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2	12	
S.	0.2	S.	0.2	S. by E.	0.2	S. E.	0.2	S. E.	0.2	S.	0.2	13	
—	—	—	—	—	—	—	—	—	—	—	—	14	
S. E.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15	
E. N. E.	1.0	E. N. E.	0.5	E. N. E.	0.2	—	0.0	—	0.0	—	0.0	16	
N. W.	0.2	S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	—	0.0	17	
S.	0.2	S.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	18	
S. W.	0.2	S. W.	0.2	S. W.	0.2	N. W. by W.	0.2	N. N. W.	0.2	W. N. W.	0.2	19	
S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	20	
—	—	—	—	—	—	—	—	—	—	—	—	21	
S. by W.	0.2	S. by W.	1.0	S. by W.	1.0	S. S. W.	0.2	N. by W.	0.2	S. by E.	0.5	22	
E.	0.2	E.	0.2	E. by S.	0.2	E. by S.	0.2	S. E. by S.	0.2	—	0.0	23	
E.	0.2	E.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	—	0.0	24	
E. N. E.	0.5	E.	0.5	E.	0.5	—	0.0	—	0.0	—	0.0	25	
E. N. E.	0.2	E. N. E.	0.2	E. by N.	0.2	E. by S.	0.2	E.	0.2	E.	0.2	26	
E. by S.	0.2	E. by S.	0.2	E. S. E.	0.2	E. S. E.	0.2	S. E. by E.	0.2	—	0.0	27	
—	—	—	—	—	—	—	—	—	—	—	—	28	
S. E. by E.	0.2	S. E. by E.	0.2	S. E. by E.	0.2	S. E.	0.2	S. E.	0.5	S.	0.2	29	
S. by E.	0.2	—	0.0	S. by E.	0.2	S. by E.	0.2	S. by E.	2.0	S. by E.	3.0	30	
W. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S.	0.5	S. by W.	0.2	S. by W.	0.2	31	

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		1
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		2
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. by W.	0.2	5	
—	—	—	—	—	—	—	—	—	—	—	—	6	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	8	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9	
N. W.	0.5	W. by N.	0.5	W. by N.	0.5	N. W.	0.5	N. W.	0.5 <sup>5</sup>	N. W.	0.2	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14	
—	0.0	E.	0.2	—	0.0	—	0.0	E.	0.5	E.	0.5	15	
—	0.0	—	0.0	N. E.	0.2	N. E.	0.5	N. E.	0.5	—	0.0	16	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18	
N.	0.2	N.	0.2	N.	0.2	N.	0.2	N.	0.2	N.	0.2	19	
—	—	—	—	—	—	—	—	—	—	—	—	20	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21	
—	0.0	N. N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	22	
—	0.0	—	0.0	N. E. by E.	0.2	—	0.0	—	0.0	—	0.0	23	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24	
—	0.0	—	0.0	—	0.0	—	0.0	N. E.	0.5	N. E. by N.	0.2	25	
—	0.0	E.	0.2	E.	0.2	E.	0.5	E.	0.5	—	0.0	26	
—	—	—	—	—	—	—	—	—	—	—	—	27	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	29	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	30	
N. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	31	

JULY.

JULY.





DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
SEPTEMBER.		lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
	1	—	—	—	—	—	—	—	—	—	—	—	
	2	—	0·0	—	0·0	—	0·0	E by S.	0·2	E. by S.	0·2	E. by S.	0·2
	3	N. W.	0·2	N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·5	N. W.	0·5
	4	—	0·0	—	0·0	N. N. W.	0·5	N. by W.	0·5	N. by W.	0·2	N. by W.	0·2
	5	—	0·0	S. E.	0·2	S. E.	0·5	S. by E.	0·5	E.	0·2	E.	0·2
	6	E.	0·2	E.	0·2	E.	0·2	E. by N.	0·5	E. by S.	0·5	E. by S.	0·5
	7	—	0·0	—	0·0	—	0·0	E. S. E.	0·2	S. E.	0·2	S. E.	0·2
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	10	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	11	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	12	N. E. by N.	0·2	N. E. by N.	0·2	N. E. by N.	0·2	N. E. by N.	0·5	N. E. by N.	0·5	N. E. by N.	0·2
	13	—	0·0	—	0·0	—	0·0	—	0·0	E. N. E.	0·2	S. E.	0·2
	14	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·2	S. E.	0·2
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	17	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	18	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·2	N. by W.	0·2	S. W.	0·5
	19	N.	0·2	—	0·0	—	0·0	—	0·0	S. S. W.	0·5	S. S. W.	0·5
	20	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. S. W.	0·2
	21	S. S. W.	0·2	S. S. W.	0·5	S. S. W.	1·5	S. S. W.	2·0	W. by N.	5·0	W.	5·0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	—	0·0	E.	0·5	E.	0·2	E.	0·2	E.	0·2	E. S. E.	0·2
	24	—	0·0	—	0·0	—	0·0	W.	0·2	—	0·0	—	0·0
	25	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	26	—	0·0	N. W.	0·2	N. W.	0·2	—	0·0	N. W. by N.	0·5	N.	0·2
	27	—	0·0	—	0·0	—	0·0	N.	0·2	N. by E.	0·2	N. N. E.	0·2
	28	N.	0·2	N.	0·2	N.	0·2	N.	0·2	E. N. E.	0·2	E. N. E.	0·2
	29	—	—	—	—	—	—	—	—	—	—	—	—
30	N. by E.	0·2	N. by E.	0·2	N. by E.	0·2	N. N. E.	0·2	N. N. E.	0·2	N. N. E.	0·5	
SEPTEMBER.													
	1	—	—	—	—	—	—	—	—	—	—	—	
	2	W.	1·5	N. W. by W.	3·5	N. W. by W.	2·5	N. W. by W.	1·0	N. W. by W.	1·0	N. W.	0·5
	3	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	4	N.	0·5	N.	0·2	N.	0·2	—	0·0	—	0·0	—	0·0
	5	E.	0·2	E.	0·2	—	0·0	—	0·0	—	0·0	E.	0·2
	6	E. by N.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	7	E.	0·5	E.	0·5	—	0·0	—	0·0	—	0·0	—	0·0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	0·0	—	0·0	N. E.	0·2	N. E.	0·5	N. E.	0·5	N. E.	0·5
	10	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	11	—	0·0	—	0·0	—	0·0	N. E.	0·2	—	0·0	N. E.	0·2
	12	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	13	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	14	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	17	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	18	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	19	S. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	20	S. S. W.	1·0	S. S. W.	0·5	S. S. W.	0·2	—	0·0	—	0·0	—	0·0
	21	W. N. W.	2·5	W. N. W.	2·5	W. N. W.	1·0	W. N. W.	1·0	W. N. W.	0·5	W. N. W.	0·5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	24	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	25	—	0·0	—	0·0	—	0·0	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·2
	26	N.	0·2	N.	0·2	N.	0·2	N.	0·2	N.	0·2	—	0·0
	27	N. by E.	0·2	N.	0·2	N.	0·2	N. by E.	0·2	N. by E.	0·5	N. by E.	0·2
	28	E. by S.	0·2	—	0·0	—	0·0	—	0·0	E. by S.	0·2	—	0·0
	29	—	—	—	—	—	—	—	—	—	—	—	—
30	N. by E.	0·5	N. by E.	1·0	N. by E.	0·2	—	0·0	—	0·0	—	0·0	

DIRECTION AND FORCE OF THE WIND.												
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	—	—	—	—	—	—	—	—	—	—	—	1
—	0.0	—	0.0	E.	0.2	S. by E.	0.2	W. by S.	0.5	W.	1.0	2
N. W.	0.5	N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W.	0.5	—	0.0	3
N. by W.	0.2	N. N. W.	0.5	N. by W.	0.5	N. by W.	0.5	N.	0.5	N. by W.	0.5	4
E. S. E.	0.2	E. by S.	1.0	E.	1.0	E.	1.0	E.	0.5	E.	0.2	5
E. by S.	0.5	E. by S.	0.2	E. by S.	0.5	E. S. E.	0.5	E. S. E.	0.2	E. by N.	0.2	6
S. E.	0.2	E. by S.	0.5	E. by S.	0.5	E.	0.5	E.	0.5	E.	0.5	7
—	—	—	—	—	—	—	—	—	—	—	—	8
S.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9
E.	0.2	E. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	10
—	0.0	E. S. E.	0.2	E. S. E.	0.2	—	0.0	N. E. by E.	0.2	N. E.	0.2	11
N. E. by N.	0.2	E. by S.	0.2	E. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	—	0.0	12
S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	—	0.0	—	0.0	13
S. E. by S.	0.2	S. E. by S.	0.2	S. S. E.	0.2	S. by E.	0.2	S. by E.	0.2	—	0.0	14
—	—	—	—	—	—	—	—	—	—	—	—	15
—	0.0	S.	0.2	—	0.0	—	0.0	S.	0.2	—	0.0	16
—	0.0	—	0.0	—	0.0	—	0.0	S.	0.2	—	0.0	17
S. W. by S.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	—	0.0	18
S. S. W.	0.5	S. by W.	1.0	S. by W.	1.0	S. by W.	1.0	S. by W.	0.2	S. by W.	0.2	19
S. S. W.	0.5	S. S. W.	0.5	S. W. by S.	0.5	S. W. by S.	1.0	S. W. by S.	0.0	S. S. W.	1.5	20
W.	3.5	W. S. W.	5.0	W. by N.	5.0	W. by N.	4.0	W. N. W.	5.0	W. N. W.	5.0	21
—	—	—	—	—	—	—	—	—	—	—	—	22
E.	0.2	E. by N.	0.2	E. by S.	0.2	E. by N.	0.2	E.	0.5	E.	0.2	23
N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24
N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	1.2	N. N. W.	0.2	—	0.0	25
N.	0.2	N.	0.2	N.	0.2	N.	0.2	N.	0.2	N.	0.2	26
N. E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	27
E.	0.5	E.	0.5	E.	0.2	E.	0.5	E.	0.5	—	0.0	28
—	—	—	—	—	—	—	—	—	—	—	—	29
N. N. E.	0.2	N. N. E.	0.5	N. N. E.	2.5	N.	3.5	N. by E.	4.0	N. by E.	2.5	30

DIRECTION AND FORCE OF THE WIND.												
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	—	—	—	—	—	—	—	—	—	—	—	1
N. W.	0.5	N. W.	0.5	N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W.	0.2	2
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3
—	0.0	N.	0.2	N.	0.2	N.	0.2	N.	0.2	—	0.0	4
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	E.	0.2	5
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
N. E.	0.2	N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	8
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9
N. E. by N.	0.2	N. E. by N.	0.2	N. E. by N.	0.5	N. E. by N.	0.2	N. E. by N.	0.2	N. E. by N.	0.2	10
E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.2	—	0.0	—	0.0	11
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
W.	0.2	N. W.	0.5	N. by W.	2.0	N. by W.	1.0	N. by W.	0.5	N. N. W.	0.2	16
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20
—	0.0	E.	0.2	E.	0.2	E.	0.5	E.	0.2	—	0.0	21
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23
N. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	N. W.	0.2	24
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	25
N. by E.	0.2	N. by E.	0.2	—	0.0	N. by E.	0.2	—	0.0	—	0.0	26
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	27
—	0.0	—	0.0	—	0.0	N. by E.	0.2	—	0.0	—	0.0	28
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	29
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	30

SEPTEMBER.

SEPTEMBER.









DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			NOVEMBER.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	1	
S. W.	0.5	S. W.	0.2	S. W.	0.5	S. W.	0.2	—	0.0	—	0.0	2	
—	—	—	—	—	—	—	—	—	—	—	—	3	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. by E.	0.2	4	
N. N. W.	0.5	S. W. by W.	0.5	S. W. by W.	0.2	—	0.0	N. N. W.	0.2	N. N. W.	0.2	5	
N. W.	2.0	N. W.	1.5	N. W.	1.0	N. W.	0.5	N. W.	0.2	N. W.	0.2	6	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7	
N. W.	0.2	N. W.	0.0	—	0.0	—	0.0	—	0.0	—	0.0	8	
—	0.0	—	0.0	—	0.0	N. W. by W.	0.2	—	0.0	N. W.	0.2	9	
—	0.0	—	0.0	—	0.0	—	—	—	—	—	—	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11	
W. by N.	2.0	W.	2.5	W.	2.0	W.	1.5	N. E.	0.2	—	0.0	12	
W. by N.	0.5	W. by N.	0.2	W.	0.2	W.	0.5	W.	0.5	—	0.0	13	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15	
—	—	—	—	—	—	—	—	—	—	—	—	16	
N. W.	1.5	N. W.	2.5	N. W.	1.5	N. N. W.	1.5	N. N. W.	2.5	N. N. W.	1.0	17	
S. S. W.	3.0	S. W.	1.0	S. W.	1.0	S. W.	3.5	S. W.	4.0	S. W. by S.	2.5	18	
—	0.0	—	0.0	S. W.	0.2	—	0.0	—	0.0	—	0.0	19	
E.	0.2	E.	0.2	E.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	20	
E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.2	E. by S.	0.0	21	
S. W. by W.	3.5	W. S. W.	5.5	W. S. W.	5.0	W. S. W.	3.5	W. S. W.	1.0	W. S. W.	1.0	22	
—	—	—	—	—	—	—	—	—	—	—	—	23	
N. W.	4.5	N. W.	5.0	N. W.	3.0	N. W.	2.0	W. N. W.	0.5	N. W.	0.5	24	
S. S. E.	2.0	S. by W.	2.0	S. S. W.	2.5	S. W.	2.0	S. W.	1.5	S. W.	1.5	25	
N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	—	0.0	—	0.0	—	0.0	26	
N. E.	0.5	N. E.	0.5	N. E.	0.5	N. E.	0.5	N. E.	0.5	N. E.	0.5	27	
N. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	28	
S.	0.2	S.	0.2	S.	0.2	—	0.0	—	0.0	—	0.0	29	
—	—	—	—	—	—	—	—	—	—	—	—	30	
—	—	—	—	—	—	—	—	—	—	—	—	31	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			NOVEMBER.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	1	
—	—	—	—	—	—	—	—	—	—	—	—	2	
N. N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5	N. N. E.	0.2	—	0.0	3	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.2	—	0.2	5	
—	0.0	—	0.0	E. S. E.	0.5	E.	0.5	E.	0.5	E.	0.2	6	
N. N. W.	0.2	N. W.	0.5	N. W.	0.5	N. W. by W.	0.5	N. W. by W.	0.5	—	0.0	7	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	8	
—	—	—	—	—	—	—	—	—	—	—	—	9	
E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.5	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	1.0	E.	1.5	11	
W. N. W.	0.2	W. N. W.	0.2	—	0.0	—	0.0	E.	0.0	—	0.0	12	
W.	0.5	W.	0.5	W.	0.2	W.	0.2	W.	0.2	—	0.0	13	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15	
—	—	—	—	—	—	—	—	—	—	—	—	16	
W.	3.0	W.	3.5	W. N. W.	3.5	W. N. W.	4.5	N. N. W.	3.5	W. N. W.	3.0	17	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. S. W.	1.0	22	
—	—	—	—	—	—	—	—	—	—	—	—	23	
N. W.	2.0	N. W.	1.5	N. W.	2.0	N. W.	2.5	N. W.	2.5	N. W.	4.5	24	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	25	
W. by N.	2.0	W. by N.	3.0	W. by N.	2.5	W. N. W.	2.5	N. W.	2.5	N. W.	1.0	26	
N. N. W.	0.2	N. N. W.	0.2	N. N. E.	0.5	—	0.0	E.	0.5	E. by S.	0.5	27	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28	
—	0.0	S. E. by S.	0.5	S. S. E.	0.2	S. E. by S.	0.2	S.	0.2	S.	0.2	29	
—	—	—	—	—	—	—	—	—	—	—	—	30	
—	0.0	—	0.0	—	0.0	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	31	

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
DECEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.2	N. N. W.	1.0	N. N. W.	1.0	N. by W.	0.5
	3	—	0.0	—	0.0	—	0.0	E. S. E.	0.2	E. S. E.	0.2	S. E.	0.2
	4	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	5	E.	0.5	E.	1.0	E.	0.5	E.	0.4	E.	0.4	E.	0.2
	6	N. E.	0.2	—	0.0	E.	0.2	E.	0.2	E. by N.	0.2	E. by N.	0.2
	7	E.	0.2	E.	0.2	E.	0.2	—	0.0	S. W.	0.2	S. W.	0.4
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	S. W.	0.2	S. W.	0.2	S. W.	0.2	—	0.0	S. W.	0.2	S. W.	0.2
	10	N. W.	0.2	N. E.	0.5	N. N. E.	0.5	N. N. E.	0.5	N. by E.	0.5	N. by E.	0.2
	11	—	0.0	—	0.0	—	0.0	—	0.0	N. E.	0.2	S. E.	0.2
	12	—	0.0	—	0.0	S. E.	0.2	S. S. E.	0.2	S.	0.2	S.	0.5
	13	S.	0.2	S.	0.5	S.	0.5	S.	0.5	S.	1.0	S.	0.2
	14	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	—	0.0	—	0.0	—	0.0	N. W. by N.	0.2	N. W. by N.	0.2	N. by W.	0.2
	17	—	0.0	—	0.0	—	0.0	N. W.	0.2	N. W.	0.2	N. W.	0.2
	18	—	0.0	—	0.0	—	0.0	N. W.	0.2	N. W.	0.2	W.	0.5
	19	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	W.	0.2
	20	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	21	S. S. E.	1.0	S. S. E.	1.0	S. S. E.	1.0	S. S. E.	0.5	S. E.	0.5	S. E.	0.5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	N. N. W.	5.0	N. N. W.	3.0	N. N. W.	5.0	N.	5.0	N.	5.0	N.	5.0
	24	—	0.0	—	0.0	—	0.0	—	0.0	S. W.	0.2	S. W.	0.2
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	—	0.0	—	0.0	S. W. by W.	0.2	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2
	27	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. by W.	0.2	N.	0.2	N.	0.2
	28	N.	0.2	—	0.0	N.	0.2	—	0.0	—	0.0	E.	0.2
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	E.	0.2	E.	0.2	—	0.0	—	0.0	W. S. W.	0.2	W.	5.0
	31	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.2
DECEMBER.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.2	—	0.0
	3	E.	0.2	—	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2
	4	E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.5	E.	0.5
	5	—	0.5	E.	0.5	E.	1.0	E.	0.5	E.	0.5	E.	0.2
	6	—	0.0	E.	0.5	E.	1.0	E.	0.2	E.	0.5	E.	0.5
	7	W. S. W.	2.5	W. S. W.	1.0	W. N. W.	4.0	W. N. W.	4.0	N. N. W.	5.0	N. N. W.	3.0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	10	N.	0.2	N.	0.2	N.	0.2	N.	0.2	N.	0.2	N.	0.2
	11	—	0.0	—	0.0	—	0.0	—	0.0	S. E.	0.2	—	0.0
	12	S.	0.2	S.	0.2	S.	0.2	—	0.0	—	0.0	—	0.0
	13	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	14	W.	1.0	W.	0.2	W.	0.2	W.	0.5	W.	0.5	W.	0.5
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	N. W.	1.0	N. W.	1.0	W. N. W.	1.0	W. N. W.	0.5	W. N. W.	0.5	—	0.0
	17	W.	1.0	W.	1.0	W.	0.5	—	0.0	W. N. W.	0.2	W. N. W.	0.5
	18	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	19	—	0.0	—	0.0	—	0.0	—	0.0	N. N. W.	0.2	—	0.0
	20	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	21	S. E.	0.5	S. E.	0.2	S. E.	0.2	—	0.0	—	0.0	—	0.0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	N. W.	3.0	N. W.	3.0	N. W.	2.0	N. W.	1.0	N. W.	1.0	N. W.	1.0
	24	S.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	N. W.	1.0	N. W.	1.0	N. W.	1.0	N. W.	0.5	N. W.	0.5	—	0.0
	27	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	28	—	0.0	—	0.0	—	0.0	W.	0.2	W.	0.2	W.	0.2
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	W.	1.0	W. by N.	1.0	W. by N.	0.5	W. by N.	5.0	W. by N.	3.0	W. by N.	3.0
	31	—	0.0	S. W.	0.2	—	0.0	—	0.0	—	0.0	N. N. E.	0.2

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	—	—	—	—	—	—	—	—	—	—	—	1
N. by W.	0.2	N. by W.	0.2	E. by N.	0.2	E. by N.	0.2	E. by N.	0.5	E. by N.	0.2	2
S. E. by E.	0.2	S. E.	0.2	E. by S.	0.2	E.	0.2	—	0.0	E.	0.2	3
E.	0.0	E.	0.2	E. by N.	0.2	E.	0.2	E. N. E.	0.2	E.	0.2	4
N. E.	0.4	E.	0.5	E. by N.	0.5	E. by N.	0.5	E. N. E.	0.5	E.	0.5	5
E. by N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6
S. W.	0.0	S. W.	1.5	S. W.	2.0	S. W.	2.0	S. W.	1.0	W. S. W.	5.0	7
—	—	—	—	—	—	—	—	—	—	—	—	8
S. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2	—	0.0	—	0.0	9
N. by E.	0.2	N.	0.2	N. N. E.	0.2	E. N. E.	0.5	N. N. E.	0.2	N.	0.2	10
S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	S.	0.2	—	0.0	11
S.	0.5	S.	0.5	S.	0.2	S.	0.2	—	0.0	S.	0.2	12
S.	0.2	S.	0.2	—	0.0	S.	0.2	—	0.0	—	0.0	13
W.	0.2	W.	0.5	W. by S.	0.2	W. by S.	0.2	W. by S.	0.2	W. by S.	0.2	14
—	—	—	—	—	—	—	—	—	—	—	—	15
N. by W.	0.2	N.	1.0	N.	0.2	N. N. W.	0.2	N. W.	1.0	N. W.	1.0	16
—	0.0	N. W.	0.2	N. W.	0.5	W. N. W.	0.5	W. N. W.	0.5	—	0.0	17
W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	—	0.0	18
W.	0.2	—	0.0	—	0.0	S. W.	0.2	—	0.0	—	0.0	19
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20
S. E.	1.0	S. E.	0.5	S. E.	0.5	E. S. E.	1.0	E. S. E.	1.0	S. E.	0.5	21
—	—	—	—	—	—	—	—	—	—	—	—	22
N. N. W.	5.0	N. N. W.	5.0	N. N. W.	5.0	N. W.	5.0	N. W.	5.0	N. W.	4.0	23
S. W.	0.2	S. W. by S.	0.2	S. W. by S.	0.2	—	0.0	—	0.0	—	0.0	24
—	—	—	—	—	—	—	—	—	—	—	—	25
W. S. W.	0.2	W. S. W.	0.2	N. W.	0.5	N. W.	0.5	N. N. W.	0.2	N. W.	0.5	26
N.	0.2	N.	0.5	N.	0.2	N.	0.2	N.	0.2	—	0.0	27
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S.	0.2	28
—	—	—	—	—	—	—	—	—	—	—	—	29
W. S. W.	5.0	W. S. W.	3.0	W.	1.0	W.	1.0	W.	1.5	W.	2.0	30
S. W.	0.2	S. W.	0.2	S. W.	0.2	S. by W	0.2	S. by W.	0.2	—	0.0	31

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .	
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.
—	—	—	—	—	—	—	—	—	—	—	—
E. S. E.	0.2	E. by N.	0.5	E. by N.	0.5	E. by N.	0.5	E. by N.	0.2	—	0.0
E. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
E.	0.5	E.	0.5	—	0.0	E.	0.5	E.	0.5	E.	0.5
E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
E.	0.5	E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.2
—	—	—	—	—	—	—	—	—	—	—	—
S. W.	0.2	S. W.	0.2	W. S. W.	0.2	W. S. W.	0.5	S. W.	0.5	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
N. W.	0.5	N. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
N. W.	0.5	N. W.	1.0	N.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.2
N. W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	—	—	—	—	—	—	—	—	—	—	—
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. N. W.	0.2
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
—	—	—	—	—	—	—	—	—	—	—	—
S. E.	0.5	E. S. E.	0.5	E. S. E.	1.0	E. S. E.	1.0	E.	0.2	E.	0.2
W. by N.	0.2	W.	0.2	W.	0.2	W.	0.2	W.	0.2	—	0.0
N. N. E.	0.2	—	0.0	—	0.0	W. by S.	0.2	W.	0.5	W. N. W.	0.5

DECEMBER.

DECEMBER.



**TORONTO, 1844.**



**METEOROLOGICAL JOURNAL.**

OBSERVATIONS OF THE AURORA AT TIMES WHEN THE MAGNETOMETERS WERE CONSIDERABLY DISTURBED.					
Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.	Toronto Mean Time, Astronomical Reckoning.	Weather and Phenomena.	Moon's Age at Mean Noon.
<b>MARCH.</b>			<b>AUGUST.</b>		
D. H. M.		D.	D. H. M.		D.
7 9 00	Clear and unclouded; bank of Auroral light in N., altitude about 5°, and a few faint streamers issuing from it - -	17.9	29 10 25	2 of the sky overcast with cir.-cum. in N.W.; otherwise clear. No auroral light - - - - -	-
10 00	Clear and unclouded; bank of auroral light in N., altitude about 7°. No streamers. - - - - -	-	<b>SEPTEMBER.</b>		
<b>MAY.</b>			14 9 00	Clear and unclouded; bank of auroral light in N., with patches and streamers issuing from it, burst out very suddenly - - - - -	1.7
14 9 00	Haze in S. horizon; otherwise clear; auroral light in N., with streamers issuing from it - - - - -	26.6	10 00	Clear and unclouded; no appearance of auroral light remaining - - - - -	-
10 00	Haze round horizon; otherwise clear; auroral light almost entirely disappeared - - - - -	4.9	30 13 00	Clear and unclouded; auroral light in N.; patches; bank and streamers resting upon a low arch of light, extending from N.E. to N.W. - - - - -	17.7
22 7 00	Unclouded; light haze round horizon; fair - - - - -	4.9	20	Auroral light in N.; bright streamers, altitude 45° - - - - -	-
8 00	Unclouded; light haze round horizon; fair - - - - -	-	30	Faint auroral light and streamers in N. - - - - -	-
9 00	Clear and unclouded - - - - -	-	40	Bright streamers in N. and N. W., altitude 60° - - - - -	-
10 00	Clear and unclouded - - - - -	-	50	Faint light and streamers - - - - -	-
20	Bank of auroral light in N., with streamers and patches - - - - -	-	14 00	Clear arch of light in N., altitude of centre 15° - - - - -	-
11 00	Clear and unclouded; auroral light in N., an arch of small streamers extending from N.W. to N.E.; altitude of highest part about 40°; length of streamers in centre of arch about 1° 30'; getting gradually shorter towards each extremity - - - - -	-	10	Arch of light as before; no streamers visible - - - - -	-
12 00	Clear and unclouded; a faint auroral light in N. - - - - -	-	35	Perfectly clear; no aurora visible - - - - -	-
13 00	Quite clear; a low and very faint bank of auroral light in N. - - - - -	-	15 00	Clear and unclouded; bank of light in N. - - - - -	-
<b>AUGUST.</b>			40	Bright arch of light in N.; altitude of centre about 20° - - - - -	-
29 9 00	Unclouded, save low bank of cir.-strat. in S.E. horizon - -	15.2	16 00	Clear; auroral light totally disappeared - - - - -	-
10	Sudden appearance of an aurora; moderately bright streamers and patches - - - - -	-	17 00	Clear and unclouded - - - - -	-
9 30	Aurora totally disappeared - - - - -	-	<b>OCTOBER.</b>		
40	No aurora visible; sky clear save a low bank of cir.-strat. in S.E. horizon - - - - -	-	20 12 00	Cir. and cir.-strat., dispersed auroral light in N. - - - -	8.3
10 00	Clear save a few cir.-strat. in S.W. and S.E. horizon - -	-	40	Aurora very bright, shooting up streamers to altitude of 45°; bright bank in N. horizon; waves rising in succession from horizon and reaching to zenith - - - - -	-
10	Very faint auroral light in N.; low bank of strat. in W. - -	-	13 00	Bright bank of auroral light in N. horizon, with streamers and patches - - - - -	-
15	A number of small streamers or fragments of streamers appearing about 10° N. of zenith - - - - -	-	30	Bright bank of auroral light in N., with streamers; waves reaching to zenith - - - - -	-
20	No traces of the aurora; sheet of cir.-strat. rising in N.W. horizon - - - - -	-	14 00	Faint auroral light in N.; streaky light cir. in ridges stretching from E. to W. - - - - -	-

Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Terr. Rad.
	3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
JANUARY.								
Clouded from 12 <sup>h</sup> to 17 <sup>h</sup> , with cir.-cum. and haze; remainder of day clear	0.2	0.3	1.0	1.0	32.4	22.5	—	—
Densely clouded all day with cir.-cum., cir.-strat., and haze; slight rain from 6 <sup>h</sup> to 23 <sup>h</sup>	1.0	1.0	1.0	1.0	31.5	20.7	0.27	14.6
Rain to 0 <sup>h</sup> ; clouded; snow at 0 <sup>h</sup> , which continued to fall the greater part of the day	1.0	1.0	1.0	1.0	36.9	30.5	0.14	29.4
Brisk wind; snow drifting; magnetic disturbance	0.9	1.0	1.0	0.4	36.9	24.4	—	23.4
Partially clouded till 7 <sup>h</sup> ; remainder of the day clouded with cir.-cum., cir.-strat., and haze	0.2	1.0	1.0	1.0	25.3	19.4	—	17.1
Densely clouded all day; snow at 11 <sup>h</sup> , which continued to fall till 17 <sup>h</sup>	1.0	1.0	—	1.0	26.2	16.1	—	8.0
Clouded all day with cir.-cum. and cir.-strat.; snow from 3 <sup>h</sup> to 6 <sup>h</sup>	1.0	—	1.0	1.0	31.9	25.7	—	24.4
Clouded all day with cir.-cum. and haze	1.0	0.7	1.0	1.0	33.9	11.9	—	8.3
Clouded with dense cir.-cum. and haze; snow from 0 <sup>h</sup> 30 <sup>m</sup> to 8 <sup>h</sup>	1.0	1.0	1.0	1.0	22.2	9.1	—	1.0
Clear and clouded alternately; quite clear at 7 <sup>h</sup> , 8 <sup>h</sup> , 17 <sup>h</sup> , 19 <sup>h</sup> , and 20 <sup>h</sup>	0.7	1.0	0.9	1.0	28.9	21.2	—	20.1
Clouded with cir.-cum. and haze; rain at 19 <sup>h</sup> and 20 <sup>h</sup>	1.0	1.0	1.0	1.0	29.9	-0.7	—	-5.5
Rain from 7 <sup>h</sup> to 16 <sup>h</sup> 45 <sup>m</sup> ; followed by a heavy gale from W. by N.	1.0	1.0	1.0	1.0	32.9	8.1	1.42	7.3
Gale continued till 2 <sup>h</sup> ; sky clouded, with cum.-strat. and cir.-cum.	1.0	1.0	—	1.0	41.2	31.9	—	31.4
Clouded till 12 <sup>h</sup> , with cir.-cum. and cum.-strat.; clear.	1.0	—	0.0	0.1	32.7	19.1	—	11.8
Clear to 0 <sup>h</sup> ; clouded with cum.-strat. and cir.-strat.; rain from 13 <sup>h</sup> to 17 <sup>h</sup>	1.0	1.0	1.0	1.0	31.9	21.2	0.44	12.6
Clouded; rain continued till 20 <sup>h</sup>	1.0	1.0	0.9	1.0	35.7	30.7	—	26.4
Overcast; dense haze; slight snow from 11 <sup>h</sup> to 13 <sup>h</sup> with brisk wind	1.0	1.0	1.0	0.8	42.0	30.2	—	23.4
Clear and clouded alternately; cir.-cum., cum.-strat., and haze	0.7	1.0	0.5	1.0	30.7	22.7	—	17.6
Clouded till 7 <sup>h</sup> ; cir.-cum. and cir.-strat.; slight snow from 21 <sup>h</sup> to 22 <sup>h</sup>	1.0	0.0	0.0	1.0	30.2	15.9	—	7.8
Clouded from 0 <sup>h</sup> to 5 <sup>h</sup> ; cir.-strat. and haze; snow from 9 <sup>h</sup> to 23 <sup>h</sup>	0.8	1.0	—	1.0	21.7	5.1	—	2.8
Snowing at 0 <sup>h</sup> ; remainder of day densely overcast	1.0	—	1.0	1.0	16.7	6.6	—	7.8
Densely clouded all day; rain from 10 <sup>h</sup> to 17 <sup>h</sup> , freezing as it falls; rain ceased at 21 <sup>h</sup>	1.0	1.0	1.0	1.0	16.2	9.6	0.74	9.8
Clouded and clear alternately	0.5	0.1	1.0	1.0	37.7	14.4	—	10.3
Cloudy till 9 <sup>h</sup> , cir.-cum. and cir.-strat.; occasional showers of snow; auroral light in N. at 11 <sup>h</sup>	1.0	0.5	1.0	1.0	45.3	26.7	—	16.6
Clear to 7 <sup>h</sup> ; solar halo at 1 <sup>h</sup> , diam. about 35°; lunar halo from 6 <sup>h</sup> to 10 <sup>h</sup> , diam. increasing from 30° to 45°; clouded from 20 <sup>h</sup> to 23 <sup>h</sup>	0.7	0.2	0.0	1.0	28.7	-4.2	—	-3.0
Sky mostly clear; solar halo from 22 <sup>h</sup> to 1 <sup>h</sup> , diam. about 30° (perfect)	0.4	0.1	0.0	0.0	5.9	-5.2	—	-9.0
Nearly clear to 11 <sup>h</sup> ; lunar halo at 10 <sup>h</sup> and 11 <sup>h</sup> , diam. between 30° and 45°	0.1	0.1	—	1.0	8.4	-7.2	—	-13.0
Clouded; snowing heavily till noon; remainder of day mostly clear	0.2	—	0.1	1.0	9.3	-4.7	—	-6.0
Clouded; clear at 2 <sup>h</sup> and 3 <sup>h</sup> ; cir.-cum. and haze; snow from 7 <sup>h</sup> to 17 <sup>h</sup>	0.3	1.0	1.0	1.0	15.7	-3.7	—	-10.5
Ceased snowing at 6 <sup>h</sup> ; clouded and partially clear alternately for the remainder of the day	1.0	1.0	0.1	0.1	11.7	-2.0	—	-11.5
Clouded at 7 <sup>h</sup> , 8 <sup>h</sup> , and 9 <sup>h</sup> ; remainder of day mostly clear; lunar halo at 6 <sup>h</sup> , 7 <sup>h</sup> , 8 <sup>h</sup> , and 9 <sup>h</sup>	0.1	1.0	0.5	1.0	18.2	-2.7	—	-11.5
FEBRUARY.								
Clouded all day, cir., cir.-cum. and haze; snow from 4 <sup>h</sup> to 8 <sup>h</sup> 45 <sup>m</sup>	1.0	1.0	1.0	1.0	13.7	0.6	—	-3.0
Clouded from 13 <sup>h</sup> to 17 <sup>h</sup> ; cir.-strat., cir.-cum., and haze, clear	0.4	0.3	1.0	0.1	25.2	8.1	—	7.8
Clear; very high wind	0.0	0.0	—	1.0	30.2	10.1	—	5.8
Snow from 12 <sup>h</sup> to 23 <sup>h</sup>	1.0	—	1.0	1.0	27.7	10.1	—	4.8
Snow to 1 <sup>h</sup> ; densely clouded cir.-cum. and haze; slight rain	1.0	1.0	1.0	1.0	32.5	19.9	—	15.6
Clouded to 8 <sup>h</sup> ; cir.-cum. and haze; clear; snow from 18 <sup>h</sup> to 23 <sup>h</sup>	1.0	0.1	0.1	0.2	46.1	32.5	—	31.9
Snow to 2 <sup>h</sup> ; clouded cir.-cum. and haze; clear spaces occasionally	1.0	1.0	1.0	0.5	37.9	13.4	—	5.8
Clear to 1 <sup>h</sup> ; clouded cir.-cum. and cir.-strat.; slight snow at 6 <sup>h</sup>	1.0	1.0	0.6	0.3	30.7	16.1	—	11.8
Clouded; cir.-cum., cir.-strat., and haze; clear at 10 <sup>h</sup>	0.1	0.2	1.0	1.0	30.7	8.6	—	4.3
Clouded till 4 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; remainder but partially clouded	1.0	0.6	—	1.0	19.2	4.1	—	-2.5
Clouded from 12 <sup>h</sup> to 17 <sup>h</sup> ; remainder of the day cir.-strat. and cum.-strat.	1.0	—	0.2	0.0	29.9	10.6	—	-2.5
Clear till 3 <sup>h</sup> ; afterwards clouded with cir.-strat. and haze	0.2	1.0	1.0	1.0	30.4	13.4	—	4.8
Clouded; cir.-cum., and haze; heavy snow from 19 <sup>h</sup> 45 <sup>m</sup> to 20 <sup>h</sup> 10 <sup>m</sup> ; squally.	1.0	1.0	1.0	1.0	34.4	22.7	—	21.6
Partially clear to 13 <sup>h</sup> ; afterwards clouded, with cir. and haze	0.7	1.0	1.0	1.0	39.9	20.7	—	15.1
Clouded all day with dense haze; slight snow from 2 <sup>h</sup> to 9 <sup>h</sup> , and 20 <sup>h</sup> to 21 <sup>h</sup>	1.0	1.0	1.0	1.0	31.3	14.9	—	7.8
Snow from 8 <sup>h</sup> to 9 <sup>h</sup> ; clouded to 20 <sup>h</sup>	1.0	0.8	1.0	0.6	32.9	27.7	—	26.4
Clouded; cir.-cum. and cum.-strat.; afterwards mostly clear	0.1	0.0	—	1.0	35.9	19.9	—	16.6
Cloudless, but hazy	1.0	—	0.0	0.0	25.2	1.6	—	-7.0
Generally clear; clouded from 6 <sup>h</sup> to 8 <sup>h</sup> ; from 12 <sup>h</sup> to 17 <sup>h</sup> ; cir., cir.-cum., and haze	0.4	0.0	0.0	0.7	30.4	15.9	—	16.6
Clear at 10 <sup>h</sup> and 11 <sup>h</sup> ; clouded from 18 <sup>h</sup> to 20 <sup>h</sup> ; solar halo at 22 <sup>h</sup> , diam. about 40°	0.7	0.4	1.0	0.8	40.4	30.2	—	24.4
Clouded from 2 <sup>h</sup> to 7 <sup>h</sup> and from 12 <sup>h</sup> to 13 <sup>h</sup> ; remainder of day almost clear	1.0	0.8	0.1	0.0	44.4	32.2	—	26.9



Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Tem. Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
<b>FEBRUARY.</b>									
22	Generally clear; lunar halo at 7 <sup>h</sup> , 8 <sup>h</sup> , and 9 <sup>h</sup> , diam. about 45°; clouded from 11 <sup>h</sup> - - - - -	0·0	0·1	0·4	1·0	41·9	28·5	—	20·1
23	Snowing from 0 <sup>h</sup> to 11 <sup>h</sup> - - - - -	1·0	1·0	0·0	0·0	47·9	27·2	—	22·6
24	Generally clear to 15 <sup>h</sup> - - - - -	0·1	0·0	—	0·0	33·4	8·6	—	4·8
25	Clouded; cir.-cum. and haze - - - - -	0·8	—	0·5	0·5	25·2	10·1	—	3·8
26	Partially clouded to 1 <sup>h</sup> ; remainder of day cir.-cum., cir.-strat., and haze; rain from 5 <sup>h</sup> to 12 <sup>h</sup> ; clouded to 21 <sup>h</sup> - - - - -	1·0	1·0	1·0	0·9	32·9	20·7	0·42	14·6
27	Cir.-cum., cum.-strat., and haze; remainder of day clear - - - - -	0·1	0·0	0·0	0·0	41·9	30·7	—	30·4
28	Clouded with cir.-cum. and cir.-strat.; lunar halo from 5 <sup>h</sup> to 9 <sup>h</sup> ; magnetic disturbance; rain at 19 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	35·4	22·5	—	13·6
29	Rain continued from last observation to 1 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	36·9	29·7	0·02	22·9
<b>MARCH.</b>									
1	Drizzling rain to 3 <sup>h</sup> ; clouded to 7 <sup>h</sup> ; afterwards clear - - - - -	1·0	1·0	1·0	1·0	42·9	35·2	0·05	31·4
2	Nearly clear; auroral light in N. from 10 <sup>h</sup> to 11 <sup>h</sup> - - - - -	0·6	0·1	—	—	49·8	35·2	—	—
3	Clouded all day; snowing; cleared up at 17 <sup>h</sup> - - - - -	—	—	1·0	0·0	41·4	22·3	—	18·1
4	Generally clear - - - - -	0·0	0·0	0·1	0·0	32·4	15·9	—	12·6
5	Clouded with cir.-strat. and cum.-strat.; clear at 17 <sup>h</sup> ; solar halo at 23 <sup>h</sup> , diam. 45° - - - - -	0·6	1·0	1·0	0·5	26·7	9·6	—	2·8
6	Solar halo at 1 <sup>h</sup> , diam. 30°; haze from 6 <sup>h</sup> to 15 <sup>h</sup> - - - - -	0·9	1·0	1·0	1·0	38·5	21·7	—	17·1
7	Cir. and haze; auroral light from 9 <sup>h</sup> to 11 <sup>h</sup> ; rain at 23 <sup>h</sup> - - - - -	0·5	0·0	0·0	1·0	39·9	28·7	—	22·4
8	Rain from 0 <sup>h</sup> to 3 <sup>h</sup> - - - - -	1·0	1·0	1·0	0·5	45·4	29·2	0·35	22·4
9	Clouded with detached cir.-cum; cloudless at 8 <sup>h</sup> , 9 <sup>h</sup> , and 10 <sup>h</sup> ; auroral light in N. at 11 <sup>h</sup> - - - - -	0·9	0·0	—	—	43·4	29·7	—	26·4
10	Generally cloudless - - - - -	—	—	0·1	0·0	36·4	22·7	—	11·8
11	In general clear to 7 <sup>h</sup> ; afterwards clouded; slight rain at 20 <sup>h</sup> - - - - -	0·0	1·0	1·0	1·0	44·9	28·7	—	20·6
12	Rain; densely overcast - - - - -	1·0	1·0	1·0	1·0	50·8	35·2	0·73	32·4
13	Clouded; cum.-strat., cir.-cum., and haze; clear from 9 <sup>h</sup> to 14 <sup>h</sup> ; clouded at 22 <sup>h</sup> - - - - -	1·0	0·2	0·5	1·0	45·1	38·7	—	38·1
14	Clouded with light cir.; snow at 19 <sup>h</sup> - - - - -	0·3	0·1	0·8	1·0	47·4	28·2	—	22·4
15	Snow from 0 <sup>h</sup> to 3 <sup>h</sup> ; thence rain, which continued throughout the day - - - - -	1·0	1·0	1·0	1·0	35·7	27·7	0·29	18·6
16	Rain continues; from 4 <sup>h</sup> to 21 <sup>h</sup> clear - - - - -	1·0	0·0	—	—	36·4	30·2	0·08	30·4
17	Generally clouded; slight rain from 4 <sup>h</sup> to 8 <sup>h</sup> - - - - -	—	—	1·0	1·0	39·4	24·7	0·25	13·6
18	Clouded all day; cir.-cum. and cir.-strat.; snow from 19 <sup>h</sup> to 20 <sup>h</sup> - - - - -	1·0	1·0	0·8	1·0	42·4	16·4	—	13·6
19	Clouded all day; cir.-cum. and haze; snow from 3 <sup>h</sup> to 18 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	22·7	13·9	—	7·8
20	Snow from 0 <sup>h</sup> to 11 <sup>h</sup> - - - - -	1·0	1·0	0·0	0·1	34·9	22·2	—	22·6
21	Clouded, with cir.-cum. and cum.-strat. to 18 <sup>h</sup> - - - - -	0·2	1·0	1·0	1·0	31·4	13·6	—	3·6
22	Clouded from 0 <sup>h</sup> to 3 <sup>h</sup> ; cir.-cum. and cum.-strat.; snow from 18 <sup>h</sup> to 21 <sup>h</sup> - - - - -	1·0	0·1	0·0	0·0	30·2	22·2	—	—
23	Cloudless; clouded at 21 <sup>h</sup> - - - - -	0·0	0·1	—	—	34·4	19·9	—	13·6
24	Clear; clouded from 15 <sup>h</sup> to 17 <sup>h</sup> with cir.-cum. and haze - - - - -	—	—	0·0	0·5	38·4	22·2	—	11·8
25	Clear patches; overcast; cir.-cum. and haze - - - - -	0·1	0·1	1·0	1·0	46·4	36·2	—	28·4
26	Rain from 8 <sup>h</sup> to 17 <sup>h</sup> ; clouded; cir.-cum. and haze - - - - -	1·0	1·0	1·0	1·0	50·8	30·2	0·12	22·4
27	Clouded; cir.-strat. and haze; rain from 11 <sup>h</sup> to 20 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	50·8	31·2	0·26	31·4
28	Rain from last observation to 5 <sup>h</sup> ; slight snow from 14 <sup>h</sup> to 16 <sup>h</sup> - - - - -	1·0	1·0	1·0	0·4	40·9	30·7	0·36	31·4
29	Clouded; cir.-cum., cir.-strat., and haze; constant snow from 12 <sup>h</sup> to 17 <sup>h</sup> ; clouded at 18 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	45·9	22·7	—	19·6
30	Clouded from 0 <sup>h</sup> to 4 <sup>h</sup> ; clear; snow from 18 <sup>h</sup> to 23 <sup>h</sup> - - - - -	0·7	0·1	—	—	34·4	19·7	—	19·8
31	Snow from 0 <sup>h</sup> to 2 <sup>h</sup> ; generally clear to 18 <sup>h</sup> - - - - -	—	—	0·3	0·0	27·9	10·9	—	7·8
<b>APRIL.</b>									
1	Clear from 0 <sup>h</sup> to 4 <sup>h</sup> ; remainder of the day cloudy; lunar halo at 9 <sup>h</sup> - - - - -	0·0	0·5	1·0	0·5	33·9	14·9	—	9·8
2	Partially clouded from 0 <sup>h</sup> to 5 <sup>h</sup> ; clouded; cir.-strat. and cir.-cum. - - - - -	0·3	1·0	1·0	0·5	40·4	31·2	—	23·4
3	Partially clouded to 11 <sup>h</sup> ; clouded; cir., cir.-strat., and cir.-cum. - - - - -	0·4	0·3	1·0	1·0	49·8	35·7	—	31·4
4	Clouded all day; cir.-cum. and cir.-strat.; dropping rain occasionally; sheet lightning in N.W. at 10 <sup>h</sup> - - - - -	1·0	1·0	—	—	69·0	43·7	—	35·1
5	Clouded all day, except at 3 <sup>h</sup> and 12 <sup>h</sup> , then with cir.-strat. and cir.-cum. - - - - -	—	—	1·0	1·0	64·5	41·7	—	28·4
6	Clouded all day; cir. and haze; rain fell between 20 <sup>h</sup> and 22 <sup>h</sup> - - - - -	1·0	0·2	—	—	47·4	34·7	0·18	26·4
7	Clouded to 3 <sup>h</sup> with cir.-cum. and haze; afterwards mostly clear; sheet lightning in N. and N.W. at 12 <sup>h</sup> - - - - -	—	—	0·0	1·0	44·4	37·2	—	36·6
8	Clouded to 6 <sup>h</sup> ; cir.-cum. and cum.; rain at 22 <sup>h</sup> ; thunder in W.; sheet lightning alternately - - - - -	0·8	0·8	0·1	0·0	55·3	34·7	0·16	30·4
9	Quite clear, except haze on horizon - - - - -	0·0	0·0	0·0	0·0	69·8	41·2	—	32·1
10	Mostly clear all day - - - - -	0·0	0·1	0·0	1·0	62·0	35·2	—	28·4
11	Overcast to 8 <sup>h</sup> with cir.-strat. and haze; afterwards clear - - - - -	0·8	0·5	0·0	0·0	68·0	38·7	—	32·1
12	Clear all day - - - - -	0·0	0·0	0·0	0·0	65·5	41·2	—	35·6
13	Clear all day - - - - -	0·0	0·0	—	—	70·3	43·2	—	36·6

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Terr. Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
APRIL.									
14	Forenoon clear; afterwards clouded; rain from 15 <sup>h</sup> to 17 <sup>h</sup>	—	—	1.0	1.0	72.8	45.7	0.14	29.9
15	Clouded all day; cir.-cum. and haze; dropping rain occasionally	1.0	0.6	1.0	1.0	73.0	54.5	0.02	52.0
16	Clouded; cir.-cum. and cir.-strat.; auroral light; rain from 14 <sup>h</sup> to 16 <sup>h</sup>	1.0	1.0	1.0	0.9	62.0	44.2	0.09	42.0
17	Clear; auroral light at 8 <sup>h</sup> ; frost	0.1	0.0	0.0	0.0	61.5	37.7	—	33.6
18	Quite clear; frost at 17 <sup>h</sup>	0.0	0.0	0.0	0.0	50.5	30.7	—	23.4
19	Clear, with little exception, all day	0.0	0.1	0.0	0.0	49.3	28.2	—	20.6
20	The same to 21 <sup>h</sup> , then clouded	0.1	0.1	—	—	58.7	33.7	—	28.4
21	Clouded, with cir.-cum., cir.-strat., and haze	—	—	1.0	1.0	60.0	37.7	—	29.4
22	Clouded, cir.-strat. and haze; rain at intervals	1.0	1.0	1.0	1.0	62.2	49.7	0.12	47.0
23	Clouded; thunder-storms and rain from 3 <sup>h</sup> to 4 <sup>h</sup> , at 10 <sup>h</sup> 10 <sup>m</sup> to 10 <sup>h</sup> 50 <sup>m</sup> ; 12 <sup>h</sup> and 15 <sup>h</sup> ; sheet lightning in N.W., N., and N.E.	1.0	0.0	0.8	0.5	53.8	45.5	0.39	42.1
24	Clouded from 5 <sup>h</sup> to 11 <sup>h</sup> ; cir.-cum. and cum.-strat.; clear from 12 <sup>h</sup> to 21 <sup>h</sup>	0.5	0.1	0.0	0.0	68.0	48.5	—	—
25	Clouded; cir.-strat., and haze; solar halo at 1 <sup>h</sup> ; diam. about 35°; rain from 18 <sup>h</sup> to 23 <sup>h</sup>	1.0	1.0	1.0	1.0	74.6	38.7	0.32	—
26	Rain from 0 <sup>h</sup> to 10 <sup>h</sup> ; clouded; cir.-cum. and haze	0.1	0.1	0.7	0.7	60.5	45.2	0.11	—
27	Partially clear to 2 <sup>h</sup> ; cir.-cum. and haze generally; afterwards clear	0.2	0.0	—	—	49.4	34.2	—	—
28	Mostly clear all day	—	—	0.0	0.0	48.4	27.7	—	—
29	Clear all day with little exception; lunar halo at 11 <sup>h</sup> , 12 <sup>h</sup> , and 15 <sup>h</sup>	0.0	0.0	0.4	1.0	58.3	34.7	—	—
30	Clouded; cir.-cum. and cir.-strat.; solar halo at 19 <sup>h</sup> and 20 <sup>h</sup> ; diam. about 45°; disappeared at 22 <sup>h</sup>	0.8	0.7	1.0	1.0	65.5	35.2	—	—
MAY.									
1	Clouded all day with cir.-cum. and haze; rain from 9 <sup>h</sup> to 12 <sup>h</sup> ; sheet lightning at 1 <sup>h</sup>	1.0	1.0	1.0	0.0	66.5	49.7	0.32	—
2	Clear from 0 <sup>h</sup> to 2 <sup>h</sup> ; clouded; heavy rain and thunder from 8 <sup>h</sup> to 12 <sup>h</sup>	0.3	1.0	0.4	1.0	68.5	50.5	0.28	—
3	Clouded, cir.-cum. and cum.-strat.; thunder at intervals; heavy thunder-storm at 9 <sup>h</sup> ; rain	1.0	1.0	0.1	1.0	72.8	47.7	0.39	—
4	Clouded all day; cum. and cir.-cum.; showers of rain	1.0	1.0	—	—	70.6	45.5	0.05	—
5	Morning clear; remainder of day clouded; cum. and cir.-cum.; rain from 20 <sup>h</sup> to 22 <sup>h</sup>	—	—	0.9	1.0	58.8	45.7	0.20	—
6	Rain from 4 <sup>h</sup> to 13 <sup>h</sup>	0.9	0.8	0.9	0.8	65.0	46.2	0.33	—
7	Clouded, cir.-cum. and haze; auroral light in N. at 10 <sup>h</sup> ; clouded at 22 <sup>h</sup>	0.1	0.0	1.0	1.0	58.3	45.9	—	—
8	Partially clouded till 5 <sup>h</sup> ; clear; auroral light in N. at 9 <sup>h</sup>	0.4	0.0	0.0	0.0	72.3	48.2	—	—
9	Generally clear; frost in the morning; solar halo at 19 <sup>h</sup> , diam. 30°	0.3	0.0	0.0	1.0	69.0	42.7	—	—
10	Rain, thunder, and lightning from 12 <sup>h</sup> to 19 <sup>h</sup>	1.0	1.0	1.0	1.0	64.5	32.7	1.19	—
11	Clouded; cir.-cum., cum.-strat., and cir.-strat.; heavy thunder-storm at 6 <sup>h</sup> ; rain	1.0	0.7	—	—	59.8	44.2	0.73	—
12	Clouded; frosty morning; afternoon clear	—	—	0.0	1.0	75.8	47.7	—	—
13	Clouded all day; cir.-cum. and haze; slight rain from 5 <sup>h</sup> to 17 <sup>h</sup>	1.0	1.0	1.0	1.0	57.8	33.7	0.19	—
14	Clouded to 2 <sup>h</sup> ; cir.-cum. and cum.-strat.; clear, and auroral light in N. from 9 <sup>h</sup> to 11 <sup>h</sup>	0.5	0.0	0.1	0.0	51.8	39.7	—	—
15	Mostly clear till 6 <sup>h</sup> ; densely clouded; cir.-cum. and cum.-strat.; rain from 13 <sup>h</sup> to 17 <sup>h</sup>	0.3	1.0	1.0	1.0	64.5	38.7	0.24	—
16	Clouded all day; cir.-strat. and haze; solar halo at 0 <sup>h</sup> ; diam. about 30°; slight rain from 6 <sup>h</sup> to 16 <sup>h</sup>	1.0	1.0	1.0	1.0	68.3	49.2	0.06	—
17	Clouded all day; cir.-cum. and cir.-strat.; slight rain from 10 <sup>h</sup> to 15 <sup>h</sup>	1.0	1.0	1.0	0.1	64.9	49.2	0.05	—
18	Clouded from 0 <sup>h</sup> to 4 <sup>h</sup> ; cir.-cum. and cum.-strat.; slight showers of rain	0.8	0.0	—	—	62.5	47.2	0.04	—
19	Clear in the morning; remainder of day clouded; cir.-cum. and cir.-strat.	—	—	1.0	1.0	61.0	37.2	—	—
20	Generally clouded; cir.-cum. and cir.-strat.; frost at 17 <sup>h</sup> ; slight rain	1.0	1.0	0.0	0.6	57.6	44.7	—	—
21	Clear	0.1	0.0	0.0	0.0	66.0	33.2	—	—
22	Clear all day; auroral light in N. from 11 <sup>h</sup> to 4 <sup>h</sup>	0.0	0.0	0.0	0.0	54.8	28.7	—	—
23	Generally clear all day	0.0	0.4	0.0	0.1	60.5	36.2	—	—
24	Generally clear to 15 <sup>h</sup> , thence clouded with cir.-cum. and haze	0.6	0.0	1.0	1.0	69.8	45.3	—	—
25	Generally clouded; cir.-cum. and haze; forked and sheet lightning at 9 <sup>h</sup> and 10 <sup>h</sup>	1.0	0.9	—	—	72.8	53.5	—	—
26	Mostly clouded; cir.-cum. and haze; clear at 18 <sup>h</sup> , 19 <sup>h</sup> , and 21 <sup>h</sup>	—	—	0.4	0.0	78.4	59.0	—	—
27	Clouded; cir.-cum. and cir.-strat.; showers of rain accompanied by thunder and lightning from 6 <sup>h</sup> to 12 <sup>h</sup>	—	0.8	0.6	0.3	73.8	54.5	0.13	—
28	Clear from 9 <sup>h</sup> to 13 <sup>h</sup> ; thence clouded; cir.-cum., cir.-strat., and haze	0.5	0.0	1.0	0.0	72.8	51.5	—	—
29	Clear till 9 <sup>h</sup> ; clouded cir. and haze; rain from 16 <sup>h</sup> to 17 <sup>h</sup>	0.0	0.5	1.0	1.0	73.0	46.3	0.95	—
30	Clouded; cir.-cum. and haze; rain with sheet lightning and distant thunder	1.0	1.0	1.0	1.0	67.5	51.0	0.55	—
31	Clouded to 5 <sup>h</sup> ; remainder of day nearly clear	0.5	0.0	0.4	0.9	68.2	51.5	—	—
JUNE.									
1	Clouded all day; cir.-cum. and haze; rain, thunder, and lightning from 8 <sup>h</sup> to 9 <sup>h</sup>	1.0	1.0	—	—	66.3	42.5	0.51	—
2	Generally clouded; cir.-cum. and haze	—	—	1.0	0.2	70.4	50.7	—	—
3	Generally clear; except cir. and haze round horizon	0.1	0.0	0.0	0.1	62.0	54.9	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Terr. Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
JUNE.									
4	Generally clear till 10 <sup>h</sup> , thence clouded, cir.-strat., cir.-cum., and haze -	0·0	0·4	1·0	1·0	65·1	41·2	In.	°
5	Clouded; cir.-cum., cum.-strat., and cir.-strat.; rain, thunder, and lightning from 4 <sup>h</sup> to 7 <sup>h</sup> ; rain from 12 <sup>h</sup> to 17 <sup>h</sup> -	0·8	0·3	1·0	0·9	67·5	48·7	0·61	—
6	Clouded; cir.-cum., cir.-strat., and haze; clear at 9 <sup>h</sup> , 11 <sup>h</sup> , 12 <sup>h</sup> , and 13 <sup>h</sup> ; rain -	1·0	0·3	1·0	0·9	72·4	57·1	0·05	—
7	Clouded to 2 <sup>h</sup> ; cir.-strat. and haze; clear; grass white with frost at 17 <sup>h</sup> -	0·2	0·0	0·0	0·0	73·8	51·0	—	—
8	Clear to 4 <sup>h</sup> ; thence clouded; cir.-strat., cir., and haze.; rain -	0·0	1·0	—	—	73·8	33·2	0·05	—
9	A clear day generally -	—	—	0·3	0·2	65·5	49·2	—	—
10	Generally clear -	0·1	0·0	0·0	0·0	67·1	41·2	—	—
11	Solar halo at 21 <sup>h</sup> , 22 <sup>h</sup> , and 23 <sup>h</sup> -	0·0	0·2	0·0	0·7	59·6	34·5	—	—
12	Clear from 9 <sup>h</sup> to 14 <sup>h</sup> ; clouded from 15 <sup>h</sup> to 17 <sup>h</sup> ; cir. and haze; solar halo at 1 <sup>h</sup> and 2 <sup>h</sup> -	0·7	0·1	1·0	1·0	68·0	41·7	—	—
13	Clouded to 5 <sup>h</sup> ; cir.-cum. and haze, thence clear -	1·0	0·0	0·1	0·0	66·3	46·2	—	—
14	Clear to 4 <sup>h</sup> ; clouded from 5 <sup>h</sup> to 10 <sup>h</sup> ; cir. and haze; clear at 14 <sup>h</sup> and 15 <sup>h</sup> ; solar halo at 21 <sup>h</sup> -	0·0	1·0	0·0	1·0	70·8	44·2	—	—
15	Clouded to 7 <sup>h</sup> ; cir. and haze; thence clear; solar halo at 1 <sup>h</sup> , diam. 30° -	1·0	0·0	—	—	74·3	50·2	—	—
16	Clouded; cir.-cum., cir.-strat., and haze; rain from 16 <sup>h</sup> to 17 <sup>h</sup> -	—	—	1·0	1·0	72·3	49·2	0·09	—
17	Clouded; cir.-cum. and haze; rain at 0 <sup>h</sup> ; sheet lightning at 11 <sup>h</sup> and 12 <sup>h</sup> -	1·0	1·0	0·5	0·8	72·0	57·5	—	—
18	Clouded; cum.-strat., cum., and cir.-cum.; a few clear spaces, rain at 3 <sup>h</sup> , 22 <sup>h</sup> , and 23 <sup>h</sup> -	0·3	0·3	1·0	1·0	76·8	60·0	1·03	—
19	Rain; thence mostly clear; clouded at 23 <sup>h</sup> -	0·9	0·0	0·2	0·0	83·3	62·0	—	—
20	Clouded from 0 <sup>h</sup> to 7 <sup>h</sup> ; cum., cir.-cum., and haze; thence clear; auroral light in N. from 11 <sup>h</sup> to 14 <sup>h</sup> -	1·0	0·0	0·2	0·8	78·8	58·5	—	—
21	Generally clear, cir.-strat. and cir.-cum. on horizon -	0·4	0·1	0·2	1·0	73·7	50·6	—	—
22	Solar halo at 3 <sup>h</sup> , diam. 30°; clouded to 8 <sup>h</sup> ; cir.-cum., cir.-strat., and haze -	1·0	0·0	—	—	71·6	52·5	—	—
23	Generally clear; at 16 <sup>h</sup> and 17 <sup>h</sup> clouded with cir.-cum., cir.-strat., and haze -	—	—	0·1	0·4	71·8	48·7	—	—
24	Clouded; cir.-cum., cum.-strat., and haze; slight rain at 7 <sup>h</sup> -	0·9	1·0	1·0	1·0	70·8	52·0	0·03	—
25	Clouded all day; cir.-cum., and haze; clearer from 5 <sup>h</sup> to 9 <sup>h</sup> -	1·0	0·8	1·0	1·0	77·3	61·0	—	—
26	Densely clouded all day, cir.-cum., cum.-strat., and haze; drizzling rain -	1·0	1·0	1·0	1·0	81·6	61·6	0·40	—
27	Densely clouded; cir.-cum. and haze; rain from 0 <sup>h</sup> to 6 <sup>h</sup> , clear at 20 <sup>h</sup> -	1·0	1·0	1·0	0·9	71·2	58·8	0·74	—
28	Partially clear to 7 <sup>h</sup> ; thence clear to 19 <sup>h</sup> ; clouded -	0·6	0·0	0·3	0·0	65·3	57·5	—	—
29	Clear to 6 <sup>h</sup> ; thence clouded, cir.-cum., cum.-strat., and haze -	0·1	1·0	—	—	72·3	46·2	—	—
30	Clouded; cir.-cum. and haze; slight rain at 12 <sup>h</sup> , 14 <sup>h</sup> , and 15 <sup>h</sup> -	—	—	1·0	0·7	75·3	53·5	0·03	—
JULY.									
1	Cloudy to 1 <sup>h</sup> ; cum. and cir.-cum., thence clear; rain -	0·2	0·0	0·0	0·1	79·8	63·0	0·09	—
2	Rainbow at 7 <sup>h</sup> ; clouded, cir.-cum., cir.-strat., and haze -	0·9	1·0	0·8	0·1	84·9	51·9	—	—
3	Clear generally -	0·2	0·0	0·0	0·0	79·6	56·0	—	—
4	Clear day with the exception of light cir. from 12 <sup>h</sup> to 17 <sup>h</sup> -	0·0	0·0	0·4	1·0	71·5	40·1	—	—
5	Clouded all day; cir.-cum., cir.-strat., and haze; slight rain from 0 <sup>h</sup> to 5 <sup>h</sup> -	1·0	1·0	1·0	0·1	71·0	42·7	0·03	—
6	Generally clear; a few light clouds in horizon -	0·0	0·0	—	—	76·4	58·7	—	—
7	Clear -	—	—	0·0	0·3	81·8	52·0	—	—
8	Generally clear; faint auroral light at 11 <sup>h</sup> and 12 <sup>h</sup> -	0·0	0·0	0·0	0·3	75·6	44·9	—	—
9	Clouded; storm of rain, thunder, and lightning, from 10 <sup>h</sup> to 15 <sup>h</sup> -	1·0	0·5	0·9	0·6	77·5	53·9	0·09	—
10	Cloudy; cir.-cum., cum., and haze; at intervals a few clear spots -	0·7	1·0	0·4	0·0	79·8	63·5	—	—
11	Unclouded all day -	0·0	0·0	0·0	0·7	79·8	59·5	—	—
12	Clouded; cum., cir.-cum., and haze; lightning in S.S.W. and S.E., from 11 <sup>h</sup> to 15 <sup>h</sup> ; rain at 19 <sup>h</sup> -	0·0	0·3	0·7	0·7	80·4	50·9	0·06	—
13	Clouded; cir.-cum. and cir.-strat.; sheet lightning at 10 <sup>h</sup> and 11 <sup>h</sup> -	0·5	0·3	—	—	82·0	60·6	—	—
14	Clouded; cir.-cum., cum.-strat., and cir.-strat. -	—	—	0·8	0·9	79·3	57·9	—	—
15	Clouded; cir. and haze; rain from 8 <sup>h</sup> to 17 <sup>h</sup> -	1·0	1·0	1·0	1·0	86·6	58·1	0·59	—
16	Clouded from 0 <sup>h</sup> to 5 <sup>h</sup> ; cir.-cum. and cum.-strat.; clear from 8 <sup>h</sup> to 13 <sup>h</sup> -	1·0	0·0	0·5	0·0	71·8	59·0	—	—
17	Clear -	0·2	0·0	0·0	0·1	76·8	54·5	—	—
18	Clouded; cir.-cum., cir.-strat., and haze; clear at 13 <sup>h</sup> , 14 <sup>h</sup> , and 15 <sup>h</sup> -	0·4	1·0	0·2	1·0	78·0	49·1	—	—
19	Clouded to 14 <sup>h</sup> ; thence clear -	1·0	0·8	0·2	0·2	76·0	61·5	—	—
20	Clear; at intervals a few cir.-cum. and cum.-strat. -	0·6	0·0	—	—	77·8	55·5	—	—
21	Clear -	—	—	0·0	0·8	78·4	52·9	—	—
22	Clouded; cir.-cum., cum.-strat., and haze; distant thunder in N.W. and N., passing to E.; heavy shower of rain at 7 <sup>h</sup> -	0·8	0·9	1·0	0·2	77·8	52·5	0·32	—
23	Clouded at 4 <sup>h</sup> , 5 <sup>h</sup> , 6 <sup>h</sup> , 15 <sup>h</sup> , 16 <sup>h</sup> , and 17 <sup>h</sup> ; cir.-cum., cum.-strat., and cir.-strat.; slight rain at 17 <sup>h</sup> , 18 <sup>h</sup> , and 21 <sup>h</sup> -	0·9	0·9	1·0	1·0	84·8	63·0	0·14	—
24	Clouded; cir.-cum., cir.-strat., and haze; rain from 9 <sup>h</sup> to 17 <sup>h</sup> -	0·7	1·0	1·0	1·0	78·7	60·8	0·79	—
25	Clouded to 3 <sup>h</sup> ; cir.-cum., and cir.-strat.; thence clear -	1·0	0·2	0·0	1·0	72·6	60·3	—	—
26	Clouded to 1 <sup>h</sup> ; cir., cir.-strat., and haze; thence clear -	0·3	0·0	0·0	0·0	78·4	54·1	—	—
27	Clear -	0·0	0·0	—	—	76·8	50·5	—	—
28	Clear to 12 <sup>h</sup> ; partially clouded; cir.-cum. dispersed -	—	—	0·5	0·0	76·0	49·0	—	—
29	Mostly clear to 6 <sup>h</sup> ; clouded; cir.-cum.; rain at 20 <sup>h</sup> -	0·2	0·8	1·0	1·0	78·8	54·5	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Terr. Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
<b>JULY.</b>									
30	Clouded; cir.-strat. and cir.-cum; rain 0 <sup>h</sup> to 6 <sup>h</sup> ; sheet lightning at 11 <sup>h</sup> , 12 <sup>h</sup> , 13 <sup>h</sup> , 14 <sup>h</sup> , and 15 <sup>h</sup> , in W. and S.W.	1.0	1.0	0.8	0.5	82.6	62.0	0.58	—
31	Clear and clouded alternately; thunder-storm and rain at 8 <sup>h</sup> ; sheet lightning in S. and S.W. from 11 <sup>h</sup> to 13 <sup>h</sup>	0.9	1.0	0.4	0.0	80.0	66.7	0.14	—
<b>AUGUST.</b>									
1	Generally clear; a few light cir.-cum. and cum.-strat.	0.4	0.1	0.5	0.4	86.8	56.0	— <sup>a</sup>	—
2	Clear from 6 <sup>h</sup> to 14 <sup>h</sup> ; lunar halo at 15 <sup>h</sup> diam. about 30°	0.6	0.0	0.6	1.0	86.0	54.3	—	—
3	Clouded; cir.-cum. and cir.-strat.; rain from 4 <sup>h</sup> to 9 <sup>h</sup>	0.9	0.7	—	—	78.7	51.5	—	—
4	Clear	—	—	0.7	0.0	75.8	56.0	—	—
5	Clouded; dense haze; rain from 9 <sup>h</sup> to 16 <sup>h</sup>	1.0	1.0	1.0	0.3	73.6	55.9	—	—
6	Clouded; cir.-cum. and cir.-strat.; heavy rain at 23 <sup>h</sup>	0.6	0.0	0.0	0.0	75.0	60.0	—	—
7	Clouded; cum., cir.-cum., and cum.-strat.; rain from 12 <sup>h</sup> to 17 <sup>h</sup>	1.0	1.0	1.0	1.0	75.4	49.4	—	—
8	Clouded; cir.-cum., cir.-strat., and haze	0.7	0.7	1.0	1.0	77.8	62.0	—	—
9	Clouded; cir.-cum., cum.-strat., and cir.-strat.; heavy shower of rain at 6 <sup>h</sup> ; rainbow; auroral light in N. at night	1.0	0.8	0.3	0.3	80.0	65.6	—	—
10	Clear and clouded alternately	0.6	0.0	—	—	79.3	58.0	—	—
11	Generally clear	—	—	0.0	0.0	74.8	48.2	—	—
12	The same	0.4	0.0	0.0	0.7	72.4	43.5	—	—
13	Clouded; cir. and haze; rain from 14 <sup>h</sup> to 16 <sup>h</sup> ; solar halo at 23 <sup>h</sup> , diam. about 30°	1.0	0.4	1.0	1.0	71.2	47.7	0.08	—
14	Clear from 7 <sup>h</sup> to 15 <sup>h</sup> ; cir.-strat., cir.-cum., and haze	0.4	0.0	0.0	0.8	70.3	58.5	—	—
15	Clear at 4 <sup>h</sup> , and from 9 <sup>h</sup> to 15 <sup>h</sup> ; clouded; cir.-cum., cir.-strat., and haze	0.4	0.0	0.0	0.9	74.4	58.3	—	—
16	Clouded; lightning and distant thunder in N.N.W. and N.E. from 8 <sup>h</sup> to 12 <sup>h</sup> ; rain; clear from 13 <sup>h</sup> to 16 <sup>h</sup>	0.6	0.7	0.0	0.2	77.8	58.9	0.17	—
17	Clouded from 0 <sup>h</sup> to 8 <sup>h</sup> ; cir., cir.-strat., and haze	1.0	0.1	—	—	81.8	61.8	—	—
18	Clouded; cir., cir.-strat., and haze; rain from 9 <sup>h</sup> to 15 <sup>h</sup>	—	—	1.0	1.0	78.3	53.5	0.61	—
19	A few drops of rain at 5 <sup>h</sup> ; clouded with cir.-cum. and cum.-strat.	0.8	0.0	0.7	1.0	74.8	61.8	0.18	—
20	Clouded to 4 <sup>h</sup> ; cir.-cum., cum.-strat., and haze	0.8	0.1	0.0	0.0	80.8	63.0	—	—
21	Clear to 14 <sup>h</sup> ; thence cloudy; rain at 20 <sup>h</sup> , 22 <sup>h</sup> , and 23 <sup>h</sup>	0.1	0.0	0.5	1.0	72.0	53.9	0.34	—
22	Rain at 0 <sup>h</sup> ; again from 9 <sup>h</sup> to 12 <sup>h</sup> ; clouded	0.7	1.0	0.1	1.0	67.5	57.2	0.28	—
23	Clear from 7 <sup>h</sup> to 17 <sup>h</sup> ; clouded; cir.-cum. and cir.-strat.	0.4	0.0	0.0	0.1	76.6	60.5	—	—
24	Clouded from 0 <sup>h</sup> to 8 <sup>h</sup> , cum.-strat., cir.-cum., and cir.-strat.; rain at 5 <sup>h</sup>	0.9	0.3	—	—	73.2	47.5	0.03	—
25	Clouded to 12 <sup>h</sup> ; thence nearly clear	—	—	0.4	1.0	71.8	53.0	—	—
26	Clouded; cir.-cum., cum., and haze; rain at intervals; solar halo at 22 <sup>h</sup> , diam. about 40°	1.0	1.0	1.0	0.9	68.5	45.7	0.03	—
27	Clouded; cir.-cum., cir.-strat., and haze; showers; sheet lightning at 12 <sup>h</sup>	0.7	0.1	0.9	1.0	67.1	54.7	0.22	—
28	Clouded; cum., cir.-cum.-strat. and cir.-strat.; showery	0.6	0.4	0.0	0.6	66.5	50.3	0.03	—
29	Generally clouded to 7 <sup>h</sup> , detached cir.-cum., and cum.-strat.; auroral light at 9 <sup>h</sup>	0.6	0.1	0.7	1.0	67.9	55.2	—	—
30	Clouded; cir.-cum., and cum.-strat.; rain from 2 <sup>h</sup> to 14 <sup>h</sup>	0.9	1.0	1.0	0.6	72.8	48.2	0.04	—
31	Clouded; till 3 <sup>h</sup> , cir.-cum. and cum.-strat.; thence clear	0.7	0.0	—	—	71.4	61.2	—	—
<b>SEPTEMBER.</b>									
1	Densely clouded all day, with cir.-cum. and cir.-strat.	—	—	1.0	1.0	77.8	54.7	—	—
2	Clouded to 6 <sup>h</sup> ; cir.-cum. and cum.-strat.; thence clear	0.8	0.0	0.0	0.0	74.6	65.4	—	—
3	Generally clear	0.2	0.0	0.0	0.0	80.8	55.5	—	—
4	Clear to 13 <sup>h</sup> ; thence partially clouded with cir.-cum.	0.0	0.0	0.4	0.0	75.8	49.5	—	—
5	In general clear; lunar halo at 15 <sup>h</sup> , diam. about 45°	0.3	0.0	0.0	0.0	72.0	50.5	—	—
6	Clear; haze on horizon	0.0	0.0	0.0	0.0	67.1	51.1	—	—
7	Generally clear; slight haze on horizon; sheet lightning in N.W. at 9 <sup>h</sup> and 10 <sup>h</sup>	0.3	0.0	—	—	71.3	51.2	—	—
8	Clouded, with cir.-cum., cir.-strat., and haze	—	—	0.7	1.0	70.6	50.8	—	—
9	Clouded; cir.-cum. and haze; clear at 8 <sup>h</sup> ; rain at intervals	0.9	0.9	1.0	1.0	73.8	60.0	0.07	—
10	Clouded from 0 <sup>h</sup> to 7 <sup>h</sup> , with cir.-cum. and cum.-strat.; dense mist rising from the ground	0.5	0.0	1.0	1.0	72.8	57.0	—	—
11	Clouded; cum.-strat. and cir.-strat.; thunder in W., rain at 3 <sup>h</sup>	1.0	0.7	0.7	0.9	74.4	58.5	0.04	—
12	Clouded to 0 <sup>h</sup> , with cir.-cum. and cir.-strat.; thence clear	0.1	0.7	0.0	0.0	72.6	57.2	—	—
13	Clear all the day	0.0	0.0	0.0	0.0	72.8	48.4	—	—
14	Clear all day, with very slight exceptions	0.4	0.0	—	—	71.6	49.4	—	—
15	Clear all the day	—	—	0.0	0.0	76.6	59.2	—	—
16	The same	0.0	0.0	0.0	0.0	77.0	54.8	—	—
17	The same with slight exceptions	0.0	0.0	0.4	0.1	80.8	54.5	—	—
18	Clear all day	0.0	0.0	0.0	0.0	79.4	49.9	—	—
19	Nearly clear all day	0.2	0.0	0.0	0.0	70.8	44.7	—	—
20	Clear till 20 <sup>h</sup> ; clouded at 21 <sup>h</sup>	0.2	0.0	0.2	0.6	78.8	58.3	—	—

<sup>a</sup> Rain gauge out of order.

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Terr. Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
SEPTEMBER.									
21	Clouded from 0 <sup>h</sup> to 3 <sup>h</sup> ; cir.-cum. and haze; thence clear	0·8	0·0	—	—	81·8	61·0	In.	—
22	Partially clouded with cir.-cum. and cum.-strat.	—	—	0·4	0·8	76·3	31·7	—	—
23	Generally clouded; cir.-cum. and cum.-strat. to 18 <sup>h</sup>	1·0	0·9	0·6	1·0	56·0	38·7	—	—
24	Clouded from 0 <sup>h</sup> to 6 <sup>h</sup> , and from 13 <sup>h</sup> to 17 <sup>h</sup> ; cir.-cum., cum.-strat., and haze; thence clear	1·0	0·0	0·7	1·0	56·6	43·2	—	—
25	Clouded; cir.-cum., cir.-strat., and haze; slight rain from 0 <sup>h</sup> to 5 <sup>h</sup>	1·0	0·8	1·0	0·2	60·3	36·9	—	—
26	Partially clouded most of the day; cir.-cum. and cum.-strat.; clear from 14 <sup>h</sup> to 17 <sup>h</sup>	0·8	0·4	0·1	0·3	56·0	38·2	—	—
27	Partially clouded to 10 <sup>h</sup> ; thence clouded cir., cir.-strat., and haze; lunar halo at 14 <sup>h</sup> , diam. about 40°	0·2	0·4	1·0	0·9	55·8	28·2	—	—
28	Clouded with cir.-cum., cum.-strat., and cir.-strat.; rain from 9 <sup>h</sup> to 15 <sup>h</sup>	1·0	1·0	—	—	49·5	33·5	0·12	—
29	Clouded to 2 <sup>h</sup> ; thence generally clear	—	—	0·0	0·7	51·3	41·7	—	—
30	Clear	0·1	0·0	0·0	0·3	57·6	39·3	—	—
OCTOBER.									
1	Mostly clear	0·0	0·2	0·0	1·0	63·0	33·1	—	—
2	In general clouded; cir.-cum., cir., and haze; rain from 10 <sup>h</sup> to 14 <sup>h</sup>	1·0	1·0	0·8	0·0	56·2	38·2	0·20	—
3	Generally clear to 4 <sup>h</sup> ; thence mostly clouded; cir.-cum., cir.-strat., and haze; in N. horizon lightning at 8 <sup>h</sup>	0·2	0·5	0·9	0·8	60·5	43·7	—	—
4	Slight rain and distant thunder at 5 <sup>h</sup> ; clear from 7 <sup>h</sup> to 15 <sup>h</sup> ; thence clouded; cir.-cum., cir.-cum.-strat., and cir.-strat.	0·7	0·0	0·4	1·0	60·3	43·1	—	—
5	Mostly clouded; cir.-cum. and cum.-strat.; slight rain at 22 <sup>h</sup> and 23 <sup>h</sup>	1·0	0·5	—	—	59·9	45·9	—	—
6	Generally clear; clouded at 20 <sup>h</sup>	—	—	0·1	1·0	54·8	39·7	—	—
7	Clouded from 0 <sup>h</sup> to 2 <sup>h</sup> ; cir.-cum. and cum.-strat.; thence quite clear	0·3	0·0	0·0	0·0	55·4	32·4	—	—
8	Clear all day	0·0	0·0	0·0	1·0	47·9	28·0	—	—
9	Clouded till 6 <sup>h</sup> ; light cir. and haze; thence quite clear to 19 <sup>h</sup> , when it was cloudy	1·0	0·0	0·0	1·0	57·4	45·2	—	—
10	Cloudy at 0 <sup>h</sup> ; cir.-strat., cir., and haze; thence clear to 18 <sup>h</sup> , when it became cloudy	0·0	0·0	0·0	0·1	71·6	44·7	—	—
11	Clouded from 0 <sup>h</sup> to 4 <sup>h</sup> ; cir.-cum. dispersed; thence clear	0·2	0·0	0·0	0·3	58·6	37·0	—	—
12	Partially clouded all day, and cir.-cum.	0·2	0·2	—	—	52·6	29·9	—	—
13	Clouded from 12 <sup>h</sup> to 17 <sup>h</sup> ; thence partially clear	—	—	1·0	1·0	52·0	32·1	—	—
14	Densely clouded all day; constant rain till 7 <sup>h</sup> , when it ceased	1·0	1·0	1·0	1·0	57·3	43·4	0·71	—
15	Clouded till 5 <sup>h</sup> ; cum.-strat., cir.-cum., and haze; thence quite clear	1·0	0·0	0·0	0·8	53·0	41·0	—	—
16	Clouded all the day; cir.-cum. and cum.-strat.; slight rain from 20 <sup>h</sup>	1·0	1·0	1·0	1·0	53·6	36·1	—	—
17	Slight rain from 0 <sup>h</sup> to 3 <sup>h</sup> ; clouded cir.-cum., cir.-strat., and haze	1·0	1·0	1·0	1·0	50·6	40·3	0·07	—
18	Generally clouded; drizzling rain from 0 <sup>h</sup> to 11 <sup>h</sup>	1·0	1·0	0·5	0·6	46·1	39·5	0·27	—
19	Mostly clouded till 1 <sup>h</sup> ; cir.-strat. and cir.-cum.; slight snow at 4 <sup>h</sup> , thence clear to 14 <sup>h</sup> , when it became cloudy	0·7	0·0	—	—	55·3	39·7	—	—
20	Clouded; cir. and haze; auroral light in N. at 12 <sup>h</sup> , 13 <sup>h</sup> , and 14 <sup>h</sup>	—	—	0·6	1·0	45·2	28·4	—	—
21	Generally clouded; cir., cir.-cum., and haze; lunar halo at 10 <sup>h</sup> , diam. about 25	1·0	0·6	1·0	1·0	43·9	26·7	—	—
22	Clear	0·2	0·0	0·0	0·0	48·3	33·9	—	—
23	Generally clear; slight cir. and cir.-strat. at intervals	0·5	0·0	0·4	0·2	53·9	34·7	—	—
24	Clear, except slight cir. and cir.-strat. at intervals; lunar halo at 11 <sup>h</sup> , 12 <sup>h</sup> , and 13 <sup>h</sup> ; diam. about 30°	0·0	0·0	0·5	1·0	54·8	34·7	—	—
25	Clear from 7 <sup>h</sup> to 13 <sup>h</sup> ; thence clouded, cum.-strat., and cir.-cum.	0·6	0·0	1·0	1·0	55·8	44·2	—	—
26	Generally clouded; cir.-cum. and cir.-strat.; lunar halo at 9 <sup>h</sup> , and 10 <sup>h</sup> ; diam. about 30°	1·0	0·5	—	—	60·3	33·9	—	—
27	Clouded most of the day; cir.-cum. and haze; snow from 14 <sup>h</sup> to 17 <sup>h</sup>	—	—	1·0	1·0	49·8	31·7	—	—
28	Clouded all the day; cir.-cum. and haze; constant snow to 21 <sup>h</sup>	1·0	1·0	1·0	1·0	40·1	26·9	—	—
29	Clouded; cir.-cum. and haze; snow from 0 <sup>h</sup> to 8 <sup>h</sup> , and from 10 <sup>h</sup> to 16 <sup>h</sup>	1·0	1·0	1·0	1·0	29·9	28·1	—	—
30	Clouded till 8 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; thence clear	1·0	0·1	0·0	0·0	31·7	27·5	—	—
31	Clear all the day	0·1	0·0	0·0	0·7	36·4	15·9	—	—
NOVEMBER.									
1	Clouded; cir., cir.-strat., and haze; rain from 6 <sup>h</sup> to 7 <sup>h</sup>	1·0	1·0	1·0	0·0	43·5	24·1	—	—
2	Clear from 0 <sup>h</sup> to 6 <sup>h</sup> ; thence clouded	0·3	1·0	—	—	43·9	39·3	—	—
3	In general clouded; rain	—	—	1·0	1·0	55·3	36·2	0·77	—
4	Clouded to 5 <sup>h</sup> ; cum.-strat., cir.-cum., and haze; mostly clear	1·0	0·9	0·0	0·3	46·4	38·3	—	—
5	Partially clouded all day; cir.-cum. and cum.-strat. floating about	0·5	0·1	0·5	0·1	46·1	32·5	—	—
6	Generally clear to 4 <sup>h</sup> ; clouded cir.-cum. and cum.-strat.; dispersed	0·1	0·0	0·5	0·5	50·6	32·2	—	—
7	Clear and clouded alternately; cir.-cum. and cum.-strat.; lightning at 9 <sup>h</sup> in N.W. horizon	1·0	0·0	0·1	1·0	49·7	29·9	—	—
8	Clouded to 9 <sup>h</sup> ; cum.-strat. and cir.-cum.; sleet between 2 <sup>h</sup> and 7 <sup>h</sup>	1·0	1·0	0·0	1·0	56·0	28·5	0·04	—
9	Clouded to 2 <sup>h</sup> ; cir.-cum., cum.-strat., and haze; thence mostly clear	0·6	0·0	—	—	50·6	26·2	—	—

Day.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.	Terr. Rad.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .				
NOVEMBER.									
						°	°	In.	°
10	Clouded all day; cir.-cum. and cir.-strat.; rain, thunder, and lightning	—	—	1.0	1.0	44.7	29.9	0.24	—
11	Clouded all day; cir.-cum. and haze; light rain at intervals	1.0	1.0	1.0	1.0	46.1	36.7	0.12	—
12	Clouded; rain at 2 <sup>h</sup> , 3 <sup>h</sup> , 5 <sup>h</sup> , and 9 <sup>h</sup>	1.0	1.0	0.4	0.1	42.9	39.4	0.52	—
13	Partially clouded, cir.-cum. and cum.-strat.; auroral light from 10 <sup>h</sup> to 14 <sup>h</sup> ; clear at 22 <sup>h</sup>	0.9	0.1	0.0	0.0	47.1	34.1	—	—
14	Mostly clouded; cir.-cum. and cum.	0.8	1.0	0.5	0.8	38.7	28.9	—	—
15	Clouded till 6 <sup>h</sup> ; cir.-cum. and haze; auroral light at 15 <sup>h</sup>	1.0	0.0	0.3	1.0	40.7	28.5	—	—
16	Clouded; cir.-cum., cum.-strat., and haze; solar halo at 22 <sup>h</sup> ; diameter 30°	1.0	1.0	—	—	45.4	27.9	—	—
17	Generally clouded; occasional showers during the day	—	—	1.0	0.5	47.8	34.6	0.20	—
18	Mostly clouded; cum.-strat. and cir.-cum.; clear at 20 <sup>h</sup>	0.8	1.0	1.0	0.5	45.9	32.5	—	—
19	Clear at 0 <sup>h</sup> , 2 <sup>h</sup> , 3 <sup>h</sup> , 11 <sup>h</sup> , and 12 <sup>h</sup> ; at other times partially clouded	0.1	0.6	0.4	0.5	36.1	24.3	—	—
20	Mostly clear; a few cir.-cum. and cum.-strat. occasionally	0.2	0.3	0.0	0.8	41.6	26.2	—	—
21	Generally clouded; cir.-cum., cir.-strat., and haze; lunar halo from 7 <sup>h</sup> to 11 <sup>h</sup> ; diameter about 45°	0.4	1.0	1.0	1.0	44.6	27.2	—	—
22	Clouded all the day; cir.-cum., cir.-strat., and haze	0.9	1.0	1.0	1.0	45.2	28.7	—	—
23	In general clouded; cir.-strat., cir.-cum., and haze	0.9	0.8	—	—	44.3	37.3	—	—
24	Clouded; clear from 13 <sup>h</sup> to 17 <sup>h</sup> ; a few flakes of snow	—	—	0.0	0.2	45.4	23.1	—	—
25	Clear till 10 <sup>h</sup> ; thence clouded; cir.-cum. and haze; lunar halo at 11 <sup>h</sup> ; diameter 40°; snow from 16 <sup>h</sup> to 17 <sup>h</sup>	0.2	0.0	1.0	1.0	26.7	18.1	—	—
26	Clouded; cir.-cum. and cum.-strat.; snow from 0 <sup>h</sup> to 6 <sup>h</sup>	1.0	1.0	1.0	0.9	26.3	16.4	—	—
27	Clouded; cir.-cum. and haze; solar halo at 1 <sup>h</sup> and 2 <sup>h</sup> , diameter 30°; snow from 13 <sup>h</sup> to 23 <sup>h</sup>	1.0	1.0	1.0	1.0	29.1	18.4	—	—
28	Clouded all day; snow from 0 <sup>h</sup> to 2 <sup>h</sup>	1.0	1.0	1.0	1.0	24.7	12.1	—	—
29	Clouded all day; cir.-cum. and cum.-strat.; rain at 19 <sup>h</sup>	1.0	1.0	1.0	1.0	24.7	18.9	—	—
30	Clouded all day; dense haze; slight rain from 0 <sup>h</sup> to 11 <sup>h</sup>	1.0	1.0	—	—	34.7	22.9	—	—
DECEMBER.									
1	Mostly clear to 2 <sup>h</sup> ; thence clouded; cir.-cum. and haze	—	—	0.8	0.0	38.9	32.7	—	—
2	Clear at 5 <sup>h</sup> , 7 <sup>h</sup> , 9 <sup>h</sup> , and 13 <sup>h</sup> ; clouded; cum.-strat. and cir.-cum.	0.8	1.0	1.0	0.2	34.1	22.5	—	—
3	Clouded; cir.-cum. and haze; slight rain from 7 <sup>h</sup> to 13 <sup>h</sup>	0.8	0.0	0.9	1.0	37.9	25.4	—	—
4	Clouded; cir.-cum. and haze; slight rain from 1 <sup>h</sup> to 12 <sup>h</sup> and 22 <sup>h</sup>	1.0	1.0	1.0	1.0	36.6	25.9	—	—
5	Clouded all day; cir.-cum., cir.-strat., and haze; rain from 0 <sup>h</sup> to 6 <sup>h</sup> , and from 10 <sup>h</sup> to 17 <sup>h</sup>	1.0	1.0	1.0	1.0	38.4	32.7	—	—
6	Clouded; cum.-strat. and haze; squally, with occasional showers of snow	1.0	1.0	1.0	0.6	36.4	31.7	—	—
7	Clouded till 12 <sup>h</sup> ; cir.-cum. and cum.-strat.; thence quite clear	1.0	1.0	—	—	43.3	33.7	—	—
8	Clear till 10 <sup>h</sup> ; thence clouded, cir.-strat., cir.-cum., and haze	—	—	0.0	0.2	48.5	15.7	—	—
9	Clouded all day, with cir.-cum., cir.-strat., and haze	0.0	0.2	0.6	1.0	29.3	19.7	—	—
10	Clear from 12 <sup>h</sup> to 16 <sup>h</sup> ; thence generally clouded; cir.-cum., cum.-strat., and haze	1.0	1.0	1.0	1.0	35.7	19.9	—	—
11	Generally clouded; cir.-cum. and haze; rain at 19 <sup>h</sup>	1.0	0.3	0.0	1.0	29.7	24.7	—	—
12	Clouded all day; cir.-cum. and haze; rain from 0 <sup>h</sup> to 10 <sup>h</sup>	0.5	1.0	1.0	1.0	34.4	17.9	—	—
13	Generally clouded; cir.-cum., cir.-strat., and haze; auroral light in N. at 16 <sup>h</sup>	1.0	1.0	1.0	0.7	39.1	32.3	—	—
14	Clear from 12 <sup>h</sup> to 14 <sup>h</sup> ; remainder clouded; cir.-cum. and haze	1.0	0.9	—	—	37.7	29.9	—	—
15	Clouded till 16 <sup>h</sup> ; cir.-cum. and haze; snow from 21 <sup>h</sup>	—	—	1.0	1.0	36.3	28.9	—	—
16	Clouded; cir.-cum., cum.-strat., and haze; snow from 7 <sup>h</sup> to 9 <sup>h</sup> ; clear from 13 <sup>h</sup> to 17 <sup>h</sup>	1.0	1.0	1.0	0.5	38.9	21.4	—	—
17	Clouded; chiefly cir.-cum. and haze; snow at 20 <sup>h</sup>	0.8	1.0	0.0	1.0	23.5	14.9	—	—
18	Clouded to 11 <sup>h</sup> ; cir.-strat., cir.-cum., and haze; snow from 0 <sup>h</sup> to 3 <sup>h</sup>	1.0	1.0	1.0	1.0	25.1	1.6	—	—
19	Clouded all day; cir.-cum. and haze	1.0	1.0	0.3	0.8	26.1	2.3	—	—
20	Clouded all day; dense haze; snow from 22 <sup>h</sup>	1.0	1.0	1.0	1.0	25.6	3.0	—	—
21	Clouded all day; dense haze; snow from 0 <sup>h</sup>	1.0	1.0	—	—	28.1	5.9	—	—
22	Generally clouded; slight rain till 3 <sup>h</sup> ; snow from 13 <sup>h</sup> to 17 <sup>h</sup>	—	—	1.0	1.0	33.5	22.9	—	—
23	Clouded; cir.-cum. and haze; slight snow from 3 <sup>h</sup> to 5 <sup>h</sup>	1.0	0.6	1.0	1.0	38.7	31.2	—	—
24	Clouded all day; cir.-cum., cir.-strat., and haze	1.0	1.0	—	—	30.9	21.3	—	—
25	Generally clouded; cir.-cum. and haze	—	—	1.0	0.9	36.1	25.7	—	—
26	Generally clouded; cir., cir.-cum., and haze	1.0	0.4	0.9	0.6	45.1	22.5	—	—
27	Partially clear to 5 <sup>h</sup> ; thence quite clear	1.0	0.0	0.0	0.8	50.6	22.9	—	—
28	Mostly clouded; cir., cir.-strat., and cir.-cum.	1.0	1.0	—	—	28.4	11.7	—	—
29	Clouded all day; cir.-cum. and haze; halo round the moon from 13 <sup>h</sup> to 15 <sup>h</sup> ; diameter about 40°	—	—	1.0	1.0	32.3	9.7	—	—
30	Clouded all day; cir.-cum., cum.-strat., and haze; nearly clear from 7 <sup>h</sup> to 10 <sup>h</sup>	1.0	0.1	1.0	1.0	34.9	19.5	—	—
31	Generally clouded; cum.-strat. and cir.-cum.; clear spaces at intervals	0.5	1.0	1.0	1.0	39.7	22.9	—	—

Rain Gauge out of order.



**TORONTO, 1845.**

---

**MAGNETICAL OBSERVATIONS.**



DECLINATION.													
Angular Value of one Scale Division of the Declinometer = 0'721. Increasing Numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JANUARY.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	119.0	121.0	124.2	124.5	123.4	121.0	117.0	115.0	114.8	115.6	116.0	114.4
	2	118.8	120.0	121.8	121.0	121.8	116.2	115.2	114.6	113.0	113.5	112.0	115.8
	3	116.5	121.0	123.0	122.3	120.8	118.2	114.0	112.2	111.8	112.7	115.0	116.1
	4	117.4	118.6	119.7	120.3	119.8	117.2	114.2	112.3	113.0	114.2	116.8	116.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	117.8	118.2	118.2	119.2	119.0	118.7	117.1	117.5	118.1	117.0	116.1	116.6
	7	118.8	119.1	118.8	118.0	117.1	116.0	111.0	113.7	115.0	115.2	117.0	117.4
	8	118.8	120.0	118.6	117.8	116.0	114.4	115.0	115.6	117.0	118.2	117.6	117.6
	9	120.2	120.0	112.6	104.4	108.3	109.2	108.3	108.8	111.2	106.2	103.7	109.4
	10	119.0	119.4	119.3	115.9	116.1	114.4	114.0	113.3	111.0	116.3	116.0	116.4
	11	118.8	117.8	119.0	117.0	114.7	113.8	112.0	115.0	116.0	117.2	118.3	118.5
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	120.6	120.6	121.3	116.8	116.4	115.0	113.3	113.6	115.0	117.0	118.0	116.7
	14	120.0	122.2	122.0	120.4	117.4	113.0	110.0	109.6	113.1	116.7	118.0	119.5
	15	119.8	121.7	122.0	120.6	117.5	115.4	112.6	113.2	114.2	115.2	116.8	117.0
	16	120.2	120.4	122.1	122.1	116.6	114.0	112.9	112.5	113.2	115.1	117.0	118.0
	17	120.0	119.7	120.8	121.1	118.6	116.3	114.2	112.8	113.6	112.8	115.0	117.6
	18	119.9	121.2	122.9	121.3	119.0	116.8	115.0	114.0	115.4	117.5	117.0	117.5
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	118.0	113.0	108.5	107.0	119.0	118.0	108.4	113.0	111.3	110.6	114.5	117.1
	21	117.6	117.4	119.0	118.4	117.0	114.7	114.2	114.3	116.8	117.8	116.8	116.2
	22	116.5	119.2	120.4	117.7	115.1	114.4	114.3	114.7	114.8	116.2	116.8	116.0
	23	126.2	122.1	121.6	110.0	110.8	106.7	111.4	114.0	111.9	112.4	116.8	118.0
	24	119.4	119.2	121.2	119.2	117.7	113.0	104.1	113.7	107.7	113.2	115.0	127.2
	25	120.2	116.0	113.3	117.8	119.0	112.2	113.0	112.4	114.9	114.9	119.1	117.2
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	115.0	121.0	118.1	117.2	117.4	114.5	113.9	113.7	114.9	116.0	119.2	119.8
	28	118.6	120.0	122.2	121.2	116.8	108.5	102.8	107.7	109.5	105.8	111.0	114.0
	29	119.2	123.3	124.2	121.5	117.4	115.8	112.7	111.0	114.2	107.9	113.7	122.0
	30	119.2	120.8	122.7	121.0	118.1	119.2	110.3	111.0	110.0	117.0	115.0	118.3
31	117.0	120.6	122.2	122.0	119.5	115.4	115.1	114.2	113.7	113.8	117.0	117.8	
Hourly Means	118.98	119.76	119.99	118.45	117.42	114.90	112.44	113.09	113.52	114.30	115.75	117.34	
FEBRUARY.	1	120.4	120.0	120.2	121.8	116.7	114.0	112.4	115.5	113.4	115.6	115.9	117.8
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	118.8	120.0	120.4	120.1	118.9	117.4	115.2	114.5	115.8	117.3	118.2	117.0
	4	122.4	117.9	119.7	118.8	117.0	116.2	115.7	115.0	116.0	116.8	117.8	118.4
	5	120.0	121.0	122.4	117.4	115.8	115.7	107.2	108.4	113.0	114.7	116.6	117.2
	6	127.0	125.2	121.0	118.7	118.1	116.0	114.2	115.0	116.2	118.8	119.6	119.0
	7	121.0	121.4	122.0	120.8	118.3	112.9	112.9	113.8	115.0	118.0	118.0	117.5
	8	123.0	123.3	123.8	122.2	119.3	115.6	113.8	113.8	114.0	116.7	117.8	118.0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	118.8	120.4	121.9	121.0	118.0	113.7	113.2	114.0	114.0	116.4	120.3	119.5
	11	118.9	119.7	121.2	119.4	119.0	116.5	114.0	114.0	114.2	114.8	116.2	117.4
	12	117.0	115.0	118.0	121.3	119.2	116.6	114.0	113.8	114.4	115.5	118.8	118.4
	13	118.6	121.8	123.2	123.1	121.0	118.2	115.8	114.8	114.0	114.8	116.1	116.7
	14	119.1	120.9	121.1	121.8	120.9	118.3	116.1	114.0	114.2	115.1	116.4	117.0
	15	118.2	119.0	120.1	121.1	119.3	117.8	114.0	112.9	114.1	116.2	117.0	117.4
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	118.0	119.8	120.4	120.0	117.2	113.2	109.0	109.0	110.0	115.2	116.2	116.8
	18	119.0	119.6	120.0	120.0	119.4	116.4	114.7	113.2	114.1	116.2	118.0	118.0
	19	117.2	118.0	122.0	119.4	118.2	115.5	116.2	109.9	110.3 <sup>a</sup>	117.3	116.0	116.9
	20	122.2	119.7	119.6	119.6	116.7	116.7 <sup>a</sup>	113.3	112.0	117.7	112.5	113.3	112.0
	21	114.0	119.2	123.0	121.8	121.0	117.1	111.0	108.0	111.1	110.2	118.0	116.0
	22	125.3	122.1	121.0	120.9	119.8	114.4	110.0	110.0	110.2	113.0	115.1	115.4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	121.5	124.2	120.8	122.0	119.0	117.0	111.2	110.6	112.0	111.2	112.0	110.6
	25	116.2	119.4	116.0	110.4	116.2	116.2	116.7	108.2	108.8	110.2	112.9	117.1
	26	119.5	108.1	103.9	115.1	119.2	116.3	112.6	112.0	110.8	113.0	117.0	113.9
	27	121.0	122.2	119.5	121.2	120.0	116.6	113.0	111.8	110.7	112.0	113.4	114.0
	28	119.9	115.9	115.2	121.9	120.3	116.2	112.8	110.0	109.0	111.2	108.9	113.3
Hourly Means	119.87	119.74	119.85	119.99	118.69	116.02	113.29	112.26	113.04	114.70	116.23	116.47	

<sup>a</sup> Four minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'·721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
116·9	118·0	119·9	120·1	124·9	121·8	117·0	116·1	116·0	111·5	116·0	118·0	118·42
116·3	119·3	120·0	119·0	118·9	118·0	117·7	117·8	117·8	118·0	118·2	116·8	117·69
117·0	116·0	116·4	119·8	118·2	118·2	118·2	118·6	119·6	117·0	117·4	116·4	117·35
116·8	117·0	118·2	119·0	119·0	118·8	—	—	—	—	—	—	117·63
—	—	—	—	—	—	118·0	120·4	118·8	118·1	122·0	117·3	—
117·0	117·0	118·0	118·4	117·8	116·6	118·2	118·8	119·1	118·6	118·2	118·1	117·89
118·6	118·7	117·8	117·8	117·2	116·7	116·6	117·0	118·2	119·0	121·2	119·6	117·31
118·0	117·0	117·3	116·2	117·2	117·2	118·9	119·0	120·0	119·2	118·5	119·8	117·70
110·6	111·3	111·5	127·0	84·5	119·7	118·1	118·0	116·0	117·2	118·8	118·7	112·24
119·0	118·7	119·2	117·4	119·7	115·0	111·0	114·3	115·0	118·0	118·4	118·9	116·50
118·2	118·4	118·2	117·4	120·2	119·6	—	—	—	—	—	—	—
—	—	—	—	—	—	114·9 <sup>b</sup>	115·4	118·3	118·7	118·7	118·2	117·26
117·4	118·2	118·4	118·1	117·7	118·5	117·0	117·2	117·0	119·0	114·1	117·0	117·25
119·8	121·5	119·5	120·3	118·6	118·0	114·9	116·8	117·0	116·0	116·3	114·6	117·30
119·3	121·3	120·4	118·9	120·1	118·0	117·9	114·4	116·2	116·8	117·0	118·5	117·70
117·9	120·0	120·6	118·0	118·0	117·6	119·4	127·0	117·8	118·9	120·0	119·8	118·30
118·0	120·2	118·0	122·5	125·0	123·2	118·0	111·5	111·9	119·3	121·3	116·7	117·84
118·2	119·6	119·1	125·2	118·7	119·0	—	—	—	—	—	—	—
—	—	—	—	—	—	126·1	125·2	122·2	123·0	120·4	114·3	119·52
117·3	117·5	118·1	118·0	117·7	118·0	116·1	117·0	117·0	112·9	119·1	118·6	115·24
121·8	117·1	119·5	117·6	120·8	118·5	117·2	117·0	117·8	119·2	118·0	117·2	117·55
121·7	118·1	118·7	117·4	118·0	116·1	117·1	121·3	118·6	121·4	124·5	121·4	117·93
114·0	117·2	120·4	150·4	124·8	119·8	116·6	115·6	114·8	111·7	122·0	123·1	118·01
117·3	117·2	122·2	117·3	115·8	117·2	117·0	120·2	125·3	120·8	125·0	119·2	117·71
117·8	120·3	118·3	118·7	118·0	118·1	—	—	—	—	—	—	—
—	—	—	—	—	—	105·0	121·6	119·2	120·0	119·7	118·2	116·87
118·8	118·0	117·8	116·0	117·2	117·6	117·0	116·7	117·3	118·0	118·4	118·6	117·17
122·2	119·1	129·4	117·4	116·6	117·4	118·6	123·8	127·3	114·3	130·9	118·7	117·24
123·3	119·0	118·2	125·4	115·9	119·6	118·6	116·2	117·3	116·1	119·9	119·0	117·95
118·4	118·6	118·6	118·2	118·4	119·0	118·7	117·7	119·9	120·2	119·8	115·0	117·71
117·7	118·8	121·3	118·0	118·2	117·9	119·0	116·3	118·0	119·5	119·0	120·4	118·02
118·12	118·26	119·07	120·33	117·67	118·34	117·14	118·18	118·27	117·87	119·73	118·23	117·38
117·8	117·9	117·9	123·1	117·1	117·8	—	—	—	—	—	—	117·61
—	—	—	—	—	—	116·2	117·0	117·6	117·2	120·0	119·4	—
116·8	117·0	120·2	118·0	118·4	118·0	118·0	118·8	118·4	119·7	120·2	118·0	118·13
117·6	117·6	117·0	119·2	117·0	116·5	117·1	117·3	118·0	118·6	119·0	120·0	117·77
116·7	117·7	116·2	117·1	117·7	116·9	118·8	119·0	119·9	125·8	118·0	128·2	117·56
119·0	118·7	118·3	117·8	117·7	119·0	118·9	115·3	117·2	117·0	118·6	121·7	118·67
118·8	119·0	119·0	118·2	120·3	115·2	113·8	117·0	117·5	118·0	119·4	117·2	117·71
119·0	118·0	119·3	126·7	123·4	117·7	—	—	—	—	—	—	—
—	—	—	—	—	—	120·6	113·0	116·8	118·4	119·2	113·2	118·61
117·7	116·1	118·2	124·2	120·5	117·8	116·0	116·4	116·8	116·1	117·3	119·0	117·80
117·4	118·6	118·8	118·3	118·0	117·8	117·8	117·5	117·0	117·0	118·8	120·3	117·61
118·3	118·8	126·8	124·0	120·0	120·0	118·5	117·8	119·0	119·0	119·6	120·0	118·49
117·7	118·7	122·8	120·0 <sup>c</sup>	119·0	118·3	118·3	120·0	116·8	116·0	119·4	120·8	118·58
117·6	118·0	118·0	117·8	117·0	117·0	117·6	117·4	117·2	117·6	117·7	118·2	117·75
117·6	117·2	117·6	117·6	117·2	119·2	—	—	—	—	—	—	—
—	—	—	—	—	—	118·8	119·0	117·3	118·0	117·4	117·3	117·55
117·0	117·6	117·6	118·0	117·8	117·7	117·1	117·6	115·4	118·2	117·8	118·6	116·47
117·0	116·4	116·8	117·1	117·2	118·7	118·0	116·8	117·6	117·8	118·0	118·0	117·42
116·1	118·0	117·3	118·0	118·0	117·0	117·0	119·2	119·0	119·6	120·0	119·4	117·31
110·1	111·8	116·0	117·6	116·0	118·4	122·0	108·3	116·9	123·6	121·0	119·4	116·51
117·2	128·2	119·2	117·0	118·8	118·4	121·0	123·2	120·0	124·0	114·1	121·0	118·02
116·8	116·6	116·4	123·8	120·8	121·8	—	—	—	—	—	—	—
—	—	—	—	—	—	124·9	114·0	112·0	118·0	118·1	114·0	117·27
120·1	127·8	118·6	124·8	118·0	115·1	120·5	126·2	109·0	113·0	117·8	115·0	117·42
124·1	117·1	123·8	123·3	119·0	120·9	129·0	116·2	121·0	119·3	109·6	115·9	116·98
122·9	120·5	127·8	126·0	124·2	117·3	118·0	117·4	117·4	111·9	106·8	117·8	116·22
117·0	121·2	127·0	117·2	116·4	118·2	118·4	113·7	115·0	119·7	118·8	118·9	117·37
116·2	116·0	125·1	115·9	116·9	119·5	117·2	118·0	118·0	118·9	118·8	118·3	116·39
117·77	118·52	119·82	120·03	118·60	118·09	118·90	117·34	117·12	118·43	117·73	118·73	117·55

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0' · 721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	120·0	120·0	122·1	122·0	120·6	118·0	113·2	111·0	111·6	114·0	115·7	116·0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	119·0	119·4	120·4	121·5	119·8	118·1	112·9	110·7	109·2	111·1	113·8	115·0
	4	119·4	119·8	122·0	121·0	120·0	117·9	115·5	112·9	111·8	112·2	114·2	116·0
	5	119·0	120·4	121·9	123·9	121·0	116·7	113·5	112·0	112·0	113·0	115·2	115·3
	6	119·0	120·3	122·1	123·0	122·0	118·0	114·3	113·2	113·4	115·0	116·0	116·8
	7	120·0	122·0	122·6	125·2	122·0	119·0	114·2	109·0	106·8	105·2	107·0	114·3
	8	118·2	119·0	123·0	120·9	120·6	116·2	113·6	111·8	111·3	113·0	114·2	115·8
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	117·8	119·7	122·0	122·9	120·2	117·1	111·6	110·0	109·8	112·0	114·5	116·2
	11	118·7	121·9	122·5	120·2	121·1	115·5	113·3	112·1	113·9	112·5 <sup>b</sup>	112·0	114·2
	12	119·8	121·6	124·0	125·0	122·4	119·0	116·0	113·4	112·0	112·6	114·0	115·6
	13	118·8	120·7	122·7	124·3	123·0	119·7	115·0	110·5	110·4	111·2	113·4	115·4
	14	122·0	122·4	124·2	122·7	122·8	116·2	114·1	108·1	109·2	111·2	111·2	115·0
	15	122·0	123·6	124·0	123·3	122·0	116·6	112·5	108·8	109·4	108·0	112·1	116·6
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	120·0	118·8	122·7	118·5	118·5	114·9	115·5	114·7	113·0	114·2	115·4	115·0
	18	119·9	122·0	123·2	122·0	117·0	111·1	110·0	111·4	111·2	113·4	114·0	116·4
	19	121·0	123·8	124·0	125·0	122·0	118·0	113·8	109·4	107·6	109·8	108·5	114·7
	20	117·0	126·9	126·0	124·8	120·3	116·8	98·3	107·8	111·0	114·0	115·0	116·0
	21 <sup>c</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	22	122·2	122·0	123·0	121·6	117·7	112·2	108·7	107·0	110·2	112·0	114·0	116·2
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	129·0	123·0	122·0	124·0	117·2	113·4	111·0	107·3	107·9	106·0	110·4	110·1
	25	120·0	121·2	122·4	124·1	120·3	112·4	113·1	113·8	112·2	112·8	113·2	116·1
	26	120·4	124·4	126·0	123·4	117·9	114·0 <sup>b</sup>	111·2	109·2	109·0	107·8	112·2	115·2
	27	120·2	123·7	123·0	121·7	118·8	108·1	106·2	104·1	101·0	114·5	107·8	108·0
	28	119·0	121·0	120·0	121·0	120·2	117·1	111·5	109·0	108·4	107·7	106·0	113·2
	29	120·1	123·0	123·0	120·7	116·0	113·4	111·0	109·6	108·3	107·2	109·8	111·0
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	120·3	120·0	121·4	120·2	118·6	115·1	112·8	112·4	112·8	113·0	113·2	114·0
Hourly Means	120·11	121·62	122·81	122·52	120·08	115·78	112·11	110·37	110·14	111·34	112·51	114·72	
APRIL.	1	119·8	119·0	120·8	117·2	115·7	113·8	112·0	111·7	112·5	112·9	114·5	114·7
	2	122·0	123·0	125·0	122·2	117·4	117·0	109·1	109·0	110·0	111·0	112·2	114·0
	3	124·2	127·2	126·9	123·0	120·4	112·1	109·2	105·7	106·4	108·3	113·6	115·4
	4	115·8	117·0	131·0	124·0	117·0	110·4	106·0	106·7	108·8	112·2	114·8	118·2
	5	122·4	124·6	127·0	126·8	120·0	114·7	108·9	107·4	109·6	112·2	116·0	118·6
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	122·0	124·8	128·4	127·1	123·0	118·0	114·2	111·0	110·0	110·6	112·0	115·0
	8	120·3	122·4	124·0	125·0	124·0	118·0	113·2	108·0	105·9	107·0	111·0	114·4
	9	120·3	123·3	126·9	128·0	124·3	119·6	112·0	106·0	105·2	105·4	109·0	113·0
	10	121·2	123·2	124·8	127·0	126·0	120·0	115·0	109·8	107·0	107·0	109·2	113·3
	11	121·0	123·2	127·0	127·0	124·0	119·3	112·7	105·2	106·8	107·9	111·1	115·2
	12	121·4	123·6	124·0	124·3	122·2	117·8	113·6	109·5	108·0	109·0	111·4	114·5
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	128·0	120·0	112·9	114·8	110·2	115·0	106·7	107·5	113·0	111·6	112·6	119·0
	15	117·0	119·9	115·0	117·2	116·5	115·4	110·2	110·4	108·2	109·0	112·0	115·0
	16	119·0	115·2	119·1	119·2	117·0	112·0	110·0	108·4	109·0	110·3	112·7	114·9
	17	119·4	119·4	120·4	118·8	116·1	115·2	114·9	110·6	109·2	111·2	112·8	114·0
	18	122·9	124·6	122·5	121·7	113·2	104·6	104·8	105·2	107·1	105·0	103·4	112·1
	19	123·0	124·2	125·1	125·3	121·3	119·0	106·2	103·7	105·3	105·6	103·4	113·0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	120·5	121·4	121·4	121·0	119·6	115·3	111·0	107·2	106·6	108·0	111·0	114·2
	22	121·0	122·5	122·2	121·2	118·0 <sup>a</sup>	113·2	108·0	105·0	102·9	105·0	108·6	114·6
	23	121·8	123·0	124·0	124·6	121·9	115·1	107·4	102·7	101·1	103·0	105·6	112·2
	24	124·2	127·2	128·0	122·8	124·9	111·2	109·0	101·2	102·3	105·5	109·0	112·0
	25	112·3	110·7	112·9	116·0	113·9	111·7	107·1	106·1	104·1	107·3	111·0	114·6
	26	122·1	123·8	122·4	123·2	119·1	114·2	109·9	108·0	106·4	105·3	107·0	112·5
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	121·0	119·8	117·6	113·4	111·1	111·0	109·0	108·6	110·1	111·0	114·2	115·8
	29	123·0	123·9	123·6	120·4	117·7	115·4	112·5	111·4	112·2	112·4	114·7	116·3
	30	119·8	121·0	121·6	118·5	114·5	111·1	111·3	111·3	111·0	113·0	114·2	116·3
Hourly Means	120·98	121·84	122·48	121·91	118·81	114·62	110·15	107·58	107·64	108·72	111·04	114·72	

<sup>a</sup> Twelve minutes late.

<sup>b</sup> Four minutes late.

<sup>c</sup> Good Friday.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.	
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
116.5	117.7	117.2	117.6	117.6	117.7	—	115.0	119.8	119.5	117.6	119.3	117.4	117.38
116.8	116.6	116.3	116.6	116.4	118.0	117.3	119.2	120.3	120.0	119.4	119.2	116.96	
116.3	117.0	117.0	117.0	117.4	119.0	117.0	117.6	118.0	118.1	118.4	118.3	117.24	
117.0	117.4	116.7	116.7	118.0	117.1	117.2	117.5	117.8	118.0	118.2	118.9	117.27	117.06
116.2	117.0	117.4	117.3	117.1	117.2	117.2	117.5	117.8	118.0	118.2	119.2	117.63	
116.8	117.5	117.1	117.6	117.5	117.3	117.5	118.0	118.0	118.3	120.3	120.0	116.80	
116.4	116.8	117.0	116.8	118.0	117.2	—	—	—	—	—	—	117.55	
117.0	117.2	118.0	118.0	117.5	119.2	117.6	117.0	117.4	117.7	118.2	118.8	116.97	
116.0	118.2	119.2	117.6	116.4	117.0	117.4	117.0	117.2	118.0	118.5	117.1	116.98	
116.8	117.0	117.0	118.0	117.2	117.1	117.8	117.8	118.9	117.0	122.3	121.0	118.05	
116.0	117.0	117.0	117.5	119.7	120.0	118.0	118.0	110.8 <sup>b</sup>	121.5	133.5	124.5	118.27	
113.8	116.8	116.1	122.8	124.8	120.6	120.0	122.4	118.0	119.2	113.4	119.9	117.79	
116.9	117.0	116.6	118.6	118.0	120.2	—	—	—	—	—	—	117.32	
120.2	121.4	118.2	116.9	116.8	117.8	117.8	118.0	118.8	117.4	119.9	118.5	117.62	
115.4	116.6	117.0	117.0	119.2	117.3	119.3	117.1	117.8	117.0	120.0	120.0	116.89	117.79
116.5	125.2	127.8	132.4	124.4	121.1	112.8	122.0	120.2	123.0	121.0	114.9	119.12	
116.0	115.8	116.1	130.6	127.2	117.0	—	—	—	—	—	—	117.54	
117.1	117.0	117.8	117.0	116.5	115.4	—	—	114.0	115.9	121.4	118.0	116.93	
115.2	124.0	117.0	115.9	125.0	123.1	121.7	118.9	124.1	119.0	116.8	123.0	117.41	
118.9	124.7	118.1	129.0	120.9	120.9	121.2	122.2	119.5	119.0	119.0	114.3	118.72	
118.0	120.0	124.2	129.2	119.0	123.0	124.2	118.4	117.0	118.4	116.6	117.5	118.18	
114.6	117.2	121.0	119.8	118.2	117.6	119.0	116.5	117.3	117.8	117.1	117.7	115.45	
114.2	116.0	116.9	118.0	118.2	121.6	121.0	116.4	119.0	115.2	117.0	123.8	116.31	
116.0	114.9	116.3	117.3	117.7	119.0	—	—	—	—	—	—	116.02	
114.8	115.2	115.2	117.0	117.2	117.2	116.2	117.0	117.6	119.0	118.4	118.8	116.56	
116.38	118.05	117.93	119.69	119.04	118.74	118.34	118.39	118.34	118.48	119.35	118.89	117.32	
115.0	116.7	117.0	116.0	121.2	121.4	119.0	118.4	120.2	120.4	120.0	120.0	117.08	116.96
115.0	115.2	115.8	115.8	116.0	116.9	117.8	119.0	119.3	123.4	121.5	120.2	116.99	
116.4	116.8	117.0	116.8	118.0	120.0	123.8	119.2	119.0	118.4	118.9	118.8	117.31	
119.5	117.9	117.1	117.0	117.1	117.0	117.2	118.0	118.2	119.4	119.8	120.2	116.26	
118.0	117.0	118.2	118.0	125.0	117.5	—	—	—	—	—	—	118.06	
117.0	119.0	127.0	118.0	117.2	117.0	117.4	117.0	121.0	119.2	118.0	114.0	118.41	
116.6	117.0	118.4	117.2	117.2	117.0	117.4	119.0	118.2	118.2	118.1	119.0	116.94	
120.2	119.8	120.3	117.4	117.2	117.0	117.2	117.0	118.5	118.8	118.2	118.9	117.23	
116.1	116.8	116.9	116.7	116.9	117.0	117.2	117.5	118.0	118.2	118.7	119.4	117.20	
117.2	117.6	117.3	117.3	117.0	117.2	117.8	118.0	118.0	119.2	119.8	120.0	117.37	
116.2	120.8	120.0	119.0	117.6	118.0	—	—	—	—	—	—	117.55	
120.0	119.4	119.0	117.2	116.3	120.0	111.4	119.9	116.6	116.1	118.8	119.6	116.07	
116.3	117.2	118.4	117.1	118.0	118.8	120.0	117.9	114.1	118.7	118.4	118.8	115.81	116.26
116.0	117.3	119.8	117.5	116.7	116.9	116.6	115.0	114.6	117.2	118.0	119.2	115.48	
115.8	116.7	117.8	118.0	117.0	117.0	116.2	117.0	117.5	118.0	119.0	120.9	116.37	
114.1	115.6	122.7	116.2	124.0	123.7	120.0	118.7	119.4	119.8	121.8	121.0	116.00	
110.0	113.0	113.8	116.2	115.5	115.5	—	—	—	—	—	—	114.85	
119.8	119.0	115.6	115.0	117.0	117.7	117.8	116.2	114.2	116.2	116.7	117.4	115.82	
117.1	116.1	115.7	115.9	117.2	122.0	117.1	116.8	117.0	115.8	119.0	117.2	115.38	
116.0	117.1	116.2	117.0	119.0	117.3	117.4	120.6	116.2	119.0	119.2	121.0	115.77	
114.2	116.2	115.0	115.2	115.7	118.4	119.2	121.8	135.7	123.4	118.4	121.0	117.14	
116.2	115.0	115.0	119.0	116.8	118.6	116.4	112.9	116.0	116.0	118.0	117.4	113.54	
114.0	114.5	115.6	120.8	116.7	115.2	—	—	—	—	—	—	115.54	
116.7	119.2	116.8	115.8	114.4	115.0	115.0	118.0	114.9	116.0	117.7	117.6	118.0	115.74
116.4	115.7	115.1	115.7	115.8	115.8	116.3	116.2	116.4	117.0	118.0	119.6	116.73	
117.2	109.3	111.2	126.0	140.0	121.2	126.4	117.1	116.1	119.4	115.8	119.5	117.62	
116.42	116.77	117.41	117.38	118.48	118.04	117.80	117.82	117.93	118.23	118.51	119.31	116.44	

<sup>d</sup> Three minutes late.

<sup>e</sup> Two minutes late.

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MAY.	1	122.8	122.8	122.0	119.3	114.0	114.0	112.9	112.8	114.2	115.8	117.7	118.0
	2	121.2	121.3	122.0	119.9	115.2	109.9	107.0	106.6	109.0	111.0	113.2	115.6
	3	123.0	123.2	122.0	117.5	112.1	106.0	105.1	104.8	106.1	109.4	112.4	115.0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	121.2	122.0	122.0	118.6	114.2	108.2	106.5	105.6	106.0	109.1	113.2	115.6
	6	121.8	123.0	122.6	118.7	112.0	112.1	105.4	104.1	105.9	109.6	114.0	117.2
	7	127.7	129.1	128.6	123.9	118.5	107.1	106.2	105.0	108.2	111.7	115.0	117.0
	8	122.8	125.1	125.9	122.5	117.0	112.8	110.3	112.0	108.0	108.2	112.0	114.8
	9	124.0	126.3	127.0	121.0	116.7	110.7	107.4	104.8	104.6	108.5	112.1	114.5
	10	122.0	123.0	122.4	121.0	116.8	110.2	107.2	106.8	106.8	109.0	111.0	112.4
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	123.6	121.8	122.6	119.2	113.0	111.9	111.8	109.5	109.9	110.2	112.4	114.5
	13	122.8	122.9	124.9	119.0	115.7	111.1	109.5	109.1	110.0	110.8	112.0	116.2
	14	123.5	126.0	126.9	125.8	116.8	108.9	105.0	106.0	109.0	111.6	111.7	114.8
	15	125.0	124.0	118.4	118.8	112.9	109.3	106.5	105.6	106.9	110.0	113.8	114.0
	16	125.2	124.0	128.8	122.5	116.1	119.0	102.5	107.5	112.0	113.4	115.8	117.8
	17	121.4	122.2	122.7	121.3 <sup>c</sup>	118.7	110.0	107.0	105.8	107.0	108.3	109.5	111.0
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	117.7	119.9	118.8	122.2	118.8	113.8	111.0	111.2	111.8	113.0	115.2	117.5
	20	123.9	125.7	126.1	123.0	114.8	109.0	109.6	110.6	111.2	113.4	115.8	118.2
	21	123.0	123.0	123.3	119.8	112.0	107.6	105.2	104.7	108.2	111.0	113.7	116.0
	22	122.0	124.3	123.0	123.2	118.8	109.2	100.0	99.1	102.0	105.3	109.1	115.2
	23	123.2	124.7	125.7	123.3	118.1	112.3	108.2	106.7	108.2	110.9	114.2	117.0
	24	125.3	127.0	126.0	121.2	114.1	109.9	105.1	105.1	107.3	110.4	112.0	115.2
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	119.4	123.3	125.0	123.7	120.0	114.0	110.4	110.0	105.2	107.2	111.2	114.2
	27	122.3	126.0	125.2	124.0	120.4	114.6	109.0	106.4	106.8	110.3	112.4	114.8
	28	121.0	123.0	125.0	121.6	115.4	108.3	104.8	105.7	106.2	107.0	110.2	114.1
	29	122.2	124.5	122.9	119.0	116.1	114.0	111.0	111.0	112.7	113.7	114.2	115.2
	30	126.9	126.9	125.0	117.2	111.4	104.8	104.1	105.7	106.1	107.3	114.0	114.0
	31	124.0	131.0	134.0	124.8	116.0	109.8	107.4	107.7	110.2	113.6	117.0	121.4
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	122.92	124.30	124.40	121.19	115.76	110.69	107.26	107.03	108.13	110.36	113.14	115.59	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	—
	2	123.8	124.8	124.2	122.0	117.2	111.0	108.8	110.2	111.1	112.7	113.8	116.0
	3	122.3	124.0	124.1	122.1	118.7	112.2	108.4	107.8	106.9	109.0	112.9	115.2
	4	129.5	132.0	126.4	122.0 <sup>a</sup>	109.2	105.0	104.2	102.7	105.7	108.0	111.9	115.0
	5	124.7	125.2	127.4	124.9	119.1	115.8	110.9	107.0	105.3	106.3	108.6	111.8
	6	123.8	126.0	125.0	123.8	117.0	107.8 <sup>b</sup>	104.2	104.2	103.0	103.0	104.2	110.3
	7	125.0	127.0	127.2	124.6	121.0	116.0	109.0	104.8	103.6	104.8	107.6	110.4
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	124.8	127.2	129.0	125.2	118.2	112.8	109.2	106.9	104.0	105.0	107.0	111.0
	10	122.8	124.4	126.2	123.0	116.6	112.9	109.0	109.4	109.0	107.8	110.0	112.0
	11	125.6	127.0	127.9	124.2 <sup>a</sup>	121.0	117.2	113.2	110.0	109.0	109.0	111.0	113.6
	12	120.7	122.2	123.2	122.0	119.8	111.3	107.7	103.2	102.0	105.0	109.2	113.8
	13	121.3	122.0	121.2	118.3	116.0	110.4	109.4	108.4	108.0	109.3	112.0	113.4
	14	122.0	124.2	123.2	120.8	117.8	111.8	108.1	107.9	107.8	109.4	111.2	112.4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	124.2	124.0	122.6	120.5	115.7	112.5	108.4	108.5	109.2	110.8	113.7	116.8
	17	123.0	122.5	121.8	119.0	113.0	105.8	102.1	106.4	108.0	110.2	112.0	114.0
	18	121.2	123.0	121.0	118.0	113.0	109.2	107.0	104.7	104.2	107.0	109.8	112.8
	19	124.7	125.4	125.4	122.0	118.8	112.5	108.9	108.2	108.5	110.0	113.0	114.8
	20	123.6	123.0	122.0	121.5	116.2	109.4	103.8	101.8	103.9	108.0	110.0	113.9
	21	123.2	126.4	123.9	122.2	119.0	113.0	111.3	107.0	107.7	107.8	108.2	110.8
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	123.2	123.6	125.0	124.6	123.0	121.1	117.8	109.5	108.8	109.2	111.1	115.2
	24	120.4	122.2	120.9	121.8	120.4	117.0	112.3	111.0	114.0	110.8	111.7	114.0
	25	121.0	125.0	124.8	121.4	119.6	116.8	112.0	109.4	108.0	109.6	111.3	114.2
	26	122.6	122.4	124.4	122.2	115.7	112.0	105.8	103.3	104.0	106.6	110.8	114.7
	27	121.8	123.2	124.4	123.8	120.9	115.8	111.2	110.0	109.9	110.6	112.0	113.6
	28	115.6	121.8	123.4	119.9	116.5	109.7	108.3	107.5	110.0	113.3	114.4	115.4
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	125.7	125.8	124.9	123.0	120.6	114.7	112.0	108.4	108.7	107.7	113.7	117.0
Hourly Means	123.06	124.57	124.38	122.11	117.76	112.55	108.92	107.13	107.21	108.44	110.84	113.68	

<sup>a</sup> Three minutes late.

<sup>b</sup> Six minutes late.

<sup>c</sup> Five minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Meas.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
117.0	116.4	115.0	115.2	115.0	115.6	115.6	115.7	115.1	116.0	116.8	118.7	116.60
116.2	116.0	116.0	115.8	116.0	116.0	116.0	116.8	117.4	118.1	118.9	119.4	115.60
116.0	115.3	114.4	112.5	113.9	116.2	—	—	—	—	—	—	114.58
—	—	—	—	—	—	116.4	117.9	118.0	116.0	116.9	119.8	114.58
116.0	116.0	115.6	115.9	116.0	116.0	116.4 <sup>n</sup>	116.2	117.0	117.0	118.2	118.8	115.05
117.7	117.2	115.7	115.2	116.0	116.6	119.6	116.9	117.0	115.6	120.2	122.2	115.68
118.2	117.0	116.2	115.9	116.0	116.4	116.8	118.2	118.5	118.1	119.0	120.0	117.01
116.0	115.8	116.5	115.7	115.9	119.8	120.0	117.0	117.0	111.0	118.3	119.5	116.41
116.0	116.2	117.0	116.7	115.3	116.3	116.8	117.0	116.0	118.0	119.0	120.0	115.91
114.1	115.2	116.0	115.8	115.3	116.0	—	—	—	—	—	—	—
—	—	—	—	—	—	118.0 <sup>b</sup>	123.2	121.6	120.4	120.6	120.6	116.06
115.5	115.0	115.3	115.2	115.2	116.0	116.0	116.6	117.4	117.8	118.9	120.8	115.84
111.4	113.4	118.0	115.0	121.0	116.7	114.5	116.0	117.7	117.9	119.3	123.3	116.18
116.0	123.8	116.8	114.7 <sup>n</sup>	113.0	114.2	115.8	125.0	122.0	124.0	120.9	122.0	117.26
115.2	116.0	115.4	115.1	116.2	114.5	113.1	116.0	119.0	120.2	118.9	115.8	115.02
118.3	117.4	116.8	116.0	116.0	116.0	116.8	116.2	116.4	118.2	118.0	120.2	117.12
110.6	111.6	114.0	110.0	118.0	118.6	—	—	—	—	—	—	—
—	—	—	—	—	—	115.4	115.8	116.4	114.8	116.4	119.0	114.40
119.6	117.2	116.0	116.8	118.4	116.0	116.0	115.4	114.0	113.2	117.3	121.7	116.35
119.8	117.5	120.9	117.3	116.0	117.3	114.9	117.2	116.3	117.1	118.6	119.8	117.25
116.7	115.2	115.1	115.2	112.2	109.8	117.4	117.0	114.2	119.5	119.8	119.0	114.94
115.9	115.3	116.0	116.0	120.5	121.1	113.0	115.2	116.6	117.2	118.0	120.4	114.85
119.3	117.6	116.0	114.8	114.4	114.0	116.2	115.2	113.0	121.4	121.8	121.8	116.58
116.0	116.2	121.0	120.4	115.1	119.4	—	—	—	—	—	—	—
—	—	—	—	—	—	116.0	116.0	116.3	116.0	116.0	117.2	116.01
117.2	117.8	117.1	116.2	115.9	115.6	115.7	115.8	115.2	115.9	116.2	119.0	115.88
115.8	115.8	116.0	115.6	115.6	115.9	115.2	—	—	—	117.0	119.2	116.11
115.8	116.0	115.2	115.0	114.8	115.0	115.8	116.2	116.0	116.2	116.0	119.8	114.75
114.2	117.2	117.2	117.8	113.4	115.2	115.0	116.8	118.0	119.6	121.0	125.6	116.98
113.0	115.7	110.8	115.2	113.4	126.4	116.3	118.6	97.6	122.0	128.8	127.0	115.34
123.2	119.0	118.8	120.0	121.0	120.0	—	—	—	—	—	—	—
—	—	—	—	—	—	117.0	118.0	113.0	116.6	116.5	118.0	118.25
116.32	116.40	116.25	115.74	115.91	116.69	116.14	117.15	116.03	117.61	118.79	120.32	116.00
—	—	—	—	—	—	—	—	—	—	—	—	—
118.1	118.4	116.1	116.1	116.4	117.0	116.0	115.0	115.0	114.6	115.7	119.3	116.39
111.0	116.3	115.7	115.0	115.0	120.0	116.7	118.2	117.0	117.2	119.8	125.8	116.55
117.0	120.0	118.2	120.6	119.0	115.8	114.0	115.4	116.2	112.2	108.1	122.9	115.46
115.0	115.7	116.0	115.0	113.8	117.1	115.2	115.9	115.0	116.3	118.7	121.0	115.90
112.5	112.8	113.6	114.6	114.4	114.7	115.0	116.3	116.7	117.3	118.0	121.2	114.14
113.0	114.3	114.0	115.4	116.2	114.0	—	—	—	—	—	—	—
—	—	—	—	—	—	118.5	120.0	120.0	118.2	117.8	121.0	115.97
113.2	113.0	112.8	114.0	114.0	116.8	116.2	115.8	116.8	117.0	117.0	121.4	115.35
112.6	114.1	113.6	114.2	114.5	114.0	120.3	120.1	117.4	114.6	123.7	121.0	115.97
115.0	115.4	116.2	119.0	114.3	114.6	114.4	115.0	116.0	117.0	116.9	118.0	116.69
115.0	115.4	117.4	116.2	115.0	114.3	114.4	115.7	115.6	116.1	117.0	120.0	114.67
114.8	115.0	114.7	113.8	114.0	114.6	114.8	115.2	115.8	115.8	116.8	118.8	114.74
114.6	116.0	114.6	115.0	114.8	115.8	—	—	—	—	—	—	—
—	—	—	—	—	—	116.1	115.8	117.2	116.8	117.0	117.0	115.30
118.0	116.0	116.3	113.6	113.4	113.0	113.2	116.2	114.8	114.0	117.2	120.6	115.55
114.6	116.4	114.5	114.2	113.7	116.0	114.4	115.2	116.0	117.0	119.0	120.2	114.54
114.4	115.4	115.0	114.8	114.2	115.0	116.1	115.3	114.9	117.0	119.0	123.0	114.37
115.0	115.3	114.1	118.0	114.9	119.4	116.0	108.8	119.0	117.0	120.7	123.2	116.40
114.0	115.0	113.9	116.5	113.8	116.4	115.4	116.2	118.0	118.8	118.7	118.9	114.70
113.0	115.3	115.0	115.0	115.0	114.7	—	—	—	—	—	—	—
—	—	—	—	—	—	114.2	114.0	115.4	114.0	116.8	120.9	115.16
117.0	117.0	116.0	115.7	119.0	120.2	117.4	114.4	114.0	115.8	118.6	119.0	117.34
116.4	115.8	115.4	114.8	114.0	114.2	114.2	115.0	113.2	116.1	116.7	117.7	115.83
117.0	116.0	115.0 <sup>a</sup>	114.2	114.2	113.3	113.3	114.2	114.3	114.7	116.0	119.2	115.60
115.7	115.0	114.5	114.0	114.1	114.0	114.2	115.2	115.0	114.4	112.2	120.4	114.30
114.2	115.0	113.2	112.0	115.4	115.8	116.0	117.4	120.4	117.5	116.4	116.5	116.12
115.0	110.0	116.0 <sup>c</sup>	127.7	119.2	117.0	—	—	—	—	—	—	—
—	—	—	—	—	—	113.2	121.0	118.8	115.6	122.1	122.6	116.42
120.0	118.2	123.8	126.8	127.0	119.1	121.4	120.6	117.0	110.8	116.0	119.0	118.41
115.28	115.47	115.42	116.25	115.57	115.87	115.62	116.07	116.38	115.83	117.44	120.34	115.67

116.23

116.05

115.36

115.90

DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JULY.	1	122.0	124.0	122.8	123.8	120.0	114.6	112.6	111.4	110.2	110.4	110.4	111.0
	2	121.0	125.0	125.0	123.8	121.6	117.8	108.2	106.0	105.0	105.3	107.8	110.0
	3	121.8	122.8	123.2	121.0	118.5	113.1	111.1	108.0	106.0	106.1	107.5	109.8
	4	121.1	123.7	127.0	126.2	124.8	118.7	113.0	107.0	103.0	102.0	106.0	110.0
	5	123.8	124.1	122.5	120.7	115.7	109.1	105.7	103.8	104.0	106.0	107.6	110.1
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	122.6	127.0	127.0	124.0	119.0	109.2	103.2	97.4	97.6	101.7	107.3	112.0
	8	124.0	127.4	129.0	126.4	121.5	111.6	106.0	106.2	102.3	104.1	106.8	112.0
	9	121.8	123.7	122.5	120.0	116.0	110.8	108.1	104.9	106.7	107.7	108.8	111.6
	10	116.8	124.0	125.0	127.0	124.1	119.6	117.0	113.4	112.1	111.7	112.2	113.4
	11	121.9	123.9	125.9	124.0	119.8	115.0	109.2	107.4	108.0	111.1	110.3	113.4
	12	123.2	124.8	124.8	121.0	121.0	115.2	114.0	111.4	108.2	108.4	109.2	112.0
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	121.7	125.0	126.0	124.6	121.0	115.8	113.0	106.6	105.1	104.3	106.7	110.0
	15	119.4	123.6	124.0	123.0	115.7	113.8	110.6	108.0	109.6	108.2	109.0	112.0
	16	123.0	125.0	125.4	123.7	119.0	111.8	105.2	104.2	104.5	106.3	109.7	113.0
	17	123.9	127.3	129.4	124.0	117.1	111.0	106.4	104.7	102.8	106.4	109.0	112.8
	18	123.4	126.1	126.0	125.0	120.0	111.8	105.8	104.1	106.2	104.4	108.4	112.7
	19	124.4	124.6	127.0	123.8	116.0	108.4	102.6	100.6	102.2	106.8	110.0	114.2
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	121.8	120.9	123.4	124.0	123.0	116.0	109.0	105.3	106.2	106.8	108.2	111.0
	22	120.0	121.0	120.4	119.9	116.0	112.0	108.6	105.0	103.2	104.0	105.6	108.7
	23	122.9	126.2	126.2	126.1	117.2	111.0	105.7	103.0	102.4	105.4	108.6	112.4
	24	119.0	120.4	120.4	122.0	117.0	109.7	108.0	106.1	106.7	109.4	115.0	111.0
	25	120.0	120.0	124.2	121.2	117.7	115.0	111.1	105.0	107.7	111.2	114.0	112.9
	26	119.8	122.8	120.6	122.3	120.0	116.2	111.4	107.7	108.0	108.0	108.8	110.8
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	118.2	120.0	119.9	118.8	113.0	111.0	109.8	109.1	106.2	109.3	110.5	112.0
	29	118.8	121.0	120.9	118.3	115.5	110.7	108.7	108.0	107.8	110.0	110.2	111.4
	30	122.3	123.7	127.4	126.0	117.2	110.0	106.2	100.0	101.2	105.4	107.5	109.8
	31	120.2	121.8	121.2	119.0	116.2	114.0	110.9	108.4	108.8	109.6	110.5	112.2
Hourly Means	121.44	123.70	124.34	122.95	118.65	113.07	108.93	106.03	105.62	107.04	109.10	111.56	
AUGUST.	1	126.2	129.4	132.8	119.2	116.8	98.4	100.3	100.0	103.0	107.8	112.7	114.2
	2	125.2	126.8	124.3	117.9	114.0	111.4	107.9	105.0	106.7	107.5 <sup>b</sup>	112.0	113.0
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	103.0	118.0	119.2	119.2	109.2	111.0	107.3	108.8	108.0	109.0	111.4	118.2
	5	118.7	126.3	124.5	120.4	114.2	105.8	104.7	105.8	107.8	109.0	111.8	113.7
	6	120.0	124.8	122.8	118.7	113.0	108.2	106.9	105.3	107.3	108.9	109.8	112.4
	7	125.2	125.4	124.4	120.4	117.0	109.6	106.1	106.2	106.9	109.0	110.6	113.1
	8	123.2	123.9	125.1	122.0	117.8	114.2	109.3	107.9	108.6 <sup>b</sup>	109.0	111.7	112.2
	9	121.0	127.2	125.7	120.3	115.1	110.9	103.3	101.0	102.0	105.2	109.0	112.2
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	121.0	124.0	124.2	121.0	117.0	110.0	105.2	102.8	103.0	106.2	110.0	112.8
	12	120.0	121.8	122.0	118.2	111.0	105.0	101.5	101.4	104.8	108.2	111.2	112.2
	13	123.2	125.4	125.8	121.9	114.0	106.7	102.9	101.8	102.8	105.8	109.4	112.2
	14	120.4	123.7	123.0	119.6	115.0	109.9	104.9	102.0	103.8	106.6	108.8	111.0
	15	129.0	128.0	133.8	112.0	104.9	106.1	103.7	106.0	106.2	111.0	113.0	114.8
	16	122.6	124.0	124.0	119.8	113.0	106.4	103.0	103.0	102.6	106.2	112.0	115.6
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	122.0	115.4	119.0	122.4	118.2	109.8	107.3	105.0	107.0	110.4	113.0	115.1
	19	121.8	126.6	127.0	123.4	115.0	110.5	104.4	102.7	102.2	104.7	110.0	112.2
	20	120.5	123.5	124.2	122.9	117.7	110.7	104.9	102.3	103.8	108.2	111.7	114.0
	21	120.0	122.2	123.2	121.8	116.9	111.2	106.0	103.8	104.0	106.0	110.0	112.0
	22	121.4	125.9	127.0	123.8	116.0	109.0	104.0	102.8	103.2	106.8	111.0	113.0
	23	118.2	120.4	122.0	121.4	116.2	110.0	107.8	103.4	104.8	108.0	109.5	111.1
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	115.6	119.8	121.8	119.0	112.4	108.4	104.8	104.2	107.0	109.2	111.8	113.0
	26	121.9	123.2	124.8	126.0	117.6	103.9	100.9	101.2	108.0	109.8	112.3	113.0
	27	120.2	121.8	122.2	119.4	115.0	110.2	106.8	105.5	105.9	108.0	112.2	114.2
	28	119.8	122.5	122.0	119.2	115.6	111.3	107.4	106.0	106.0	107.7	113.2	113.1
	29	121.0	118.2	128.0	124.0	114.6	109.8	108.0	105.0	105.3	106.5	99.0	109.8
	30	126.6	122.0	120.6	115.0	108.2	107.8	102.2	99.6	103.2	107.2	111.8	114.3
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	121.07	123.47	124.36	120.34	114.44	108.70	105.06	103.79	105.15	107.77	110.73	113.7	

<sup>a</sup> Seven minutes late.

<sup>b</sup> Two minutes late.

DECLINATION.												
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
112.2	112.5 <sup>a</sup>	113.8	115.8	121.3	119.8	115.0	116.4	119.0	116.4	118.5	112.8	116.11
113.9	114.3	115.0	114.0	115.0	115.3	119.0	124.0	116.2	113.0	115.4	118.4	115.42
113.0	115.2	114.0	113.7	115.5	115.0	114.7	114.4	114.5	115.7	115.6	119.8	114.58
112.6	115.2	114.0	114.2	114.7	119.2	116.6	114.8	113.1	114.8	117.0	119.6	115.35
115.2	115.9	115.6	118.4	122.8	120.1	—	—	—	—	—	—	—
—	—	—	—	—	—	114.2	113.0	113.4	114.0	105.9	124.8	114.02
115.5	128.1	113.4	114.0	112.9	113.2	113.8	114.8	115.9	111.6	116.0	118.7	114.00
115.0	116.0	115.0	113.9	116.2	121.5	120.0	121.0	116.2	117.0	118.0	119.0	116.09
114.9	115.5	115.0	118.0	121.2	114.2	114.0	113.8	114.2	115.8	115.4	116.2	114.62
114.4	115.2	114.7	115.2	121.4	120.2	117.1	116.4	115.0	114.2	116.2	118.9	117.30
114.8	116.0	114.2	114.0	114.4	116.5	125.2	118.1	119.0	119.2	118.6	121.0	116.70
113.8	114.7	114.0	114.3	115.0	118.0	—	—	—	—	—	—	—
—	—	—	—	—	—	114.3	115.0	115.0	115.5	116.0	117.6	115.68
112.4	114.8	113.9	113.6	114.2	113.9	115.3	117.0	115.7	115.4	116.2	116.8	114.96
113.1	114.5	114.0	114.8	114.8	113.7	114.0	114.6	115.2	113.3	114.5	120.5	114.75
116.0	114.4	115.8	113.4	113.6	114.0	113.8	114.8	115.0	114.7	116.7	118.8	114.66
115.0	113.8	113.0	112.2	113.2	113.1	115.2	115.8	115.9	116.8	117.2	119.1	114.80
115.0	117.0	116.4	114.4	115.0	114.2	114.8	116.2	115.5	121.0	118.6	123.0	115.62
115.9	116.8	116.2	117.4	123.8	119.4	—	—	—	—	—	—	—
—	—	—	—	—	—	115.4	115.0	117.0	114.3	117.0	119.6	115.35
113.3	114.0	114.0	116.0	115.0	114.6	114.7	115.4	116.0	115.2	114.5	117.6	114.83
112.0	115.0	115.2	114.6	114.2	114.4	114.0	118.2	120.0	117.3	118.8	124.5	114.28
115.8	117.4	115.8	116.0	121.8	119.7	124.2	120.0	114.6	114.3	114.8	116.0	115.73
116.4	117.0	121.6	129.0	124.2	129.1	125.0	136.8	136.8	127.8	132.1	120.8	120.05
111.1	113.0	114.2	113.2	116.6	119.1	116.5	121.0	117.0	115.0	114.6	116.2	115.31
115.0	114.8	114.4	119.2	116.0	115.0	—	—	—	—	—	—	—
—	—	—	—	—	—	122.8	116.7	114.0	112.8	114.9	116.2	115.32
113.0	114.2	112.2	114.4	114.3	116.8	114.8	115.0	113.9	114.0	114.0	117.9	113.85
113.5	114.2	114.0	114.0	114.2	114.2	115.5	114.3	115.8	115.2	116.5	122.8	114.40
112.0	113.0	113.0	113.2	116.8	113.9	114.1	110.9	115.2	109.8	111.3	116.5	113.18
113.8	114.2	113.7	114.0	114.0	114.3	114.8	115.8	116.8	117.0	118.5	121.1	115.03
114.02	115.43	114.67	115.37	116.74	116.76	116.60	117.01	116.51	115.60	116.40	118.67	115.26
117.3	115.0	120.0	136.0	124.2	132.0	125.8	120.8	119.6	116.2	111.4	122.0	117.55
114.0	116.0	125.3	116.4	124.2	127.6	—	—	—	—	—	—	—
—	—	—	—	—	—	114.0	116.9	97.6	118.8	107.4	101.0	114.62
114.6	115.8	116.0	116.0	132.2	123.8	110.2	113.2	115.0	111.9	112.9	115.5	114.14
115.3	114.4	113.6	113.0	120.8	119.3	110.0	108.9	114.7	116.0	116.0	119.4	114.34
116.3	114.2	114.8	117.3	117.8	116.7	117.0	122.0	125.0	119.8	101.0	119.8	114.99
116.0	128.0	116.1	140.0	116.2	117.0	113.2	115.0	114.4	110.2	114.8	119.7	116.44
114.8	114.0	118.0	117.1	121.2	115.4	114.5	114.8	116.1	116.8	109.2	113.0	115.41
113.8	118.8	114.2	121.0	118.4	114.9	—	—	—	—	—	—	—
—	—	—	—	—	—	114.0	111.5	109.0	114.2	116.2	117.8	114.03
114.6	114.2 <sup>a</sup>	114.2	114.2	115.3	113.3	113.4	113.8	114.0	114.2	114.7	116.8	113.75
113.8	114.2	113.2	113.8	113.3	114.8	114.0	114.2	114.8	113.2	113.0	117.2	112.78
115.0	114.0	113.0	112.2	112.0	114.8	114.2	115.0	114.6	115.4	117.2	117.4	113.61
115.0	115.4	113.0	112.6	112.8	115.5	118.4	113.9	112.8	116.2	120.0	123.2	114.06
116.6	117.0	113.6	114.0	112.9	113.8	113.9	114.0	115.2	115.5	116.0	117.2	114.51
116.9	114.9	114.0	114.4	113.9	117.0	—	—	—	—	—	—	—
—	—	—	—	—	—	122.7	119.3	120.5	114.7	119.7	121.0	115.05
115.8	114.5	114.2	113.8	113.3	113.0	113.0	113.6	113.4	114.4	113.7	110.9	113.67
113.0	113.3	113.7	118.0	116.2	118.2	120.0	113.8	115.8	114.9	115.2	119.2	114.66
115.0	113.6	113.4	115.1	113.5	113.4	114.0	114.1	114.4	115.2	116.0	117.0	114.13
113.2	112.8	112.8	113.8	113.3	113.2	114.0	117.1	115.9	116.2	117.7	118.8	114.00
114.8	114.8	110.9	113.3	115.8	126.0	121.2	125.9	118.2	120.4	116.5	118.0	115.82
113.4	114.8	114.2	114.0	115.0	115.1	—	—	—	—	—	—	—
—	—	—	—	—	—	115.0	117.2	115.8	115.6	114.0	114.8	113.82
113.6	112.8	113.3	113.2	113.0	113.4	113.8	114.7	115.1	117.2	117.6	120.9	113.57
113.2	112.0	112.0	117.7	112.0	113.4	114.0	114.0	107.5	114.0	116.2	117.2	113.58
113.4	112.6	110.2	113.5	113.6	113.3	113.8	114.0	115.2	114.8	115.8	116.1	113.78
113.6	113.2	113.8	113.0	114.2	115.5	112.4	117.0	116.0	128.4	130.5	127.5	115.79
114.0	124.8	109.1	123.7	118.0	119.0	122.0	105.0	110.0	131.8	108.0	119.0	114.73
123.2	115.8	112.9	117.0	116.0	118.0	—	—	—	—	—	—	—
—	—	—	—	—	—	104.5	111.8	110.0	109.8	113.4	106.7	112.40
115.01	115.42	114.33	117.08	116.50	117.21	115.12	115.06	114.26	116.38	114.77	117.20	114.43

<sup>a</sup> Seven minutes late.



DECLINATION.													
Angular Value of One Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.	1	119.9	121.8	124.3	120.4	109.9	102.8	100.2	101.0	103.0	108.0	112.6	119.0
	2	116.7	123.0	118.1	113.3	106.4	102.2	103.8	105.2	106.3	108.2	120.0	114.4
	3	112.8	120.0	118.2	109.6	100.4	98.9	100.1	103.4	103.3	106.0	111.1	114.0
	4	121.2	121.0	122.2	118.4	114.8	103.0	101.2	103.6	105.9	109.2	113.7	113.2
	5	120.0	122.8	122.0	117.7	111.2	105.3	103.3	103.8	104.7	109.7	112.9	116.0
	6	121.1	124.6	122.8	116.4	111.0	106.4	102.5	102.7	103.8	107.0	112.0	115.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	119.5	113.4	114.3	112.7	109.8	109.4	103.8	102.4	104.6	107.2	110.0	111.4
	9	118.3	115.0	117.0	118.6	115.4	112.0	108.2	105.6	106.0	109.6	111.2	114.0
	10	120.2	121.0	120.4	118.7	113.3	109.8	108.4	107.9	108.4	110.8	112.5	113.4
	11	120.8	115.3	117.9	115.0	108.0	107.4	107.4	107.8	109.3	110.5	113.7	115.4
	12	120.5	128.0	124.9	119.3	113.0	106.7	100.3	104.7	104.4	109.2	113.0	115.0
	13	121.3	121.0	117.0	116.8	112.0	109.0	104.5	107.0	108.0	105.4	111.0	113.2
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	117.0	118.6	116.5	114.0	109.0	103.4	103.0	103.6	105.8	109.6	112.0	113.6
	16	118.2	120.0	118.0	113.2	107.9	105.8	104.4	104.8	107.5	110.4	110.3	113.0
	17	119.2	118.6	117.4	116.2	113.2	108.0	104.7	104.4	104.8	108.0	110.8	110.4
	18	121.8	123.2	119.9	115.9	110.0	105.6	105.3	104.1	107.0	109.0	112.4	113.8
	19	124.8	122.3	122.0	115.0	109.0	105.0	105.0	103.8	106.3	107.0	111.0	112.2
	20	118.6	121.0	120.5	117.6	115.0	107.4	108.0	107.4	108.2	109.4	111.6	111.8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	116.2	118.8	118.6	117.0	114.2	109.4	106.4	107.0	111.2	111.0	112.2	112.2
	23	116.4	116.4	115.6	114.5	112.2	111.0 <sup>b</sup>	110.1	109.5	110.0	111.6	111.2	111.0
	24	118.0	120.1	121.1	116.2	112.2	109.2	105.1	107.0	109.5	109.3	111.0	112.4
	25	117.2	114.5	84.2	99.3	105.2	111.2	91.6	100.1	107.8	109.6	109.4	113.8
	26	114.2	115.8	117.0	112.0	109.8	109.4	108.7	109.0	109.6	111.0	112.4	112.0
	27	115.0	106.2	115.2	116.3	113.0	104.4	102.1	104.6	103.2	103.9	107.9	122.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	110.2	117.0	115.6	112.4	111.2	107.9	105.3	104.1	108.0	108.0	109.7	112.2
	30	114.4	116.5	115.2	114.3	112.0	108.5	105.8	105.3	107.0	109.0	111.9	113.0
Hourly Means	118.21	119.07	117.53	115.03	110.73	106.89	104.20	104.99	106.68	108.75	111.83	113.75	
OCTOBER.	1	106.8	113.0	116.7	117.7	115.0	107.5	105.0	103.2	104.8	109.2	110.4	114.0
	2	116.8	117.2	119.4	118.7	115.2	111.0	105.0	105.0	106.5	109.8	112.0	113.0
	3	117.0	115.2	116.0	116.4	115.7	111.2	104.5	106.2	107.0	109.4	111.7	112.5
	4	115.0	117.0	118.4	118.0	115.4	112.0	109.8	107.0	107.2	109.1	111.2	112.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	118.2	118.4	119.1	115.5	110.4	108.1	105.2	105.0	106.0	108.0	110.0	112.0
	7	115.1	116.4	115.4	115.2	113.8	111.2	108.0	107.0	108.5	110.0	111.0	110.1
	8	115.0	115.0	115.8	115.7	115.6	114.0	110.2	109.2	109.4	110.0	110.4	110.4
	9	115.0	115.4	115.3	116.4	116.5	118.2 <sup>b</sup>	110.0	108.8	108.5	107.4	106.9	105.2
	10	106.6	108.2	107.5	111.5	113.0	109.3	107.8	107.6	106.7	109.0	110.0	112.2
	11	113.8	108.4	115.0	114.3	113.0	111.9	109.5	109.8	110.8 <sup>c</sup>	111.2	111.2	112.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	114.4	115.5	115.0	112.0	109.7	108.0	107.2	109.0	111.0	112.2	113.2	112.0
	14	116.0	115.2	117.0	116.2	112.8	108.2	108.0	107.2	109.4	112.2	113.4	113.0
	15	116.0	118.0	118.8	113.7	109.8 <sup>b</sup>	101.2	101.0	103.8	107.0	109.8	110.8	112.0
	16	116.8	118.0	118.2	116.9	113.1	109.0	107.2	108.6	110.8	112.0	113.2	113.0
	17	118.0	120.5	121.0	113.0	107.0	106.7	106.0	106.0	108.8	111.0	111.0	112.2
	18	116.9	118.8	119.9	118.2	115.0	111.6	110.0	109.6	111.0	110.6	111.0	110.8
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	114.2	112.5	113.8	97.0	102.0	111.2	109.8	109.8	109.2	110.4	112.4	112.6
	21	119.4	107.0	110.2	112.0	110.3	110.9	111.0	110.1	110.2	110.0	104.9	110.5
	22	114.1	115.6	117.0	115.5	115.1	108.2	111.3	110.1	110.8	111.8	113.0	113.2
	23	115.0	116.0	116.1	116.0	114.0	112.0	111.6	111.7	111.0	111.1	111.7	112.0
	24	112.0	110.9	110.0	109.1	110.0 <sup>d</sup>	108.8	108.3	113.0	110.0	110.4	110.0	112.2
	25	116.1	115.0	117.0	115.0	112.2	110.4	108.0	109.6	110.0	111.0	110.8	111.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	111.4	112.7	115.2	115.4	111.7	107.4	107.8	109.0	109.3	109.8	110.6	111.6
	28	115.8	116.6	118.7	119.8	116.3	113.0	111.4	111.0	111.5	112.0	112.0	112.0
	29	112.6	117.1	120.0	117.0	114.9	110.5	108.0	107.2	107.6	109.1	110.6	111.2
	30	116.2	118.3	118.0	117.8	117.7	112.0	108.2	107.0	109.0	109.8	117.4	112.2
	31	115.8	117.3	118.9	119.0	116.0	112.3	109.3	109.4	109.2	110.4	110.0	109.8
Hourly Means	114.81	115.16	116.42	114.93	113.01	110.21	108.11	108.18	108.93	110.25	110.77	111.66	

<sup>a</sup> Ten minutes late.

<sup>b</sup> Five minutes late.

DECLINATION.												
Angular Value of one Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
119.2	115.2	116.8	122.4	124.0	126.2	125.6	113.2	—	—	—	—	115.27
117.5	120.8	114.0	121.0	113.2	110.8	110.0	110.0	112.7	114.3	116.3	112.0	112.92
114.8	114.9	113.0	113.2	113.6	110.0	107.8	114.0	117.4	118.0	113.1	121.0	111.19
115.7	121.0	112.5	116.0 <sup>a</sup>	117.0	113.0	113.0	113.2	114.4	114.6	116.0	116.8	113.78
115.0	113.0	113.7	113.2	113.6	113.0	114.2	114.6	111.0	115.2	117.8	116.1	113.33
115.0	115.0	115.2	114.8	113.7	113.4	—	—	—	—	—	—	113.28
—	—	—	—	—	—	118.8	115.2	107.9	102.7	119.0	122.6	113.28
112.5	114.8	122.6	113.6	113.0	113.9	112.8	116.1	115.3	120.4	121.2	125.2	113.33
113.8	119.0	120.6	118.3	114.6	114.2	113.2	114.2	116.0	114.0	117.0	120.0	114.41
113.0	113.9	113.2	113.0	112.0	114.5	112.8	117.0	118.0	118.4	118.2	117.6	114.43
115.0	114.2	113.7	113.7	122.0	122.4	120.0	113.0	119.2	117.7	116.4	112.0	114.49
114.2	114.0	120.4	115.4	113.2	113.4	111.8	111.5	112.5	110.6	120.7	119.7	114.02
112.4	112.5	112.8	112.0	112.0	112.0	—	—	—	—	—	—	112.63
—	—	—	—	—	—	112.8	112.8	113.7	114.0	114.9	115.0	112.63
112.4	112.8	113.0	116.1	112.8	112.0	110.0	112.2	115.0	117.0	117.2	116.0	112.19
112.0	112.2	110.8	112.6	113.3	116.0	113.1	115.6	115.0	116.2	117.3	117.2	112.70
113.1	111.3	118.1	124.0	116.2	113.4	113.6	125.6	115.8	131.6	126.8	121.2	115.27
114.0	114.2	123.0	113.6	117.0	114.7	121.8	102.8	120.3	123.7	119.5	124.3	114.87
112.2	112.8	112.2	115.9	114.1	111.0	115.9	117.5	112.3	125.0	118.1	117.0	113.64
113.5	111.2	114.3	110.8	129.0	117.8	—	—	—	—	—	—	114.00
—	—	—	—	—	—	113.1	114.0	115.0	107.7	116.7	116.4	114.00
113.0	112.4	112.4	112.6	112.4	113.2	111.6	116.4	114.4	114.2	114.6	115.4	113.20
109.7	110.9	112.2	111.4	112.0	115.2	120.0	115.4	116.2	116.4	117.2	119.0	113.55
113.0	110.2	113.2	109.5	117.0	126.5	128.0	126.3	107.1	100.6	116.0	126.5	114.37
121.3	117.4	113.4	119.4	148.0	112.8	113.1	100.1	110.2	119.0	117.3	109.4	111.05
113.0	111.2	110.9	113.8	113.6	110.9	113.0	115.3	109.6	107.5	115.0	121.2	112.33
118.4	116.9	113.2	133.3	113.0	123.0	—	—	—	—	—	—	113.16
—	—	—	—	—	—	116.2 <sup>c</sup>	113.2	113.0	114.4	115.4	112.0	113.16
114.2	116.0	116.9	123.0	118.4	113.2	113.2	111.0	113.9	114.0	113.5	111.8	112.61
114.2	114.7	112.4	112.7	116.0	111.9	114.1	113.0	113.8	114.0	114.2	112.1	112.33
114.31	114.33	114.79	115.97	116.72	114.94	114.98	113.97	113.99	115.33	117.18	117.50	113.39
115.2	114.2	118.0	114.3	116.4	114.1	112.6	114.0	118.0	111.8	115.0	115.0	112.58
113.2	113.0	112.5	112.4	113.0	112.1	112.3	113.0	113.0	112.0	113.8	105.0	112.29
114.1	113.0	127.2	114.8	115.0	114.7	114.3	114.0	113.2	113.3	114.0	114.8	113.55
112.2	112.9	113.2	113.0	112.2	113.0	—	—	—	—	—	—	113.25
—	—	—	—	—	—	113.4	115.5	112.2	117.0	116.4	114.7	113.25
112.6	112.4	113.2	113.4	113.0	115.6	112.6	115.1	114.5	114.8	114.8	114.8	112.61
109.9	116.2	112.0	112.2 <sup>b</sup>	112.0	112.4	113.1	107.4	114.2	114.3	113.8	113.0	112.17
112.2	110.4	114.0	111.8	113.0	113.0	115.0	114.0	113.6	116.1	116.0	115.4	113.13
125.8	106.0	107.3	110.8	112.8	114.8	117.0	112.0	122.0	120.4	130.2	119.2	114.25
113.2	113.8	112.0	113.4	112.4	111.0	114.8	116.2	113.8	120.2	112.6	119.0	111.74
112.0	112.6	114.0	111.4	112.6	112.0	—	—	—	—	—	—	112.66
—	—	—	—	—	—	115.7	113.8	113.4	113.8	115.7	116.0	112.66
112.8	113.0	112.6	112.8	112.3	112.8	113.0	118.0	117.3	115.6	114.8	115.0	112.88
112.0	112.2	115.0	114.9	112.1	112.2	112.4	113.0 <sup>a</sup>	113.2	114.0	114.8	115.8	112.92
113.2	113.0	113.0	112.8	111.8	112.2	114.8	111.2	114.0	114.4	116.0	115.8	111.84
112.0	112.8	112.0	112.2	115.8	114.7 <sup>d</sup>	114.0	122.1	128.4	128.5	119.0	117.2	115.23
107.2	110.8	111.0	113.2	117.3	117.0	112.8	114.6	115.8	115.0	115.6	116.0	112.81
111.7	112.5	111.4	116.0	114.7	116.2	—	—	—	—	—	—	114.08
—	—	—	—	—	—	115.5	112.8	114.3	116.2	116.0	117.2	114.08
111.0	117.0	113.0	115.0	115.0	112.6	120.0	131.1	127.0	121.8	126.9	120.0	114.39
112.8	122.4	125.2	144.1	131.2	117.0	113.0	113.2	111.7	115.0	114.2	112.0	114.93
112.8	113.0	114.2	113.2	114.0	111.9	113.8	112.9	113.2	115.0	115.3	115.7	113.36
112.4	112.2	112.4	112.6	113.2	113.8	113.2	115.0	114.3	119.9	115.4	120.4	113.87
113.4	112.8	112.2	117.4	117.3	121.9	125.2	127.2	119.0	120.2	118.6	120.0	114.58
112.0	113.0	113.1	112.8	116.0	117.0	—	—	—	—	—	—	113.11
—	—	—	—	—	—	114.0	113.2	113.2	114.0	115.0	115.2	113.11
112.5	113.0	113.0	113.2	113.0	113.2	115.9	114.4	114.0	114.2	115.8	115.8	112.50
111.7	112.8	111.5	114.2	112.0	112.6	116.0	114.2	114.4	114.0	114.8	116.0	113.93
111.0	113.0	113.0	114.2	114.7	116.2	114.2	114.4	114.8	114.8	114.9	115.8	113.20
112.6	113.4	114.0	113.8	112.9	113.9	113.5	113.4 <sup>a</sup>	113.2	114.0	114.7	114.2	113.22
108.8	110.2	114.0	120.9	114.0	111.7	112.2	111.0	113.2	110.0	122.9	124.0	113.76
112.60	113.02	113.85	114.84	114.43	114.06	114.60	115.06	115.51	115.94	116.56	116.04	113.29

<sup>c</sup> Two minutes late.

<sup>d</sup> Six minutes late.

DECLINATION.													
Angular Value of one Scale Division of the Declinometer = 0' · 721. Increasing numbers denote decreasing Westerly Declination.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
NOVEMBER.	1	Sc. Div. 116·0	Sc. Div. 116·4	Sc. Div. 116·2	Sc. Div. 116·8	Sc. Div. 109·2	Sc. Div. 106·2	Sc. Div. 100·0	Sc. Div. 104·0	Sc. Div. 104·5	Sc. Div. 105·2	Sc. Div. 104·3	Sc. Div. 103·7
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	115·6	118·0	120·4	117·0	116·7	112·8	109·3	108·5	108·0	109·2	110·4	114·8
	4	115·4	117·0	118·2	117·0	115·8	109·3	108·3	108·1	106·2	107·7	109·8	110·0
	5	117·0	118·0	117·8	107·8	99·8	96·6	97·8	99·0	100·0	106·0	110·0	113·5
	6	115·0	116·0	118·8	119·2	117·0	114·2	113·0	110·2	110·2	112·0	112·2	112·5
	7	118·0	115·2	115·0	112·2	109·9	108·4	106·2	104·5	106·9	107·3	108·8	111·2
	8	114·0	116·0	115·8	116·7	116·8	113·0	110·7	109·2	110·0	111·0	111·8	112·0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	116·5	117·6	116·3	115·8	112·5	109·8	108·6	107·2	108·8 <sup>a</sup>	111·1	111·8	112·2
	11	114·6	115·1	116·3	114·3	111·9	107·5	106·9	108·0	109·2	111·0	113·2	113·0
	12	117·2	118·0	119·2	117·4	113·0	109·2	107·0	107·1	109·1	109·0	111·8	113·4
	13	116·2	117·0	118·2	117·6	115·0	111·4	108·8	109·0 <sup>b</sup>	110·2	112·2	113·0	113·3
	14	115·0	116·2	118·0	116·1	112·2	108·0	106·0	106·4	109·0	110·0	112·5	113·8
	15	115·2	116·2	118·4	117·1	113·8	110·0	107·7	107·0	108·2	111·2	112·8	113·0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	109·8	122·5	119·2	119·0	119·2	107·4	106·4	106·5	104·0	103·4	112·0	112·8
	18	113·8	116·7	116·0	112·4	111·0	107·6	110·6	108·0	106·8	109·2	111·4	110·4
	19	112·2	114·4	119·0	116·2	112·3	111·2	109·2	109·3	108·9	110·8	111·1	112·0
	20	113·4	114·8	115·6	118·6	115·8	112·7	109·7	108·8	109·2	110·8	111·0	112·6
	21	112·2	114·8	116·2	117·0	114·0	113·1	110·7	109·0	110·0	111·3	111·9	113·2
	22	114·1	115·0	116·5	116·0	113·4	111·1	110·0	109·4	109·2	111·4	111·2	112·4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	115·0	116·1	117·0	117·2	116·0	110·2	109·7	108·8	110·2	112·0	112·2	112·8
	25	114·2	114·0	114·4	114·2	114·0	111·7	111·0	109·1	111·1	112·1	111·9	112·9
	26	114·0	114·6	115·4	114·0	112·2	111·0	109·3	109·4	110·4	112·0	113·0	111·8
	27	115·4	116·8	117·2	117·1	114·4	111·8	110·7	109·8	110·9	112·2	111·2	111·2
	28	104·4	115·5	119·6	119·0	115·2	111·8	110·0	110·2	112·0	111·4	114·8	116·2
	29	115·4	117·0	115·0	114·8	115·1	107·9	109·0	106·0	109·0	112·0	112·4	114·0
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	114·38	116·36	117·19	116·02	113·45	109·76	108·26	107·70	108·48	110·06	111·46	112·43
DECEMBER.	1	115·8	116·0 <sup>d</sup>	116·4	116·6	115·4	112·0	109·4	108·2	109·2	109·4	112·2	114·7
	2	117·6	117·9	115·6	115·2	114·2	113·2	111·1	110·1	111·5	113·0	114·0	115·0
	3	111·0	111·0	121·2	114·4	94·0	97·0	102·0	102·0	106·1	112·4	109·8	102·2
	4	114·9	115·0	114·2	115·5	114·8	113·0	109·3	109·0	109·4	111·0	112·0	113·4
	5	115·1	108·9	111·2	109·0	107·2	111·0	105·2	109·1	111·0	112·2	113·0	114·5
	6	117·0	116·0	117·2	117·4	115·8	114·7	112·4	111·2	111·4	111·6	113·0	114·0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	116·6	117·9	117·0	117·3	115·6	114·1	112·1	111·0	111·2	112·0	113·7	114·7
	9	115·3	115·1	116·0	116·0	117·0	115·3	113·0	111·8	112·2	113·2 <sup>e</sup>	115·0	114·0
	10	117·2	117·0	113·0	115·2	113·0	113·0	112·9	111·6	112·0	112·6	114·8	116·0
	11	116·9	117·0	117·0	116·4	115·2	114·0	111·4	111·4	112·0	113·8	114·6	115·0
	12	117·2	118·0	119·2	118·2	118·3	116·2	112·4	110·2	107·0	110·2	113·8	114·8
	13	108·2	114·9	111·2	112·3	112·6	107·7	107·8	106·0	107·0	108·0	107·8	110·3
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	102·8	115·1	114·0	114·9	118·0	116·1	111·0	105·7	105·7	105·0	113·0	115·2
	16	114·2	112·1	102·3	116·1	116·0	113·0	109·2	110·0	111·7	111·0	113·2	115·0
	17	116·0	115·7	117·1	115·8	116·2	113·0	112·2	112·0	109·8	113·2	114·5	115·2
	18	108·0	113·6	114·4	111·8	114·2	112·0	110·4	110·0	110·2	111·5	112·6	114·2
	19	116·1	116·7	117·2	119·0	119·0	116·0	114·6	112·8	112·0	112·1	113·7	115·0
	20	115·0	115·9	117·0	119·6	118·2	116·5	114·8	113·1	111·2	110·7	111·8	113·8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	115·2	116·0	118·8	119·4	119·0	116·0	113·0	112·2	111·0	111·7	115·0	114·1
	23	115·5	116·3	117·0	119·4	120·0	119·2	114·8	111·3	111·9	113·0	113·1	114·8
	24	113·2	114·0	118·2	118·6	117·6	117·0	113·6	110·3	110·5	111·7	114·2	115·0
	25 <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	113·7	116·2	118·0	119·0	119·8	118·2	115·4	113·2	112·1	112·0	112·8	114·0
	27	116·6	118·2	117·2	116·3	114·2	114·4	114·0	112·0	111·2	111·8	113·0	114·0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	114·8	113·2	116·2	117·4	115·5	114·5	113·1	111·8	111·8	112·1	112·8	114·0
	30	114·4	106·1	104·9	110·2	107·0	112·2	111·2	106·2	110·0	112·2	112·5	113·8
	31	116·6	115·2	116·5	117·0	115·9	114·0	113·1	111·9	112·0	111·2	112·4	113·2
Hourly Means	114·42	114·96	115·31	116·08	114·76	113·59	111·52	110·16	110·43	111·48	113·01	113·84	

<sup>a</sup> Four minutes late.

<sup>b</sup> Five minutes late.

<sup>c</sup> Twenty-two minutes late.

<sup>d</sup> Three minutes late.

DECLINATION.												
Angular Value of one Scale Division of the Declinometer = 0'.721. Increasing numbers denote decreasing Westerly Declination.												
12 <sup>b</sup> .	13 <sup>b</sup> .	14 <sup>b</sup> .	15 <sup>b</sup> .	16 <sup>b</sup> .	17 <sup>b</sup> .	18 <sup>b</sup> .	19 <sup>b</sup> .	20 <sup>b</sup> .	21 <sup>b</sup> .	22 <sup>b</sup> .	23 <sup>b</sup> .	Means.
Sc. Div. 114.2	Sc. Div. 118.0	Sc. Div. 115.9	Sc. Div. 116.7	Sc. Div. 114.3	Sc. Div. 116.3	—	—	—	—	—	—	Sc. Div. 112.05
—	—	—	—	—	—	114.2	116.0	116.4	114.2	111.6	116.8	113.26
113.0	113.0	114.2	114.2	114.0	113.4	113.8	113.2	108.4	111.7	113.8	114.9	112.54
110.2	111.0	113.4	114.4	113.1	119.9	115.0	118.0	114.0	112.9	102.3	113.9	110.45
114.7	115.0	115.4	114.1	113.8	113.0	112.4	112.3	113.0	114.2	115.0	114.6	114.65
113.0	113.0	113.1	113.0	116.9	118.5	113.9	113.0	111.0	118.0	113.8	124.0	112.89
108.7	114.0	113.8	113.9	115.0	123.3	124.0	118.2	113.0	113.2	113.6	115.0	113.28
113.0	113.2	113.2	113.2	113.0	113.0	—	—	—	—	—	—	113.89
—	—	—	—	—	—	112.8	108.9	114.7	114.0	115.6	117.2	112.64
112.0	119.0	119.4	118.8	123.0	112.7	112.2	112.0	112.2	115.0	114.0	114.8	113.35
114.4	114.0	113.8	113.2	115.8	112.0	111.9	112.7	112.3	113.0	115.2	114.0	113.96
114.4	114.8	114.8	114.1	113.0	113.0	112.7	113.2	114.0	114.3	114.8	116.0	112.79
114.0	114.2	114.0	115.2 <sup>c</sup>	119.0	113.2	112.9	113.0	113.6	114.4	114.6	115.0	113.86
114.1	114.6	113.3	113.4	113.0	113.0	113.4	113.0	113.4	113.8	114.0	114.8	112.00
113.4	112.2	114.0	113.8	113.4	114.0	—	—	—	—	—	—	112.14
—	—	—	—	—	—	114.0	114.7	115.2	115.2	108.2	134.0	113.27
115.8	114.8	114.2	113.7	113.0	112.0	111.0	106.0	108.0	111.0	111.1	115.3	113.23
114.2	115.9	115.2	129.0	116.7	112.2	113.2	114.5	105.5	107.4	107.0	106.6	113.19
112.9	114.8	114.4	119.9	113.7	115.0	113.9	111.0	113.2	114.0	115.2	113.8	113.14
113.7	113.9	114.0	114.2	114.6	115.0	113.2	113.6	112.4	113.2	114.0	112.7	113.89
113.0	115.0	114.7	114.8	113.6	113.2	114.2	113.0	112.4	113.0	113.2	113.0	112.92
113.6	114.1	115.6	114.2	113.0	113.2	—	—	—	—	—	—	113.36
—	—	—	—	—	—	114.0	113.0	113.2	113.0	113.7	113.7	113.98
114.0	114.2	114.3	114.5	124.5	113.5	113.4	113.0	114.0	113.7	113.7	113.4	114.54
112.6	113.7	113.2	113.0	113.0	113.9	113.0	112.7	112.7	114.0	115.2	113.4	113.95
112.8	114.6	113.7	114.0	114.0	114.0	115.2	114.4	114.7	115.0	115.2	115.3	113.17
111.4	117.0	113.3	112.0	114.9	113.4	115.6	123.8	117.8	120.4	107.2	110.0	112.78
116.6	116.3	117.0	124.0	118.8	116.1	114.2	109.7	113.9	115.9	110.1	116.2	115.11
115.8	116.9	117.8	118.0	116.8	112.5	—	—	—	—	—	—	114.89
—	—	—	—	—	—	115.2	115.2	114.0	113.8	115.7	115.4	115.34
113.42	114.69	114.63	115.57	115.36	114.36	113.97	113.52	112.92	113.93	112.71	115.41	114.80
116.0	117.2	117.8	118.1	115.2	115.4	116.0	115.0	115.4	118.4	118.6	120.2	114.89
115.2	115.8	116.0	116.0	116.2	120.0	119.2	118.8	108.2	120.6	116.4	98.0	115.66
106.0	105.2	104.0	97.7	116.9	120.1	120.4	118.3	117.0	116.0	116.8	115.2	114.80
114.6	115.5	115.0	114.1	114.2	117.2	116.0	113.1	113.2	107.0	109.6	120.0	113.80
115.3	115.2	115.0	114.2	115.8	113.0	115.0	116.0	116.0	113.4	116.0	114.4	112.78
114.4	115.0	116.0	123.4	115.5	116.0	—	—	—	—	—	—	115.13
—	—	—	—	—	—	—	—	114.2	115.3	116.0	115.0	115.13
115.3	115.1	115.6	116.0	115.8	115.0	116.1	116.0	115.0	114.2	114.8	115.2	114.89
114.2	119.7	116.0	115.8	115.8	115.2	115.2	116.0	115.0	116.3	116.0	119.0	115.34
115.8	116.1	115.6	115.2	115.8	115.4	115.3	115.1	115.1	115.4	115.6	116.5	114.80
115.2	116.0	117.0	113.7	115.2	115.0	115.0 <sup>f</sup>	115.3	114.8	116.0	113.4	114.0	114.80
115.2	116.0	116.4	117.0	117.0	116.1	117.1 <sup>f</sup>	115.2	116.0	115.3	120.0	119.0	115.66
114.8	117.2	120.0	121.2	118.0	118.4	—	—	—	—	—	—	113.19
—	—	—	—	—	—	117.8	114.7	115.0	118.2	115.4	112.0	113.89
115.0	120.1	117.0	122.4 <sup>g</sup>	117.8	118.2	119.2	112.2	109.1	114.5	114.9	116.4	114.29
117.7	118.0	118.5	120.0	115.8	117.7	118.2	114.9	118.2	116.0	107.2	116.9	114.90
115.2	127.6	115.9	116.7	117.2	116.0	115.0	115.0	108.6	112.2	116.8	110.8	113.80
115.0	116.2	116.2	115.9	115.5	115.3	116.7	115.2	117.0	117.6	114.0	113.6	115.81
116.2	117.0	117.3	119.0	118.2	117.0	115.2	115.6	114.6	115.4	114.9	114.8	115.13
115.0	110.0	115.7	117.4	117.0	116.1	—	—	—	—	—	—	115.41
—	—	—	—	—	—	116.2	116.0	114.9	115.0	117.2	115.0	115.64
115.0	115.8	118.0	115.8	116.4	115.9 <sup>g</sup>	115.2	115.0	114.8	115.0	116.0	115.6	115.01
115.6	116.7	116.2	116.3	115.8	115.8	115.8	114.8	115.0	115.7	115.9	115.4	115.60
116.0	116.0	116.3	116.8	115.3	115.7	—	—	—	—	—	—	114.65
—	—	—	—	—	—	115.0	115.5	114.2	116.0	114.0	115.5	114.65
113.0	115.4	115.6	116.0	116.2	115.8	115.0	117.1	115.0	117.8	117.2	116.0	115.41
114.9	117.0	119.0	115.3	115.0	115.1	—	—	—	—	—	—	114.65
—	—	—	—	—	—	113.8	113.6	113.8	113.9	114.1	113.2	115.41
114.5	114.5	114.8	114.8	115.2	128.2	123.1	116.2	117.7	119.0	115.2	109.3	113.17
114.0	114.0	117.0	119.2	118.0	117.2	116.4	114.7	115.4	114.8	117.4	117.2	114.46
115.2	115.0	116.2	116.8	118.9	116.0	114.0	114.0	112.4	114.2	110.2	115.1	114.48
114.78	116.05	116.08	116.34	116.30	116.80	116.48	115.33	114.45	115.51	115.14	114.74	114.48

<sup>c</sup> Two minutes late.

<sup>f</sup> Five minutes early.

<sup>g</sup> Twenty-one minutes late.

<sup>h</sup> Christmas-day.

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JANUARY.	1	572·8	575·4	573·8	559·5	557·5	552·5	558·0	558·0	565·8	572·4	574·0	573·1
	2	573·5	574·8	572·0	566·0	557·7	553·7	553·0	559·4	566·4	571·6	570·8	574·0
	3	579·6	580·3	580·8	570·6	562·0	559·6	561·6	564·2	567·3	573·3	576·5	577·0
	4	574·9	576·0	576·8	573·7	570·3	567·0	567·4	566·0	566·0	573·5	573·0	577·3
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	588·9	589·0	592·0	594·0	596·9	594·8	589·5	588·5	585·9	587·0	589·5	591·0
	7	595·0	596·0	597·0	600·0	600·1	599·8	597·5	592·0	587·8	591·8	590·0	597·7
	8	591·0	593·0	590·0	587·8	586·4	587·0	587·5	586·2	587·6	587·2	587·5	586·9
	9	586·6	586·6	579·6	596·1	587·4	571·4	587·3	581·6	577·2	576·5	568·6	590·8
	10	564·5	568·0	564·4	560·0	561·3	561·3	564·2	571·8	564·8	563·4	569·0	569·3
	11	570·2	569·3	568·5	566·0	561·8	560·0	566·0	567·5	573·4	575·0	575·5	578·2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	583·5	583·4	577·4	570·0	573·5	574·7	578·2	579·8	585·0	587·8	589·4	587·2
	14	587·5	592·8	587·5	579·0	573·8	576·0	572·7	586·7	583·6	587·0	588·0	578·2
	15	589·8	589·7	584·9	574·5	565·6	564·2	567·2	572·0	576·0	582·8	586·3	581·0
	16	582·5	581·3	580·8	576·4	569·4	564·9	565·0	569·2	574·3	578·9	584·1	580·5
	17	582·6	582·6	579·4	576·0	569·9	567·8	572·2	574·5	574·3	579·0	585·8	587·5
	18	591·9	586·6	585·2	580·1	573·4	569·5	569·7	571·4	567·9	581·8	582·6	586·0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	599·0	593·0	583·0	575·7	579·7	578·0	573·7	576·8	570·6	570·2	577·6	583·3
	21	584·2	585·7	582·8	584·8	582·9	576·8	578·7	575·6	571·6	576·3	576·4	575·6
	22	580·9	583·1	578·8	569·6	572·0	571·0	571·9	570·0	574·1	574·8	580·0	578·0
	23	581·1	577·6	568·0	563·6	578·4	572·3	573·7	574·0	575·0	568·7	570·0	569·6
	24	569·2	573·0	573·5	569·9	565·9	564·7	554·0	559·6	569·3	573·6	572·6	554·1
	25	570·5	556·0	572·0	570·7	561·9	565·8	562·7	569·2	577·8	571·7	581·3	579·9
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	570·9	580·5	573·3	573·7	575·0	578·1	579·8	581·8	582·5	581·7	566·3	575·1
	28	580·5	581·2	579·8	568·1	553·7	552·6	551·5	558·1	559·2	555·0	553·5	556·0
	29	577·7	572·8	569·5	566·9	563·3	562·2	558·9	553·5	570·1	561·0	566·8	563·5
	30	579·9	576·1	571·9	570·0	561·5	563·0	568·0	572·7	568·7	571·8	576·4	582·4
	31	583·0	583·0	581·0	575·8	572·0	569·5	574·5	575·5	579·4	585·6	585·9	590·4
Hourly Means	581·17	580·99	578·66	571·06	567·90	569·56	570·53	572·43	574·13	576·27	577·68	578·28	
TEMPERATURE OF THE BIFILAR MAGNET.													
JANUARY.	1	44·4	45·0	44·8	44·8	44·8	45·0	45·2	45·4	45·6	45·3	45·3	45·2
	2	45·8	45·4	45·0	44·7	44·6	44·8	45·4	45·7	45·7	46·0	46·0	45·6
	3	43·5	43·5	43·4	43·2	43·4	43·6	44·0	44·2	44·5	44·5	44·4	45·5
	4	44·6	44·2	44·0	43·5	43·8	44·0	44·0	44·3	44·3	44·3	44·6	44·6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	36·7	36·4	36·0	35·8	35·5	35·7	35·6	35·6	35·6	36·0	36·5	36·8
	7	35·0	35·2	35·4	35·0	35·4	36·0	37·0	37·5	37·7	37·7	38·2	39·6
	8	39·5	39·5	39·5	38·7	39·6	39·7	40·6	41·0	41·2	41·8	42·2	41·8
	9	42·0	42·0	42·5	43·4	44·2	45·0	45·6	46·4	46·8	47·2	47·5	47·0
	10	43·9	43·4	43·2	43·1	43·5	44·2	44·7	45·4	46·3	46·5	46·5	46·0
	11	43·5	43·5	43·0	42·7	42·9	43·3	44·2	45·0	45·4	45·4	45·7	45·3
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	36·4	37·2	37·0	36·6	36·9	37·2	37·9	37·6	38·6	39·5	40·3	39·9
	14	38·5	38·5	38·1	38·0	37·9	38·5	38·5	37·3	37·2	38·4	39·2	39·7
	15	40·0	40·3	40·4	40·8	41·4	41·7	42·8	43·5	43·5	44·0	44·6	44·8
	16	45·0	45·0	44·4	44·2	44·5	44·7	45·0	45·2	44·8	44·8	44·8	44·5
	17	41·0	41·0	40·5	40·3	41·4	42·0	42·2	42·8	42·8	43·0	42·9	42·3
	18	40·0	40·2	40·2	41·0	41·6	42·4	42·5	43·0	43·1	43·1	42·7	42·4
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	36·0	36·1	36·1	36·0	36·4	36·4	37·6	38·6	39·0	39·6	40·0	39·9
	21	42·7	42·7	42·5	42·6	42·6	43·0	43·6	44·1	44·7	44·9	45·2	45·4
	22	45·6	45·6	45·2	45·2	45·3	45·7	45·9	46·2	47·0	47·2	47·8	48·4
	23	45·5	45·4	45·0	45·5	46·0	46·6	47·0	47·2	47·0	46·8	46·8	47·0
	24	47·5	47·4	47·5	47·2	47·5	48·0	48·0	48·7	48·8	49·0	48·8	49·0
	25	44·2	43·6	42·8	42·0	41·4	41·5	41·8	42·2	42·2	43·0	43·6	43·0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	39·2	39·2	39·0	39·2	40·2	41·0	42·2	43·4	44·4	44·9	45·1	44·8
	28	45·6	46·6	46·5	46·2	46·6	47·3	48·0	48·2	48·8	49·2	49·2	49·4
	29	45·7	45·5	45·0	44·4	44·7	45·2	45·5	45·5	46·0	46·4	46·0	45·6
	30	40·3	40·3	39·8	40·0	40·4	40·5	41·0	41·8	42·3	43·4	43·6	44·0
	31	38·4	38·4	38·4	38·5	39·0	39·3	39·1	38·8	38·0	37·6	37·8	37·5
Hourly Means	41·87	41·89	41·67	41·57	41·91	42·31	42·77	43·13	43·38	43·69	43·94	43·89	

**HORIZONTAL FORCE.**

One Scale Division = '000087 parts of the H. F.    Change in the magnetic moment of the Bar for 1° Fahr. = '000234.

12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
577.0	572.2	570.5	571.2	568.9	575.0	574.8	574.5	575.2	571.0	571.9	573.0	569.50
572.1	573.0	573.3	575.2	575.8	575.0	574.5	576.0	576.2	578.8	577.6	578.0	570.77
575.6	576.0	575.3	571.0	575.4	574.0	575.0	571.0	570.7	574.0	574.4	574.5	572.49
577.1	577.9	577.7	579.2	576.9	575.9	—	—	—	—	—	—	576.96
—	—	—	—	—	—	586.4	586.9	586.8	587.6	584.6	588.1	—
590.6	591.0	590.4	590.7	589.7	590.0	590.8	591.4	592.0	594.1	595.0	594.3	591.13
589.2	589.1	586.5	587.0	586.5	587.8	587.7	586.8	590.0	587.8	589.0	589.0	591.30
584.8	580.8	580.0	578.7	578.0	575.1	576.0	576.0	580.0	580.0	584.0	589.0	584.19
559.8	554.2	584.5	557.0	573.0	557.6	558.5	558.0	559.5	558.0	561.7	565.7	572.38
569.5	561.0	562.7	565.4	563.7	567.9	568.6	568.4	566.9	571.0	571.5	570.8	566.23
573.7	574.4	575.7	568.9	570.2	583.8	—	—	—	—	—	—	—
—	—	—	—	—	—	578.5 <sup>a</sup>	581.5	582.1	585.4	585.0	582.0	573.86
587.3	588.1	586.7	585.6	584.9	586.0	582.9	583.0	585.0	584.7	584.8	581.0	582.91
580.0	583.4	584.6	584.0	586.2	582.6	583.0	583.8	586.9	580.5	585.5	582.6	583.16
580.1	581.0	581.0	581.0	580.3	578.8	576.8	577.3	575.8	578.0	581.9	581.7	578.65
579.0	577.0	577.3	579.6	578.8	580.5	579.5	587.7	573.3	579.9	580.4	582.3	577.61
587.0	585.5	582.0	580.0	595.1	580.3	579.6	579.5	586.3	585.4	584.9	588.3	581.06
584.1	583.5	582.6	583.7	586.0	582.6	—	—	—	—	—	—	—
—	—	—	—	—	—	563.5	562.6	569.5	580.0	574.9	584.0	578.46
583.0	584.1	585.0	583.3	581.0	577.8	583.1	576.9	580.0	582.0	581.8	581.7	580.85
567.1	571.2	571.0	569.0	572.0	570.2	572.0	573.7	574.0	574.6	576.0	580.5	575.95
553.1	580.2	580.9	573.8	575.5	571.0	571.9	582.8	576.2	574.7	568.9	578.1	574.64
565.7	572.0	575.7	563.3	555.0	570.8	571.0	573.8	563.8	562.9	572.4	572.0	570.43
555.8	560.4	562.0	557.6	572.0	567.7	569.1	564.2	571.2	567.8	565.8	562.8	565.66
573.4	576.2	580.7	583.9	580.9	583.0	—	—	—	—	—	—	—
—	—	—	—	—	—	566.5	579.5	580.5	578.6	580.8	572.4	574.00
578.0	579.0	579.0	576.5	579.3	580.0	578.0	577.6	578.4	578.0	578.8	578.6	577.50
555.5	564.0	556.8	570.7	566.8	566.0	563.5	569.6	547.0	555.9	556.9	572.5	562.27
562.8	571.9	572.4	577.6	574.4	574.4	576.0	572.7	576.4	577.1	577.7	579.5	569.96
580.0	579.2	581.5	580.5	581.0	580.8	579.3	582.0	577.0	577.0	579.0	574.0	575.57
588.3	586.2	581.0	589.5	589.0	591.9	592.2	591.0	591.8	590.0	596.5	596.6	584.98
575.17	576.76	577.66	576.44	577.64	577.28	576.23	577.34	576.76	577.59	578.59	579.74	576.39

**TEMPERATURE OF THE BIFILAR MAGNET.**

45.5	45.5	45.2	44.7	45.0	45.5	46.0	46.2	46.0	46.2	46.4	46.0	45.38
45.2	44.8	44.6	44.5	44.5	44.4	44.2	43.8	43.7	43.5	43.5	43.5	44.79
45.5	45.3	45.4	46.0	46.0	46.0	46.0	46.0	46.0	46.0	45.6	45.0	44.90
44.6	44.2	44.1	44.1	44.2	44.0	—	—	—	—	—	—	—
—	—	—	—	—	—	37.6	37.4	37.2	37.2	37.2	37.6	42.48
36.8	36.0	36.0	35.6	35.2	35.2	35.2	34.8	35.0	34.8	35.0	34.8	35.69
40.0	40.0	39.4	39.3	39.1	39.0	39.0	39.0	38.8	38.8	38.9	38.5	37.90
41.6	41.6	41.5	41.0	40.5	40.4	40.1	40.1	40.4	40.9	41.4	41.5	40.67
47.5	47.0	46.8	46.4	46.4	46.0	45.5	45.6	44.8	44.5	44.2	44.2	45.35
46.0	45.5	45.3	45.2	45.2	45.3	45.0	44.6	44.4	44.2	44.2	43.5	44.80
45.5	45.4	45.6	45.4	44.6	44.6	—	—	—	—	—	—	—
—	—	—	—	—	—	36.7 <sup>a</sup>	35.5	35.7	35.7	36.0	36.4	42.38
39.4	39.2	39.0	38.7	38.7	38.7	38.9	39.3	39.0	38.8	38.8	38.5	38.42
39.5	39.9	40.0	40.0	40.0	40.0	40.0	40.0	39.8	40.0	40.0	40.0	39.13
45.0	45.0	45.0	45.4	45.6	46.0	46.0	46.0	45.7	45.3	45.2	45.1	43.88
44.4	44.3	44.0	44.0	43.7	43.0	42.7	42.5	42.2	42.0	41.6	41.4	43.86
41.6	41.6	41.2	40.8	40.2	39.7	39.9	39.4	39.0	39.0	39.2	39.8	40.98
41.6	40.6	40.0	39.0	38.8	38.7	—	—	—	—	—	—	—
—	—	—	—	—	—	33.3	33.4	33.4	34.0	35.0	35.3	39.39
39.9	40.2	40.5	40.4	41.2	41.4	42.0	42.0	42.4	42.4	43.0	42.4	39.56
45.5	46.0	46.0	46.0	45.8	45.5	45.5	45.3	45.2	45.3	45.3	45.3	44.61
48.4	48.3	48.2	48.0	47.7	47.0	47.0	46.4	45.9	45.5	45.5	45.5	46.60
46.7	46.7	46.6	46.8	46.2	46.2	46.5	46.0	46.0	46.2	46.7	47.0	46.39
49.2	49.2	49.1	48.6	48.2	48.0	47.8	47.5	47.3	46.7	46.0	45.0	47.92
42.5	41.6	41.3	40.5	39.6	39.6	—	—	—	—	—	—	—
—	—	—	—	—	—	38.4	38.0	38.0	38.6	39.0	39.0	41.14
44.8	45.5	45.5	45.5	45.5	45.5	45.5	45.7	45.6	45.6	45.8	45.8	43.70
49.5	49.5	49.5	49.0	48.5	48.2	48.0	48.0	47.6	47.2	47.0	46.0	47.90
45.0	44.6	44.3	43.4	42.6	41.6	41.4	41.2	41.0	41.0	40.6	40.4	43.86
43.6	42.6	42.6	41.7	41.2	40.7	40.0	39.0	39.0	38.5	37.8	38.0	40.92
36.6	35.6	35.2	34.6	34.0	33.2	32.4	30.5	30.5	30.5	30.0	29.4	35.55
43.76	43.54	43.40	43.13	42.89	42.72	41.87	41.60	41.47	41.42	41.44	41.29	42.52

<sup>a</sup> Thirteen minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
FEBRUARY.	1	596.6	599.6	597.5	593.3	587.3	584.0	583.8	589.6	595.5	600.2	599.1	601.4
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	602.3	605.0	599.2	599.6	591.1	585.8	586.2	591.0	594.0	597.0	599.0	597.0
	4	595.3	595.4	598.3	594.0	594.0	592.7	593.0	592.0	588.2	591.4	591.0	590.8
	5	598.4	599.9	598.4	602.0	586.3	584.5	594.5	594.7	596.8	600.4	601.6	601.2
	6	602.1	598.6	592.5	593.6	591.6	588.0	587.5	590.1	593.9	597.6	598.3	595.9
	7	596.6	598.6	595.7	594.1	585.7	587.4	589.9	595.2	599.2	597.6	587.5	588.5
	8	591.0	587.9	584.2	578.8	579.0	578.5	578.3	578.5	583.1	584.8	589.7	588.0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	587.2	589.0	589.0	586.3	582.5	577.7	583.9	583.0	584.5	584.5	587.0	588.5
	11	584.0	583.1	580.8	577.0	576.0	574.5	572.0	570.5	572.8	580.5	580.5	583.2
	12	580.0	575.0	578.0	572.7	569.4	565.6	567.0	569.2	573.4	579.1	585.1	586.8
	13	592.4	597.0	591.4	591.0	591.2	587.0	584.8	585.6	587.6	590.9	594.2	594.0
	14	597.7	599.1	599.0	598.2	594.2	590.4	585.5	586.4	589.7	593.7	596.0	597.8
	15	590.2	588.8	586.8	583.9	579.0	571.8	571.7	572.7	579.0	579.6	582.0	584.0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	590.0	590.2	587.9	584.0	579.5	577.3	573.7	579.6	582.0	584.6	582.0	580.0
	18	581.5	581.0	579.5	577.9	575.4	571.8	567.6	570.9	574.3	578.2	579.1	578.5
	19	577.8	579.8	580.9	576.8	577.2	574.3	569.5	568.4	573.4 <sup>b</sup>	579.1	580.5	580.0
	20	588.5	577.3	575.5	575.7	577.0	577.4 <sup>b</sup>	574.9	574.3	574.4	580.8	570.6	571.0
	21	571.0	580.0	577.5	565.7	569.1	565.9	554.9	551.0	565.0	566.5	571.7	565.6
	22	573.7	565.0	564.6	556.7	549.2	537.4	551.9	560.3	571.9	568.6	564.8	569.1
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	578.4	563.0	567.5	567.8	559.7	560.0	556.5	559.0	554.1	559.1	552.9	557.5
	25	565.7	569.6	545.5	546.6	562.1	559.6	564.2	541.7	567.6	564.4	562.1	571.4
	26	570.5	542.4	559.6	560.3	538.9	556.0	550.7	555.6	556.9	565.9	559.9	567.2
	27	577.2	573.1	568.1	565.6	561.1	559.1	559.5	563.5	556.1	542.0	563.0	560.0
	28	577.7	565.8	569.5	573.0	567.9	556.6	554.8	562.0	564.5	573.6	571.2	578.0
Hourly Means	577.74	579.34	581.95	575.61	576.02	573.47	573.18	574.37	578.25	572.50	577.03	573.98	
TEMPERATURE OF THE BIFILAR MAGNET.													
FEBRUARY.	1	29.0	29.2	28.4	28.2	28.5	29.6	30.6	32.0	32.7	33.7	34.7	35.2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	31.2	32.0	32.4	32.0	32.7	33.4	34.0	34.2	34.2	35.0	35.4	35.9
	4	36.5	36.5	36.3	36.0	36.6	37.4	38.8	39.4	39.0	39.5	39.5	39.2
	5	31.8	31.4	30.7	29.7	30.5	31.0	31.5	32.0	32.5	32.1	31.6	31.6
	6	32.4	32.4	31.4	31.2	32.0	32.6	33.0	33.5	33.6	33.2	33.0	32.7
	7	34.2	34.0	34.2	34.6	35.2	35.6	36.2	37.0	38.0	39.4	40.3	41.0
	8	39.0	38.6	38.0	38.2	39.1	40.0	40.0	39.7	41.0	42.0	43.0	43.4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	40.0	40.2	40.2	40.4	41.4	42.3	42.8	43.5	43.5	43.5	44.0	43.8
	11	43.2	43.2	43.2	43.6	44.0	44.5	45.5	45.7	46.0	46.3	46.3	45.5
	12	45.5	45.5	45.0	44.8	45.0	44.6	44.3	44.2	43.6	43.6	43.4	43.0
	13	35.7	34.4	34.6	34.0	34.6	35.2	36.0	36.9	36.5	36.6	36.9	36.7
	14	33.6	33.5	33.0	33.0	33.7	34.2	34.8	35.0	36.2	37.4	38.2	38.5
	15	42.7	43.0	42.7	43.5	44.5	45.0	45.4	45.7	46.4	46.8	47.2	47.0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	42.5	42.6	42.6	43.0	43.6	44.2	45.0	45.7	46.0	46.7	46.7	47.0
	18	47.0	47.0	47.0	46.5	47.3	48.2	48.7	49.6	49.8	49.8	50.4	50.8
	19	47.4	47.2	47.0	47.0	47.6	48.2	48.8	49.6	50.0 <sup>b</sup>	50.1	50.1	49.6
	20	48.5	48.2	48.2	48.2	48.7	49.7 <sup>b</sup>	50.2	50.4	50.6	50.5	50.6	50.3
	21	49.5	49.1	49.1	49.0	49.8	50.2	50.6	51.4	51.7	52.4	52.7	53.0
	22	52.5	52.4	52.6	52.8	53.0	53.0	53.0	53.2	53.5	53.4	53.0	52.4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	45.5	45.5	45.9	45.6	47.2	47.5	48.0	48.0	48.4	49.2	49.6	50.5
	25	48.4	48.2	48.6	49.4	49.8	50.6	51.2	51.6	52.0	52.8	53.5	53.6
	26	50.2	50.0	49.6	49.5	49.5	50.0	50.2	50.2	49.8	50.0	49.8	49.6
	27	45.5	45.2	45.5	46.2	47.5	48.4	49.0	49.2	49.5	50.0	50.3	50.0
	28	44.5	43.8	43.5	43.5	44.3	44.6	45.5	45.5	45.5	45.5	45.5	45.4
Hourly Means	41.51	41.38	41.24	41.25	41.92	42.50	43.05	43.47	43.75	44.15	44.40	44.40	

<sup>a</sup> Seven minutes late.

<sup>b</sup> Four minutes late.

HORIZONTAL FORCE.												
One Scale Division = .000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fahr. = .000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 597.0	Sc. Div. 598.5	Sc. Div. 596.0	Sc. Div. 592.0	Sc. Div. 591.9	Sc. Div. 593.0	—	—	—	—	—	—	—
—	—	—	—	—	—	597.9	596.9	600.0	599.3	601.6	600.9	595.54
594.1	592.0	591.0	588.6	590.2	590.7	591.8	592.3	591.2	591.6	591.0	592.5	593.51
589.8	589.3	588.0	589.2	590.8	592.0	592.1	592.7	593.9	595.4	596.8	593.8	592.50
598.7	589.1	586.7	591.8	593.6	591.0	589.3	588.5	592.2	590.0	579.1	590.0	593.65
595.2	595.0	596.1	594.9	593.5	593.2	597.4	597.0	595.2	591.3	595.0	597.9	594.64
594.0	589.9	591.0	589.0	583.4	586.8	588.5	589.6	587.6	588.7	589.7	581.9	590.67
585.1	583.1	580.2	579.2	583.6	582.6	—	—	—	—	—	—	—
—	—	—	—	—	—	603.0	587.2	588.9	590.6	586.7	587.6	584.98
586.5	585.8	582.0	583.7	591.9	586.0	583.0	582.9	582.8	582.8	582.9	583.3	584.86
585.2	583.1	585.4	582.5	582.0	581.0	583.6	582.2	581.2	581.9	579.8	584.0	580.28
584.9	580.5	576.3	582.8	582.6	585.2	585.1	591.5	590.0	589.5	592.0	592.4	570.59
593.4	594.7	589.9	593.0	595.0	594.0	594.6	593.4	595.7	595.9	595.0	598.1	592.49
596.0	595.2	594.0	587.8	592.7	591.0	590.6	591.2	591.8	591.0	591.5	590.3	592.95
589.7	584.8	584.5	582.7	582.0	579.4	—	—	—	—	—	—	—
—	—	—	—	—	—	583.9	584.0	585.7	585.3	586.0	588.5	582.75
581.8	583.0	582.2	582.6	582.6	582.0	580.3	580.6	581.7	580.2	581.3	581.2	582.10
575.9	574.3	575.5	575.9	573.9	573.8	575.0	577.0	577.0	578.0	579.0	579.8	576.28
578.0	571.9	573.3	575.9	575.1	576.7	576.0	577.7	578.5	577.8	579.6	586.2	576.85
573.0	571.0	570.0	569.7	569.7	571.7	565.7	557.0	560.4	566.2	570.4	569.6	572.16
561.6	572.4	564.9	569.2	564.2	571.2	567.0	569.9	566.2	564.9	565.5	568.0	567.04
569.8	569.1	565.7	562.5	566.3	561.7	—	—	—	—	—	—	—
—	—	—	—	—	—	563.0	550.8	572.8	565.5	569.8	569.0	563.30
560.5	552.4	556.2	565.7	561.7	560.4	556.0	555.0	565.0	566.0	568.0	566.4	561.20
553.9	561.0	558.1	557.8	557.5	556.0	581.5	557.7	554.6	558.0	546.4	568.4	559.64
562.3	570.4	571.9	573.8	572.8	567.8	565.9	571.9	573.2	567.9	574.2	572.5	563.69
567.6	571.7	573.8	569.9	576.0	574.6	573.5	574.7	575.5	573.9	577.3	579.7	568.19
582.6	574.6	563.1	575.1	577.9	577.5	577.2	576.8	575.6	577.4	578.9	579.0	572.10
581.53	580.53	578.99	579.80	580.45	579.97	577.58	579.94	577.36	581.21	577.40	579.58	580.08

TEMPERATURE OF THE BIFILAR MAGNET.												
35.0	35.0	34.6	35.0	35.4	35.0	—	—	—	—	—	—	—
—	—	—	—	—	—	29.3	30.0	30.0	30.0	30.2	30.2	31.73
36.0	36.4	36.4	36.1	35.9	36.0	35.7	35.4	35.2	35.4	36.2	36.2	34.72
39.2	39.4	38.8	37.2	36.6	36.2	35.6	34.0	33.6	33.5	33.1	32.2	36.84
32.0	32.0	31.8	31.0	30.8	31.0	31.0	30.8	30.9	30.9	31.5	32.0	31.34
32.7	33.0	33.0	33.0	32.9	33.1	33.5	34.0	34.5	34.6	34.6	34.0	33.08
41.0	40.5	40.3	40.5	41.5	41.5	41.7	41.3	41.5	41.0	40.0	39.2	38.74
43.0	43.0	42.5	41.5	41.2	40.8	—	—	—	—	—	—	—
—	—	—	—	—	—	37.5	37.8	38.6	39.8	40.0	40.0	40.32
43.8	43.3	43.3	43.3	43.8	44.0	44.5	43.6	43.5	43.5	43.3	43.4	42.87
45.2	45.4	46.0	46.0	46.0	45.8	45.5	45.5	45.5	45.5	45.6	45.5	45.19
42.0	41.3	41.0	40.4	39.6	38.5	37.5	37.0	37.0	36.6	36.0	35.8	41.47
36.5	36.2	36.2	35.5 <sup>a</sup>	35.5	35.5	35.5	35.7	35.3	35.5	34.7	34.0	35.59
38.5	39.0	39.5	39.8	40.2	40.4	40.7	41.3	41.5	42.0	42.8	42.5	37.89
46.8	47.0	47.3	47.5	47.6	47.2	—	—	—	—	—	—	—
—	—	—	—	—	—	42.5	42.0	42.1	42.3	42.4	42.4	44.87
46.8	46.6	46.6	46.2	46.3	46.3	46.5	46.5	46.5	46.6	46.9	46.9	45.60
50.6	50.0	49.6	49.5	48.6	48.0	47.8	47.2	47.2	47.2	47.2	47.2	48.42
49.6	49.2	48.8	48.4	48.2	48.4	48.6	48.4	48.8	48.8	48.5	48.6	48.62
50.2	50.4	50.5	50.5	50.3	50.2	50.2	49.8	49.6	49.6	49.8	50.0	49.80
53.2	52.2	53.0	53.0	53.0	52.5	52.5	52.2	52.0	52.0	52.0	52.0	51.59
52.2	51.8	51.6	51.2	50.7	50.3	—	—	—	—	—	—	—
—	—	—	—	—	—	45.9	45.8	45.5	45.7	45.8	45.5	50.70
50.4	50.1	49.9	49.5	49.1	48.9	48.5	48.4	48.4	48.4	48.4	48.4	48.30
53.5	53.3	53.1	53.0	52.9	52.5	52.2	52.2	52.0	51.7	51.4	50.6	51.59
49.4	49.0	48.5	48.6	48.8	48.3	48.0	47.4	47.0	46.6	46.5	45.6	48.84
49.0	48.3	47.8	46.8	46.0	45.6	45.5	45.0	45.0	45.0	44.6	44.4	47.05
45.2	44.8	44.6	44.0	44.0	44.1	44.0	44.0	43.9	44.2	44.6	44.6	44.55
44.24	44.05	43.95	43.65	43.54	43.34	42.51	42.30	42.30	42.35	42.34	42.13	42.90



HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah. = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
MARCH.	1	578.8	578.0	574.6	569.6	562.6	559.8	558.0	562.9	567.5	572.1	578.7	575.9
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	577.5	576.5	573.8	571.3	568.5	567.8	565.8	570.2	576.1	574.5	579.4	580.0
	4	583.9	583.0	580.5	572.2	568.4	561.8	563.4	567.3	573.0	577.9	578.0	574.8
	5	577.6	578.1	573.9	570.0	565.1	562.5	562.0	565.0	571.0	578.1	577.9	577.7
	6	583.0	582.6	580.0	576.0	570.9	568.0	566.2	569.6	574.5	579.6	580.0	578.7
	7	580.1	577.0	573.0	572.8	569.5	565.8	563.9	561.6	568.0	579.0	582.2	570.7
	8	576.8	575.7	570.0	560.6	554.4	550.1	551.6	555.2	560.7	564.2	571.7	572.0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	579.8	578.2	572.6	565.7	566.3	562.8	565.0	564.6	565.3	574.3	575.0	578.8
	11	580.5	579.5	576.8	575.0	570.0	571.5	569.9	563.1	571.0	571.0	568.9	571.6
	12	581.0	579.8	574.4	570.3	565.5	562.0	558.0	561.8	566.4	569.7	573.8	579.6
	13	578.0	579.5	577.0	571.7	566.0	563.7	560.3	558.2	565.7	567.8	573.9	578.4
	14	575.7	571.0	569.5	570.8	568.4	563.5	562.1	555.8	562.0	565.9	563.9	575.9
	15	582.5	574.6	575.8	570.6	574.5	572.5	568.6	575.8	574.9	577.5	590.6	585.4
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	590.5	587.4	585.4	580.9	575.5	568.7	579.0	583.5	583.8	582.8	582.5	577.5
	18	589.1	584.5	581.0	570.0	565.7	561.9	573.0	587.5	582.5	589.4	577.4	572.2
	19	590.0	588.0	585.0	579.7	578.7	575.4	567.3	568.1	571.5	578.2	578.3	573.8
	20	597.6	595.5	589.1	580.1	577.2	553.7	545.0	572.8	579.3	580.2	577.5	576.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	583.0	580.5	575.3	561.6	561.0	561.0	568.0	573.0	577.6	579.4	577.5	578.8
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	578.3	564.0	576.5	575.2	561.4	548.7	549.6	570.7	566.1	561.4	574.3	576.3
	25	568.7	571.0	567.6	561.9	559.2	550.3	558.8	569.0	571.7	573.0	575.3	573.0
	26	573.7	571.2	562.3	567.7	558.3	552.8 <sup>c</sup>	548.3	548.6	557.2	567.0	573.0	575.0
	27	571.5	566.8	550.3	559.9	548.0	531.8	549.8	548.0	559.8	568.3	562.0	555.0
	28	568.0	563.0	556.2	557.5	550.5	546.7	549.5	551.8	552.6	561.4	555.5	563.7
	29	565.0	561.3	557.8	551.6	552.5	548.5	550.0	551.7	557.1	561.7	561.2	558.5
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	563.6	564.0	560.7	558.8	550.5	552.3	557.1	559.2	563.0	565.8	568.6	567.0
Hourly Means	578.97	576.43	572.76	568.86	564.34	559.34	560.41	564.60	568.73	572.81	574.28	573.85	
TEMPERATURE OF THE BIFILAR MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
MARCH.	1	44.5	44.5	44.3	45.6	46.5	47.4	47.1	47.6	48.0	48.8	49.8	50.5
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	46.2	46.2	46.0	45.4	45.2	45.5	45.6	45.6	45.6	46.4	46.5	46.5
	4	43.8	43.6	44.4	45.1	46.0	46.5	46.7	47.0	48.0	49.4	49.5	49.5
	5	46.1	45.7	45.5	45.1	45.5	45.7	46.5	46.9	47.0	48.2	49.0	48.8
	6	46.1	45.0	46.0	47.0	48.4	48.6	48.6	48.8	49.3	50.3	50.6	51.2
	7	47.0	47.0	47.2	48.4	49.3	49.8	50.4	50.8	51.0	51.0	50.6	50.6
	8	51.0	51.0	51.0	51.2	51.6	52.2	53.0	54.0	54.2	54.7	54.9	54.6
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	44.0	43.6	43.6	43.6	44.2	45.1	45.7	46.8	46.9	47.4	47.5	47.5
	11	45.0	44.7	45.6	46.1	46.9	47.7	48.2	49.0	49.0	49.9	50.5	50.5
	12	46.5	45.9	45.8	46.0	47.4	48.2	48.2	48.3	49.3	49.6	50.0	49.6
	13	47.2	46.6	46.6	47.5	48.2	48.8	49.3	50.2	50.8	51.6	52.4	52.6
	14	48.8	48.4	48.0	47.8	48.4	49.0	49.6	49.9	50.2	50.2	50.1	49.8
	15	41.0	40.4	39.6	39.4	39.2	39.2	39.4	39.5	39.5	39.5	39.8	39.5
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	38.5	38.8	39.5	40.4	41.2	41.6	42.7	43.0	43.5	43.6	43.8	43.8
	18	41.0	40.7	40.2	40.0	40.5	41.2	41.7	42.4	42.4	42.5	42.5	42.0
	19	39.0	38.8	39.2	39.4	39.4	39.6	40.0	40.4	40.6	40.6	41.0	40.9
	20	40.8	41.2	41.5	42.0	42.4	44.0	44.2	43.5	44.2	44.2	44.4	44.2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	41.4	41.5	42.5	43.7	44.5	45.5	45.5	46.0	46.0	46.4	47.5	49.0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	45.0	45.0	45.4	45.3	45.7	45.8	46.4	47.4	48.0	48.4	48.8	48.6
	25	47.2	46.8	46.8	47.8	48.6	49.4	49.5	50.0	50.6	51.4	51.5	51.7
	26	49.0	48.6	48.8	48.8	49.0	49.5 <sup>c</sup>	49.9	50.0	50.4	50.9	51.6	52.0
	27	51.3	51.3	51.6	52.5	54.0	55.0	55.4	56.2	56.9	57.4	57.4	57.3
	28	53.0	52.6	52.6	53.0	53.5	54.0	54.5	55.0	55.5	55.2	55.6	56.8
	29	53.0	52.7	53.0	54.0	54.5	55.4	56.4	57.4	58.2	59.8	60.6	60.2
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	56.0	55.4	55.8	55.6	56.4	57.0	57.7	58.4	58.8	58.8	59.8	59.9
Hourly Means	46.10	45.84	46.02	46.43	47.06	47.67	48.09	48.56	48.96	49.45	49.83	49.60	

<sup>a</sup> Twelve minutes late.

<sup>b</sup> Good Friday.

<sup>c</sup> Four minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the Magnetic moment of the Bar for 1° Fahr. = '000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
572.7	571.3	573.2	572.0	571.0	571.8	572.4	577.8	575.0	573.5	576.8	575.5	571.73
582.8	582.2	579.8	577.3	577.3	578.6	578.0	575.5	580.0	577.6	580.7	581.6	576.37
577.0	576.8	578.5	578.8	577.6	575.8	575.8	577.2	577.8	578.0	577.6	577.1	575.51
578.0	576.6	577.7	577.0	577.6	577.3	577.2	578.0	578.7	579.9	581.0	582.0	575.00
578.6	577.8	578.2	578.6	576.8	577.5	578.8	580.5	580.0	581.0	581.6	581.0	577.48
574.9	579.0	575.1	575.3	575.2	574.5	572.8	572.0	574.0	572.8	576.0	574.8	573.36
571.6	570.7	571.0	567.0	563.2	567.0	—	—	—	—	—	—	—
575.8	576.3	576.2	575.0	575.4	575.6	569.9 <sup>a</sup>	568.5	568.0	573.6	575.5	580.0	567.04
570.8	569.9	571.6	575.4	575.7	575.8	576.8	577.2	577.8	578.0	578.2	579.0	573.80
579.2	578.4	577.0	578.3	578.8	578.2	578.0	578.5	578.0	578.2	579.0	577.9	574.00
574.6	576.1	575.8	573.4	568.5	567.0	574.9	577.0	568.9	560.8	564.7	576.6	573.51
561.8	568.6	571.0	567.3	572.9	569.9	575.0	573.6	573.8	574.6	568.5	581.7	570.77
587.0	588.6	586.5	581.8	582.0	586.9	—	—	—	—	—	—	569.30
—	—	—	—	—	—	581.8	589.2	588.3	586.6	573.8	591.8	581.15
572.6	572.0	580.5	581.7	582.3	583.2	584.6	586.0	583.3	582.3	584.3	583.0	581.39
584.0	586.4	586.8	584.2	582.2	581.5	584.4	583.0	582.8	588.8	587.5	589.0	581.45
575.4	582.0	563.1	584.0	563.3	571.8	566.5	570.9	582.6	581.6	581.6	570.4	576.13
578.9	575.0	579.9	562.0	564.8	575.0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	577.3	582.0	581.8	582.2	576.50
577.1	576.2	576.5	570.3	575.0	576.7	—	—	—	—	—	—	—
—	—	—	—	—	—	582.8	578.5	571.8	574.0	574.4	579.5	574.56
559.8	539.1	547.4	557.7	553.8	554.2	565.6	562.5	564.0	568.0	570.0	570.0	563.13
572.0	564.0	563.0	567.5	566.0	565.0	568.0	568.6	569.6	567.6	566.8	567.2	566.87
560.0	562.0	575.0	576.5	566.5	565.4	573.8	569.0	570.0	568.8	568.4	571.0	565.90
557.6	557.7	559.7	565.9	560.0	560.0	561.2	561.8	565.1	566.5	567.2	568.0	559.25
563.2	562.3	561.2	562.9	563.0	562.4	558.1	559.0	562.8	561.0	561.0	560.0	558.89
550.4	554.8	558.4	559.9	558.2	557.0	—	—	—	—	—	—	—
—	—	—	—	—	—	560.0	560.0	560.0	560.0	563.0	561.6	557.51
566.0	560.2	560.0	559.0	560.0	557.0	556.5	560.7	560.0	555.6	560.8	560.6	560.29
572.07	571.36	572.15	572.35	570.68	571.40	572.89	573.33	573.80	573.76	574.22	575.94	571.22

TEMPERATURE OF THE BIFILAR MAGNET.												
50.3	51.1	50.0	49.8	49.4	49.0	—	—	—	—	—	—	47.36
—	—	—	—	—	—	45.6	45.6	45.2	45.2	45.6	46.3	45.58
46.4	46.2	46.2	45.	45.0	44.8	45.0	45.0	45.0	45.0	44.8	44.4	47.42
48.8	48.6	48.6	48.6	48.5	48.5	48.5	47.6	47.6	47.8	48.0	47.6	47.34
48.6	48.6	49.0	49.0	49.2	48.8	48.4	47.5	47.0	47.0	46.8	46.2	48.30
51.0	50.4	49.6	48.8	48.0	47.6	47.5	47.5	47.2	47.3	47.3	47.0	50.09
50.5	50.6	50.6	50.5	51.1	51.3	51.2	50.9	50.6	50.6	50.6	50.6	—
54.0	53.5	53.5	53.5	53.0	52.6	—	—	—	—	—	—	51.07
—	—	—	—	—	—	45.4	45.7	45.7	45.5	45.7	44.2	46.13
47.0	48.0	48.0	47.8	48.0	47.7	47.4	46.2	45.6	45.2	45.4	45.0	47.80
49.6	49.7	49.5	48.4	48.2	48.2	47.6	47.0	46.6	46.6	46.5	46.1	48.30
49.4	49.2	49.2	49.0	49.0	48.7	48.7	48.5	48.4	48.5	48.2	47.5	49.66
52.4	51.5	50.9	50.5	50.0	49.7	49.7	49.6	49.0	49.0	49.0	48.7	46.96
49.4	48.2	47.4	46.0	45.1	44.5	44.0	43.7	43.0	42.8	41.6	41.2	39.21
39.1	39.5	39.9	40.0	39.8	39.0	—	—	—	—	—	—	41.94
—	—	—	—	—	—	37.4	37.4	37.6	37.8	38.8	38.8	40.63
43.5	43.2	42.9	42.4	42.0	42.2	42.2	42.2	41.8	41.4	41.4	41.0	40.65
41.5	41.0	40.6	39.9	39.7	39.5	39.5	39.4	39.2	39.4	39.4	39.0	42.87
41.0	40.8	40.9	40.9	41.0	42.0	42.0	42.0	41.8	41.6	41.2	41.4	—
43.7	43.4	43.4	44.0	44.0	43.6	—	—	—	—	—	—	45.55
—	—	—	—	—	—	—	—	40.8	40.8	41.4	41.4	—
49.0	47.8	46.8	46.7	46.6	46.6	—	—	—	—	—	—	47.30
—	—	—	—	—	—	45.2	45.0	45.0	45.0	45.0	45.0	49.89
48.4	48.0	48.0	48.2	48.5	48.7	48.2	48.0	48.0	47.3	47.0	47.0	50.81
51.8	51.4	50.8	50.5	50.5	50.5	50.5	50.8	50.3	50.3	49.6	49.0	54.58
52.0	52.0	52.0	51.7	51.6	51.7	51.7	51.5	51.6	51.9	51.8	51.5	54.39
57.0	56.6	56.0	55.0	54.4	54.0	54.0	53.5	53.5	53.5	53.2	53.0	—
56.6	56.4	55.6	55.2	54.5	54.3	53.7	53.5	53.8	53.8	53.5	53.2	57.05
60.8	60.3	60.0	59.4	59.0	58.9	—	—	—	—	—	—	58.04
—	—	—	—	—	—	56.3	56.0	56.0	55.7	55.5	56.0	—
59.9	59.5	59.2	58.7	58.7	58.5	58.5	58.2	58.4	58.2	58.0	57.6	—
49.67	49.38	49.14	48.80	48.59	48.44	47.84	47.60	47.15	47.09	47.01	46.75	47.97

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the Magnetic moment of the Bar for 1° Fabt. = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
APRIL.	1	561.2	558.0	553.8	556.8	560.2	562.5	566.9	566.8	572.5	564.7	571.1	571.2
	2	573.1	572.8	567.8	561.5	559.1	562.5	567.3	569.3	570.0	573.0	576.0	576.4
	3	578.0	577.0	571.9	567.0	562.0	568.5	567.5	572.7	573.6	565.7	573.0	570.2
	4	576.0	572.5	573.5	560.0	554.6	555.6	559.7	566.0	569.2	577.6	577.4	578.3
	5	580.0	575.7	571.6	566.2	558.8	557.3	559.5	564.0	570.0	574.0	576.9	579.0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	585.9	585.3	581.3	572.0	567.2	565.6	564.5	572.4	577.8	580.7	586.1	589.0
	8	587.4	587.0	583.1	574.9	566.4	564.0	565.0	569.5	579.0	587.0	594.5	590.0
	9	590.0	589.0	586.7	579.0	566.4	557.8	557.4	564.4	570.4	580.4	585.8	589.0
	10	585.0	585.5	582.0	575.6	563.7	557.2	552.8	558.6	565.9	571.5	579.0	581.2
	11	577.8	582.6	580.6	577.9	568.6	563.4	563.6	561.7	570.4	575.8	581.8	578.5
	12	584.5	587.5	578.8	567.0	558.1	556.0	559.6	564.4	567.1	568.0	572.8	574.0
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	556.5	544.0	547.3	542.4	537.8	551.6	537.4	526.8	549.3	556.9	557.0	559.5
	15	555.1	555.6	556.0	550.0	548.5	546.5	548.3	552.5	556.3	547.2	559.6	557.4
	16	558.5	555.0	555.0	549.8	546.0	543.6	550.2	554.2	560.0	559.2	561.6	561.7
	17	563.0	561.8	560.0	550.9	545.6	548.6	551.4	556.6	561.9	565.5	565.4	565.2
	18	568.9	565.2	561.2	551.2	545.1	555.5	561.2	569.8	570.0	565.2	564.0	559.0
	19	564.7	563.3	559.2	559.9	550.6	540.8	543.5	552.9	570.5	550.0	567.5	556.5
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	562.6	562.0	557.0	549.5	544.0	546.0	555.5	558.0	562.0	555.6	563.3	568.3
	22	566.5	565.9	556.5	542.6	540.0 <sup>b</sup>	542.6	550.5	555.0	558.7	560.4	563.6	561.8
	23	565.0	562.4	561.5	551.5	537.0	531.5	534.1	546.5	558.5	573.4	555.0	559.8
	24	559.4	559.8	558.9	555.5	536.3	536.8	533.6	537.4	548.6	549.5	553.0	552.0
	25	537.2	546.8	551.2	542.8	533.7	529.7	530.5	543.0	548.5	554.0	561.0	556.7
	26	562.7	560.8	552.3	549.0	540.5	538.9	543.0	551.3	560.8	564.6	567.8	564.4
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	548.0	534.5	533.0	530.5	522.6	535.0	542.7	541.5	551.8	556.0	560.9	557.3
	29	561.7	557.0	549.8	539.6	535.0	533.4	538.2	542.2	548.2	550.7	553.8	552.2
	30	557.4	558.2	548.9	540.7	540.6	537.7	544.8	551.0	561.8	562.5	564.8	550.8
Hourly Means	567.93	566.35	563.04	556.30	549.58	549.64	551.87	556.48	563.58	564.97	568.95	567.59	
TEMPERATURE OF THE BIFILAR MAGNET.													
APRIL.	1	57.4	56.8	56.2	55.2	54.5	54.0	53.7	53.2	53.2	53.2	53.2	52.7
	2	49.0	49.0	49.5	50.5	51.5	52.0	52.4	52.5	52.5	52.7	53.0	53.2
	3	46.5	46.5	47.0	47.7	48.5	49.0	49.5	49.7	50.0	50.4	50.4	50.6
	4	48.6	49.1	49.5	50.0	50.0	50.2	50.4	51.0	51.0	51.0	51.2	51.0
	5	46.4	46.6	46.2	46.0	46.4	46.8	47.0	47.0	47.0	47.0	47.0	46.4
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	40.8	40.4	40.4	40.6	41.0	41.7	42.7	44.0	44.5	45.5	45.9	46.2
	8	39.3	39.2	39.2	38.7	38.5	39.5	40.0	40.5	41.0	42.0	43.5	43.8
	9	41.0	40.4	40.8	42.5	43.5	44.5	45.0	45.7	46.4	47.2	47.6	47.4
	10	48.0	48.0	48.5	49.6	50.0	50.7	51.1	51.5	51.4	51.4	51.6	51.5
	11	49.0	48.6	48.0	47.4	47.8	48.4	49.0	49.5	50.0	51.0	51.7	52.5
	12	47.2	47.5	48.3	49.5	50.4	51.2	52.0	52.3	52.7	53.2	53.8	54.0
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	51.7	52.3	53.0	53.7	54.6	55.7	56.0	56.2	56.6	57.5	58.4	58.8
	15	52.7	53.0	53.7	55.0	56.0	56.9	57.4	57.6	58.0	59.0	59.5	60.2
	16	55.0	54.5	54.0	54.0	54.4	54.6	55.0	55.0	54.6	54.4	54.4	54.2
	17	53.5	53.5	53.4	53.2	53.2	53.4	53.6	53.7	53.7	53.7	53.7	53.6
	18	53.2	53.4	53.2	53.2	53.7	54.2	54.5	55.0	55.0	55.2	55.5	55.5
	19	55.0	55.0	54.8	54.8	55.2	55.5	55.8	56.0	56.0	56.0	56.0	56.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	53.5	53.5	53.5	53.6	54.0	54.3	54.5	54.8	54.8	55.2	55.6	56.2
	22	52.7	53.5	54.5	55.5	56.4	57.0	57.5	57.7	57.6	58.2	58.8	59.3
	23	56.6	56.8	57.3	58.4	59.4	60.5	61.4	62.0	62.5	63.2	63.4	63.2
	24	62.6	62.5	62.2	62.5	63.0	64.2	64.8	65.6	66.2	66.6	66.3	66.0
	25	59.2	58.5	58.0	57.5	57.5	57.5	57.5	58.0	58.0	58.0	58.0	58.4
	26	56.5	56.5	56.5	57.0	57.5	58.0	58.5	58.7	59.0	59.8	60.5	61.2
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	57.0	57.0	57.4	57.6	57.8	58.8	59.4	60.5	61.4	62.2	63.0	63.3
	29	58.8	59.0	59.6	60.4	61.2	61.5	61.5	61.7	61.9	62.5	63.0	63.2
	30	58.2	57.8	57.8	58.3	59.2	59.7	60.0	60.4	61.5	62.1	62.4	62.7
Hourly Means	51.90	51.88	52.02	52.40	52.89	53.45	53.85	54.22	54.48	54.93	55.28	55.43	

<sup>b</sup> Two minutes later.

HORIZONTAL FORCE.												
One Scale Division = .000087 parts of the H. F.      Change in the Magnetic moment of the Bar for 1° Fah°. = .000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 568.5	Sc. Div. 568.5	Sc. Div. 568.1	Sc. Div. 566.7	Sc. Div. 567.0	Sc. Div. 565.8	Sc. Div. 566.0	Sc. Div. 569.4	Sc. Div. 568.8	Sc. Div. 571.0	Sc. Div. 573.9	Sc. Div. 574.1	Sc. Div. 566.40
570.6	571.6	573.8	573.8	575.9	577.8	576.2	577.0	581.2	578.9	581.0	576.0	572.61
571.5	571.2	574.6	574.7	573.0	564.2	572.5	567.9	567.0	574.2	579.8	577.9	571.48
567.0	569.3	572.5	573.6	576.2	572.2	575.0	575.0	574.5	578.0	578.0	577.5	571.13
579.0	577.0	579.9	578.0	572.0	577.0	—	—	—	—	—	—	—
—	—	—	—	—	—	580.0	577.5	577.8	579.7	582.9	588.2	574.25
586.0	582.0	574.0	585.6	583.5	588.0	584.5	585.0	587.7	583.8	588.0	585.8	580.90
587.6	587.6	587.4	586.0	585.8	585.8	587.9	587.0	587.6	588.4	589.0	588.8	583.20
581.6	580.6	583.2	584.6	582.1	584.0	583.0	585.0	582.5	582.0	583.2	584.0	579.67
578.0	576.8	577.0	577.0	577.0	577.0	577.8	578.0	579.0	579.0	579.0	579.6	574.72
575.9	576.0	575.2	575.0	576.0	576.8	578.9	580.0	581.4	580.6	580.0	582.8	575.89
574.4	570.2	569.1	572.0	572.4	573.0	—	—	—	—	—	—	—
—	—	—	—	—	—	555.5	551.1	549.8	555.0	550.7	545.1	565.67
558.3	551.9	552.7	548.5	552.4	553.0	552.9	557.4	554.0	557.0	558.5	559.0	550.92
560.3	553.0	551.1	553.5	555.1	554.2	554.2	553.9	558.8	557.0	556.6	556.2	554.04
565.0	563.4	560.3	562.0	561.0	562.0	563.3	562.0	562.8	566.0	563.0	562.8	558.64
565.5	567.0	567.0	565.0	565.0	564.0	565.0	570.0	568.2	570.8	570.4	563.8	562.40
565.0	562.0	549.5	554.0	561.5	558.0	559.9	562.8	559.4	551.0	564.6	565.5	560.40
562.0	553.5	560.2	559.6	559.6	562.0	—	—	—	—	—	—	—
—	—	—	—	—	—	563.8	560.0	560.1	566.6	564.5	564.0	558.97
560.2	561.4	564.6	563.0	569.5	564.6	562.5	563.0	561.9	562.0	563.0	564.0	560.15
563.0	561.0	558.0	559.0	561.0	558.1	562.5	563.0	564.5	565.0	565.0	566.4	558.78
561.1	554.3	555.0	555.0	549.0	552.1	553.0	552.7	551.8	558.6	556.8	560.8	554.04
546.8	549.5	548.0	547.9	548.2	548.6	549.7	540.3	531.1	546.7	551.8	550.3	547.49
557.7	557.8	557.5	555.8	556.6	554.9	556.4	561.5	558.0	557.9	561.0	561.0	551.30
561.1	559.4	560.6	555.3	561.3	559.6	—	—	—	—	—	—	—
—	—	—	—	—	—	539.4	542.2	543.5	549.0	537.3	548.0	553.03
551.0	538.4	543.8	545.0	542.5	543.0	546.0	545.0	547.0	549.0	555.0	559.8	544.97
550.0	551.2	552.0	552.0	552.0	552.0	553.0	552.7	554.8	555.9	554.8	555.0	549.97
559.5	556.0	517.4	517.0	513.8	532.3	529.8	541.3	552.9	554.6	550.0	553.0	545.70
566.41	564.22	562.79	563.06	563.44	563.85	563.41	563.87	564.08	566.07	566.84	567.28	562.57
TEMPERATURE OF THE BIFILAR MAGNET.												
52.5	52.2	52.2	51.8	51.5	51.5	50.4	49.8	49.6	49.4	49.4	49.0	52.61
53.0	52.6	52.2	51.4	51.4	51.2	51.0	50.0	49.0	48.6	48.0	47.0	50.97
49.8	49.5	49.2	49.0	48.5	47.8	47.8	47.4	47.0	47.8	48.7	49.0	48.64
50.2	49.5	49.2	48.5	48.5	48.4	48.4	48.0	48.0	47.5	47.0	47.0	49.30
46.4	46.0	45.8	45.5	45.0	44.6	—	—	—	—	—	—	—
—	—	—	—	—	—	43.2	43.4	42.8	42.8	42.6	42.0	45.41
46.0	44.9	44.5	44.3	43.0	42.8	42.6	42.4	42.0	41.8	41.4	40.0	42.89
43.8	44.2	44.3	43.6	43.2	42.6	42.2	41.2	41.2	41.0	41.2	41.0	41.45
47.0	47.0	46.8	46.2	46.0	46.4	46.6	46.5	47.0	47.2	47.5	47.7	45.58
51.0	50.3	50.0	49.8	49.5	49.7	49.6	49.4	49.4	49.4	49.4	49.0	49.99
52.5	52.2	51.4	50.5	50.0	50.0	49.6	49.0	49.2	49.0	48.4	48.2	49.70
53.8	53.2	53.2	53.2	53.2	53.0	—	—	—	—	—	—	—
—	—	—	—	—	—	53.6	53.5	53.2	53.0	53.0	52.2	52.09
59.7	59.4	59.0	58.0	57.6	56.8	56.4	55.5	55.0	54.5	54.0	53.4	55.99
60.8	60.4	59.8	59.0	58.6	58.2	57.6	57.2	56.7	56.3	56.2	55.2	57.29
54.0	53.6	53.6	53.7	53.8	53.9	53.9	53.5	53.5	53.5	53.5	53.5	54.09
53.6	53.5	53.5	53.5	53.5	53.3	52.8	52.7	52.8	53.2	53.6	53.6	53.41
55.3	55.0	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	54.65
56.0	56.0	56.3	56.4	56.4	56.4	—	—	—	—	—	—	—
—	—	—	—	—	—	52.0	52.1	52.7	53.1	53.5	53.5	55.02
55.8	55.4	55.4	55.2	54.8	54.0	54.2	53.6	53.2	53.2	53.2	52.5	54.33
59.3	58.5	58.2	57.7	57.7	57.9	57.9	57.5	57.5	57.2	57.0	57.0	57.17
63.0	63.0	62.7	63.0	63.0	63.0	62.5	62.4	62.4	62.5	62.6	62.2	61.54
65.5	65.0	65.0	64.8	64.3	64.3	64.0	63.2	62.6	62.4	61.4	60.0	63.96
58.5	58.0	57.6	57.3	57.2	57.2	57.2	57.0	56.7	56.6	56.6	56.5	57.60
61.6	61.6	61.6	60.8	61.0	61.0	—	—	—	—	—	—	—
—	—	—	—	—	—	59.0	59.0	58.4	58.2	57.8	57.0	59.03
63.2	63.0	62.9	62.5	62.0	61.6	61.4	60.6	60.2	60.0	59.3	59.1	60.47
62.8	62.0	61.5	61.5	61.0	60.5	60.0	59.7	59.5	59.5	59.2	58.6	60.84
62.4	62.4	62.0	62.2	62.0	61.8	61.6	61.0	61.2	61.4	61.6	61.1	60.87
55.29	54.94	54.72	54.39	54.14	53.96	53.48	53.10	52.92	52.85	52.73	52.32	53.65

\* Three minutes late.

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the Magnetic moment of the Bar for 1° Fah. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MAY.	1	554.8	556.0	549.3	545.3	544.7	548.0	548.0	550.0	551.9	549.0	546.5	549.8
	2	552.0	552.4	547.7	541.0	540.0	540.2	552.6	557.8	557.4	552.7	559.5	556.6
	3	561.5	560.0	552.5	545.7	545.8	549.6	553.6	554.2	558.3	558.0	564.4	562.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	564.8	564.7	561.7	553.7	552.0	552.8	560.5	567.2	570.2	566.9	571.4	572.0
	6	568.2	566.8	562.4	556.6	551.8	552.5	563.7	576.3	573.0	580.6	571.5	569.0
	7	570.2	569.0	563.1	551.6	544.0	556.3	563.4	564.0	575.0	576.5	583.0	572.8
	8	576.5	572.7	564.1	556.0	557.5	553.6	553.5	553.4	564.0	568.0	573.5	574.0
	9	577.0	578.0	570.0	561.8	555.7	554.6	559.6	561.6	570.4	574.4	574.2	566.9
	10	568.6	564.6	557.0	550.8	550.0	548.2	550.2	558.2	563.6	564.5	562.0	561.8
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	550.6	550.3	543.8	542.4	546.5	546.9	548.9	549.0	551.8	553.8	549.2	547.0
	13	549.3	542.9	537.5	537.0	539.6	539.5	541.5	550.0	553.0	552.0	548.0	547.0
	14	547.5	549.0	542.5	531.5	535.0	537.0	535.0	539.5	546.5	547.8	559.4	566.8
	15	546.5	539.0	543.0	552.7	542.9	547.0	552.9	556.1	556.9	555.0	563.2	547.4
	16	563.3	563.0	567.6	561.8	557.0	558.6	543.7	562.3	563.5	568.8	566.3	567.0
	17	569.8	573.2	570.2	564.7	565.2	571.6	572.9	569.6	569.0	568.0	569.6	578.0
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	556.8	552.0	550.3	548.5	537.7	542.6	545.9	554.0	557.0	549.0	550.5	553.6
	20	562.1	556.4	551.6	551.0	550.0	553.0	556.0	556.7	562.8	568.0	571.5	561.6
	21	561.8	559.0	548.0	537.0	535.7	543.9	546.6	558.1	558.2	565.2	563.7	569.2
	22	564.6	565.5	560.0	547.4	533.6	533.2	545.8	554.9	566.6	580.5	565.1	567.9
	23	568.7	567.0	561.8	555.0	552.4	551.9	551.9	552.5	557.7	564.2	574.9	564.0
	24	561.9	561.9	564.4	560.0	553.0	553.3	558.8	566.0	563.0	566.5	565.0	564.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	573.0	570.8	566.9	559.6	553.6	553.4	555.3	557.0	562.7	567.8	573.0	566.6
	27	567.0	565.0	560.0	550.8	543.9	543.5	546.6	556.8	562.7	563.6	561.2	556.1
	28	563.5	559.4	557.0	549.2	544.8	549.0	548.1	553.6	558.9	563.3	561.8	559.1
	29	562.8	566.7	562.6	558.0	562.8	565.2	569.8	578.1	582.0	580.2	576.9	575.0
	30	580.5	577.2	571.3	562.1	558.5	561.0	568.0	580.0	590.0	580.0	583.6	575.5
	31	564.5	566.0	577.0	567.4	557.9	540.3	544.7	548.0	559.0	557.5	560.0	569.9
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	563.25	561.80	557.90	551.80	548.58	549.88	553.24	558.70	563.13	564.52	565.51	563.74	
TEMPERATURE OF THE BIFILAR MAGNET.													
MAY.	1	61.0	61.4	62.3	62.9	63.5	63.8	64.5	65.0	65.4	66.4	67.4	67.5
	2	60.2	60.0	60.0	60.0	59.7	59.5	59.4	59.5	60.0	60.8	61.8	62.6
	3	57.5	58.3	58.8	59.4	59.5	59.7	60.5	61.0	61.8	62.0	62.2	61.8
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	54.0	54.5	55.0	55.2	55.4	55.5	55.8	56.0	56.0	56.4	57.0	57.2
	6	53.0	53.6	54.4	55.0	56.0	56.0	56.5	57.0	57.5	57.9	58.9	60.0
	7	54.2	53.7	53.6	53.0	53.2	53.6	54.0	54.5	55.0	56.0	57.0	57.2
	8	51.0	51.8	52.8	53.5	54.0	53.7	53.0	53.2	54.0	55.0	55.5	55.5
	9	53.5	54.5	55.5	57.0	57.7	58.2	58.4	58.4	58.6	59.0	60.0	60.8
	10	55.7	56.2	57.0	58.0	58.6	59.4	59.8	60.2	60.6	61.3	62.0	62.4
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	63.4	64.2	65.2	66.3	67.5	68.5	69.0	70.0	71.2	72.0	71.6	72.0
	13	66.5	66.2	66.5	67.4	68.2	69.4	70.2	71.0	72.3	72.5	72.5	72.5
	14	66.3	66.3	66.5	66.5	66.5	66.9	66.9	67.2	67.4	67.2	67.2	67.6
	15	61.5	60.0	59.0	57.8	57.2	57.0	57.2	57.4	58.0	58.4	58.6	58.8
	16	53.7	54.5	54.7	55.4	56.2	56.2	56.4	56.7	56.9	57.2	57.4	56.8
	17	53.6	54.2	55.2	56.5	57.2	58.1	58.6	58.9	59.3	60.3	60.6	61.5
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	60.0	61.0	61.9	62.3	63.0	63.8	64.0	64.5	64.5	64.5	64.0	64.2
	20	59.4	59.8	60.0	60.0	60.5	61.2	61.5	61.8	61.8	62.0	62.5	62.8
	21	56.0	56.0	56.8	57.3	57.7	58.5	58.5	58.8	59.2	60.3	61.6	62.6
	22	55.5	55.3	55.2	55.4	55.8	56.4	56.6	56.7	56.5	56.7	56.8	56.8
	23	33.4	54.6	55.2	56.0	56.8	57.3	58.0	58.0	58.8	59.5	60.1	61.0
	24	54.5	55.0	55.5	55.5	56.0	56.2	56.5	57.2	57.7	58.5	58.5	58.3
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	54.6	54.7	55.5	56.5	58.2	59.0	60.2	60.4	62.0	62.2	64.4	64.6
	27	60.5	60.5	60.5	61.0	62.4	63.2	63.8	64.6	65.5	66.2	66.6	68.0
	28	62.6	62.6	62.4	62.4	62.6	63.5	63.6	63.8	64.0	64.2	65.2	65.5
	29	55.2	54.6	54.2	54.0	54.0	54.6	55.0	55.4	55.4	55.7	56.4	56.7
	30	50.6	51.5	52.6	53.8	54.5	55.0	55.0	55.0	55.4	56.0	57.0	58.0
	31	54.5	55.0	56.0	56.6	57.6	58.2	58.7	59.6	60.5	61.5	62.5	63.2
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	57.11	57.41	57.86	58.32	58.87	59.35	59.69	60.07	60.57	61.10	61.68	62.07	

\* Five minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F. Change in the magnetic moment of the Bar for 1° Fah. = '000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
544.7	542.9	543.0	543.8	544.2	544.9	544.2	546.9	549.0	548.8	549.3	551.8	547.78
553.2	553.6	555.0	552.2	555.0	556.0	554.0	555.0	558.0	561.0	562.0	562.4	553.64
562.7	565.1	572.4	563.4	568.2	556.0	—	—	—	—	—	—	559.35
—	—	—	—	—	—	558.9	562.0	560.5	562.5	563.0	563.8	563.58
566.1	568.0	561.2	562.0	563.1	562.1	562.5 <sup>a</sup>	561.6	565.0	564.6	565.6	566.2	566.68
564.0	564.0	561.0	562.0	561.8	561.2	558.4	560.7	565.6	567.0	565.3	569.0	567.33
566.5	565.8	566.0	566.4	566.2	568.8	569.0	570.5	570.0	571.9	573.0	572.8	568.92
572.2	574.9	575.6	572.6	572.5	575.4	575.3	573.3	572.0	571.2	576.7	575.5	566.28
567.0	564.5	563.2	561.7	563.0	562.8	564.0	565.0	567.5	568.0	569.0	570.8	—
562.0	562.2	562.8	561.3	562.3	562.0	—	—	—	—	—	—	557.42
—	—	—	—	—	—	546.6 <sup>b</sup>	548.8	550.4	552.8	553.7	553.6	547.65
545.0	544.0	544.0	544.9	547.0	547.4	547.9	549.2	548.0	546.2	550.0	550.4	543.79
533.4	542.6	543.3	540.8	530.3	544.1	551.0	545.1	542.6	545.2	547.4	547.8	546.37
552.3	539.6	547.4	548.0 <sup>a</sup>	544.6	545.5	548.3	550.5	547.0	546.7	554.5	551.0	556.42
559.0	558.6	556.8	555.5	557.0	561.0	562.0	568.0	571.0	572.0	563.0	567.6	562.97
564.0	566.0	565.8	564.0	565.5	563.0	564.0	561.8	562.4	561.0	564.3	566.6	—
569.0	572.0	560.5	548.4	576.5	576.6	—	—	—	—	—	—	565.04
—	—	—	—	—	—	551.1	552.9	549.7	553.2	557.2	552.0	561.32
553.0	555.9	550.0	545.9	548.8	551.2	550.5	550.9	552.6	556.0	558.0	561.0	555.89
553.2	553.9	543.2	546.9	551.1	563.1	550.8	551.6	556.0	557.4	558.7	554.8	557.71
565.0	559.0	553.1	553.6	554.2	560.7	563.2	560.1	566.5	566.5	567.3	569.5	559.64
568.0	568.0	565.9	565.0	558.0	558.0	556.0	556.4	561.4	562.8	563.0	563.8	560.29
567.0	564.5	561.6	561.0	560.4	560.7	561.8	563.2	562.2	552.2	556.1	554.3	—
564.6	564.0	562.8	550.1	558.3	568.8	—	—	—	—	—	—	563.43
—	—	—	—	—	—	568.8	568.2	569.1	570.0	569.9	570.0	561.35
560.0	558.6	557.2	557.8	556.9	556.7	558.0	558.6	559.8	561.2	562.8	565.0	556.30
554.2	553.0	553.4	554.0	555.0	556.2	556.8	—	—	—	560.0	562.6	557.05
559.0	554.2	554.9	557.0	558.0	559.5	560.0	558.8	564.4	563.8	564.6	547.2	568.69
574.0	574.0	569.0	559.0	565.7	567.0	565.6	568.3	565.4	559.4	567.6	573.4	567.19
559.2	559.8	557.1	553.2	556.5	564.5	561.9	560.0	565.6	559.8	562.8	564.5	—
560.4	559.9	553.8	554.8	547.8	552.1	—	—	—	—	—	—	557.65
—	—	—	—	—	—	554.7	557.9	558.3	555.8	558.0	558.0	558.82
559.95	559.58	557.78	555.75	557.33	559.46	557.97	558.67	560.00	559.88	561.59	561.66	—

TEMPERATURE OF THE BIFILAR MAGNET.												
67.7	66.8	66.2	65.6	65.0	64.2	63.6	62.9	62.3	61.8	61.4	60.8	64.14
62.8	62.8	62.4	61.1	60.8	60.0	59.5	59.0	58.5	58.4	58.0	58.0	60.20
62.0	61.7	61.4	61.0	61.0	60.6	—	—	—	—	—	—	59.26
—	—	—	—	—	—	56.7	56.0	55.5	55.0	54.5	54.4	55.37
57.6	57.2	56.5	56.0	55.6	55.2	54.6	54.4	54.0	53.7	53.5	52.6	56.46
59.7	58.7	58.0	57.7	57.0	57.0	56.0	55.8	55.2	54.8	54.8	54.5	54.23
58.0	57.2	56.0	55.0	54.4	54.0	53.4	52.6	52.0	51.6	51.4	51.0	53.80
55.0	54.6	54.4	54.4	54.5	54.0	54.2	53.7	53.5	53.5	53.4	53.0	57.83
61.2	60.8	59.8	59.2	58.6	57.8	57.5	56.7	56.5	56.5	56.0	55.7	—
62.5	62.5	62.0	61.5	61.0	60.5	—	—	—	—	—	—	61.17
—	—	—	—	—	—	64.8	64.8	64.6	64.6	64.7	63.5	69.05
72.0	71.5	71.0	70.8	70.6	70.2	70.0	69.2	68.5	68.0	67.6	67.0	69.35
72.0	72.0	70.8	70.2	69.6	69.2	68.8	68.2	67.8	67.2	67.0	66.5	66.35
68.0	68.0	67.6	67.2	67.0	66.6	66.2	65.5	65.0	63.9	63.0	62.0	57.21
59.0	58.7	58.0	57.0	56.4	56.0	55.5	55.0	54.5	54.2	54.0	53.8	56.10
56.8	56.8	56.8	56.8	56.5	56.4	56.4	56.2	56.4	56.4	55.2	53.6	—
62.0	62.0	61.2	61.2	60.5	60.2	—	—	—	—	—	—	59.36
—	—	—	—	—	—	61.0	61.2	61.2	60.6	60.2	59.4	62.69
64.0	64.0	64.0	64.6	64.0	63.1	62.2	61.2	60.7	60.0	59.6	59.4	60.15
62.6	62.6	61.6	60.6	60.0	59.4	58.7	58.2	57.5	56.8	56.4	56.0	59.13
63.2	63.0	62.6	61.9	61.0	60.0	59.2	58.2	57.5	56.7	56.5	56.0	55.83
56.5	56.5	56.5	56.0	56.0	55.5	55.5	55.5	55.2	55.2	54.6	53.2	57.70
61.5	61.2	60.5	60.3	59.8	58.8	57.7	56.6	55.6	55.0	55.0	54.2	—
58.0	57.8	57.2	56.6	55.6	55.0	—	—	—	—	—	—	56.22
—	—	—	—	—	—	55.0	55.0	55.0	55.0	55.0	54.7	61.49
66.0	65.8	65.4	65.0	64.5	64.0	63.5	62.7	62.3	61.8	61.4	61.0	64.38
68.3	68.0	66.5	66.0	65.5	65.2	64.7	—	—	—	62.5	62.4	61.96
65.5	65.0	64.0	62.0	61.2	60.4	59.5	58.7	57.5	57.4	57.6	55.8	54.16
57.2	54.8	54.5	54.8	54.4	53.8	52.9	52.2	51.5	51.2	51.2	50.2	55.56
58.6	58.0	57.5	57.2	57.0	56.8	56.5	56.4	56.0	55.9	55.2	54.0	—
63.0	63.0	62.4	61.7	61.0	60.5	—	—	—	—	—	—	59.87
—	—	—	—	—	—	61.3	60.6	60.4	60.0	59.5	59.5	—
62.25	61.89	61.29	60.79	60.31	59.79	59.44	58.71	58.26	57.89	57.75	57.12	59.57

<sup>a</sup> Three minutes late.

<sup>b</sup> Six minutes late.

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the Magnetic moment of the Bar for 1° Fah°. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
JUNE.	2	561.0	558.0	554.0	547.0	542.8	550.0	552.6	554.3	555.9	557.1	556.2	557.4
	3	558.0	556.5	554.0	545.6	535.8	534.6	539.0	544.2	552.0	551.5	557.3	558.0
	4	566.6	556.1	551.5	523.2 <sup>a</sup>	531.5	535.5	536.2	530.0	538.2	542.0	539.0	547.5
	5	551.3	551.0	552.9	547.7	541.9	538.0	538.0	540.0	549.0	550.9	557.0	550.8
	6	558.5	557.5	546.5	539.0	535.9	540.5 <sup>b</sup>	544.5	550.0	551.8	552.2	560.0	564.6
	7	568.0	567.0	566.0	559.0	552.8	553.0	555.3	559.2	563.0	571.3	571.2	564.0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	550.0	545.8	543.8	534.6	533.8	539.2	540.8	549.7	545.5	546.2	539.0	547.9
	10	554.6	554.8	550.6	548.0	542.7	542.8	542.4	542.1	542.0	542.5	554.0	552.0
	11	547.2	545.5	546.1	543.0 <sup>a</sup>	531.9	537.6	542.7	541.0	545.0	548.0	551.0	550.0
	12	550.5	555.0	555.0	543.8	533.9	531.0	536.0	545.0	553.7	559.0	563.8	559.6
	13	553.0	551.4	546.5	545.0	545.8	548.0	552.8	553.0	552.7	554.0	555.2	557.1
	14	555.0	552.5	548.5	541.9	538.0	538.2	542.5	555.2	564.8	569.4	566.2	557.4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	573.6	574.5	569.0	562.2	558.6	559.2	558.8	564.0	574.0	575.9	579.0	570.2
	17	570.8	570.0	565.8	564.0	564.0	562.5	569.3	576.6	577.0	580.0	573.0	570.0
	18	570.5	569.4	565.0	558.0	549.0	547.7	553.0	556.8	565.0	569.8	567.9	565.7
	19	567.3	573.0	569.2	562.4	557.0	553.8	555.0	565.4	573.0	570.6	572.0	568.0
	20	564.8	558.0	553.0	551.2	545.2	544.8	554.2	563.6	568.6	574.4	570.0	568.5
	21	557.8	555.9	556.0	548.2	543.0	543.6	545.7	543.0	551.0	553.5	552.0	557.5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	562.8	566.6	564.0	553.8	547.8	554.0	553.4	553.0	560.8	563.0	562.5	564.0
	24	557.0	559.0	556.8	551.0	546.0	544.0	545.0	551.7	571.7	560.0	556.0	548.8
	25	555.4	554.0	553.0	545.0	542.4	544.0	541.8	547.6	553.8	557.6	553.0	559.0
	26	562.3	557.9	548.6	542.0	541.2	542.0	545.8	553.0	563.0	568.0	569.0	564.0
	27	564.6	564.4	558.8	554.8	551.5	552.0	553.0	556.7	564.0	570.7	569.0	568.0
	28	550.2	557.2	551.2	546.9	547.8	551.0	552.8	552.5	559.3	563.0	563.0	560.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	564.0	560.0	556.9	553.5	548.5	547.6	556.7	561.8	576.1	568.3	571.6	571.8
	Hourly Means	559.79	558.84	555.31	548.43	544.35	545.38	548.29	552.38	558.84	560.76	561.12	560.05
TEMPERATURE OF THE BIFILAR MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	2	59.0	59.0	59.0	59.5	60.6	62.0	63.0	63.8	64.2	65.8	67.2	67.7
	3	64.5	64.5	64.5	65.0	65.2	65.8	65.8	67.5	68.0	69.0	69.5	69.8
	4	65.4	66.4	67.0	67.6	68.0	69.0	69.5	71.0	71.4	71.9	71.9	72.0
	5	67.2	67.3	67.2	67.0	67.0	67.4	67.2	67.4	67.4	68.0	68.5	68.5
	6	63.0	63.0	63.0	63.2	63.4	63.4	63.6	63.8	63.6	63.4	63.4	63.2
	7	59.5	59.6	59.6	59.5	59.8	60.0	60.4	60.8	61.5	62.4	62.8	63.2
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	68.2	68.6	69.4	70.2	70.8	71.0	71.4	72.0	72.7	74.2	74.2	75.9
	10	69.2	69.8	70.4	71.0	71.5	72.0	72.8	73.4	74.4	74.5	74.5	74.5
	11	69.0	68.6	68.7	69.0	69.4	69.5	70.0	70.5	71.0	71.7	72.3	72.6
	12	67.6	67.6	67.6	67.3	67.5	67.8	68.4	68.6	69.2	69.4	69.6	71.0
	13	69.0	69.2	69.5	70.0	70.2	70.0	70.4	70.6	71.8	72.2	73.2	73.0
	14	68.2	66.5	67.0	67.6	68.0	67.7	68.1	68.2	68.4	68.6	69.0	69.2
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	60.0	60.0	60.5	61.0	61.4	61.6	62.0	62.0	62.0	62.0	62.0	61.6
	17	58.2	58.7	59.0	59.5	59.5	59.5	59.7	60.0	60.5	61.8	62.8	63.4
	18	59.4	59.5	60.0	61.0	62.0	62.8	63.5	63.7	64.5	65.3	66.0	66.2
	19	62.6	63.0	63.5	65.2	65.0	65.5	66.0	66.5	66.8	67.7	68.0	69.0
	20	63.8	63.8	63.4	64.2	65.4	66.2	67.4	67.7	68.4	69.0	69.8	69.6
	21	66.6	66.4	66.8	67.3	68.2	69.0	69.6	70.2	70.4	71.0	71.5	72.0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	64.7	65.2	66.0	66.5	67.4	68.4	68.9	70.0	70.5	71.5	72.3	72.0
	24	69.0	69.4	70.2	71.0	72.0	72.5	73.0	74.0	74.2	74.5	75.0	75.4
	25	69.8	69.4	69.4	69.8	70.4	71.0	71.0	71.1	71.0	71.2	71.6	72.0
	26	65.2	65.4	66.0	66.7	67.0	67.5	67.9	68.0	68.5	68.8	69.4	70.5
	27	65.0	65.2	66.2	67.0	68.0	68.5	68.8	69.3	69.5	70.5	71.2	72.4
	28	67.0	66.6	66.5	66.5	66.5	66.2	66.5	66.7	67.0	66.7	67.0	67.0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	64.5	64.7	65.4	65.5	65.7	65.7	65.8	66.0	66.2	66.0	66.4	66.5
	Hourly Means	65.02	65.10	65.43	65.92	66.40	66.80	67.23	67.71	68.12	68.68	69.16	69.53

<sup>a</sup> Three minutes late.

<sup>b</sup> Six minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the Magnetic moment of the Bar for 1° Fah°. = '000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
557.0	552.4	548.6	550.4	548.5	548.7	550.0	550.0	552.0	552.0	553.0	554.0	552.62
555.1	550.5	549.2	550.0	549.5	551.5	543.0	537.8	540.6	542.8	560.0	559.6	549.00
545.0	538.0	539.5	537.0	544.8	547.0	547.8	548.0	549.4	546.6	545.6	549.3	543.14
554.0	555.6	552.5	553.2	552.8	551.0	552.8	554.9	551.0	551.4	552.5	554.5	550.20
571.2	571.2	567.4	567.8	566.7	566.6	564.8	562.8	563.0	563.8	565.0	567.5	558.28
563.0	561.0	564.0	565.2	557.3	560.0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	538.0	537.0	537.0	541.0	543.0	550.0
548.0	543.0	545.8	549.0	548.0	550.0	552.0	551.8	551.8	552.4	551.6	553.6	546.39
545.0	543.5	545.0	543.0	545.0	547.0	549.8	548.8	549.2	542.4	542.9	545.1	546.47
547.7	545.7	549.0	541.3	543.3	545.8	546.4	547.5	548.0	549.6	547.5	547.0	545.33
555.8	553.0	541.3	545.0	545.2	546.5	546.2	548.0	549.0	549.8	550.8	551.0	548.66
552.0	550.7	548.1	547.4	548.0	548.0	548.0	550.0	551.0	551.0	551.0	554.8	550.60
556.0	553.1	547.6	550.0	550.0	552.0	—	—	—	—	—	—	—
—	—	—	—	—	—	563.0	564.0	563.5	562.0	564.0	563.9	554.95
568.0	566.0	569.0	565.8	567.9	569.4	565.2	564.0	565.4	560.1	562.4	565.8	567.00
570.6	563.9	567.0	561.8	565.4	561.5	561.6	562.3	562.8	564.2	565.0	567.2	567.36
565.3	563.9	565.0	563.6	565.0	566.7	560.0	564.1	562.0	566.0	566.0	568.0	563.03
563.6	565.6	560.0	561.0	555.9	552.0	551.6	551.0	560.0	557.0	556.0	563.0	561.81
559.4	557.0	561.0	556.8	557.0	555.0	553.0	553.7	553.0	555.0	554.7	557.0	557.87
553.0	551.0	555.2	556.0	553.6	552.0	—	—	—	—	—	—	—
—	—	—	—	—	—	556.4	556.8	559.1	562.4	558.8	560.0	553.40
555.5	552.4	545.5	547.8	545.8	539.8	544.8	550.2	549.7	549.8	551.3	556.0	553.93
549.4	542.0	542.8 <sup>a</sup>	545.9	546.1	546.2	547.3	547.0	548.4	548.0	548.6	553.5	550.51
554.2	553.1	548.0	550.1	550.6	549.4	550.0	549.0	550.5	553.0	553.0	559.3	551.12
557.0	556.8	556.5	557.0	557.0	556.0	555.0	554.0	555.3	560.0	560.0	561.2	555.94
556.0	558.0	555.0	558.6	562.0	554.7	564.4	560.8	558.8	555.2	561.6	555.2	559.49
563.6	556.8	554.0 <sup>b</sup>	541.7	552.0	552.5	—	—	—	—	—	—	—
—	—	—	—	—	—	547.0	547.0	548.2	550.2	554.5	558.0	553.35
559.7	548.0	553.7	536.2	528.0	547.3	548.0	554.6	556.3	557.2	561.0	562.8	556.23
557.00	554.09	553.23	552.06	552.22	552.66	552.24	552.60	553.40	553.72	555.19	557.49	554.14
TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
68.0	68.2	68.0	67.5	67.2	66.6	66.4	65.7	65.5	65.0	65.0	64.5	64.52
70.0	70.0	70.0	69.5	69.0	68.5	68.0	67.7	67.6	67.2	66.6	65.8	67.46
72.0	71.7	71.2	70.4	70.3	70.3	69.6	68.8	68.0	68.2	68.0	67.3	69.45
68.5	68.2	67.8	67.2	66.6	66.0	66.0	65.4	65.0	64.5	64.0	63.5	66.78
63.2	63.0	62.8	62.4	62.1	61.8	61.5	61.0	60.5	60.4	60.1	59.5	62.43
63.2	63.0	62.6	62.4	62.4	62.2	—	—	—	—	—	—	—
—	—	—	—	—	—	69.0	69.0	68.6	68.5	68.2	68.0	63.17
75.7	75.3	74.6	74.0	73.2	72.8	72.2	72.0	71.6	71.4	70.8	69.4	72.15
74.5	73.7	73.2	72.8	72.7	72.5	72.2	71.6	71.2	70.8	70.2	69.2	72.19
72.8	72.6	72.0	71.6	71.0	70.4	70.0	69.0	69.0	68.8	68.8	68.2	70.27
72.4	72.8	72.6	72.0	71.5	71.2	70.7	70.5	70.3	69.9	69.4	68.8	69.74
72.7	72.3	71.4	71.0	70.5	70.4	70.0	69.5	69.0	68.7	68.0	68.2	70.45
70.0	70.2	69.4	68.5	67.0	66.5	—	—	—	—	—	—	—
—	—	—	—	—	—	60.7	60.7	60.7	60.5	60.1	60.0	66.28
61.3	61.0	61.0	60.7	60.4	60.4	60.4	59.6	59.2	59.0	58.6	57.8	60.65
63.4	63.6	63.2	63.4	63.0	62.6	62.2	61.5	60.8	60.0	59.7	59.2	61.05
66.2	66.0	65.4	65.2	65.0	64.7	64.5	64.2	63.5	63.2	62.7	62.3	63.62
69.5	69.5	69.0	68.5	68.0	67.5	67.0	66.6	65.2	64.5	64.0	64.2	66.35
69.0	68.8	68.8	68.6	68.6	68.0	67.7	67.7	67.7	67.5	67.2	67.0	67.30
72.0	72.0	70.5	70.0	69.4	68.8	—	—	—	—	—	—	—
—	—	—	—	—	—	66.0	65.8	65.8	65.4	65.6	64.3	68.52
73.0	73.0	73.0	73.0	72.8	72.4	71.8	71.0	70.8	70.5	70.0	69.6	70.18
76.0	76.0	75.2	74.5	74.2	73.6	73.2	72.5	72.0	71.4	70.7	70.0	72.90
72.4	72.0	71.6	70.9	70.4	69.8	68.8	67.8	67.0	66.5	66.0	65.2	69.84
71.0	71.0	70.5	70.2	69.5	69.0	68.3	68.6	68.6	68.3	67.8	65.4	68.30
72.5	72.5	72.3	71.7	71.3	70.6	70.0	69.2	68.8	68.4	68.2	67.3	69.35
67.0	67.0	67.0	66.6	66.6	66.4	—	—	—	—	—	—	—
—	—	—	—	—	—	66.2	65.8	65.5	65.2	65.0	64.2	66.36
66.5	66.3	65.9	65.6	65.3	65.0	64.5	63.9	63.5	63.0	63.0	62.5	65.14
69.71	69.59	69.16	68.73	68.32	67.92	67.48	67.00	66.62	66.27	65.91	65.26	67.38



HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JULY.	1	566.2	566.7	568.0	569.6	570.0	569.6	566.6	564.4	563.6	564.2	561.6	563.0
	2	562.4	564.8	561.5	556.4	561.2	564.8	567.6	562.3	559.9	554.3	561.0	559.8
	3	560.6	560.4	559.0	559.4	554.1	552.3	555.6	548.0	560.3	559.0	561.8	561.0
	4	559.7	561.0	559.8	553.6	546.9	551.0	546.9	547.0	555.0	562.0	572.2	572.0
	5	572.0	567.2	559.9	551.0	547.5	546.0	553.0	557.4	563.6	567.0	572.5	565.6
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	556.0	556.0	547.5	539.5	524.4	524.0	523.4	525.4	537.8	547.8	554.2	554.2
	8	553.8	555.5	549.5	540.7	538.3	535.8	537.0	540.5	533.9	546.3	543.0	543.8
	9	551.1	546.3	540.2	528.5	522.8	526.7	534.0	540.0	551.0	553.0	554.0	550.9
	10	548.0	557.2	550.7	551.8	545.0	547.0	547.9	547.0	546.0	549.0	549.0	552.8
	11	552.7	550.1	545.9	539.0	535.0	541.0	543.0	547.8	556.0	552.5	550.0	550.2
	12	547.8	546.0	545.5	542.6	537.8	543.7	546.8	547.4	549.4	555.2	538.8	536.7
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	538.6	540.0	541.8	530.7	528.3	525.7	530.6	536.0	541.2	536.2	540.4	541.0
	15	535.0	532.2	532.8	528.6	525.0	524.0	528.2	535.0	541.0	543.0	537.5	540.0
	16	533.9	543.2	539.0	531.9	525.4	521.8	524.5	537.0	543.5	549.0	545.5	543.7
	17	542.0	541.5	533.0	525.1	517.0	520.0	532.5	540.6	540.4	545.4	541.6	542.8
	18	547.0	547.3	541.0	537.0	535.8	532.6	536.7	541.6	561.0	544.7	548.8	547.8
	19	556.4	561.5	550.0	538.8	529.6	531.8	536.0	543.2	549.8	554.5	549.6	551.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	552.2	544.0	552.6	552.9	541.2	536.7	539.4	545.0	545.3	539.8	539.0	541.0
	22	549.0	548.0	546.2	543.0	537.0	533.2	535.8	542.0	550.0	549.0	545.0	545.3
	23	562.0	562.3	561.9	553.0	542.5	541.0	554.5	557.8	560.0	562.6	553.0	554.2
	24	555.7	552.2	549.8	543.8	525.2	535.8	553.8	556.0	566.0	566.0	572.7	554.0
	25	539.8	546.7	549.6	545.5	550.2	540.0	538.8	529.3	543.0	567.1	568.8	566.0
	26	554.4	551.4	551.2	553.2	548.8	542.0	547.3	546.0	549.0	552.9	560.0	544.0
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	555.0	555.3	553.2	546.0	538.6	536.2	540.0	551.0	550.0	552.0	553.0	551.6
	29	554.0	554.5	552.0	548.0	551.0	552.0	552.0	550.0	555.3	556.8	554.0	557.3
	30	563.0	559.9	558.0	548.0	542.8	550.8	552.6	555.7	564.4	567.1	571.5	565.0
	31	570.7	569.7	570.0	559.2	549.2	548.9	555.9	559.8	563.4	571.0	591.0	570.2
Hourly Means	553.30	553.37	550.72	545.07	539.65	539.79	543.72	546.41	551.84	554.35	555.17	552.77	

TEMPERATURE OF THE BIFILAR MAGNET.													
JULY.	1	62.0	62.0	62.3	62.7	63.5	64.2	64.7	65.0	65.0	64.6	64.2	63.7
	2	62.5	63.0	63.5	63.8	64.2	64.2	64.6	65.2	65.7	66.0	66.0	66.0
	3	61.6	61.6	62.0	62.5	63.0	63.7	64.3	64.8	64.8	65.2	65.5	66.4
	4	62.3	62.5	62.5	62.5	62.5	63.2	63.7	64.5	64.9	65.5	66.0	66.2
	5	62.6	62.5	63.2	64.0	65.0	65.7	66.0	67.0	67.2	67.5	69.0	69.8
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	69.0	69.5	71.0	72.4	73.0	74.5	75.0	75.5	75.8	76.6	77.2	77.8
	8	72.2	72.3	73.0	73.2	73.8	74.2	74.7	75.4	76.5	77.5	78.2	78.8
	9	72.2	72.2	72.4	73.0	73.3	73.5	73.3	73.2	73.4	73.8	74.2	75.0
	10	68.2	68.4	68.7	69.5	70.6	71.8	72.4	73.0	74.0	74.5	75.0	75.2
	11	69.0	69.5	70.1	71.5	72.5	73.4	74.5	75.0	75.6	78.0	78.8	79.6
	12	73.6	74.0	74.5	75.2	76.7	78.0	79.0	79.8	80.4	81.6	82.6	84.7
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	81.7	81.2	81.0	80.8	81.4	82.0	82.6	83.2	84.0	84.5	85.0	85.5
	15	79.0	78.2	78.6	79.4	79.8	80.7	81.2	81.4	82.0	82.4	83.2	83.5
	16	76.2	76.2	77.8	78.8	79.2	80.0	81.4	81.9	82.6	83.5	84.0	83.8
	17	79.2	78.7	79.0	79.5	79.9	80.2	80.6	80.8	81.3	81.8	82.3	82.2
	18	75.0	74.5	74.7	74.7	75.2	75.4	76.0	76.4	76.6	77.0	77.4	77.5
	19	71.4	71.4	71.4	71.4	71.4	72.2	72.7	73.2	73.7	74.2	74.6	75.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	74.8	75.4	75.8	76.5	77.2	78.0	79.0	79.6	80.7	81.5	81.3	82.5
	22	75.0	75.0	75.4	75.7	76.3	76.7	76.5	77.0	77.0	77.0	77.2	77.0
	23	72.0	72.0	72.0	72.2	72.0	72.2	72.2	72.0	72.2	72.2	72.6	72.4
	24	69.2	68.5	68.0	67.8	68.0	68.0	68.2	68.6	69.0	70.0	70.6	70.8
	25	67.3	67.5	68.2	69.0	70.0	70.4	70.4	71.0	71.5	72.2	72.4	72.5
	26	67.6	68.0	68.8	69.6	70.5	71.3	72.0	72.3	73.0	73.4	74.0	74.6
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	69.5	69.5	69.6	70.2	70.7	71.2	71.5	71.7	72.0	72.2	72.5	72.8
	29	68.0	67.8	67.8	67.5	67.6	67.6	67.6	67.6	68.2	68.6	69.0	68.8
	30	67.5	67.5	67.5	67.2	67.0	66.8	66.8	66.8	67.6	67.4	67.2	67.2
	31	63.0	63.3	63.7	64.4	64.8	65.0	65.0	65.2	65.6	66.0	66.2	66.5
Hourly Means	70.06	70.08	70.46	70.93	71.45	72.00	72.44	72.86	73.34	73.88	74.30	74.66	

**HORIZONTAL FORCE.**

One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .000234.

12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
560.0	557.7 <sup>a</sup>	560.0	560.8	557.2	555.2	562.0	562.0	565.0	561.0	558.0	555.2	562.82
558.8	556.0	562.0	559.0	561.0	560.0	555.0	550.0	553.8	560.0	559.7	560.0	559.64
559.0	565.9	557.0	559.6	559.8	561.0	562.0	562.6	563.2	563.0	563.7	560.0	559.51
565.8	559.7	561.0	561.1	559.3	557.3	560.0	559.9	562.1	565.0	566.9	570.7	559.83
564.4	558.6	552.6	547.9	544.5	541.6	—	—	—	—	—	—	—
—	—	—	—	—	—	555.6	556.0	553.2	550.9	555.0	550.0	556.38
545.6	536.0	540.5	561.5	542.0	542.2	544.2	544.0	543.5	547.0	543.0	545.7	542.73
543.2	536.0	540.8	542.0	544.0	542.0	519.5	536.9	540.0	535.6	542.8	547.6	541.19
550.0	542.5	543.5	537.0	541.6	544.0	547.8	547.8	552.5	550.6	551.2	547.9	543.95
553.7	547.0	547.3	543.6	542.2	544.4	545.6	547.4	547.0	548.1	550.0	552.8	548.35
547.8	550.3	540.6	543.0	544.5	545.5	540.3	541.5	542.9	543.9	545.0	546.0	545.60
534.0	532.6	532.0	533.2	532.7	531.2	—	—	—	—	—	—	—
—	—	—	—	—	—	532.0	536.0	535.0	534.0	537.0	535.0	539.27
531.0	532.0	533.0	532.0	533.0	533.0	534.0	534.6	535.3	533.0	533.6	536.9	534.66
536.0	536.5	535.0	536.8	532.4	535.6	535.0	533.4	524.5	530.9	540.4	542.2	534.21
539.4	541.6	537.0	537.8	535.6	536.3	536.0	540.5	538.0	536.5	538.0	541.0	537.34
535.0	539.8	538.6	539.3	540.9	543.1	538.6	540.0	540.8	541.4	543.0	547.0	537.89
556.5	545.4	543.1	542.0	542.0	547.0	548.4	549.0	553.0	553.5	550.0	556.0	546.13
551.0	552.0	554.0	550.0	548.0	546.0	—	—	—	—	—	—	—
—	—	—	—	—	—	550.0	551.6	545.7	546.0	546.0	550.6	547.63
540.0	540.0	541.0	539.8	540.0	543.0	542.6	540.6	539.8	538.6	541.7	544.3	542.52
546.7	545.8	546.2	548.0	547.8	548.0	548.6	568.3	560.3	559.0	551.5	566.8	548.35
549.7	552.0	555.0	560.0	543.1	547.2	544.3	550.6	557.0	556.0	558.0	562.0	554.15
554.4	555.2	537.6	530.0	522.8	520.3	523.0	509.3	503.0	519.0	527.0	542.0	540.61
548.5	550.0	545.8	545.5	543.0	543.0	546.0	550.0	547.0	548.4	550.0	554.2	548.59
551.0	546.0	547.0	545.0	547.0	546.8	—	—	—	—	—	—	—
—	—	—	—	—	—	544.6	546.8	550.7	553.6	553.0	554.2	549.41
552.8	552.0	550.6	550.2	551.8	551.2	551.5	553.0	554.9	555.0	554.0	552.6	550.06
556.8	558.8	557.2	558.0	556.0	552.0	555.0	557.6	557.0	559.8	561.2	564.0	555.43
568.0	566.6	564.2	567.0	559.9	562.0	563.5	568.5	565.0	561.8	564.0	566.7	561.50
568.8	569.0	568.0	567.5	567.0	569.0	569.0	570.0	569.0	569.5	569.2	576.2	567.13
550.66	549.07	547.80	548.06	545.89	546.22	546.45	548.44	548.12	548.94	550.11	552.87	548.70

**TEMPERATURE OF THE BIFILAR MAGNET.**

63.5	63.2	63.2	63.2	63.0	63.0	63.0	63.0	63.0	62.6	62.6	62.3	63.31
65.6	65.2	65.2	65.0	64.7	64.4	64.1	63.8	63.6	63.6	63.0	62.2	64.38
66.5	66.5	66.0	65.3	65.1	64.6	64.2	63.7	63.4	63.2	62.6	62.2	64.11
66.5	67.0	66.7	66.5	66.0	65.6	65.0	64.5	64.0	63.5	63.1	62.6	64.47
70.0	70.0	69.6	69.2	68.6	68.2	—	—	—	—	—	—	67.81
—	—	—	—	—	—	71.0	71.0	70.5	70.4	70.0	69.5	—
78.0	78.0	77.2	77.0	76.5	76.0	75.7	74.7	74.0	73.5	73.3	72.2	74.72
79.0	78.5	78.0	77.0	76.4	75.5	75.0	74.6	74.2	74.0	73.0	72.2	75.30
75.5	75.5	75.0	74.2	73.6	73.0	72.0	71.4	70.6	70.4	69.6	68.3	72.86
75.2	75.2	74.3	73.8	73.2	72.6	72.2	71.5	71.0	70.6	70.0	69.5	72.10
79.6	79.4	78.8	78.2	77.7	77.0	76.8	76.4	76.0	75.4	74.9	74.4	75.50
85.5	85.5	84.7	83.8	83.5	83.5	—	—	—	—	—	—	—
—	—	—	—	—	—	83.2	82.9	82.5	82.1	82.0	81.6	80.87
85.4	85.4	85.0	84.5	83.5	82.5	82.0	81.7	81.5	80.8	80.0	79.5	82.70
84.0	83.5	82.6	82.0	81.3	80.7	80.0	79.4	78.8	78.4	77.6	76.5	80.59
84.5	84.0	83.6	83.6	82.8	82.4	81.6	81.2	81.0	80.7	80.3	79.5	81.27
82.2	82.2	81.4	80.5	78.5	77.5	76.4	77.0	76.6	76.6	76.5	75.5	79.43
77.5	77.7	77.2	76.0	75.4	74.9	74.5	73.7	73.2	72.5	72.0	71.5	75.27
75.0	74.6	74.4	74.0	73.5	73.3	—	—	—	—	—	—	—
—	—	—	—	—	—	75.8	75.8	75.6	75.4	75.4	75.0	73.77
82.0	81.5	80.5	80.2	80.0	79.4	79.0	77.6	76.8	76.5	76.2	75.0	78.62
76.7	76.3	75.6	75.4	75.0	74.6	74.2	73.8	73.4	73.0	72.6	72.0	75.35
72.3	73.0	71.5	71.2	70.8	71.0	70.5	70.5	70.2	70.0	69.5	69.2	71.49
71.2	71.4	71.0	70.5	70.4	70.2	70.0	69.5	69.0	68.5	68.2	67.6	69.34
72.5	72.5	72.0	72.0	72.0	71.5	71.0	70.0	70.0	69.7	69.6	68.5	70.57
74.6	74.6	74.0	73.6	73.5	73.5	—	—	—	—	—	—	—
—	—	—	—	—	—	70.6	70.5	70.4	70.0	69.6	69.5	71.65
73.0	72.8	72.0	71.6	71.0	70.4	70.2	69.6	69.5	69.0	69.0	68.4	70.83
68.8	68.8	69.0	69.0	69.0	69.0	68.8	68.4	68.4	68.2	68.1	67.5	68.30
67.0	66.7	66.3	66.0	65.6	65.5	65.2	64.7	64.5	64.0	63.6	63.4	66.21
66.7	66.7	66.5	66.5	66.3	66.0	65.7	65.5	65.2	65.0	64.8	64.5	65.34
74.75	74.66	74.12	73.70	73.22	72.81	72.51	72.09	71.74	71.39	71.00	70.37	72.45

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
AUGUST.	1	577.5	562.7	543.1	569.2	561.0	552.0	562.5	567.0	575.2	576.0	577.0	566.0
	2	563.8	559.9	560.0	547.4	552.4	550.0	555.0	558.5	563.0	560.5 <sup>a</sup>	577.0	556.8
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	558.1	560.9	553.0	545.0	545.0	546.5	547.0	553.0	553.7	552.4	555.5	552.5
	5	551.3	548.0	542.0	545.8	552.7	543.5	550.0	553.8	552.6	554.7	550.6	551.0
	6	551.8	550.8	545.5	546.2	543.8	545.4	548.7	554.5	560.3	558.3	556.7	548.0
	7	556.2	548.9	534.6	538.0	540.5	538.6	541.0	546.1	550.0	552.2	546.4	546.3
	8	548.5	543.0	546.0	544.0	537.8	536.1	537.8	537.0	546.0 <sup>a</sup>	550.0	563.0	544.8
	9	555.9	557.9	551.2	538.9	533.5	535.5	537.3	543.6	545.0	545.8	547.0	552.6
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	550.0	543.8	538.0	535.2	529.6	535.0	536.3	540.8	544.6	549.2	553.8	553.2
	12	557.9	558.0	555.4	547.4	542.0	547.2	556.6	560.7	565.6	568.4	565.0	561.0
	13	560.0	558.1	550.2	544.0	542.5	547.3	554.5	558.0	563.0	567.0	570.8	564.0
	14	564.8	562.7	558.0	552.0	554.5	556.8	562.2	566.5	571.5	575.0	571.5	570.0
	15	563.2	564.0	552.0	560.5	539.5	550.0	546.0	546.2	550.8	557.2	566.0	561.2
	16	561.0	556.7	550.0	550.8	551.0	555.0	553.2	556.8	552.4	556.8	559.3	557.0
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	546.0	542.2	551.4	547.8	542.8	539.2	541.8	549.4	557.4	563.0	560.3	554.1
	19	560.0	560.8	554.8	538.4	535.7	545.0	547.7	545.5	555.0	558.0	561.0	560.0
	20	558.0	553.6	549.8	545.8	540.4	540.6	546.2	553.3	562.5	570.5	564.0	558.6
	21	555.9	556.7	552.2	545.3	540.0	535.0	538.0	547.0	555.4	558.4	556.8	554.2
	22	557.0	553.5	544.0	534.7	535.0	535.2	544.4	552.8	555.8	560.0	559.2	556.0
	23	552.6	549.2	550.2	551.2	548.8	548.4	553.2	556.2	561.3	562.4	551.3	545.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	556.3	559.9	558.0	548.8	547.3	551.9	557.5	558.8	557.5	558.0	557.0	559.6
	26	565.4	559.5	550.9	541.8	523.8	526.6	545.8	545.3	553.0	555.7	553.0	554.2
	27	556.0	554.4	547.5	540.0	537.0	537.0	541.0	551.0	559.0	566.4	563.0	568.6
	28	567.5	565.0	557.5	549.2	548.3	548.0	550.1	557.8	568.1	566.8	566.2	561.2
	29	573.0	553.2	570.0	570.0	566.9	555.3	553.5	555.7	558.1	576.3	580.0	555.7
	30	558.0	545.2	538.8	533.9	529.5	535.6	543.2	538.7	557.4	560.9	561.2	562.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	558.68	554.95	550.16	546.59	543.13	543.72	548.10	552.08	557.47	560.38	561.25	556.71	
TEMPERATURE OF THE BIFILAR MAGNET.													
AUGUST.	1	64.2	64.4	65.0	65.7	66.8	67.3	68.0	68.2	68.7	69.0	68.6	68.6
	2	64.2	65.0	65.5	66.4	66.4	67.0	67.4	67.7	68.0	68.4	69.0	69.0
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	66.8	67.0	67.4	68.2	69.5	70.2	71.0	72.0	73.0	74.4	74.5	74.6
	5	69.5	69.5	70.4	71.0	71.5	72.6	73.5	74.2	74.8	75.5	76.4	76.6
	6	71.8	71.6	71.8	72.8	73.7	74.6	75.5	76.5	77.2	77.5	77.5	77.5
	7	71.3	71.6	72.3	73.0	74.5	75.4	76.4	77.2	77.1	79.0	79.3	79.6
	8	74.4	74.2	74.0	74.0	74.0	74.0	74.6	75.3	75.9	76.0	76.5	76.5
	9	73.6	73.5	74.4	75.2	75.9	76.9	77.5	78.0	78.5	78.2	79.0	79.8
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	74.0	74.0	74.0	73.7	73.5	74.0	74.6	75.6	75.6	75.5	75.6	76.0
	12	70.7	70.7	71.0	71.8	72.5	73.5	73.8	73.7	74.4	74.8	75.4	75.8
	13	68.2	68.2	68.5	68.7	68.7	69.0	69.4	69.4	70.0	70.5	70.9	71.0
	14	68.5	68.8	69.5	70.2	70.4	70.6	71.0	71.4	71.8	72.0	72.5	72.6
	15	67.5	67.8	68.2	69.5	70.4	71.5	72.0	72.3	72.6	73.2	73.5	74.0
	16	69.0	69.0	69.5	70.4	71.7	73.0	73.4	74.0	74.8	75.2	75.5	76.0
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	73.6	73.6	73.6	73.8	74.0	74.5	74.8	75.5	76.0	76.6	77.5	78.0
	19	73.2	73.0	73.0	73.2	73.2	73.5	73.7	74.0	75.0	74.6	75.0	75.2
	20	72.0	72.0	72.0	73.0	73.8	74.7	75.5	76.2	77.2	78.0	78.1	78.4
	21	74.0	74.4	75.4	76.5	76.8	77.4	78.0	78.4	79.0	79.2	79.5	79.8
	22	73.6	74.0	74.5	75.5	76.2	77.0	77.5	77.6	78.2	78.6	79.2	79.4
	23	73.3	73.2	73.8	74.8	75.8	76.8	77.6	78.0	78.6	79.0	79.8	79.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	70.2	70.8	72.4	73.5	74.2	74.8	75.0	75.2	75.7	76.0	76.5	77.0
	26	72.8	73.2	74.0	75.1	76.0	76.5	76.6	76.6	77.0	77.0	77.0	77.0
	27	72.5	72.0	71.6	71.4	71.0	71.0	70.8	71.0	71.5	71.3	71.3	71.2
	28	67.6	67.7	68.7	69.3	70.3	70.5	70.8	71.1	71.3	71.4	71.4	71.5
	29	68.0	68.0	68.5	69.2	70.2	71.0	71.8	71.5	72.5	73.5	73.8	74.5
	30	73.2	73.2	73.0	73.0	73.1	73.7	74.2	75.2	75.2	76.0	76.3	76.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	70.68	70.78	71.23	71.88	72.47	73.12	73.63	74.07	74.60	75.02	75.37	75.59	

<sup>a</sup> Two minutes late.

HORIZONTAL FORCE.												
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 552.0	Sc. Div. 549.0	Sc. Div. 544.5	Sc. Div. 532.7	Sc. Div. 532.0	Sc. Div. 526.8	Sc. Div. 532.0	Sc. Div. 532.6	Sc. Div. 536.0	Sc. Div. 538.0	Sc. Div. 541.6	Sc. Div. 565.4	Sc. Div. 552.99
558.0	556.6	562.0	550.8	544.8	540.1	—	—	—	—	—	—	555.54
—	—	—	—	—	—	558.2	558.8	565.4	549.4	542.6	542.0	551.57
555.9	550.8	546.8	552.2	548.6	542.8	546.0	557.6	555.0	554.1	551.2	554.0	548.54
552.0	550.6	547.6	547.2	543.9	543.8	545.8	546.0	548.0	544.0	548.0	552.0	549.73
552.8	548.0	549.0	547.5	547.0	549.0	549.0	546.0	551.7	543.6	547.6	552.2	543.18
550.0	544.0	540.0	531.0	538.0	539.8	541.5	543.0	540.0	537.2	545.0	548.0	546.37
550.0	550.8	550.0	544.6	543.0	545.8	548.0	549.0	549.0	553.0	546.8	549.0	545.35
540.2	533.3	541.2	543.0	544.0	544.9	—	—	—	—	—	—	548.03
—	—	—	—	—	—	549.8	548.5	551.0	550.6	547.8	550.0	557.96
551.9	552.0 <sup>b</sup>	550.5	551.2	552.0	552.6	554.0	554.0	556.0	556.0	556.5	556.5	559.62
558.0	557.0	557.0	558.7	561.3	557.0	557.0	558.8	557.8	563.9	554.8	564.6	564.63
563.2	562.0	561.5	562.6	562.0	562.3	563.2	563.0	563.2	562.5	561.8	564.1	556.54
570.0	570.5	572.0	566.5	567.3	573.3	560.4	564.6	561.6	559.5	559.1	560.9	553.19
558.2	563.2	555.8	555.0	556.2	558.0	557.6	558.8	559.0	558.8	558.7	561.0	549.87
558.0	555.1	554.2	555.8	554.0	554.0	—	—	—	—	—	—	553.11
—	—	—	—	—	—	546.0	541.7	546.0	547.5	551.0	553.2	554.66
550.0	545.8	547.8	547.0	547.0	548.0	550.0	552.1	550.6	552.2	553.2	557.8	553.33
558.0	556.5	557.5	557.0	552.2	549.5	550.0	548.6	555.2	556.2	556.8	555.3	548.86
555.3	553.3	555.2	557.8	558.2	558.0	558.2	554.4	555.1	555.2	553.7	554.2	551.34
552.6	553.2	558.6	558.0	557.0	558.7	555.0	556.7	557.0	558.0	559.2	561.0	558.73
555.7	552.1	544.0	545.0	553.0	549.0	550.2	541.0	546.5	546.5	549.0	553.0	550.27
551.8	547.8	539.0	547.0	549.0	549.0	—	—	—	—	—	—	557.77
—	—	—	—	—	—	549.0	553.2	553.2	553.0	554.4	555.2	559.72
562.0	553.5	555.0	556.0	559.2	561.0	563.2	562.0	562.4	565.6	568.8	570.2	550.32
553.2	552.0	556.0	553.2	551.8	552.4	551.2	552.0	550.0	552.0	552.0	555.7	551.65
563.8	558.4	560.8	561.7	563.0	562.8	563.2	563.4	565.0	564.5	567.0	572.0	552.80
560.6	558.0	557.3	563.8	565.0	567.1	569.8	568.5	560.0	536.0	560.5	571.0	—
533.5	539.0	529.5	538.5	537.5	550.0	535.2	539.0	523.2	509.6	546.0	559.0	—
556.0	548.2	552.0	553.0	557.2	556.0	—	—	—	—	—	—	—
—	—	—	—	—	—	552.8	561.6	557.8	560.0	564.4	556.1	—
554.72	552.33	551.72	551.42	551.70	551.99	552.05	553.10	552.81	551.03	553.75	557.44	552.80

TEMPERATURE OF THE BIFILAR MAGNET.												
68.4	68.4	68.4	68.3	68.4	68.0	67.4	66.8	65.6	65.8	65.0	64.3	67.05
69.2	69.2	69.0	68.6	68.2	68.0	—	—	—	—	—	—	67.61
—	—	—	—	—	—	68.2	68.2	68.0	67.6	67.5	67.0	71.59
74.4	74.6	74.6	74.0	73.2	72.6	72.3	71.8	71.0	70.9	70.3	69.8	73.65
76.7	76.5	76.2	75.8	75.2	74.8	74.2	73.5	73.0	72.4	72.0	71.8	75.04
77.5	77.5	77.1	76.7	76.4	75.5	75.0	74.3	74.0	73.4	73.2	72.4	76.25
79.5	79.0	78.2	78.0	77.5	77.2	77.0	76.4	75.6	75.4	75.0	74.5	75.17
76.5	76.5	76.4	76.2	75.8	75.5	75.4	74.8	74.7	74.5	74.3	74.0	76.83
80.0	79.8	79.4	79.0	78.6	78.4	—	—	—	—	—	—	73.97
—	—	—	—	—	—	74.9	74.9	74.9	74.8	74.6	74.2	73.01
76.4	75.2	74.2	74.0	73.8	73.5	73.0	72.5	72.0	72.0	71.5	71.0	69.75
75.8	75.1	74.5	74.0	73.5	73.0	72.5	71.8	71.8	71.6	71.0	69.6	70.38
71.0	71.0	71.0	70.7	70.5	70.4	70.3	70.0	69.6	69.5	69.0	68.6	71.32
72.6	72.4	72.2	71.6	70.5	69.5	69.0	68.7	68.7	68.5	68.2	68.0	73.65
74.0	73.6	73.2	72.7	72.4	71.8	71.3	70.8	70.5	70.0	69.8	69.0	75.72
76.4	76.0	74.5	75.0	74.8	74.4	—	—	—	—	—	—	73.85
—	—	—	—	—	—	74.5	74.5	74.3	74.0	74.0	73.8	75.66
78.0	78.0	77.5	77.2	76.9	76.5	76.0	75.8	75.4	75.4	75.0	74.2	77.34
75.2	75.2	74.5	74.5	74.3	74.2	74.0	73.5	73.0	72.6	72.5	72.2	76.60
78.4	77.8	77.7	77.4	76.8	76.4	76.2	75.5	75.2	75.0	74.6	74.0	76.64
80.0	80.0	79.2	78.5	78.0	77.6	76.9	76.4	76.1	75.5	75.0	74.5	74.95
79.4	79.0	78.2	77.7	77.4	76.9	76.4	75.5	75.0	74.5	74.0	73.2	75.30
79.8	79.2	79.0	78.5	78.0	77.5	—	—	—	—	—	—	70.75
—	—	—	—	—	—	75.4	75.2	74.8	74.3	73.8	73.4	69.88
77.0	76.7	76.7	76.5	76.5	76.3	76.0	75.4	75.0	74.2	74.0	73.2	72.64
77.0	76.7	76.5	76.0	75.4	75.0	74.6	74.2	73.8	73.4	73.2	72.6	73.03
71.2	71.2	71.2	71.0	71.0	70.6	70.5	69.6	69.5	69.0	68.5	68.0	—
71.5	71.2	70.8	70.4	69.8	69.4	69.3	69.0	68.8	68.5	68.5	68.3	—
74.8	74.9	75.0	74.6	74.6	74.6	74.0	73.8	73.8	73.8	73.6	73.3	—
76.0	75.0	74.2	73.6	73.5	73.2	—	—	—	—	—	—	—
—	—	—	—	—	—	70.4	70.0	69.4	69.0	68.4	68.0	—
75.64	75.37	74.98	74.63	74.27	73.88	73.26	72.80	72.44	72.15	71.79	71.27	73.37

<sup>b</sup> Seven minutes late.

HORIZONTAL FORCE.													
One Scale Division = .00087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	559.6	560.2	554.9	544.1	532.0	536.8	551.8	564.0	564.0	563.0	570.0	559.4
	2	560.0	559.0	547.4	530.5	537.0	533.2	559.3	555.2	567.2	557.2	567.4	563.8
	3	555.2	556.6	543.6	523.2	529.5	544.5	556.8	565.8	562.5	558.4	558.5	561.7
	4	556.2	557.0	550.2	534.3	527.6	539.0	551.8	556.8	559.0	562.3	567.9	559.8
	5	564.8	558.5	549.0	541.2	538.4	541.6	548.1	560.5	563.8	564.2	568.2	569.0
	6	567.2	563.8	549.8	542.8	550.8	551.3	553.0	558.5	571.0	575.0	577.0	577.4
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	566.9	562.5	565.0	561.0	549.0	555.0	559.0	566.2	573.2	577.4	579.0	577.8
	9	571.5	570.0	570.0	564.8	562.0	561.1	568.2	567.8	573.1	576.4	580.9	576.3
	10	578.6	576.0	570.2	562.6	565.3	569.0	564.5	567.7	573.2	575.0	579.0	577.8
	11	580.3	581.7	575.8	563.0	559.6	564.2	568.0	571.0	577.5	576.4	583.7	573.5
	12	584.5	583.0	573.0	564.0	562.1	558.2	565.4	571.5	576.0	581.1	576.0	582.2
	13	583.9	575.6	576.6	570.0	567.0	566.0	565.5	573.4	587.4	566.6	580.5	582.9
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	576.0	573.0	564.0	560.4	557.2	562.0	571.4	575.2	578.3	577.2	578.8	578.6
	16	585.0	584.0	576.0	566.8	569.0	575.4	578.4	581.2	586.0	587.4	578.0	576.0
	17	586.2	575.6	578.6	573.6	571.9	573.2	577.4	582.8	586.0	581.4	605.6	581.5
	18	576.0	572.1	562.1	561.0	556.0	561.1	561.4	567.6	572.0	574.0	572.0	570.4
	19	580.4	573.0	565.9	553.0	554.0	560.0	566.0	570.2	571.4	570.0	566.0	565.8
	20	576.0	573.5	569.0	566.0	558.6	562.0	566.2	572.4	575.8	578.4	573.5	573.6
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	588.0	590.3	587.6	583.0	579.2	578.2	580.0	584.0	589.1	593.8	592.3	593.0
	23	593.0	590.0	587.8	584.5	582.9	587.0 <sup>b</sup>	590.3	593.0	592.5	594.0	593.8	593.0
	24	592.0	582.1	581.3	583.0	580.1	585.0	587.7	589.0	599.5	603.0	599.2	592.8
	25	586.0	556.5	545.5	589.7	575.7	558.3	544.3	577.1	585.1	580.5	572.0	561.4
	26	588.0	586.5	583.0	574.5	570.5	578.5	579.2	583.8	583.3	579.7	580.2	582.3
	27	583.0	587.2	585.0	582.2	569.4	552.8	559.0	558.2	569.0	557.9	569.2	570.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	583.4	582.0	576.4	569.5	568.2	565.7	569.5	573.3	575.6	569.0	570.0	564.0
30	576.0	570.2	567.0	561.3	558.0	559.5	563.2	568.0	571.0	576.0	576.5	575.0	
Hourly Means	576.83	573.07	567.49	561.92	558.89	560.72	565.59	571.32	576.25	575.20	577.51	574.58	
TEMPERATURE OF THE BIFILAR MAGNET.													
SEPTEMBER.	1	67.6	67.4	68.0	68.0	68.5	68.7	69.2	70.0	70.4	70.4	70.0	
	2	68.5	68.8	69.5	70.5	70.5	70.6	71.2	71.5	72.0	72.2	72.4	72.4
	3	68.5	68.8	69.6	70.4	71.2	71.8	72.2	72.8	73.6	73.6	73.8	74.5
	4	70.5	70.5	70.8	69.8	70.0	70.6	71.4	72.3	73.0	73.6	73.8	74.0
	5	67.6	67.3	67.6	68.0	68.6	69.3	69.5	70.0	70.0	70.0	70.2	70.0
	6	65.0	65.4	65.3	65.1	65.4	65.5	65.7	66.0	66.5	66.7	67.0	67.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	62.6	62.7	63.5	64.5	64.9	65.0	65.0	64.8	64.6	65.0	65.0	65.0
	9	61.4	61.0	60.8	61.6	62.7	63.4	64.0	64.0	65.0	65.6	66.0	66.3
	10	61.8	62.0	62.5	63.4	64.4	64.8	64.8	64.8	64.8	65.2	65.5	65.6
	11	60.2	60.6	61.0	62.3	62.7	63.0	63.2	63.4	63.5	63.6	63.6	63.5
	12	58.0	58.5	59.5	60.5	61.1	61.5	61.9	62.5	62.5	62.6	63.0	63.2
	13	58.8	58.8	58.8	59.0	59.0	59.0	59.6	59.7	59.7	59.8	60.0	60.2
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	61.0	61.5	62.0	62.5	63.5	63.8	64.0	64.6	65.0	65.2	65.6	66.0
	16	59.5	59.5	60.3	61.2	61.6	62.2	62.0	61.8	62.0	62.4	63.0	63.0
	17	58.0	57.4	57.2	57.5	58.0	58.7	59.5	60.0	61.0	62.0	62.5	63.0
	18	62.4	62.4	62.5	62.6	63.5	64.8	66.2	67.5	68.0	68.8	69.2	69.2
	19	62.0	62.0	62.5	63.7	64.0	64.5	64.5	64.5	64.8	65.0	65.0	65.8
	20	62.5	62.0	62.0	62.0	62.0	61.8	62.0	62.3	62.4	62.4	62.4	62.3
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	53.5	53.5	54.0	54.6	55.2	55.8	56.2	56.5	56.8	57.2	57.7	57.8
	23	56.5	56.2	56.0	55.9	55.8	55.9	56.0	56.0	56.0	56.0	56.1	56.4
	24	56.0	56.0	56.5	56.5	56.6	56.9	57.2	57.5	57.5	57.6	58.0	58.0
	25	56.2	56.4	56.8	56.8	57.0	57.8	58.5	58.8	59.3	60.0	60.2	60.2
	26	57.4	57.0	56.8	56.8	56.8	56.8	57.0	57.4	57.8	58.7	60.0	60.5
	27	57.4	57.4	57.6	57.6	57.8	58.6	59.4	60.4	61.0	61.7	62.2	62.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	61.2	61.4	62.4	63.4	64.3	65.3	66.0	66.5	67.0	67.5	67.8	67.5
	30	65.5	65.3	65.3	65.0	64.9	64.8	65.0	65.2	65.8	66.0	66.0	66.0
Hourly Means	61.52	61.53	61.88	62.28	62.69	63.11	63.51	63.92	64.25	64.58	64.87	64.98	

<sup>b</sup>. Two minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fahr. = '000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
562·0	556·0	559·7	559·2	558·5	536·8	532·4	538·3	—	—	—	—	553·13
537·5	546·6	551·8	551·4	553·0	557·0	556·4	567·5	562·2	561·0	562·0	554·0	554·07
559·3	555·7	554·9	556·9	555·7	558·3	552·0	550·2	554·0	556·0	542·5	545·2	552·37
558·0	547·0	558·3	555·0 <sup>a</sup>	549·0	561·0	560·0	563·2	560·0	561·0	564·8	563·8	555·13
561·0	561·0	564·0	564·2	566·0	564·2	566·4	568·6	570·0	565·1	564·1	565·0	560·29
575·2	570·2	571·0	568·8	570·4	569·8	—	—	—	—	—	—	—
—	—	—	—	—	—	557·3	567·1	562·0	561·9	568·4	570·4	564·59
576·3	576·6	567·0	573·4	573·0	578·1	579·6	579·0	578·5	578·5	573·5	576·0	570·90
578·7	566·1	568·2	575·0	576·8	576·2	573·5	572·0	570·0	577·5	575·5	578·0	572·07
578·0	579·2	575·5	577·5	577·0	580·0	580·7	572·6	578·2	576·0	576·2	578·2	574·50
575·0	576·5	578·0	576·0	561·5	564·0	560·2	574·9	575·1	577·6	582·9	581·8	573·26
576·8	575·4	570·3	578·1	578·3	576·8	574·4	573·9	565·4	590·0	584·0	586·0	575·27
582·9	581·2	581·0	579·6	589·0	578·9	—	—	—	—	—	—	—
—	—	—	—	—	—	576·0	576·0	577·0	577·2	578·0	575·0	576·97
578·4	579·6	578·6	576·8	577·0	581·0	580·0	578·0	576·0	582·0	580·0	584·5	575·17
582·0	579·0	576·8	577·0	575·5	586·0	578·0	581·4	581·0	583·3	582·0	587·4	579·69
558·5	559·5	548·0	560·0	574·2	574·0	571·2	573·4	556·0	550·4	577·4	575·4	572·99
572·6	568·0	574·2	565·6	553·2	576·6	554·8	550·1	570·4	564·3	572·0	573·9	566·72
572·0	573·3	575·0	576·4	574·0	573·9	570·9	561·7	558·5	570·0	575·0	577·0	568·89
576·0	573·0	576·0	572·0	573·0	567·8	—	—	—	—	—	—	—
—	—	—	—	—	—	585·0	588·5	585·0	589·0	591·0	590·0	575·47
592·2	592·0	592·0	591·1	591·0	590·9	592·5	592·2	590·0	592·8	593·2	593·6	589·25
603·0	604·0	607·0	598·0	598·2	593·0	578·8	586·4	590·2	592·2	591·8	594·0	592·43
590·2	581·2	571·0	551·4	549·7	540·2	537·7	529·6	567·9	507·4	574·4	580·0	573·14
569·5	569·4	578·0	583·1	587·2	581·2	578·0	565·0	584·5	583·1	582·2	580·0	573·89
580·1	577·6	573·7	578·0	574·4	580·4	581·0	579·0	582·0	577·5	580·5	586·0	579·99
568·8	568·3	565·2	571·1	584·0	556·0	—	—	—	—	—	—	—
—	—	—	—	—	—	574·0 <sup>c</sup>	571·5	577·0	574·8	578·2	577·3	571·21
558·7	561·0	554·0	557·0	561·2	568·5	567·7	561·2	572·0	570·0	569·6	576·8	568·51
575·0	577·2	572·6	571·4	573·2	571·0	573·4	573·0	573·0	577·2	575·2	579·2	571·38
572·99	571·33	570·84	570·92	571·31	570·83	568·92	569·01	572·64	571·83	575·78	577·14	570·93

TEMPERATURE OF THE BIFILAR MAGNET.												
69·8	69·5	69·7	69·4	69·3	69·2	69·2	69·2	—	—	—	—	69·19
72·2	71·8	71·6	71·4	71·0	70·9	70·5	70·0	69·7	69·5	69·0	68·6	70·68
74·9	74·2	74·0	73·5	73·0	72·7	72·5	72·0	71·5	71·2	70·7	70·7	72·15
74·0	73·0	72·5	72·2	71·9	71·4	71·4	70·4	69·5	68·7	68·4	68·0	71·32
70·0	69·5	69·1	69·0	68·5	68·0	67·8	67·3	66·8	66·4	66·0	65·8	68·43
67·0	66·8	66·8	67·0	67·0	67·0	—	—	—	—	—	—	—
—	—	—	—	—	—	65·2	65·0	64·6	64·2	63·8	63·5	65·77
65·0	64·8	64·4	64·0	63·6	63·2	62·8	62·5	62·3	62·2	62·2	62·0	63·82
66·3	66·0	65·8	65·8	65·0	64·8	64·5	63·9	63·5	63·0	62·5	62·0	64·05
65·5	65·0	64·6	64·1	63·9	63·0	62·8	62·0	62·0	61·6	61·2	60·6	63·58
63·6	63·5	63·0	62·7	62·2	62·0	61·8	61·0	60·0	59·5	59·2	58·5	61·98
63·2	62·4	62·0	61·4	61·0	60·4	60·0	60·0	59·3	59·0	59·0	59·0	60·90
60·4	61·0	61·4	62·0	61·4	61·7	—	—	—	—	—	—	—
—	—	—	—	—	—	62·6	62·6	62·4	62·3	62·0	61·5	60·57
65·6	65·3	64·8	64·0	63·8	63·2	63·0	62·6	62·0	62·0	61·5	60·0	63·44
63·0	63·0	62·5	62·4	62·0	61·0	60·5	60·0	59·5	59·2	59·0	58·4	61·21
63·0	63·1	63·0	62·8	62·8	62·6	62·6	62·6	62·4	62·4	62·5	62·4	61·13
69·4	68·0	67·0	66·8	65·6	65·2	64·6	64·0	63·5	63·2	63·0	62·8	65·42
65·5	65·0	64·6	64·5	64·0	64·0	63·6	63·2	63·2	63·2	63·0	62·6	63·95
62·1	62·0	61·9	61·4	61·0	60·9	—	—	—	—	—	—	—
—	—	—	—	—	—	56·0	55·5	55·0	54·5	54·2	53·7	60·18
57·5	57·2	57·0	57·0	56·8	56·8	56·8	56·8	56·6	56·6	56·6	56·4	56·29
56·5	56·5	56·5	56·5	56·5	56·5	56·5	56·2	56·2	56·2	56·3	56·2	56·22
58·0	58·0	58·2	58·2	58·4	58·3	58·1	58·0	57·6	57·4	57·0	56·6	57·42
60·0	59·8	59·8	59·4	59·4	59·0	58·8	58·4	58·4	58·0	57·8	57·5	58·51
60·5	60·5	60·3	60·0	59·8	59·6	59·5	59·0	58·9	58·4	57·9	57·9	58·55
61·5	61·0	60·8	60·5	60·2	60·0	—	—	—	—	—	—	—
—	—	—	—	—	—	60·6	60·7	60·7	60·5	61·0	61·2	60·08
67·4	67·0	66·9	66·6	66·2	66·0	66·0	66·0	65·8	65·5	66·0	65·5	65·63
65·6	65·3	65·3	64·6	64·5	64·4	64·4	64·0	63·8	63·6	63·4	63·0	64·87
64·90	64·58	64·37	64·12	63·80	63·53	63·16	62·80	62·21	61·93	61·73	61·38	63·24

<sup>b</sup> Five minutes late.

<sup>c</sup> Six minutes late.

HORIZONTAL FORCE.													
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
OCTOBER.	1	569.9	576.0	573.8	567.0	558.0	561.1	564.8	563.4	567.2	577.4	575.4	577.2
	2	585.5	583.0	581.0	576.2	569.0	563.2	564.8	573.2	578.1	582.8	583.0	582.5
	3	585.7	580.2	582.6	577.1	570.6	556.9	563.2	567.7	571.9	581.8	585.7	584.0
	4	582.6	580.4	581.0	577.0	572.7	570.7	572.6	575.7	578.8	583.5	584.0	584.5
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	599.5	597.0	593.1	587.2	586.0	587.0	584.0	586.0	586.8	587.0	593.0	592.2
	7	567.8	597.0	596.0	594.0	595.0	592.0	594.0	596.0	596.0	596.0	587.8	589.4
	8	591.0	588.0	586.0	582.9	582.4	580.0	584.2	583.3	579.2	582.0	586.4	582.0
	9	588.0	584.4	587.0	588.2	584.0	578.4 <sup>b</sup>	574.9	579.7	586.5	597.1	580.8	580.0
	10	570.8	565.4	573.0	574.9	569.2	559.1	562.5	571.0	573.5	571.0	567.0	574.5
	11	576.0	580.9	579.0	577.0	568.0	564.9	570.8	573.0	573.0 <sup>c</sup>	571.5	572.0	574.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	589.0	592.1	590.2	589.0	588.9	591.0	592.0	593.2	593.7	590.4	589.6	589.1
	14	591.0	588.0	585.0	583.2	580.0	579.4	583.0	586.8	591.6	591.0	592.6	589.0
	15	597.0	593.2	587.2	583.4	578.0 <sup>b</sup>	586.8	591.0	594.5	603.4	597.0	597.8	597.0
	16	601.0	598.4	593.5	588.0	589.3	592.0	596.0	598.2	598.0	602.0	601.0	600.0
	17	601.1	598.4	596.0	590.1	595.0	597.8	598.0	598.5	599.5	600.0	597.0	592.2
	18	597.8	598.0	597.6	594.0	590.0	589.0	595.0	597.0	596.2	598.4	596.0	590.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	613.0	603.9	584.5	579.2	603.2	594.2	592.6	587.0	588.8	592.6	593.8	591.5
	21	596.2	602.7	604.0	597.0	596.2	593.7	595.1	595.5	597.3	613.1	583.5	593.1
	22	606.2	605.6	603.3	600.8	600.9	596.8	598.1	605.1	607.3	608.8	605.0	603.0
	23	602.5	601.9	600.0	597.0	593.0	590.2	590.4	590.0	592.1	594.8	596.2	595.4
	24	599.0	597.8	601.4	597.0	594.0 <sup>d</sup>	592.2	591.0	590.6	589.2	586.0	582.3	583.8
	25	594.0	591.0	591.0	589.2	587.0	588.2	592.0	588.6	586.2	588.4	584.8	585.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	598.0	594.4	593.2	590.2	590.4	588.4	592.8	588.5	586.0	588.7	588.0	587.8
	28	595.4	592.2	590.4	589.6	589.5	586.0	587.9	589.2	588.0	588.2	590.4	588.0
	29	589.8	590.2	586.9	581.5	578.0	580.9	582.0	579.7	586.0	588.0	590.5	591.2
	30	590.0	586.2	579.8	582.0	578.0	574.0	574.2	577.0	582.2	587.0	590.0	589.2
	31	594.0	587.5	583.5	582.2	577.0	577.8	578.6	583.9	589.2	590.0	597.8	583.0
Hourly Means	592.66	590.88	588.88	585.74	583.83	581.91	583.91	585.64	587.62	590.17	588.57	587.74	

TEMPERATURE OF THE BIFILAR MAGNET.													
OCTOBER.	1	62.7	62.4	62.2	62.9	63.3	63.8	64.0	64.0	64.0	64.0	64.0	64.4
	2	59.0	58.7	59.2	60.2	60.8	61.0	61.4	61.6	62.2	62.4	62.4	62.2
	3	62.0	61.8	61.6	61.2	61.2	61.4	61.8	62.0	62.2	62.6	63.0	62.8
	4	61.2	60.6	60.6	61.0	61.5	61.8	62.2	62.2	62.6	63.0	63.3	63.5
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	52.0	52.0	52.7	53.2	54.4	55.4	55.8	56.3	56.5	56.9	57.0	56.8
	7	52.5	52.4	52.6	53.7	54.7	55.5	56.2	57.2	57.5	58.0	58.4	58.5
	8	57.5	57.5	57.5	57.9	58.5	59.2	60.4	60.8	61.0	61.2	61.2	61.3
	9	62.0	62.0	62.0	62.2	62.8	63.8	64.0	65.0	65.2	65.6	66.2	66.5
	10	62.4	62.2	62.4	63.0	64.0	64.5	64.7	65.0	65.0	65.0	65.0	64.6
	11	64.2	64.0	63.8	63.5	63.5	63.5	63.5	63.7	64.0	64.0	64.0	64.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	53.8	53.8	54.4	55.5	56.0	56.6	56.9	56.9	56.9	57.3	57.5	57.5
	14	57.4	57.4	57.0	57.0	57.0	56.8	57.0	57.3	57.4	58.0	58.4	58.0
	15	53.0	52.8	52.8	53.6	54.0	53.8	53.7	54.0	54.0	54.0	54.0	54.4
	16	49.6	49.4	50.0	50.6	51.5	51.8	52.4	52.5	53.4	54.0	54.5	54.5
	17	50.0	49.7	50.0	51.0	52.7	53.5	54.2	55.0	55.2	56.5	57.0	57.2
	18	53.6	53.4	53.5	54.0	55.0	56.7	57.4	57.7	58.2	58.8	59.2	59.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	54.5	54.0	53.8	53.8	53.6	53.6	53.8	54.2	54.2	54.2	53.8	53.0
	21	48.5	48.0	47.8	47.5	47.5	47.8	48.4	49.0	48.8	48.7	48.7	48.6
	22	45.6	45.4	45.6	46.3	47.3	48.2	47.5	48.8	49.0	49.4	50.5	51.0
	23	50.2	49.6	50.0	50.5	51.4	51.8	52.4	53.0	53.4	54.1	54.7	54.7
	24	57.0	56.5	56.0	56.7	57.3	58.0	58.4	58.4	59.0	59.0	59.8	59.8
	25	55.1	55.0	55.0	55.6	56.5	57.5	58.4	58.8	59.0	59.2	59.0	58.8
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	55.0	54.6	54.3	54.7	55.6	56.4	57.5	58.7	59.5	60.8	61.0	61.2
	28	57.4	57.4	57.4	57.4	58.7	59.7	60.3	61.0	61.5	62.2	63.0	63.0
	29	57.8	57.2	57.5	58.0	58.8	59.4	59.6	60.4	61.0	61.5	62.0	62.0
	30	62.5	62.2	62.5	62.5	62.5	62.9	63.3	63.3	63.2	63.2	63.0	62.2
	31	60.4	60.0	60.0	59.6	59.8	60.3	60.4	60.5	60.6	61.0	60.6	61.0
Hourly Means	56.18	55.93	56.01	56.41	57.03	57.58	57.99	58.42	58.69	59.06	59.30	59.28	

<sup>a</sup> Ten minutes late.

<sup>b</sup> Five minutes late.

<sup>c</sup> Two minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.						Change in the magnetic moment of the Bar for 1° Fahr. = '000234.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 574·6	Sc. Div. 569·4	Sc. Div. 560·0	Sc. Div. 567·8	Sc. Div. 563·7	Sc. Div. 564·6	Sc. Div. 568·9	Sc. Div. 577·7	Sc. Div. 580·0	Sc. Div. 584·2	Sc. Div. 581·0	Sc. Div. 584·0	Sc. Div. 571·13
583·7	582·3	581·4	583·4	582·7	582·0	583·0	582·0	583·0	582·0	584·0	585·4	579·88
571·0	577·2	569·1	577·0	578·0	579·0	577·5	583·2	583·0	580·8	584·5	584·6	577·18
583·0	582·0	582·0	582·6	581·2	581·7	—	—	—	—	—	—	583·60
—	—	—	—	—	—	592·5	588·0	597·5	596·2	599·8	596·3	590·02
588·0	586·5	587·2	586·6	587·8	583·1	588·8	591·0	593·7	594·0	596·9	598·0	590·02
588·2	578·1	585·8	585·0 <sup>a</sup>	586·0	587·0	587·0	587·0	587·0	588·1	589·1	590·0	590·39
583·4	583·9	586·8	584·5	584·7	582·8	582·0	584·0	587·0	586·0	587·0	587·4	584·45
563·0	560·0	557·2	549·0	562·0	562·0	564·0	576·7	568·2	567·6	570·0	572·5	574·22
571·8	572·0	575·0	574·2	576·4	572·0	576·5	571·2	573·2	567·0	571·0	579·1	571·30
578·0	576·2	572·2	570·8	572·2	570·8	—	—	—	—	—	—	—
—	—	—	—	—	—	584·0	588·1	587·0	589·3	590·1	591·4	577·10
591·8	593·0	592·2	591·1	591·8	590·0	588·0	586·9	588·7	590·0	592·0	592·0	590·65
587·0	588·6	591·5	594·0	593·2	593·8	594·0	594·0 <sup>a</sup>	594·1	595·0	596·7	598·2	590·03
596·0	597·0	597·0	594·0	594·6	595·2	595·0	598·0	597·0	597·7	601·4	603·3	594·69
599·0	597·7	598·0	594·4	596·0	596·2 <sup>a</sup>	591·4	576·8	584·2	589·2	597·9	599·2	594·88
592·0	588·4	590·0	590·7	586·1	589·4	589·8	591·0	591·0	591·2	593·6	597·0	593·91
594·4	593·1	583·0	583·0	584·1	586·0	—	—	—	—	—	—	—
—	—	—	—	—	—	592·9	593·3	593·0	594·8	606·6	602·5	593·58
591·7	587·4	583·6	585·5	575·5	572·5	564·2	551·5	576·7	591·0	594·0	594·4	587·18
584·4	598·4	581·6	582·5	583·5	589·5	596·0	599·2	598·4	599·2	598·7	604·2	595·13
599·0	600·0	599·0	595·3	601·3	596·8	597·0	599·6	601·4	601·8	603·7	601·4	601·55
596·0	598·2	596·4	595·4	594·0	595·4	595·7	595·5	597·5	593·1	593·5	596·6	595·45
583·4	585·4	580·8	573·0	570·9	569·0	564·2	572·0	580·7	587·4	587·5	590·0	585·36
583·4	582·1	583·0	581·8	580·5	580·0	—	—	—	—	—	—	—
—	—	—	—	—	—	593·0	594·0	594·5	595·5	596·0	598·2	588·64
589·8	590·0	590·0	590·0	589·5	588·0	586·0	588·2	587·4	588·0	592·2	594·0	589·98
582·0	580·0	582·0	584·2	582·8	584·0	586·0	589·2	589·8	591·4	592·0	591·4	587·90
591·2	590·4	586·4	586·6	586·6	583·8	585·8	588·1	589·1	589·6	591·7	591·4	586·89
589·1	590·2	590·8	589·3	584·0	584·5	588·8	588·8 <sup>a</sup>	588·7	591·0	591·0	591·5	585·72
577·6	574·0	575·6	576·0	584·4	585·1	586·0	591·0	591·0	590·0	584·0	584·2	584·31
585·65	585·24	583·61	583·25	583·46	583·12	585·11	586·15	588·25	589·30	591·33	592·53	586·86

TEMPERATURE OF THE BIFILAR MAGNET.												
63·6	63·2	63·0	62·4	61·8	61·4	60·8	60·3	60·0	59·5	59·3	59·0	62·33
62·2	62·2	62·2	62·2	62·2	62·2	62·2	62·0	62·0	62·0	62·0	62·0	61·52
62·6	62·5	62·5	62·5	62·4	62·0	61·8	61·8	61·8	61·6	61·6	61·2	62·00
63·2	63·2	63·0	62·8	62·8	62·8	—	—	—	—	—	—	—
—	—	—	—	—	—	53·8	53·6	53·6	53·4	53·2	53·0	60·08
56·5	56·8	57·0	56·8	55·4	55·0	54·8	54·5	53·6	53·5	53·2	53·0	54·96
58·0	58·0	58·2	58·2	58·2	58·4	58·4	58·5	58·3	58·0	57·8	57·5	56·86
61·4	61·5	61·6	61·0	61·0	61·1	61·3	61·2	61·7	62·0	62·0	62·0	60·49
66·4	66·0	65·6	65·2	64·6	64·1	64·1	63·0	62·8	62·8	62·4	62·4	64·03
64·5	64·5	64·5	64·3	64·2	64·2	64·2	64·2	64·4	64·5	64·5	64·5	64·18
63·5	63·5	63·5	63·4	63·2	62·8	—	—	—	—	—	—	—
—	—	—	—	—	—	54·5	54·5	54·2	54·0	54·0	53·8	61·27
57·2	56·8	56·6	56·6	56·6	56·6	56·6	56·5	56·9	57·1	57·4	57·4	56·47
57·3	57·0	56·6	56·2	56·0	55·5	55·4	55·0	54·5	54·0	53·6	53·2	56·37
53·5	53·2	52·8	52·5	52·0	51·5	51·2	51·0	50·4	50·4	50·0	49·8	52·60
54·0	53·6	53·3	53·4	53·0	52·2	51·8	51·4	50·0	50·3	50·2	50·0	51·98
57·0	56·5	56·5	56·2	56·0	55·6	55·0	54·5	54·2	54·0	53·8	53·5	54·37
58·5	58·6	58·6	58·2	58·0	57·7	—	—	—	—	—	—	—
—	—	—	—	—	—	56·5	56·5	56·5	55·4	55·4	54·9	56·72
52·7	52·1	51·7	51·4	51·0	51·0	50·6	50·0	49·5	49·4	49·0	48·7	52·23
48·0	48·0	48·0	48·1	48·0	47·5	47·5	47·3	47·3	47·0	46·8	46·0	47·87
52·0	52·4	52·3	52·0	51·7	51·6	51·2	51·0	51·2	51·3	51·2	50·5	49·71
55·2	55·5	55·8	55·8	55·6	55·5	55·5	55·5	56·2	56·2	56·5	56·6	53·99
59·5	59·0	58·5	58·0	57·8	57·5	57·0	56·2	56·4	56·4	56·3	55·5	57·67
59·0	59·0	59·0	59·0	59·5	59·8	—	—	—	—	—	—	—
—	—	—	—	—	—	55·5	55·5	55·5	55·5	55·0	55·0	57·30
61·0	60·8	60·5	60·0	60·0	60·0	59·5	59·0	59·0	58·2	58·0	57·5	58·45
62·5	62·4	62·0	61·5	61·0	61·0	60·4	60·0	59·5	59·2	59·0	58·3	60·24
62·0	61·8	61·4	61·2	61·0	61·0	61·0	61·3	61·7	62·3	62·5	62·5	60·62
61·8	61·4	61·0	61·0	61·0	61·0	61·0	60·8	60·8	60·8	60·9	60·4	61·88
61·2	61·2	61·4	61·2	61·5	61·8	62·0	62·2	62·1	62·0	62·0	62·0	61·03
59·05	58·91	58·78	58·56	58·35	58·18	57·17	56·94	56·82	56·70	56·58	56·30	57·68

<sup>a</sup> Six minutes late.



HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	* 6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
NOVEMBER.	1	584.2	585.0	584.2	576.2	571.3	560.4	568.8	575.8	576.3	574.9	572.9	574.0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	601.2	602.0	598.7	587.0	589.5	588.0	588.3	591.1	596.1	599.3	598.2	600.8
	4	603.2	602.0	592.0	591.2	589.7	585.2	588.7	590.0	596.0	593.5	592.0	594.4
	5	604.0	604.3	595.1	563.2	573.0	573.0	585.5	588.2	591.0	590.0	586.2	596.5
	6	600.2	597.5	595.0	592.0	588.4	587.0	587.4	590.2	594.0	595.2	600.8	599.2
	7	596.4	600.0	599.6	597.2	596.4	589.5	586.8	589.4	592.0	591.4	591.0	589.0
	8	599.4	598.2	595.6	591.0	591.0	587.8	586.0	587.7	593.0	598.0	600.9	604.0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	619.8	618.3	612.9	611.2	607.6	605.9	605.1	605.0	606.0 <sup>a</sup>	608.2	609.0	602.4
	11	606.0	603.5	597.6	591.0	590.0	591.6	589.0	597.0	599.2	601.0	600.4	606.2
	12	609.0	605.0	600.0	595.0	594.0	594.2	593.0	597.3	600.9	608.8	603.6	607.0
	13	602.6	603.0	598.4	592.6	590.2	589.2	593.5	598.0 <sup>b</sup>	602.0	604.9	605.5	605.2
	14	601.8	598.7	592.8	585.7	583.6	585.7	590.0	595.2	600.0	603.6	606.0	605.0
	15	602.0	599.3	593.9	590.2	586.0	585.2	588.8	596.2	602.4	607.0	607.0	600.0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	597.5	609.0	602.1	604.0	590.2	585.2	588.4	576.6	578.0	582.7	596.0	596.2
	18	595.0	594.5	593.5	584.0	579.2	576.2	580.5	578.0	588.1	595.4	589.7	580.5
	19	600.0	598.1	586.4	578.9	580.0	576.2	581.1	586.4	593.8	597.2	598.6	595.4
	20	603.9	601.8	596.6	596.3	595.7	593.7	598.0	598.0	600.2	605.6	603.0	602.5
	21	603.2	609.3	605.8	603.9	599.1	602.1	604.0	606.0	606.9	604.3	609.7	607.6
	22	609.0	610.1	603.0	603.0	604.5	603.5	605.2	608.0	606.2	608.0	606.4	614.3
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	619.2	621.2	617.0	617.4	611.0	614.2	612.7	614.2	613.0	616.9	622.2	618.5
	25	624.0	625.4	622.8	620.1	618.0	617.5	620.2	619.7	624.2	621.2	618.7	621.0
	26	619.0	618.7	616.2	611.3	609.0	606.2	609.0	610.7	617.0	608.3	618.0	619.0
	27	621.1	618.7	614.0	610.0	607.3	608.1	611.7	617.0	621.0	624.0	624.0	622.7
	28	598.0	623.1	617.0	615.8	612.0	610.1	608.4	607.4	607.2	606.0	623.9	624.0
	29	621.0	617.2	614.6	611.6	611.8	595.0	605.0	614.5	619.5	618.4	619.6	613.4
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	605.63	606.60	601.79	596.79	594.74	592.43	594.93	597.50	600.96	602.55	604.13	603.95	

TEMPERATURE OF THE BIFILAR MAGNET.													
NOVEMBER.	1	61.4	60.8	60.0	60.2	60.4	60.6	60.4	60.5	60.8	61.4	62.0	61.8
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	49.2	49.4	49.4	49.2	49.3	50.0	50.9	51.0	52.0	52.4	52.6	52.5
	4	52.6	52.5	52.2	52.4	53.2	53.5	53.8	54.0	54.4	54.6	55.0	54.8
	5	52.5	52.5	53.0	53.0	53.2	53.6	54.3	54.3	54.0	54.0	54.0	54.4
	6	53.7	53.4	53.0	53.0	53.0	53.0	53.0	53.6	53.8	54.4	54.8	55.0
	7	53.7	53.5	53.2	53.4	53.2	53.5	53.8	54.0	54.2	54.3	54.3	54.2
	8	53.7	53.4	52.6	51.8	51.5	51.3	51.0	50.8	50.5	50.2	50.2	50.0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	44.0	44.5	44.5	44.7	45.5	46.3	47.0	48.4	49.0	50.0	50.5	51.0
	11	51.0	51.0	50.6	50.3	50.3	50.5	51.0	51.5	52.0	52.5	52.5	52.2
	12	51.0	50.9	50.5	50.5	51.0	52.0	52.4	53.0	53.0	53.0	53.0	52.6
	13	52.6	52.3	52.0	52.2	52.8	53.6	53.8	54.3	54.6	55.4	55.7	55.4
	14	53.0	52.6	52.4	52.2	52.5	53.5	54.2	54.6	54.9	54.9	55.0	55.4
	15	52.7	52.5	52.5	52.5	53.8	54.6	54.4	54.5	54.0	54.2	54.5	54.0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	52.5	52.5	52.5	52.5	52.3	52.5	53.0	53.0	53.4	53.6	54.0	54.0
	18	56.5	56.5	56.5	56.0	56.2	56.2	56.6	56.6	56.2	56.6	56.9	56.8
	19	55.6	55.0	54.5	52.2	52.2	52.6	52.6	52.8	52.4	52.0	50.4	51.0
	20	51.8	52.0	52.0	51.5	52.0	52.7	53.8	53.8	54.0	54.4	53.5	53.5
	21	51.0	50.5	50.0	49.7	49.0	48.8	48.8	48.1	47.9	46.0	46.4	46.0
	22	46.0	46.0	46.0	45.5	45.5	44.6	44.5	45.4	45.0	46.0	45.0	45.4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	39.5	39.5	39.5	40.0	40.0	40.0	40.3	39.2	39.4	38.8	38.8	38.6
	25	41.2	41.2	41.2	40.2	40.6	41.5	42.4	42.0	42.7	42.6	42.6	43.0
	26	44.6	44.6	44.0	44.0	44.0	43.4	43.0	42.5	42.1	42.0	42.4	41.5
	27	43.6	43.0	42.4	41.8	41.8	41.2	41.4	41.5	41.5	41.6	42.0	41.6
	28	37.8	38.2	37.8	38.0	38.8	39.4	39.5	39.7	40.2	40.6	41.4	42.0
	29	41.6	41.6	40.8	40.6	41.0	41.5	41.8	42.5	42.6	42.4	42.0	41.0
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	49.71	49.60	49.32	49.10	49.32	49.62	49.91	50.04	50.18	50.32	50.38	50.31	

<sup>a</sup> Four minutes late.<sup>b</sup> Five minutes late.

HORIZONTAL FORCE.												
One Scale Division = .000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = .000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
579.0	583.1	583.5	583.0	584.8	585.2	—	—	—	—	—	—	582.44
601.0	598.2	598.0	598.2	598.6	584.2	593.2	590.4	590.4	598.7	602.2	601.0	596.20
587.6	588.0	590.2	592.8	588.2	589.6	591.2	585.0	591.4	593.5	590.2	603.4	592.04
597.2	597.4	596.3	598.0	595.0	594.2	595.8	598.8	598.0	600.8	600.2	599.5	592.55
600.0	598.3	599.0	594.4	590.4	584.6	594.3	597.2	592.0	598.5	599.0	596.3	594.62
587.0	592.7	594.0	594.0	598.0	585.0	581.5	587.4	596.0	597.2	598.0	600.0	592.90
604.0	604.0	605.0	603.2	602.0	600.2	—	—	—	—	—	—	—
—	—	—	—	—	—	615.8	613.8	612.2	612.2	614.3	618.7	601.58
601.8	607.0	606.2	590.0	586.2	599.2	605.0	600.5	600.7	603.8	604.8	607.0	605.15
606.7	605.5	605.0	603.4	607.2	607.0	604.0	604.0	604.0	603.6	607.0	606.0	601.50
607.1	605.4	604.5	604.1	604.8	604.9	605.4	605.0	605.0	605.0	605.0	602.8	602.83
603.4	603.0	602.8	599.0	599.0	599.0	600.8	601.4	602.0	601.4	603.0	602.6	600.10
606.4	602.7	602.0	602.4	600.0	600.2	601.8	600.4	600.9	601.1	602.8	602.8	598.82
597.4	597.0	603.3	603.0	603.8	603.2	—	—	—	—	—	—	—
—	—	—	—	—	—	600.5	600.0	602.2	603.0	598.1	599.0	598.69
587.4	589.2	592.8	593.0	591.0	590.7	590.1	588.5	590.0	591.0	592.2	592.0	591.41
587.5	592.8	587.3	591.0	586.0	591.0	590.7	589.0	589.5	588.2	587.5	590.8	587.75
600.0	601.8	593.0	585.0	596.0	594.0	596.0	603.3	600.0	600.3	598.2	600.2	593.33
601.8	601.0	600.0	599.8	600.0	602.2	603.3	600.8	600.0	601.6	603.5	604.8	600.51
605.2	610.0	609.4	605.8	608.0	607.8	608.9	607.0	606.4	606.8	609.7	607.2	606.42
613.7	611.9	607.2	611.0	612.0	609.0	—	—	—	—	—	—	—
—	—	—	—	—	—	610.5	611.1	610.5	617.0	619.0	619.5	609.73
621.6	622.0	621.9	617.2	619.0	612.1	618.2	620.0	620.0	621.0	622.2	618.4	617.96
621.0	620.8	620.0	619.0	618.2	618.0	617.0	616.2	614.4	615.2	617.0	617.4	619.46
621.0	624.0	625.0	626.2	627.0	622.2	618.6	616.2	617.8	620.1	620.4	620.2	617.55
624.0	633.0	627.2	619.2	617.8	614.4	613.2	615.5	612.5	611.0	603.9	611.3	616.78
624.0	621.1	619.1	605.0	615.3	611.0	611.7	611.0	618.9	612.5	613.0	620.2	613.99
609.0	615.0	617.6	621.8	620.0	618.4	—	—	—	—	—	—	—
—	—	—	—	—	—	622.0	623.0	624.0	626.0	626.0	623.2	616.98
603.79	605.00	604.41	602.38	602.73	601.09	603.30	603.33	603.82	605.18	605.52	606.66	602.05
TEMPERATURE OF THE BIFILAR MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
61.2	60.9	60.4	60.3	60.0	59.5	—	—	—	—	—	—	57.94
—	—	—	—	—	—	50.2	50.0	50.0	49.6	49.0	49.2	—
52.9	53.0	53.0	52.5	53.0	53.0	52.6	52.5	52.5	52.5	52.6	52.3	51.68
54.5	54.5	54.5	54.5	54.5	54.4	54.4	54.2	54.0	54.0	53.7	53.0	53.88
54.4	53.6	53.6	53.2	53.0	53.0	53.0	52.8	52.7	53.5	54.2	53.9	53.49
55.0	54.9	54.9	54.5	54.2	54.4	54.4	54.4	54.4	54.4	54.4	54.0	54.07
54.5	54.4	54.0	54.0	54.0	53.9	53.9	53.9	53.9	53.8	53.6	53.6	53.87
50.0	50.0	50.0	50.0	49.8	49.6	—	—	—	—	—	—	—
—	—	—	—	—	—	41.6	42.0	42.4	42.8	43.2	43.6	48.83
51.0	51.0	51.0	50.8	50.8	50.4	50.4	50.0	50.4	51.0	51.0	50.5	48.90
52.0	52.0	51.6	51.4	51.0	51.3	51.3	51.2	50.9	51.3	51.5	51.0	51.33
52.6	52.3	52.2	51.9	52.3	52.4	52.2	52.5	53.0	53.2	53.0	52.8	52.22
54.8	54.7	54.4	54.0	54.0	54.5	54.5	54.5	54.3	54.3	54.0	53.6	54.01
55.5	55.5	55.6	55.6	55.5	55.5	55.4	54.6	53.8	53.2	53.0	52.8	54.22
54.0	53.6	53.4	53.0	53.0	53.0	—	—	—	—	—	—	—
—	—	—	—	—	—	52.5	52.4	52.4	52.3	52.4	52.5	53.28
53.8	53.8	54.2	54.8	55.0	55.3	55.5	55.5	55.4	56.4	57.0	56.5	54.12
57.1	57.2	57.5	57.5	57.5	57.5	57.5	57.0	57.0	56.7	56.7	56.2	56.77
51.5	51.5	52.0	52.4	52.0	52.0	51.6	51.3	51.6	51.6	51.6	51.6	52.25
53.5	53.5	53.0	52.6	52.2	52.0	52.0	51.8	51.6	51.4	51.2	51.2	52.54
46.0	47.0	47.0	47.0	47.2	47.0	47.0	47.0	46.5	46.0	46.8	47.0	47.65
45.4	45.4	46.0	46.5	47.0	47.3	—	—	—	—	—	—	—
—	—	—	—	—	—	39.8	39.5	39.5	39.5	39.8	39.5	44.17
39.7	40.2	40.5	40.4	40.8	41.0	41.0	41.0	41.5	41.0	41.0	41.5	40.13
44.0	44.0	44.8	45.0	45.0	45.0	45.3	45.3	45.0	45.0	45.0	44.6	43.30
42.3	44.0	44.5	44.5	44.5	44.5	44.3	44.2	44.2	44.4	44.5	44.0	43.67
41.6	41.6	41.5	40.6	40.2	39.5	39.0	38.6	38.7	39.0	38.8	38.4	40.87
42.8	43.0	43.0	42.7	42.6	42.4	42.4	42.3	42.0	42.0	42.0	41.7	40.93
41.2	41.3	41.5	42.0	43.0	42.6	—	—	—	—	—	—	—
—	—	—	—	—	—	36.0	36.4	37.0	37.3	37.5	37.3	40.52
50.45	50.52	50.56	50.47	50.48	50.44	49.11	49.00	48.99	49.05	49.10	48.89	49.79

HORIZONTAL FORCE.													
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '000234.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
DECEMBER.	1	624·0	623·2 <sup>a</sup>	622·0	616·8	612·6	609·5	612·0	612·7	622·0	628·2	627·4	
	2	623·6	628·8	629·8	625·3	622·0	616·0	615·9	618·5	622·6	623·0	622·0	625·0
	3	611·7	623·8	623·2	620·0	567·5	555·2	575·1	579·0	610·5	618·0	614·0	624·0
	4	609·1	607·0	606·0	606·2	605·0	603·0	602·0	610·0	611·4	614·0	622·2	610·4
	5	609·5	607·0	615·0	606·2	602·5	599·4	599·8	603·0	604·8	605·4	607·9	608·2
	6	613·2	612·0	614·3	612·8	610·0	607·2	602·5	603·5	604·2	609·2	612·0	610·0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	625·2	626·8	622·7	625·0	620·0	615·0	611·0	609·0	615·5	618·0	620·5	621·0
	9	613·7	614·8	613·2	612·2	609·1	607·0	606·1	607·0	610·0	610·0 <sup>b</sup>	612·7	614·8
	10	620·0	620·0	619·0	621·0	623·5	617·0	619·5	617·2	616·2	620·4	622·0	624·8
	11	623·5	624·0	627·0	624·7	620·0	621·2	623·0	624·2	624·2	628·4	627·7	628·5
	12	631·0	631·2	630·8	627·4	625·8	621·7	619·0	618·5	620·0	629·5	632·0	630·0
	13	628·8	638·3	631·1	624·5	606·2	622·1	612·0	603·0	611·0	614·0	597·6	599·0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	624·5	620·0	618·6	605·6	606·0	601·5	593·0	583·2	603·0	588·0	613·5	614·2
	16	615·6	614·6	614·7	610·0	607·5	601·0	599·5	599·7	600·4	609·6	605·5	609·6
	17	611·0	609·9	610·0	611·6	596·0	601·2	600·4	605·5	604·6	608·1	614·4	613·6
	18	608·8	607·8	610·0	603·0	601·0	598·0	594·2	599·4	596·0	604·0	606·6	606·0
	19	616·0	617·7	614·3	613·5	613·2	611·8	610·6	613·2	617·2	623·7	625·7	626·2
	20	633·6	634·4	636·0	632·5	626·5	623·0	618·5	619·5	622·5	624·0	624·0	626·2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	640·0	641·0	640·0	635·0	631·0	625·0	620·0	630·2	629·2	630·0	634·2	634·2
	23	634·0	635·0	635·0	636·5	633·0	629·4	624·4	625·3	624·7	628·2	631·7	632·2
	24	616·0	616·4	622·2	626·2	622·4	621·6	620·0	618·2	622·0	618·7	621·7	622·5
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	636·0	637·5	636·0	630·4	636·0	630·4	628·2	625·9	628·0	634·0	633·4	632·0
	27	626·6	630·0	626·7	621·4	627·5	628·7	621·4	618·5	622·8	625·0	627·8	629·0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	623·2	624·6	625·0	618·8	615·7	612·0	609·8	610·7	611·8	615·8	618·5	618·5
	30	606·2	607·4	605·6	617·0	612·5	603·0	594·4	590·0	598·0	611·0	609·0	606·0
	31	617·3	616·0	617·4	621·0	620·0	621·6	615·1	614·0	617·2	612·6	616·2	615·6
Hourly Means	620·85	621·89	621·75	619·41	614·33	611·63	609·52	609·96	614·22	617·34	619·27	619·57	
TEMPERATURE OF THE BIFILAR MAGNET.													
DECEMBER.	1	37·8	38·0	37·8	38·0	37·8	37·0	36·7	36·4	36·0	36·4	37·0	37·2
	2	35·6	35·4	36·0	35·9	37·2	37·5	36·5	37·2	37·9	39·4	38·8	38·5
	3	36·0	36·0	35·4	35·0	35·0	35·5	36·0	36·5	37·0	37·5	37·5	37·3
	4	41·0	41·2	40·5	40·0	40·0	40·5	41·5	42·5	43·0	44·0	44·5	45·0
	5	44·4	44·4	44·0	43·7	43·6	43·4	43·6	43·6	43·5	43·5	43·5	43·5
	6	44·2	44·6	44·0	43·5	43·5	43·8	44·2	44·0	44·0	44·3	44·3	44·0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	36·5	37·0	37·6	38·0	38·3	39·5	40·0	40·5	41·0	41·5	42·0	43·0
	9	44·5	44·5	44·0	44·0	44·1	44·4	44·4	45·0	45·3	45·5	45·5	45·4
	10	41·6	41·5	41·0	41·3	41·5	41·9	41·9	41·5	41·0	40·8	41·0	39·8
	11	37·0	36·5	36·0	35·7	35·4	35·8	35·8	36·0	36·2	36·4	36·8	37·0
	12	35·0	34·6	34·2	33·4	33·8	34·0	34·0	34·5	35·0	36·0	36·7	37·0
	13	38·0	38·0	37·6	37·7	38·8	39·8	40·8	41·5	42·0	43·0	43·4	43·5
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	44·2	44·6	43·8	43·7	44·8	45·3	45·6	45·5	45·5	45·0	45·0	45·0
	16	42·4	43·5	42·4	42·4	43·0	43·9	44·8	45·3	46·0	46·5	46·8	46·8
	17	45·5	46·0	45·5	45·4	45·5	45·5	45·8	46·2	46·4	46·8	47·0	48·3
	18	49·2	49·0	48·5	48·5	48·5	49·5	49·4	49·5	49·6	50·0	49·6	49·2
	19	39·2	39·0	38·8	38·2	37·3	37·3	37·4	37·6	37·2	37·0	36·0	35·5
	20	34·2	34·7	34·8	34·7	34·6	35·4	35·6	36·5	36·6	37·5	37·5	36·6
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	31·0	32·0	32·0	32·5	33·0	33·5	34·5	35·5	36·5	37·2	37·2	37·4
	23	36·5	36·5	36·3	36·4	37·2	37·6	38·3	38·4	40·0	40·0	40·2	40·0
	24	42·2	42·0	40·5	40·5	40·2	40·2	40·6	41·4	41·8	42·7	43·2	43·0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	33·5	33·5	34·0	34·7	35·5	35·8	36·4	37·0	37·8	38·5	39·4	39·5
	27	36·4	36·0	35·7	34·8	35·4	36·2	37·0	38·0	37·6	38·2	38·5	38·9
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	43·2	43·4	43·4	43·2	43·4	43·8	44·6	45·0	45·0	45·9	46·4	46·2
	30	44·8	44·6	44·4	44·0	44·0	44·5	45·2	45·5	45·0	45·0	45·0	44·5
	31	40·4	39·5	38·7	38·2	38·8	39·5	40·5	40·6	40·7	40·7	40·6	40·6
Hourly Means	39·78	39·85	39·50	39·36	39·62	40·04	40·43	40·82	41·06	41·51	41·67	41·64	

<sup>a</sup> Three minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Five minutes late.

HORIZONTAL FORCE.												
One Scale Division = '000087 parts of the H. F.      Change in the magnetic moment of the Bar for 1° Fah. = '000234.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
623·0	622·0	623·0	622·0	620·0	620·0	621·0	623·2	623·4	622·0	622·5	622·2	622·95
625·5	623·0	622·0	624·0	624·5	628·2	624·4	620·0	620·0	613·2	615·0	611·1	621·81
618·2	617·4	628·0	595·4	593·3	597·0	601·6	598·6	596·0	602·8	608·0	610·0	603·68
610·0	606·4	605·6	602·2	602·7	601·4	600·8	603·0	603·0	599·0	605·1	610·0	606·48
608·4	608·0	606·0	601·6	618·0	606·0	608·5	608·0	608·0	607·5	610·0	611·2	607·08
608·0	607·7	608·9	610·2	610·0	609·0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	624·0	622·2	621·4	621·5	611·54
621·3	620·0	618·0	617·0	615·0	613·0	611·8	612·8	613·0	614·4	615·0	614·0	617·29
615·3	616·0	614·2	614·2	613·0	614·2	615·1	614·0	617·7	618·1	617·5	622·0	613·41
621·4	623·0	622·1	622·0	620·4	619·6	621·0	621·5	621·0	624·0	623·4	624·0	621·00
628·0	627·0	627·2	628·0	626·0	626·8	627·0 <sup>c</sup>	626·0	629·0	627·0	628·0	624·2	625·86
630·0	629·0	624·1	627·0	626·0	624·0	624·0 <sup>d</sup>	625·2	624·4	625·4	630·2	624·4	626·27
604·0	606·0	609·2	609·4	609·8	611·4	—	—	—	—	—	—	—
—	—	—	—	—	—	610·0	613·8	616·2	616·6	618·0	616·0	613·67
614·4	606·4	608·2	598·4 <sup>b</sup>	592·5	600·0	617·8	611·4	615·4	615·0	616·0	611·7	607·43
608·8	607·8	606·8	604·8	617·0	611·0	602·7	607·0	610·0	610·0	604·0	613·0	607·94
610·0	606·0	610·0	608·9	607·8	605·4	608·0	606·5	602·0	609·5	609·2	605·6	607·30
606·0	607·0	608·2	607·5	604·0	605·0	607·0	607·2	604·5	605·5	607·8	613·1	604·90
627·2	625·5	624·0	620·2	623·2	625·0	626·4	629·5	629·3	630·0	631·9	631·0	621·93
618·5	624·2	627·2	628·9	628·0	628·4	—	—	—	—	—	—	—
—	—	—	—	—	—	634·0	637·4	635·6	636·4	636·5	639·1	628·95
633·4	630·2	626·7	631·0	628·8	629·0 <sup>c</sup>	628·2	630·0	630·0	630·0	631·8	633·0	631·33
632·9	631·0	625·5	623·3	622·2	622·8	622·4	625·0	625·0	624·0	625·0	621·8	627·93
625·0	624·8	623·7	621·0	619·0	620·0	—	—	—	—	—	—	—
—	—	—	—	—	—	630·1	632·0	633·5	632·0	633·9	636·2	624·13
630·3	631·0	630·0	631·0	630·0	629·2	624·4	630·2	628·0	629·0	628·0	627·4	630·68
630·0	626·0	625·0	628·0	626·0	624·0	—	—	—	—	—	—	—
—	—	—	—	—	—	624·5	625·0	625·0	625·0	625·0	624·2	625·55
618·0	617·0	617·5	617·0	618·0	604·0	606·0	607·2	607·4	608·0	606·7	599·8	613·80
604·0	605·0	604·0	606·2	608·0	608·3	608·4	612·0	613·4	609·8	615·0	617·0	607·13
613·4	617·2	616·4	615·0	616·4	620·0	619·8	619·3	614·2	621·3	619·0	625·9	617·58
618·65	617·87	617·75	615·93	616·14	615·49	617·00	617·83	618·04	618·37	619·38	619·59	617·16

TEMPERATURE OF THE BIFILAR MAGNET.												
37·4	37·0	36·9	37·0	37·1	37·5	37·5	37·7	37·7	37·4	37·2	36·2	37·20
39·0	39·0	39·0	39·0	39·0	39·0	38·5	36·8	36·2	36·2	36·2	36·7	37·52
37·2	37·2	37·5	38·2	37·6	37·6	37·8	38·3	38·5	39·2	39·7	40·5	37·25
44·6	44·8	45·0	44·6	44·3	44·3	44·3	44·0	44·0	44·6	45·2	44·5	43·25
43·2	43·0	43·0	43·0	42·8	43·5	43·8	42·9	43·0	43·5	43·5	44·2	43·50
44·0	43·4	43·4	43·6	44·0	44·0	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	37·0	36·6	36·4	36·4	42·60
43·2	43·5	43·5	43·8	43·8	44·8	45·4	45·2	45·2	45·0	44·8	44·8	42·00
45·4	45·0	45·0	44·2	43·6	43·8	43·6	43·2	42·9	42·6	42·5	42·4	44·20
39·2	39·2	38·8	39·0	38·5	38·0	37·5	37·5	37·4	37·7	37·5	37·0	39·67
37·0	36·6	36·7	36·3	36·1	36·0	35·7	35·0	35·5	35·7	35·6	35·5	36·10
37·0	37·0	37·2	37·0	37·1	37·1	37·3	37·5	37·5	37·5	37·7	38·4	36·10
44·0	44·0	43·5	43·5	43·5	43·4	—	—	—	—	—	—	—
—	—	—	—	—	—	41·8	42·0	42·4	42·8	43·4	44·0	41·77
44·8	44·7	44·2	43·6	42·8	42·8	42·6	42·2	42·2	42·4	42·4	41·8	43·94
46·4	46·4	46·4	46·1	46·4	46·6	46·5	45·0	45·4	45·2	45·6	45·2	45·21
48·4	48·4	48·8	49·2	49·8	50·0	50·0	50·0	50·5	50·2	50·2	49·6	47·87
49·0	49·0	48·8	48·5	48·0	47·5	47·0	45·3	43·5	42·0	41·2	40·0	47·51
35·5	36·0	36·0	36·0	36·0	34·7	34·0	33·6	33·5	33·8	34·4	33·7	36·15
36·6	36·2	36·0	35·6	35·4	35·2	—	—	—	—	—	—	—
—	—	—	—	—	—	28·4	28·6	28·8	29·0	29·6	30·0	34·09
36·8	36·4	36·8	37·0	36·8	36·5	36·4	36·0	35·5	35·3	35·6	36·0	35·31
40·7	41·4	42·0	42·2	42·4	42·2	42·2	42·0	42·0	42·0	42·4	42·2	40·05
43·0	43·2	43·0	43·1	43·4	43·5	—	—	—	—	—	—	—
—	—	—	—	—	—	33·5	33·4	33·7	33·8	33·8	33·6	39·97
39·4	38·8	37·2	36·5	36·7	36·2	36·8	37·2	37·5	37·5	37·0	36·8	36·80
38·5	39·0	39·6	39·9	40·0	40·5	—	—	—	—	—	—	—
—	—	—	—	—	—	40·6	41·0	41·5	41·9	42·5	42·7	38·77
46·2	45·5	45·5	46·0	46·6	46·6	46·6	46·6	46·7	46·5	46·0	45·0	45·30
44·5	44·5	44·0	43·7	43·7	43·8	43·5	43·0	42·8	42·4	41·8	41·0	43·97
40·6	40·7	40·5	40·5	40·5	40·0	39·8	39·7	39·5	40·0	40·2	40·4	40·05
41·60	41·53	41·47	41·43	41·38	41·35	40·44	40·15	40·02	40·03	40·09	39·95	40·61

<sup>d</sup> Five minutes early.

<sup>c</sup> Twenty-one minutes late.

<sup>f</sup> Christmas-day.

VERTICAL FORCE.													
One Scale Division = '000063 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah°. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
JANUARY.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	102.3	101.2	101.2	100.0	100.0	99.9	99.9	99.5	100.0	100.0	99.8	99.7
	2	98.2	98.2	98.2	99.2	99.3	98.8	99.4	100.0	99.4	99.4	98.6	98.9
	3	99.7	98.6	99.8	99.2	99.4	100.1	99.6	99.6	99.6	99.6	97.6	97.6
	4	97.0	96.9	99.1	98.4	98.0	98.2	98.9	96.5	96.5	96.4	96.4	98.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	108.4	108.5	108.8	108.8	108.8	108.5	107.4	107.9	107.9	108.2	108.5	108.6
	7	111.3	110.7	109.7	108.5	108.5	108.2	107.5	106.2	106.8	106.0	105.4	104.0
	8	103.3	103.3	103.8	103.7	103.8	103.7	103.2	102.2	102.2	101.2	99.7	100.7
	9	99.3	99.5	96.6	93.2	92.4	91.6	93.3	94.8	95.1	96.9	102.9	172.0
	10	100.1	100.5	100.9	100.1	100.7	100.5	100.5	100.5	98.6	96.4	97.0	95.8
	11	99.0	99.9	99.1	99.4	100.5	100.5	99.5	97.9	97.9	96.2	96.2	94.4
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	109.0	109.0	108.2	108.2	107.6	107.6	107.6	107.9	107.9	107.3	105.6	105.1
	14	106.7	106.4	106.4	104.6	105.1	105.5	105.9	108.4	109.6	109.0	106.8	104.4
	15	100.9	103.4	103.5	102.2	98.8	101.7	100.2	99.4	99.4	99.1	98.4	96.0
	16	95.5	97.1	96.4	95.7	95.7	95.4	95.6	96.7	98.0	98.0	97.6	96.5
	17	100.4	100.4	99.4	101.7	101.7	100.6	100.6	100.2	100.2	100.2	100.2	100.3
	18	100.6	100.6	103.6	100.9	99.1	98.9	100.1	100.1	101.4	101.4	97.9	98.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	101.8	104.7	104.7	108.9	108.0	106.7	106.7	106.5	107.1	108.8	107.4	106.2
	21	97.1	97.5	99.0	99.2	99.1	98.2	97.2	97.5	97.0	97.3	96.3	95.7
	22	93.9	93.8	93.8	93.3	92.0	91.4	90.4	90.4	90.4	90.4	91.3	90.9
	23	87.0	90.3	89.9	86.9	88.3	87.0	87.3	88.4	89.9	89.6	93.1	93.4
	24	88.6	88.6	90.1	87.8	86.7	85.5	84.8	89.5	89.5	90.1	88.9	90.8
	25	91.9	91.0	91.4	87.5	94.9	97.5	98.8	98.6	99.2	99.2	99.2	99.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	104.9	104.3	100.3	101.1	99.2	97.7	97.2	95.1	96.8	95.4	94.2	95.4
	28	97.1	88.6	89.0	90.0	90.0	89.9	89.9	94.0	94.0	95.2	98.3	99.1
	29	92.3	93.1	92.3	90.4	89.3	89.3	89.3	91.3	92.2	93.3	93.9	96.7
	30	100.6	100.2	100.5	101.7	100.0	101.4	102.6	98.5	100.0	100.2	97.3	96.7
31	98.2	101.8	101.2	102.5	105.0	103.1	103.1	103.1	106.4	107.8	106.2	106.2	
Hourly Means	99.45	99.56	99.51	99.00	98.96	98.79	98.76	98.91	99.37	99.36	99.06	101.49	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
JANUARY.	1	44.8	44.6	44.6	44.8	44.8	45.0	45.2	45.8	45.7	45.6	45.6	45.2
	2	45.8	45.5	45.5	45.3	45.1	45.2	46.2	45.8	45.7	45.8	45.8	45.6
	3	44.0	44.0	44.2	43.7	43.7	43.8	43.8	44.0	44.4	44.8	45.6	45.4
	4	45.0	44.7	44.8	44.6	44.6	44.6	44.8	44.8	44.9	44.9	45.4	45.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	37.5	37.3	37.3	36.9	36.9	36.3	36.5	36.5	36.5	36.5	37.0	37.4
	7	35.3	35.5	35.7	35.9	36.0	36.2	37.0	37.5	38.0	38.0	37.6	39.2
	8	39.4	39.6	39.6	39.1	39.3	40.0	40.4	40.8	40.8	41.0	41.4	41.8
	9	41.8	41.6	42.0	42.8	43.8	44.7	45.0	45.9	46.3	46.6	46.8	46.4
	10	44.6	44.0	43.8	43.8	44.0	44.5	44.8	45.0	45.6	45.6	46.0	46.3
	11	44.3	44.1	43.8	43.4	43.4	43.4	43.8	45.0	45.3	45.3	45.3	45.8
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	37.3	37.4	37.3	37.3	37.5	37.8	38.1	38.4	38.8	39.6	38.6	39.5
	14	39.0	39.0	39.0	38.7	38.7	38.3	38.3	38.2	38.0	38.8	39.0	40.0
	15	40.0	40.0	40.2	40.4	41.2	41.4	41.8	43.0	43.2	43.5	44.0	44.2
	16	44.6	44.6	44.6	44.4	44.5	44.6	44.8	45.2	45.0	44.4	44.8	44.6
	17	41.4	41.3	40.9	40.4	41.0	41.5	41.6	42.2	42.4	42.6	42.5	42.3
	18	39.8	39.9	41.0	40.6	41.4	42.0	42.2	42.7	42.6	42.5	42.4	42.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	35.8	36.1	36.1	36.1	36.1	36.1	37.0	37.6	38.5	39.0	39.2	39.7
	21	42.5	42.6	42.3	42.2	42.2	42.5	43.0	43.7	44.4	44.6	44.8	45.0
	22	45.4	45.6	45.2	45.2	45.3	45.7	46.0	46.0	46.4	46.8	47.2	47.6
	23	46.6	46.6	45.8	46.5	46.8	46.8	47.4	47.8	47.6	47.2	47.1	47.1
	24	47.4	47.2	47.2	47.2	47.2	47.8	47.8	48.4	49.0	49.0	48.8	48.8
	25	44.8	44.4	43.7	43.1	42.4	42.3	42.4	42.4	42.4	42.4	42.8	43.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	39.3	39.1	39.2	39.2	40.0	40.8	41.4	42.6	43.6	44.3	44.5	44.4
	28	45.5	46.3	46.4	46.4	46.6	47.2	47.6	47.4	48.3	48.6	48.7	48.7
	29	46.4	46.3	45.8	45.3	45.5	46.0	45.8	46.0	46.4	46.4	46.4	46.0
	30	40.6	40.6	40.1	40.6	40.7	40.8	41.0	42.0	42.0	43.2	43.6	43.4
	31	39.2	39.2	39.2	39.3	39.2	39.6	39.7	38.9	38.6	38.2	38.2	38.0
Hourly Means	42.15	42.11	42.05	41.97	42.14	42.40	42.72	43.10	43.35	43.56	43.67	43.78	

VERTICAL FORCE.												
One Scale Division = '000063 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fah°. = '00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 99·7	Sc. Div. 99·8	Sc. Div. 100·1	Sc. Div. 100·1	Sc. Div. 100·4	Sc. Div. 97·9	Sc. Div. 97·9	Sc. Div. 97·7	Sc. Div. 97·7	Sc. Div. 96·1	Sc. Div. 96·1	Sc. Div. 97·5	Sc. Div. 99·35
98·7	98·9	98·9	98·9	98·9	98·6	98·6	98·6	98·6	98·6	98·6	99·6	98·88
96·4	96·4	95·6	95·6	95·6	96·0	96·0	96·0	96·5	96·8	95·8	96·1	97·63
98·0	98·0	98·0	98·2	97·8	98·2	—	—	—	—	—	—	99·36
—	—	—	—	—	—	99·1	98·8	107·1	107·1	107·1	106·9	—
108·9	109·1	109·4	109·4	110·6	110·6	110·7	112·1	111·3	111·3	111·3	111·3	109·43
103·8	103·7	103·8	104·4	104·4	104·4	104·9	105·3	103·3	103·3	103·3	103·3	105·86
100·7	100·7	102·1	102·1	102·1	103·5	103·5	101·9	101·9	102·3	99·8	97·4	102·03
122·6	126·2	123·7	120·4	122·1	109·7	105·3	104·5	101·2	99·0	100·0	99·5	106·74
95·8	97·3	97·3	100·5	101·4	99·5	96·6	96·9	98·1	98·1	98·1	97·8	99·71
94·3	93·8	95·1	97·0	97·5	95·7	—	—	—	—	—	—	—
—	—	—	—	—	—	105·6 <sup>a</sup>	108·3	110·0	110·0	108·8	108·8	100·23
105·7	106·1	106·3	106·3	106·3	106·2	106·4	106·4	106·4	106·4	105·4	103·6	106·77
107·4	107·1	106·1	107·1	107·1	104·5	103·6	103·6	103·4	103·4	100·5	99·7	105·51
96·0	97·3	96·3	96·3	95·8	94·4	94·4	94·4	95·1	95·4	95·2	95·7	97·89
97·0	97·0	97·9	98·0	99·5	99·5	97·8	96·7	97·7	98·8	98·8	100·4	97·36
100·3	101·0	101·3	101·4	99·7	100·4	102·7	98·5	101·5	103·0	103·6	102·9	100·93
100·9	101·9	102·9	102·9	103·3	104·8	—	—	—	—	—	—	—
—	—	—	—	—	—	113·8	113·8	108·4	111·1	110·5	101·8	103·28
105·3	105·1	104·4	104·4	103·3	103·3	97·5	99·8	99·8	98·8	97·3	97·9	103·93
93·2	95·8	95·8	95·7	95·4	95·4	95·4	95·3	95·2	95·4	95·2	94·8	96·40
86·6	87·8	87·0	86·2	87·2	87·7	87·1	89·5	89·8	89·8	88·0	83·9	89·69
94·4	95·0	94·9	92·9	88·1	93·2	93·1	93·0	83·7	81·9	90·9	90·9	90·13
90·5	91·0	91·6	93·2	92·2	93·0	89·7	90·5	90·5	91·3	91·3	91·8	89·90
99·1	101·2	102·4	102·4	98·9	98·9	—	—	—	—	—	—	—
—	—	—	—	—	—	105·0	106·9	105·9	105·1	104·2	101·6	99·16
95·4	95·4	95·1	94·4	93·7	93·0	93·0	92·9	92·8	91·8	92·3	92·2	95·98
97·9	95·8	94·3	88·5	90·0	88·9	90·2	77·0	73·8	73·5	82·0	90·0	89·87
97·0	95·5	95·5	95·0	94·5	95·2	96·1	98·0	98·3	98·3	100·6	100·6	94·50
97·3	98·4	98·3	98·1	98·9	100·4	100·4	100·4	102·7	102·9	102·9	99·6	100·00
105·5	108·2	108·2	109·6	109·6	109·5	110·4	114·9	115·1	115·1	115·1	115·6	107·56
99·57	100·13	100·09	99·96	99·79	99·35	99·81	99·67	99·47	99·43	99·73	99·30	99·52

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
45·4	45·6	45·3	45·0	44·9	45·3	45·6	45·7	45·6	45·7	45·6	45·6	45·29
45·6	45·3	45·0	44·7	44·6	44·6	44·6	44·2	44·1	43·8	43·8	43·8	45·06
45·4	45·6	45·8	45·8	45·8	45·8	45·8	45·6	45·8	45·8	45·6	45·2	44·98
44·7	44·6	44·6	44·6	44·6	44·6	—	—	—	—	—	—	—
—	—	—	—	—	—	38·8	38·6	38·0	37·6	37·8	37·9	43·10
37·0	36·8	36·5	36·2	35·8	35·6	35·6	35·3	35·6	35·5	35·5	35·3	36·39
39·6	39·6	39·4	39·3	39·3	39·3	39·2	39·3	39·3	39·3	39·4	39·2	38·09
41·6	41·6	41·6	41·3	40·7	40·5	40·5	40·5	40·5	40·6	41·0	41·0	40·61
47·6	47·4	48·5	48·0	48·0	47·4	47·0	46·8	45·4	45·4	45·0	44·8	45·62
46·5	45·7	45·6	45·8	45·6	45·6	45·4	45·2	44·8	44·5	44·5	44·4	45·08
45·6	46·0	46·0	45·2	44·7	44·6	—	—	—	—	—	—	—
—	—	—	—	—	—	37·2 <sup>a</sup>	36·9	36·9	36·8	36·9	36·9	42·78
39·3	39·1	39·0	39·2	39·0	39·1	39·6	39·3	39·0	39·0	39·2	39·2	38·65
39·6	39·8	39·8	39·9	39·6	39·7	39·7	40·0	40·0	40·0	40·0	40·0	39·30
44·6	44·4	44·6	44·6	45·0	45·5	45·5	45·4	45·3	45·0	45·0	44·7	43·44
44·4	44·2	44·1	43·8	43·3	42·7	43·1	42·6	42·2	41·8	41·6	41·6	43·81
41·9	42·0	41·4	41·0	40·7	40·2	40·2	40·1	39·9	39·9	39·8	39·8	41·13
41·6	40·8	40·2	39·6	39·6	39·6	—	—	—	—	—	—	—
—	—	—	—	—	—	33·7	33·7	33·7	34·0	34·8	35·5	39·41
39·8	39·9	39·8	40·0	40·1	40·7	41·0	41·5	41·6	41·6	42·2	42·0	39·06
46·0	45·6	45·8	45·6	45·6	45·6	45·6	45·6	45·4	45·4	45·5	45·4	44·45
48·9	49·2	48·9	49·1	49·0	49·0	48·6	47·8	47·3	47·0	46·9	46·6	47·11
47·3	47·1	47·2	46·8	46·7	46·4	46·6	46·6	46·6	46·6	46·6	47·1	46·87
48·9	49·3	48·8	48·6	48·4	48·2	48·0	47·6	47·1	46·7	46·4	45·6	47·89
42·4	42·0	41·6	41·0	41·0	40·6	—	—	—	—	—	—	—
—	—	—	—	—	—	39·2	39·0	39·0	39·0	39·0	39·0	41·65
44·4	44·6	44·6	45·0	45·4	45·4	45·4	45·8	45·7	45·6	45·8	45·8	43·41
49·2	49·2	49·2	49·3	48·8	48·5	48·2	48·2	48·0	47·6	47·4	46·8	47·84
45·4	45·0	44·6	44·4	44·2	43·2	42·2	42·0	41·9	41·6	41·4	41·1	44·55
43·2	42·5	42·2	42·0	41·6	41·0	40·6	40·0	40·0	39·5	39·1	39·0	41·22
37·0	36·5	36·0	35·6	35·1	34·4	34·0	32·6	31·6	31·0	31·0	30·4	36·36
43·81	43·68	43·56	43·39	43·23	43·08	42·26	42·07	41·86	41·71	41·73	41·62	42·71

<sup>a</sup> Thirteen minutes late.

VERTICAL FORCE.													
One Scale Division = '000063 parts of the V. F. Change in the magnetic moment of the Bar for 1° Fah. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
FEBRUARY.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	115·3	118·4	118·4	119·0	116·5	115·5	114·1	112·6	114·5	114·1	112·0	112·0	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	115·6	115·1	114·1	114·1	113·9	112·3	111·9	110·8	110·8	110·8	109·4	109·4
	4	106·1	106·1	105·8	104·9	104·9	102·4	101·0	101·0	102·5	102·5	101·7	103·1
	5	112·2	112·2	112·6	113·6	113·6	112·9	114·5	111·3	112·7	114·8	112·0	112·6
	6	107·5	109·7	111·5	111·8	112·7	111·7	111·5	111·4	112·0	112·0	111·9	111·9
	7	108·8	106·7	115·6	107·3	106·9	106·9	106·9	106·4	106·2	104·4	102·2	100·6
	8	101·0	103·1	102·8	100·9	99·1	99·0	99·0	99·0	98·4	97·9	96·0	94·7
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	99·4	99·4	98·8	97·0	94·0	93·7	93·7	93·7	94·4	93·7	94·2	94·2
	11	93·3	93·3	93·8	92·5	91·3	90·1	90·1	89·5	90·0	88·3	87·6	89·4
	12	88·5	88·5	88·9	89·5	88·2	88·9	90·2	91·8	94·0	94·0	94·5	94·5
	13	104·1	103·4	108·4	107·5	105·5	103·4	103·3	103·1	104·7	104·7	105·5	105·5
	14	106·7	109·1	108·1	109·4	108·8	107·4	106·8	106·4	105·6	104·3	102·1	101·3
	15	94·0	94·0	93·9	92·9	90·9	90·4	89·1	89·2	89·2	88·2	91·3	90·3
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	93·7	92·8	92·1	91·4	90·5	89·3	88·2	88·8	87·3	86·8	85·8	85·3
	18	86·2	86·2	85·7	86·8	85·9	82·9	81·7	80·6	81·9	81·5	80·9	80·7
	19	83·9	85·5	83·5	85·3	83·5	80·5	79·6	80·8	80·8 <sup>b</sup>	80·8	81·6	85·8
	20	81·7	81·5	81·5	81·0	80·2	78·1 <sup>b</sup>	77·5	77·5	79·3	81·6	79·9	81·6
	21	75·7	77·1	78·7	78·6	78·6	76·0	76·2	79·0	79·8	79·8	79·6	77·7
	22	72·4	73·4	74·5	74·2	71·1	71·2	73·4	72·3	74·3	74·9	75·7	75·7
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	85·3	85·3	87·0	84·4	84·6	82·4	83·0	85·3	88·4	89·7	93·4	87·6
	25	81·8	82·6	84·7	81·3	79·5	78·0	79·0	79·3	83·6	78·8	79·1	79·1
	26	79·5	74·8	76·0	78·0	80·4	80·4	79·9	79·9	88·5	87·1	87·1	84·8
	27	86·3	88·3	88·2	86·7	84·0	81·0	81·8	83·0	84·4	84·4	83·0	84·6
28	88·7	89·0	89·0	89·0	88·4	88·1	87·6	89·3	90·7	93·1	93·3	92·2	
Hourly Means	94·49	94·81	95·57	94·88	93·88	92·60	92·50	92·58	93·92	93·67	93·32	93·11	

TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
FEBRUARY.	1	30·0	30·0	29·2	29·5	29·8	30·2	31·0	32·0	32·3	33·0	33·8	34·1
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	30·8	31·4	31·8	32·0	32·4	33·0	33·8	34·0	34·2	34·6	34·7	35·7
	4	36·8	36·8	36·7	36·6	36·9	37·6	38·6	39·1	39·0	39·0	39·0	39·3
	5	32·7	32·1	31·4	31·0	31·1	31·6	32·0	32·2	32·5	32·2	31·8	32·0
	6	32·3	32·3	32·0	32·0	32·3	32·6	33·2	33·3	33·5	33·2	33·0	33·0
	7	34·3	34·0	34·6	35·2	35·2	35·8	36·2	36·9	37·6	38·5	39·3	40·0
	8	39·4	38·8	38·6	38·9	39·8	40·0	40·0	40·5	40·7	41·4	41·8	42·2
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	39·7	39·8	39·9	40·5	41·7	42·0	43·0	43·0	43·0	43·0	43·6	43·5
	11	42·8	43·0	43·1	43·4	43·6	44·2	45·0	45·3	45·8	45·9	46·0	45·6
	12	45·6	45·6	45·6	45·3	45·1	44·7	44·3	44·0	43·6	43·4	43·0	42·8
	13	36·0	34·8	35·0	34·6	35·0	35·5	36·0	36·9	36·9	36·6	36·8	36·9
	14	34·0	33·8	33·4	33·7	33·9	34·3	34·7	34·9	35·6	36·6	37·6	38·0
	15	42·2	42·6	42·4	43·0	43·8	44·1	45·0	45·3	45·4	46·5	47·0	46·7
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	42·4	42·6	42·6	43·0	43·6	44·0	44·6	45·5	46·0	46·5	46·5	46·5
	18	46·6	46·6	46·6	46·8	47·0	48·0	48·8	49·0	49·2	49·4	49·6	49·9
	19	47·4	47·0	47·3	47·2	47·4	47·8	48·4	49·3	49·6 <sup>b</sup>	49·6	49·6	49·5
	20	48·4	48·0	48·4	48·4	48·7	49·5 <sup>b</sup>	50·0	50·1	50·3	50·2	50·2	50·0
	21	49·6	49·4	49·4	49·3	49·8	50·1	50·4	51·2	51·6	51·8	52·4	52·8
	22	53·0	53·0	52·5	52·7	52·7	53·1	53·3	53·1	53·2	53·5	53·2	52·8
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	45·8	45·8	45·8	45·5	47·0	47·2	47·8	48·0	48·0	48·6	49·0	49·5
	25	48·6	48·0	48·6	49·0	49·6	50·6	50·8	51·3	51·5	52·2	52·6	52·8
	26	50·3	49·8	49·6	49·6	49·6	49·8	50·1	50·3	50·0	50·0	50·0	49·7
	27	46·2	46·0	46·2	47·1	47·6	48·4	48·8	49·0	49·1	49·5	49·6	49·7
	28	45·0	44·5	44·1	45·1	44·6	45·0	45·1	45·6	45·6	45·6	45·6	45·4
Hourly Means	41·66	41·49	41·45	41·64	42·01	42·46	42·96	43·33	43·51	43·78	43·99	44·10	

<sup>b</sup> Seven minutes late.

VERTICAL FORCE.												
One Scale Division = '000063 parts of the V. F.						Change in the magnetic moment of the Bar for 1° Fah°. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
110·8	110·8	111·9	111·9	111·6	110·9	—	—	—	—	—	—	114·45
—	—	—	—	—	—	116·2	116·1	116·2	116·1	115·8	116·2	110·40
108·7	108·7	108·1	109·1	108·8	108·6	108·6	107·9	108·7	108·7	108·0	107·4	105·22
102·9	102·6	104·5	104·9	105·7	105·7	105·7	108·9	109·9	110·2	110·6	111·7	112·37
113·1	113·9	113·9	113·9	115·0	114·7	114·0	114·0	114·1	112·9	101·3	100·2	111·23
111·9	111·9	111·9	111·9	112·2	112·2	112·2	111·0	111·0	109·8	108·8	109·0	103·32
100·6	101·7	101·8	101·0	99·9	99·4	97·9	97·4	99·3	99·9	100·8	101·0	98·42
95·8	96·4	97·2	97·2	97·1	98·0	—	—	—	—	—	—	94·02
—	—	—	—	—	—	91·8	97·1	101·9	100·2	99·3	99·3	89·68
92·8	93·2	93·0	92·6	92·6	92·8	89·0	92·3	92·3	93·1	93·3	93·3	95·46
89·4	90·0	88·5	88·5	88·2	88·2	88·2	88·2	88·5	88·4	88·5	88·5	105·52
94·8	97·0	97·8	98·7	98·7	99·0	99·0	102·1	102·6	102·6	102·6	104·6	102·31
105·5	106·4	106·4	105·9 <sup>a</sup>	105·9	105·9	106·7	105·9	105·9	106·1	104·8	107·9	89·77
101·8	101·4	100·0	99·7	99·7	98·8	97·9	97·6	96·6	96·0	94·9	94·9	87·91
90·2	84·5	84·6	84·2	84·2	84·2	—	—	—	—	—	—	83·45
—	—	—	—	—	—	91·3	91·2	91·2	90·9	90·8	93·7	84·60
85·3	87·2	86·4	86·4	87·9	87·7	86·6	86·6	85·7	85·7	85·7	86·1	79·11
81·0	81·2	82·8	82·8	81·6	81·6	83·6	85·7	85·7	85·7	85·7	84·4	74·50
85·8	87·4	88·6	88·4	88·4	88·4	87·9	88·1	86·3	85·9	81·8	81·8	75·40
82·2	83·8	82·5	82·0	81·9	84·4	76·8	70·6	69·1	69·4	78·4	76·2	83·66
78·9	71·6	73·0	72·2	70·2	69·2	68·2	70·5	71·8	69·9	65·4	70·4	78·28
76·5	77·5	77·5	80·5	78·8	78·3	—	—	—	—	—	—	82·78
—	—	—	—	—	—	71·8	68·5	72·2	77·5	82·1	85·3	85·52
88·4	86·7	88·5	79·7	84·3	79·9	70·4	81·2	76·4	73·0	81·0	81·9	90·85
80·4	81·4	79·9	77·9	76·1	77·5	76·9	65·0	74·3	78·0	68·1	76·3	93·26
87·7	84·6	84·6	83·2	83·5	85·4	83·0	82·7	84·5	83·6	80·6	86·8	—
84·0	85·3	82·3	87·0	84·0	88·6	87·7	87·4	87·4	86·4	88·4	88·4	—
91·7	91·9	92·8	94·0	92·0	92·8	92·6	90·9	90·7	90·7	91·0	91·0	—
93·34	93·22	93·27	93·17	92·85	93·01	91·83	91·95	92·60	92·53	92·00	93·18	93·26

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
34·1	34·0	34·0	34·0	34·8	34·8	—	—	—	—	—	—	31·71
—	—	—	—	—	—	29·5	30·2	30·0	30·2	30·2	30·3	34·55
35·7	36·0	36·0	36·0	36·0	35·7	35·7	36·0	35·6	35·6	36·0	36·6	37·18
39·3	39·6	38·8	37·2	37·0	36·5	36·2	35·3	34·8	34·5	34·0	33·6	31·76
32·0	32·0	32·0	31·8	31·5	31·5	31·5	31·3	31·4	31·3	31·4	32·0	33·16
33·0	33·3	33·3	33·2	33·1	33·2	33·5	33·8	34·1	34·3	34·3	34·0	38·28
40·0	39·6	39·5	39·8	40·1	40·2	40·6	40·9	40·9	40·4	39·6	39·4	40·11
42·0	42·0	41·6	41·0	41·0	40·6	—	—	—	—	—	—	42·70
—	—	—	—	—	—	38·0	38·0	38·2	39·0	39·5	39·7	45·07
43·6	43·4	43·5	43·5	43·4	43·4	44·0	43·8	43·6	43·6	43·3	43·1	41·77
45·4	45·4	45·8	46·0	46·0	45·8	45·6	45·6	45·6	45·6	45·6	45·6	35·74
42·0	41·4	41·0	40·5	40·0	39·5	38·5	38·0	37·6	37·4	37·0	36·6	37·52
36·8	36·2	36·1	35·6 <sup>a</sup>	35·6	35·6	35·4	36·0	35·4	35·4	34·6	34·0	44·75
38·2	38·2	38·8	39·4	39·8	39·8	40·3	40·5	40·6	40·8	41·6	41·9	45·49
46·5	46·7	47·2	47·4	47·4	47·2	—	—	—	—	—	—	48·25
—	—	—	—	—	—	43·3	43·3	43·2	42·8	42·6	42·4	48·52
46·6	46·4	46·4	46·4	46·4	46·4	46·4	46·6	46·6	46·6	46·6	46·6	49·66
50·2	49·7	49·5	49·0	49·0	48·2	48·0	47·5	47·5	47·2	47·2	47·5	52·09
49·5	49·1	48·6	48·6	48·0	48·0	48·6	48·6	49·0	49·1	48·8	48·6	51·00
50·0	50·0	50·4	50·6	50·6	50·4	50·4	49·6	49·6	49·5	49·5	49·0	48·25
52·9	54·3	54·1	54·1	54·3	53·4	53·6	53·1	53·1	53·2	53·2	53·1	51·41
52·6	52·2	51·8	51·5	51·2	50·7	—	—	—	—	—	—	49·08
—	—	—	—	—	—	46·8	46·4	46·4	46·3	46·1	45·8	47·35
50·0	49·9	49·6	50·0	49·7	49·2	48·9	48·6	48·6	48·6	48·6	48·4	44·84
52·2	52·7	52·8	53·2	52·8	52·8	52·3	52·7	52·3	52·0	51·6	50·8	—
49·3	49·3	48·7	49·0	49·2	48·7	48·5	48·5	47·6	47·0	46·7	46·6	—
49·3	48·7	48·0	47·2	46·4	46·0	45·8	45·8	45·6	45·6	45·4	45·4	—
45·0	45·0	44·8	44·6	44·6	44·6	44·6	44·4	44·1	44·2	44·5	44·5	—
44·01	43·96	43·85	43·73	43·66	43·43	42·75	42·68	42·56	42·51	42·41	42·31	42·93

<sup>a</sup> Four minutes late.



VERTICAL FORCE.													
One Scale Division = .000063 parts of the V. F.      Change in the magnetic moment of the Bar for 1° Fahr. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MARCH.	1	90.6	90.6	90.6	68.6	81.2	80.7	81.9	83.1	83.8	83.6	83.1	81.6
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	87.0	86.9	87.0	85.8	86.1	86.5	86.6	88.9	88.1	87.9	86.8	88.1
	4	89.3	92.0	89.5	88.2	84.4	82.4	84.4	84.4	83.0	82.9	82.3	82.8
	5	84.4	86.4	86.1	86.1	85.3	84.5	84.5	85.1	86.0	84.5	82.6	80.9
	6	86.3	86.8	86.2	84.7	80.5	80.5	81.4	81.0	80.7	81.6	79.3	79.1
	7	85.6	84.8	84.1	81.2	79.5	78.8	78.7	78.3	79.7	79.7	80.5	80.7
	8	77.0	76.9	77.6	78.0	76.1	75.1	73.5	73.3	73.3	73.3	72.9	71.7
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	86.4	89.5	89.5	89.1	87.1	86.0	86.0	84.5	84.0	84.9	83.6	83.5
	11	86.9	88.0	87.1	85.1	80.8	80.8	78.5	78.5	80.8	80.5 <sup>a</sup>	79.7	79.4
	12	84.9	86.0	86.0	83.0	82.1	81.0	80.9	82.0	80.7	79.8	78.7	79.7
	13	78.6	81.9	83.0	80.2	79.4	77.6	77.7	77.3	77.3	76.5	76.1	76.3
	14	82.2	80.8	82.5	79.3	78.2	77.8	77.1	76.1	79.1	79.1	80.3	81.9
	15	90.9	91.5	95.7	96.5	97.0	93.2	93.2	90.7	94.7	94.7	96.7	97.7
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	99.5	100.6	99.4	96.5	94.4	93.3	92.6	92.1	90.4	90.4	89.7	92.0
	18	96.1	96.1	96.1	95.6	94.1	95.3	95.9	96.4	94.6	95.9	95.9	95.6
	19	98.8	98.8	97.4	96.2	96.5	95.8	96.3	98.3	98.3	100.7	98.8	99.0
	20	89.3	92.6	92.9	92.5	90.1	86.5	90.0	89.4	89.6	89.8	89.7	91.0
	21 <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	22	96.4	97.0	93.9	90.7	89.6	86.6	86.6	87.2	87.2	87.0	85.1	84.6
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	86.2	86.2	86.2	85.7	85.7	86.0	85.0	89.9	88.0	87.4	85.5	89.2
	25	86.2	88.6	87.1	86.1	82.0	78.3	79.8	78.0	78.0	77.6	78.0	79.0
	26	82.6	82.6	82.6	84.2	82.5	82.5	82.5 <sup>a</sup>	83.8	86.1	82.7	84.4	84.2
	27	78.2	77.6	77.0	76.3	73.2	69.8	70.1	69.4	71.2	74.2	70.5	71.2
	28	74.1	74.1	73.7	73.7	71.6	69.2	66.4	67.0	67.4	69.2	70.3	78.0
	29	71.5	73.1	72.1	70.2	66.0	64.3	62.6	62.5	62.9	63.0	64.9	67.5
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	69.5	69.8	69.0	68.1	67.3	63.5	63.3	63.5	63.9	63.7	63.8	63.8
Hourly Means	85.54	86.37	86.09	84.06	82.83	81.44	81.42	81.63	81.95	82.02	81.57	82.34	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
MARCH.	1	44.6	44.6	44.6	46.0	47.2	47.4	47.5	47.8	48.0	48.4	49.2	49.6
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	46.6	46.6	46.0	45.8	45.6	45.8	45.8	45.8	45.9	46.3	46.3	46.0
	4	45.2	44.2	44.6	45.4	46.3	47.0	47.2	47.1	47.7	48.4	48.9	49.0
	5	47.0	46.6	46.2	45.8	45.8	46.1	46.6	46.9	47.0	47.6	48.2	48.4
	6	46.0	46.0	46.1	47.0	48.4	48.9	48.6	48.7	49.0	50.0	50.4	50.1
	7	46.8	47.0	47.4	48.2	48.8	49.2	49.5	49.8	50.1	50.1	50.0	50.0
	8	50.8	50.6	50.8	50.6	51.0	51.6	52.6	53.9	54.1	54.3	54.6	54.4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	44.6	44.0	44.0	44.2	44.6	45.2	45.6	46.1	46.6	46.8	47.5	47.8
	11	45.6	45.4	45.6	46.2	46.9	47.4	47.8	48.4	48.4	49.0	49.5	49.6
	12	46.8	46.2	46.2	47.0	47.4	48.2	48.2	48.2	49.5	49.4	49.8	49.5
	13	47.6	47.2	47.2	48.0	47.9	48.6	49.0	49.6	50.1	50.5	51.3	51.7
	14	49.0	48.6	48.0	47.8	48.2	48.8	49.2	49.6	49.8	49.7	49.9	49.5
	15	41.8	41.4	40.8	40.6	40.6	40.6	40.6	40.4	46.1	40.2	40.2	40.0
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	39.0	39.2	39.6	39.8	40.6	40.8	41.8	42.3	42.9	43.0	43.3	43.4
	18	41.4	40.9	40.6	40.6	41.0	41.4	41.7	42.2	42.2	42.2	42.4	42.0
	19	39.9	39.9	40.0	39.8	39.8	40.0	40.0	40.0	40.4	40.4	40.8	40.9
	20	42.6	41.8	42.1	41.8	42.6	43.8	44.1	44.4	44.0	44.0	44.2	44.0
	21 <sup>b</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	22	41.0	41.5	42.4	43.4	44.2	44.8	45.2	45.8	45.8	46.2	47.2	47.8
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	45.0	45.3	45.3	45.5	46.0	46.0	46.6	46.8	47.4	47.6	48.0	48.2
	25	47.6	47.0	47.0	47.6	48.4	49.2	49.4	49.6	50.0	50.5	50.5	51.0
	26	49.0	49.0	49.0	49.3	49.3	49.5	49.9	49.9	50.0	50.3	51.0	51.3
	27	51.5	51.3	51.5	52.2	53.2	54.1	54.5	55.3	56.0	56.4	56.4	57.0
	28	53.3	52.8	52.8	53.0	53.3	54.0	54.3	55.0	55.6	55.4	55.7	56.1
	29	53.0	53.0	53.3	54.4	54.6	55.8	56.6	56.7	57.3	58.5	59.2	59.3
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	56.4	56.0	56.0	55.3	56.0	57.1	57.4	58.1	58.2	58.5	58.7	59.0
Hourly Means	46.48	46.24	46.28	46.61	47.11	47.64	47.99	48.34	48.64	48.95	49.33	49.42	

<sup>a</sup> Four minutes late.

<sup>b</sup> Good Friday.

VERTICAL FORCE.												
One Scale Division = .000063 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fah°. = .00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
81.6	81.6	81.4	81.4	82.0	82.0	88.0	83.2	85.7	88.5	88.5	87.3	83.78
88.1	88.6	87.9	87.6	88.6	89.0	89.6	89.0	88.6	88.4	89.3	89.3	87.90
83.5	83.5	83.5	83.6	83.5	83.7	83.7	84.5	84.7	84.7	84.2	83.9	84.69
80.8	81.5	81.9	82.2	82.6	83.1	83.9	83.9	85.2	85.3	86.2	86.2	84.13
79.2	82.0	82.3	82.3	82.4	84.2	84.2	84.2	84.8	84.8	84.4	85.2	82.84
80.4	79.3	79.3	79.3	78.7	78.7	78.7	77.8	76.0	78.9	78.3	78.7	79.82
71.7	71.8	71.8	73.3	74.2	74.2	—	—	—	—	—	—	—
83.6	83.6	83.6	83.5	83.7	84.3	84.0°	83.7	83.3	85.6	88.3	86.4	76.96
79.1	81.5	81.9	83.4	83.4	83.4	84.7	85.6	85.5	85.7	85.7	86.9	85.44
78.5	79.5	80.1	80.1	79.8	81.8	82.0	83.6	83.4	84.9	84.9	84.9	82.68
75.9	76.4	78.8	78.8	79.4	79.3	80.2	81.6	81.6	74.0	77.3	79.1	80.84
82.9	84.7	84.7	85.4	84.1	85.7	86.5	79.4	74.5 <sup>a</sup>	69.9	69.6	77.6	77.57
98.2	97.4	98.7	97.4	96.6	93.7	—	84.2	86.1	85.7	86.4	90.3	82.55
—	—	—	—	—	—	97.8	98.0	101.0	101.0	98.2	99.0	96.23
93.3	93.9	92.9	93.2	95.1	95.1	95.1	94.9	94.3	95.0	98.6	97.6	94.58
97.2	97.1	97.2	97.3	99.5	98.4	94.3	94.3	94.0	99.0	99.0	98.8	96.40
98.0	95.0	94.9	89.1	91.3	90.5	79.5	82.1	89.5	90.6	90.1	92.9	94.10
91.0	93.3	93.0	93.0	95.7	93.3	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	88.8	94.0	94.4	94.4	91.56
84.6	85.7	85.9	85.7	82.6	87.0	—	—	—	—	—	—	—
—	—	—	—	—	—	79.7	90.3	87.9	87.9	86.2	86.2	87.57
89.2	96.0	96.0	97.5	91.1	91.1	85.3	84.1	84.7	84.7	86.7	87.1	88.10
80.3	84.1	81.9	81.9	81.9	81.9	81.3	81.4	80.3	83.6	82.0	82.5	81.74
80.8	82.4	78.0	74.8	78.5	78.4	64.5	74.4	77.0	76.0	76.0	78.9	80.02
70.5	70.4	69.3	71.5	71.3	71.8	70.8	72.9	73.0	74.4	74.1	74.1	72.62
69.7	69.5	70.0	71.5	71.5	71.5	71.2	71.2	69.5	69.5	62.9	66.3	70.38
67.9	63.0	63.4	63.4	63.4	63.7	—	—	—	—	—	—	—
—	—	—	—	—	—	67.4	69.0	68.6	69.2	69.4	68.8	66.58
63.0	63.0	63.0	64.3	64.3	64.3	64.1	65.4	67.6	64.3	64.6	64.3	65.06
81.96	82.59	82.46	82.46	82.61	82.80	81.68	82.45	83.02	83.42	83.41	84.27	82.94
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
49.5	49.5	49.5	49.6	49.1	48.7	—	—	—	—	—	—	—
—	—	—	—	—	—	46.0	46.0	45.6	45.6	45.6	46.5	47.34
46.0	46.1	46.3	46.0	45.4	45.2	45.0	45.4	45.4	45.6	45.2	44.6	45.78
48.5	48.4	48.4	49.0	48.8	49.0	49.0	47.6	47.6	47.6	47.6	47.6	47.50
48.4	48.8	48.8	48.8	48.6	48.4	48.2	48.0	47.6	47.3	47.1	46.5	47.45
50.0	49.6	49.5	49.0	48.6	48.0	47.8	47.8	47.4	47.4	47.4	47.2	48.27
50.3	50.5	50.3	50.3	50.6	50.8	50.7	50.5	50.5	50.3	50.3	50.3	49.68
54.2	54.2	53.7	53.7	53.3	53.0	—	—	—	—	—	—	—
—	—	—	—	—	—	45.8	45.8	46.0	46.0	46.2	44.8	51.08
47.8	47.6	47.6	48.0	48.0	47.8	47.6	46.6	45.8	45.5	45.4	45.6	46.26
49.2	49.6	49.6	48.4	48.2	48.0	47.6	47.6	47.4	47.0	47.0	46.6	47.75
49.5	49.4	49.0	49.6	49.4	49.0	48.8	48.6	48.6	48.2	48.1	47.8	48.43
51.5	51.3	50.7	50.1	49.9	49.5	49.4	49.5	49.1	48.8	48.8	49.0	49.43
49.5	49.0	48.0	47.4	46.6	45.6	45.0	43.9	43.7	43.4	42.0	42.0	47.26
40.0	40.0	40.0	40.2	40.2	40.0	—	—	—	—	—	—	—
—	—	—	—	—	—	37.8	37.8	38.0	38.2	38.6	39.2	39.89
43.0	43.3	43.0	42.6	42.0	42.0	42.0	42.4	42.6	42.0	42.0	41.4	41.83
41.6	41.5	40.8	40.8	40.6	40.3	40.3	40.0	39.9	39.9	39.9	39.9	41.00
41.4	42.2	42.3	42.1	42.4	43.1	43.1	43.0	42.6	42.4	42.6	42.6	41.32
44.0	43.6	43.6	43.6	44.0	43.8	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	41.0	40.8	41.4	41.3	43.02
47.8	47.4	46.8	46.8	46.8	46.5	—	—	—	—	—	—	—
—	—	—	—	—	—	45.0	44.8	44.8	44.8	44.8	45.0	45.27
48.2	48.0	48.0	47.7	48.0	48.4	48.1	47.8	47.8	47.6	47.0	47.6	47.16
51.1	51.0	50.6	50.3	50.3	50.3	50.3	50.7	50.5	50.7	50.4	49.4	49.73
51.5	51.5	51.5	51.9	51.9	51.8	52.0	52.0	51.6	51.8	51.6	51.6	50.76
57.0	57.0	56.2	55.3	54.5	54.3	54.2	54.0	53.8	53.7	53.5	53.2	54.42
56.1	55.8	55.7	55.3	54.8	54.7	54.3	54.0	54.0	54.1	53.6	53.6	54.47
58.8	59.4	59.2	59.3	59.1	58.8	—	—	—	—	—	—	—
—	—	—	—	—	—	56.3	56.3	56.3	56.2	56.0	56.2	56.82
59.0	59.0	59.0	59.0	59.0	58.7	58.5	58.6	59.0	58.6	58.6	58.3	53.00
49.36	49.35	49.12	48.99	48.80	48.63	48.03	47.86	47.46	47.34	47.23	47.11	48.01

VERTICAL FORCE.													
One Scale Division = '000063 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
APRIL.	1	64.5	65.5	67.6	69.3	70.7	72.0	72.0	72.0	74.1	73.5	73.5	74.7
	2	80.2	80.6	79.1	76.0	69.3	74.9	74.9	75.0	76.2	76.2	76.2	75.2
	3	77.1	84.0	80.5	81.1	81.1	79.7	79.7	82.5	82.5	83.5	81.3	80.8
	4	81.2	79.0	77.6	76.8	77.2	77.2	77.7	77.9	78.2	79.3	78.9	79.6
	5	85.4	85.0	85.5	85.5	84.0	82.4	83.3	85.4	85.0	85.0	85.0	86.0
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	92.0	92.6	95.2	94.2	94.2	93.6	92.0	89.7	89.7	88.8	88.2	88.1
	8	96.8	96.6	95.7	95.8	95.2	93.9	93.9	91.1	92.6	92.6	92.6	92.6
	9	95.5	95.5	94.1	89.9	88.6	86.3	84.5	84.5	84.5	85.3	85.3	86.3
	10	84.2	81.5	80.9	78.3	76.1	74.9	74.5	75.3	77.3	77.2	78.7	78.7
	11	82.2	82.9	83.9	83.9	80.9	79.6	78.8	78.4	78.9	78.4	79.5	79.2
	12	85.5	85.2	80.8	79.1	77.1	75.2	73.9	73.2	73.2	73.2	73.2	72.4
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	77.0	73.2	70.3	72.5	71.5	69.9	70.7	70.8	75.6	73.1	69.8	71.4
	15	72.9	72.9	68.6	68.4	64.1	63.7	64.7	65.6	65.6	66.0	64.7	63.5
	16	69.1	69.1	69.5	65.8	69.8	69.4	69.9	70.4	72.3	72.3	72.3	72.3
	17	69.7	71.5	71.0	70.6	69.5	67.6	66.0	67.8	69.6	70.8	71.7	72.0
	18	70.7	70.7	69.8	68.9	71.0	68.7	67.8	67.3	69.3	72.8	75.7	72.8
	19	71.0	70.6	69.9	69.2	67.2	65.9	67.2	68.6	73.1	74.5	74.5	74.1
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	73.0	73.0	73.0	71.4	69.8	68.2	67.3	67.9	65.5	69.8	70.7	70.6
	22	75.0	73.0	70.9	69.1	66.8 <sup>b</sup>	65.3	66.3	67.0	68.1	67.6	66.9	67.5
	23	64.6	65.9	64.5	63.5	61.9	59.5	58.1	58.0	57.2	60.8	56.3	58.7
	24	54.1	55.2	55.0	55.6	54.1	55.7	53.6	51.5	50.7	48.8	50.0	51.5
	25	57.0	56.0	56.1	58.3	60.9	63.0	63.0	65.4	65.4	68.4	68.4	68.4
	26	66.7	66.7	64.3	64.1	63.0	62.0	62.0	61.5	64.3	63.1	61.9	60.3
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	66.4	63.4	63.9	63.7	63.7	62.4	62.2	62.0	63.4	62.3	60.7	59.9
	29	61.6	61.5	59.5	58.6	58.5	58.5	58.5	57.9	57.9	56.8	56.2	56.2
	30	63.6	64.1	64.1	61.5	59.4	58.7	57.4	57.0	59.3	58.4	59.9	60.6
Hourly Means	74.50	74.43	73.51	72.74	71.75	71.09	70.77	70.91	71.90	72.25	72.00	72.05	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
APRIL.	1	58.0	57.3	56.5	55.3	54.6	54.2	53.6	53.4	53.4	52.8	52.6	52.6
	2	49.5	49.6	49.7	50.3	51.2	51.7	52.2	52.2	52.2	52.2	52.2	52.6
	3	47.3	47.4	47.8	48.2	48.6	49.1	49.4	49.8	50.0	50.0	50.6	50.0
	4	48.6	49.4	49.4	50.0	49.7	49.9	50.3	50.5	50.5	50.5	50.5	50.5
	5	46.8	46.8	46.9	46.6	47.0	47.0	47.6	47.6	47.6	47.6	47.3	46.6
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	41.8	41.4	41.0	41.3	41.5	41.8	42.6	43.2	43.9	44.2	44.8	45.0
	8	40.6	40.6	40.8	40.1	40.0	40.0	40.2	40.5	40.5	41.0	42.0	42.2
	9	40.7	40.6	41.2	42.8	43.5	44.2	44.6	45.3	45.8	46.6	46.6	46.8
	10	47.6	48.5	48.5	49.2	49.5	50.4	50.9	51.0	51.0	51.0	51.2	51.2
	11	49.0	48.6	47.8	47.4	48.2	48.6	48.8	49.4	49.6	50.0	50.5	50.9
	12	47.5	47.6	48.4	49.6	50.0	50.5	51.3	51.6	52.0	52.3	52.8	53.3
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	52.2	53.1	53.5	53.8	54.3	55.5	55.7	55.7	56.4	56.5	57.2	58.4
	15	53.2	53.9	54.1	55.0	56.0	56.5	57.0	57.4	58.1	58.8	59.2	59.2
	16	55.4	55.0	54.3	54.4	54.3	54.8	54.8	54.8	54.5	54.6	54.5	54.3
	17	53.3	53.7	53.7	53.0	53.1	53.3	53.5	54.0	53.9	53.8	53.9	53.6
	18	53.3	53.0	53.0	53.2	53.5	54.0	54.3	54.8	54.7	54.7	55.0	55.5
	19	55.3	55.1	55.0	54.8	55.1	55.3	55.5	56.0	55.8	55.8	55.8	56.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	53.1	53.3	53.3	53.5	53.8	54.2	54.4	54.7	55.0	55.2	55.6	55.5
	22	53.2	53.5	54.3	55.3	56.4	56.7	57.0	57.3	57.2	57.9	58.0	58.6
	23	57.0	57.3	57.5	58.0	59.0	60.1	60.1	61.4	61.3	61.6	61.7	61.7
	24	62.6	62.3	61.9	62.1	62.6	63.6	63.8	64.4	64.8	65.6	65.6	65.4
	25	59.4	58.8	59.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.6
	26	56.6	56.5	56.8	57.2	57.6	58.0	58.4	58.8	59.2	59.5	59.7	60.0
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	57.5	57.7	58.0	57.8	57.8	59.0	59.5	59.6	60.2	61.0	61.4	62.0
	29	59.0	59.2	59.4	59.8	60.4	60.6	60.6	61.0	61.2	61.6	61.6	61.8
	30	58.6	58.3	58.3	59.0	59.0	59.9	60.0	60.1	60.8	61.0	61.4	61.8
Hourly Means	52.20	52.25	52.32	52.54	52.88	53.35	53.63	53.95	54.15	54.39	54.62	54.77	

<sup>b</sup> Two minutes late.

**VERTICAL FORCE.**

One Scale Division =  $\cdot 000063$  parts of the V. F.      Change in the Magnetic moment of the Bar for  $1^{\circ}$  Fah $^{\circ}$ . =  $\cdot 00007$ .

12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
74.7	74.7	74.7	74.5	70.6	69.7	75.4	78.0	78.0	80.1	80.2	80.2	73.34
74.4	74.3	74.4	76.2	76.8	76.9	76.7	78.2	74.9	78.8	79.0	77.2	76.32
81.0	81.6	82.5	82.5	82.5	82.7	80.7	82.4	82.4	83.3	81.7	81.4	81.60
79.6	80.7	80.7	81.7	81.7	82.0	82.0	82.2	82.9	83.6	84.4	83.7	80.24
86.0	84.5	86.5	86.5	86.0	88.4	—	—	—	—	—	—	86.38
88.8	90.0	91.3	90.1	92.2	92.3	88.4	88.3	87.5	89.6	91.8	92.0	91.51
91.3	91.2	92.1	92.1	92.1	93.1	90.4	90.6	91.3	90.6	94.0	96.4	93.68
86.5	85.9	84.9	84.9	88.4	85.5	84.0	85.5	85.5	85.5	84.0	84.8	86.90
78.9	80.5	80.5	79.6	79.6	79.5	79.5	80.6	80.6	80.6	80.6	82.0	79.17
79.2	79.2	78.6	79.6	80.3	80.7	79.8	80.1	80.8	80.2	81.3	84.1	80.44
73.5	74.1	74.1	73.4	74.0	73.9	—	—	—	—	—	—	75.45
—	—	—	—	—	—	77.0	75.2	72.9	72.1	75.1	73.4	69.84
68.0	65.7	67.2	68.0	67.1	65.1	64.1	63.0	68.5	69.7	72.0	72.0	65.12
63.9	62.5	63.1	64.1	58.8	63.8	64.1	64.1	62.1	62.1	66.3	67.3	71.16
73.3	72.5	73.7	73.5	73.5	71.3	71.3	71.3	71.3	71.3	71.4	71.3	70.84
72.0	72.5	72.5	72.3	72.3	72.3	73.3	73.0	70.6	71.4	69.5	70.7	70.71
72.8	72.5	75.1	74.8	66.9	68.4	70.4	70.0	69.6	69.6	70.4	71.0	70.61
74.1	74.2	69.6	67.7	67.7	67.7	—	—	—	—	—	—	69.40
—	—	—	—	—	—	64.6	71.7	73.7	72.9	72.4	72.5	66.83
69.7	69.7	68.9	69.9	64.9	65.8	69.6	69.6	65.4	65.4	71.6	75.0	57.22
66.2	66.2	64.9	65.6	65.4	65.4	64.6	64.8	64.8	63.3	63.3	65.8	52.54
57.9	53.4	54.0	54.8	54.5	53.9	54.0	52.3	53.0	50.0	53.0	53.4	64.20
51.5	52.0	52.7	52.7	52.6	53.2	53.2	48.4	44.1	53.0	55.2	56.6	62.63
68.3	67.0	66.3	65.4	66.1	66.1	65.2	61.0	64.3	67.0	67.0	66.8	60.87
60.3	59.3	58.3	59.7	58.6	59.6	—	—	—	—	—	—	58.46
—	—	—	—	—	—	64.6	64.8	65.0	65.0	61.7	66.4	60.05
59.0	59.0	58.4	57.2	57.7	57.7	58.8	58.8	57.9	59.6	61.1	61.6	—
56.2	55.7	56.3	57.3	58.1	58.6	59.4	62.5	58.5	57.5	59.4	61.9	—
65.2	68.9	74.6	42.3	57.5	62.1	56.6	59.9	57.3	56.9	57.0	59.0	—
72.01	71.84	72.15	71.02	71.00	71.37	71.60	71.89	71.45	72.07	73.04	73.92	72.14

**TEMPERATURE OF THE VERTICAL FORCE MAGNET.**

52.6	52.6	52.5	52.3	52.2	52.3	52.0	50.4	49.8	49.6	49.5	49.5	52.90
52.4	52.4	52.6	51.5	51.2	50.8	50.5	50.3	49.5	49.5	49.0	48.0	50.97
49.7	49.5	49.5	49.5	49.2	48.6	48.2	47.9	47.5	48.0	48.5	48.6	48.85
50.1	49.9	49.5	49.4	49.0	48.6	48.6	48.4	48.2	47.7	47.7	47.4	49.35
46.6	46.0	46.0	45.8	45.6	45.2	—	—	—	—	—	—	45.79
—	—	—	—	—	—	43.5	43.5	43.1	43.0	42.9	42.3	42.95
45.0	44.6	44.4	44.6	43.7	43.2	43.0	42.8	42.4	42.0	41.6	41.0	41.57
42.6	43.6	43.6	43.8	43.0	42.6	42.0	41.8	41.6	41.4	41.6	41.6	45.52
47.2	46.8	46.8	46.8	46.6	46.6	47.6	46.6	46.8	47.1	47.3	47.5	49.82
50.7	50.3	50.1	49.6	49.5	49.5	49.4	49.4	49.4	49.4	49.4	49.1	49.37
51.4	51.4	50.7	50.0	49.5	49.5	49.5	48.8	49.0	49.3	48.6	48.3	51.99
53.3	53.2	53.2	53.2	53.2	53.2	—	—	—	—	—	—	56.02
—	—	—	—	—	—	54.0	54.2	54.0	53.8	53.0	52.5	57.38
59.5	59.5	58.8	58.0	57.8	57.0	56.8	56.0	55.5	55.1	54.5	53.7	54.19
59.5	59.5	59.2	59.3	59.2	58.7	58.2	57.8	57.7	57.3	56.6	55.8	53.50
54.3	54.2	53.9	53.5	53.6	53.5	53.7	53.6	53.6	53.6	53.3	54.0	54.50
54.2	53.6	53.6	53.5	53.5	53.3	52.8	52.8	53.0	53.6	53.8	53.5	55.03
55.0	55.0	54.5	54.8	55.0	55.2	55.2	54.7	54.7	54.8	54.8	55.3	54.44
56.0	56.2	56.6	56.3	56.3	56.3	—	—	—	—	—	—	57.10
—	—	—	—	—	—	52.5	52.5	52.7	53.2	53.3	53.3	61.30
55.5	55.5	55.3	55.5	55.5	54.8	54.7	54.1	53.7	53.8	53.6	53.0	60.62
58.6	58.5	58.5	58.0	57.8	58.0	57.8	57.8	57.8	57.6	57.3	57.4	58.03
62.1	62.8	63.2	63.0	63.0	63.3	62.6	62.8	62.8	62.6	62.8	63.6	58.95
64.8	64.6	64.6	65.0	64.6	64.6	64.6	63.0	62.4	62.2	61.4	60.5	60.18
58.6	58.6	58.2	57.7	57.3	57.3	57.1	57.7	57.3	56.9	57.0	56.6	60.52
60.4	60.5	60.6	60.6	60.6	60.6	—	—	—	—	—	—	60.75
—	—	—	—	—	—	60.0	59.5	59.0	58.7	58.4	57.5	—
62.1	62.1	62.5	62.2	61.6	61.4	61.0	60.6	60.2	60.0	59.6	59.5	—
61.6	61.2	61.2	61.2	60.8	60.8	60.4	60.0	60.0	60.2	59.6	59.3	—
61.8	61.4	62.0	62.4	62.3	62.0	62.0	61.4	61.2	61.0	61.0	61.2	—
54.83	54.75	54.67	54.52	54.29	54.11	53.76	53.40	53.19	53.13	52.93	52.69	53.64

Three minutes late.

VERTICAL FORCE.													
One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
MAY.	1	58.6	56.5	52.9	51.3	49.3	49.8	51.7	52.7	53.6	53.6	50.9	51.8
	2	59.9	58.4	56.4	56.0	54.7	54.7	56.5	59.2	59.6	59.7	58.5	57.0
	3	63.2	61.4	60.2	59.3	58.4	58.4	57.3	57.4	57.2	57.2	57.9	57.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	69.3	68.6	67.9	65.8	64.2	64.6	64.8	67.3	68.2	68.2	66.7	65.4
	6	72.4	70.7	69.0	67.9	64.8	63.6	62.9	65.4	64.4	65.7	64.0	63.7
	7	70.8	71.3	70.7	70.7	68.9	68.9	68.9	68.9	70.8	69.9	69.9	68.1
	8	75.4	72.9	68.8	68.5	66.2	67.0	69.5	66.4	66.7	70.3	69.2	68.9
	9	70.0	67.7	65.7	64.0	62.3	60.3	60.9	60.9	63.2	62.9	61.3	61.3
	10	67.2	65.4	62.0	61.0	59.4	59.4	59.4	58.4	58.6	57.4	56.6	55.3
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	52.9	51.9	50.0	45.3	44.0	42.1	40.3	39.9	38.3	39.1	40.0	39.3
	13	44.5	45.0	44.0	41.8	40.3	39.0	37.5	37.5	37.5	36.8	36.8	39.8
	14	43.1	42.0	43.0	42.9	41.8	42.6	41.8	43.3	42.5	43.1	46.9	46.9
	15	54.1	54.7	56.5	59.0	59.0	56.7	57.7	59.0	61.7	63.7	67.0	65.3
	16	65.0	61.5	60.6	60.3	61.0	59.6	62.5	62.5	63.7	65.3	64.7	64.7
	17	70.2	67.7	63.9	62.0*	58.9	57.6	56.4	56.4	56.4	57.8	57.8	60.1
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	57.5	53.9	51.4	50.2	50.2	48.7	49.7	52.3	53.4	53.4	52.5	54.4
	20	59.0	56.8	54.3	54.2	53.5	53.0	51.4	51.1	54.2	54.6	54.5	54.5
	21	65.0	63.1	59.3	58.9	60.9	59.3	59.7	59.7	60.3	60.5	59.6	59.7
	22	64.7	64.7	66.1	64.7	63.2	63.3	63.5	66.5	69.3	70.5	72.5	69.3
	23	69.9	68.3	65.5	64.5	61.2	60.4	60.4	59.1	59.8	60.2	61.0	60.5
	24	64.8	65.8	65.3	63.6	60.8	58.7	61.0	63.3	63.9	63.5	63.5	63.5
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	67.7	67.5	60.5	59.1	59.1	58.0	57.0	55.0	54.2	54.1	52.9	52.9
	27	56.9	56.9	55.0	53.3	51.1	49.0	47.0	46.5	45.4	46.3	46.7	48.5
	28	52.1	52.6	53.9	54.5	51.7	50.6	49.4	48.3	50.3	49.3	48.7	48.7
	29	64.7	65.5	65.6	64.3	64.1	62.6	59.8	60.9	64.4	66.3	66.3	66.9
	30	73.5	73.5	72.8	70.1	66.5	63.1	64.4	68.8	71.3	72.5	73.2	71.3
	31	47.8	51.4	50.5	51.6	51.6	56.4	60.0	62.0	62.5	60.9	61.6	62.0
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	62.23	61.36	59.70	58.66	57.30	56.57	56.83	57.36	58.20	58.62	60.82	60.66	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
MAY.	1	61.0	61.6	62.6	62.4	63.0	63.6	63.6	64.0	64.2	64.8	65.6	66.3
	2	60.2	60.8	60.8	60.8	60.4	60.0	60.0	60.0	60.2	60.4	61.2	61.4
	3	58.0	59.2	59.2	59.8	59.4	59.8	60.8	60.8	61.0	61.0	61.4	61.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	55.0	55.2	55.6	55.5	55.7	55.7	55.7	56.4	56.2	56.3	57.0	57.0
	6	53.0	53.5	54.3	55.1	55.8	56.2	56.3	56.5	57.3	57.9	58.3	59.0
	7	54.5	54.3	54.3	53.5	53.5	53.8	54.2	54.3	54.5	55.3	56.0	56.5
	8	51.8	52.3	53.5	53.5	54.3	54.3	53.3	53.4	53.8	54.4	55.0	55.0
	9	53.3	53.3	55.0	57.0	57.2	57.5	57.9	58.0	58.0	58.3	59.0	59.3
	10	56.0	56.8	57.2	57.6	58.5	59.2	59.6	60.0	60.2	61.0	61.0	60.6
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	63.0	63.6	64.0	65.4	66.8	67.6	68.4	68.6	69.5	70.0	70.0	70.4
	13	66.6	66.6	67.0	67.6	67.8	68.6	69.8	70.0	70.7	71.4	71.4	71.7
	14	66.3	66.6	66.4	66.2	66.4	66.5	66.5	66.8	67.2	66.8	66.7	66.8
	15	61.0	60.4	59.0	58.0	58.3	57.2	57.4	57.4	57.6	57.8	57.8	58.9
	16	54.1	54.6	54.9	55.3	56.0	56.2	56.0	56.5	56.5	57.3	57.5	57.1
	17	54.5	55.2	56.0	56.7	57.3	58.3	58.7	58.7	59.3	60.0	60.2	60.2
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	60.3	61.3	61.6	61.8	62.4	63.2	63.4	63.6	63.8	63.8	63.6	63.8
	20	60.0	60.6	60.8	60.4	60.6	61.0	61.0	61.5	61.6	61.6	62.0	62.0
	21	57.2	57.2	58.0	58.3	58.5	59.1	59.2	59.2	59.3	59.8	60.2	61.2
	22	56.5	56.1	55.9	55.5	55.6	56.0	56.5	56.5	56.5	56.5	56.5	56.3
	23	53.6	54.6	55.1	56.1	56.9	57.3	58.0	58.0	58.3	59.1	59.5	59.6
	24	56.0	56.0	56.0	55.7	55.9	56.2	56.3	56.6	57.0	57.3	57.3	57.3
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	54.8	54.5	55.5	56.2	58.0	58.6	59.4	59.6	61.6	61.8	62.8	62.6
	27	60.5	60.5	60.5	61.2	62.0	62.8	63.4	63.6	64.2	64.8	65.2	65.6
	28	62.6	62.4	62.4	61.6	62.0	62.8	62.8	63.4	63.4	63.7	64.4	64.6
	29	55.8	55.5	54.7	54.8	54.7	55.1	55.3	55.3	55.3	55.6	55.8	56.2
	30	52.2	52.0	52.7	53.4	54.3	54.5	54.5	54.7	54.7	55.2	55.9	56.9
	31	55.3	55.8	56.3	56.8	57.9	58.6	58.8	59.2	59.1	60.0	60.7	61.4
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	57.52	57.80	58.12	58.38	58.86	59.25	59.51	59.73	60.04	60.44	60.81	61.08	

\* Five minutes late.

VERTICAL FORCE.												
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = '00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 49·9	Sc. Div. 49·8	Sc. Div. 51·6	Sc. Div. 51·6	Sc. Div. 51·6	Sc. Div. 51·6	Sc. Div. 52·6	Sc. Div. 54·0	Sc. Div. 55·0	Sc. Div. 56·5	Sc. Div. 57·1	Sc. Div. 59·3	Sc. Div. 53·05
55·0	55·4	55·4	56·7	58·1	59·4	58·9	59·8	60·0	60·8	61·7	62·0	58·08
56·3	56·9	56·6	55·8	57·5	56·0	—	—	—	—	—	—	59·98
—	—	—	—	—	—	63·9	64·2	64·6	65·7	67·7	69·0	67·20
64·7	64·7	66·0	66·0	66·4	66·9	67·5 <sup>b</sup>	69·1	68·8	69·8	69·4	72·4	65·87
63·1	63·9	63·6	63·8	64·4	64·2	64·9	66·5	67·1	67·1	67·1	70·6	69·91
66·1	67·1	67·0	68·3	69·3	70·2	70·2	74·0	70·1	73·0	72·4	72·4	69·15
69·6	70·9	70·6	69·7	69·3	68·9	68·9	69·1	69·6	64·5	68·3	70·4	62·93
59·5	58·9	60·0	60·0	62·0	62·1	62·1	63·8	63·8	65·1	66·0	66·4	56·21
55·3	54·7	54·7	55·1	55·8	56·3	—	—	—	—	—	—	41·56
—	—	—	—	—	—	49·3 <sup>c</sup>	49·2	49·7	47·6	49·4	51·8	40·31
37·6	37·6	38·2	38·4	37·3	39·2	37·5	40·5	40·5	40·8	42·6	44·1	44·68
39·8	40·3	39·0	37·3	38·7	40·3	36·1	40·6	42·9	44·0	44·0	44·0	62·28
45·5	44·9	45·3	42·6 <sup>b</sup>	44·6	44·6	44·0	42·2	42·0	49·0	51·1	53·7	64·57
64·2	63·2	64·0	64·9	64·9	64·9	64·9	66·3	67·1	67·1	66·3	62·7	59·25
63·9	63·9	63·9	64·7	65·6	65·9	66·7	67·6	67·5	67·5	70·1	71·0	53·48
58·5	60·3	59·4	64·8	61·0	61·0	—	—	—	—	—	—	56·17
—	—	—	—	—	—	54·8	51·7	51·2	56·3	59·1	58·8	60·33
54·0	52·9	53·0	53·0	53·0	53·9	53·9	54·8	55·5	54·8	58·0	59·0	66·38
54·5	57·4	59·9	59·9	59·0	49·0	49·0	57·2	60·4	62·2	63·9	64·6	60·79
58·8	58·8	60·5	57·2	58·4	56·6	58·0	60·5	62·1	62·5	64·3	64·3	64·86
67·7	65·4	65·4	66·4	66·6	65·8	64·3	64·0	65·7	67·6	67·3	68·6	54·27
59·5	59·2	57·9	58·5	58·5	59·5	60·4	62·2	63·5	54·7	54·7	59·6	49·09
64·4	64·4	64·0	64·4	66·6	66·5	—	—	—	—	—	—	52·59
—	—	—	—	—	—	67·7	67·7	68·6	68·4	68·5	67·7	66·81
48·7	48·4	46·5	49·5	49·5	50·5	49·3	50·6	52·1	52·1	52·1	55·2	65·83
46·2	45·6	45·8	45·4	46·7	46·7	48·2	—	—	—	51·8	51·9	56·48
48·7	49·5	49·4	52·5	53·6	54·8	56·3	56·8	54·9	55·0	57·6	62·9	59·32
65·7	68·2	67·6	67·9	68·7	68·6	68·9	70·4	70·5	70·8	70·8	74·9	57·30
71·6	70·3	67·3	68·1	67·8	59·0	63·5	63·3	50·9	45·1	51·5	60·5	60·81
62·0	59·0	57·0	56·1	57·1	55·0	—	—	—	—	—	—	68·28
—	—	—	—	—	—	51·7	51·7	54·7	56·7	57·1	59·1	69·07
59·65	57·47	57·39	57·73	58·22	57·68	57·54	59·15	59·19	59·41	60·37	62·07	66·13
—	—	—	—	—	—	—	—	—	—	—	—	57·39
—	—	—	—	—	—	—	—	—	—	—	—	68·28
—	—	—	—	—	—	—	—	—	—	—	—	69·07
—	—	—	—	—	—	—	—	—	—	—	—	66·13
—	—	—	—	—	—	—	—	—	—	—	—	57·39
—	—	—	—	—	—	—	—	—	—	—	—	56·02
—	—	—	—	—	—	—	—	—	—	—	—	59·30
—	—	—	—	—	—	—	—	—	—	—	—	62·40
—	—	—	—	—	—	—	—	—	—	—	—	60·19
—	—	—	—	—	—	—	—	—	—	—	—	59·26
—	—	—	—	—	—	—	—	—	—	—	—	55·87
—	—	—	—	—	—	—	—	—	—	—	—	57·50
—	—	—	—	—	—	—	—	—	—	—	—	56·19
—	—	—	—	—	—	—	—	—	—	—	—	60·87
—	—	—	—	—	—	—	—	—	—	—	—	63·63
—	—	—	—	—	—	—	—	—	—	—	—	61·73
—	—	—	—	—	—	—	—	—	—	—	—	54·34
—	—	—	—	—	—	—	—	—	—	—	—	55·83
—	—	—	—	—	—	—	—	—	—	—	—	59·62
—	—	—	—	—	—	—	—	—	—	—	—	59·44
61·35	61·07	60·86	60·59	60·24	59·84	59·65	59·05	58·55	58·22	58·04	57·46	—

<sup>b</sup> Three minutes late.

<sup>c</sup> Six minutes late.

VERTICAL FORCE.													
One Scale Division = '000063 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
JUNE.	2 <sup>a</sup>	57·8	58·0	58·2	55·5	53·8	52·7	—	—	126·1	124·4	122·9	
	3	118·0	116·6	116·6	116·2	115·9	115·9	115·9	116·6	116·6	116·4	116·0	
	4	113·7	113·1	112·7	112·5 <sup>b</sup>	112·3	112·3	112·0	112·0	111·9	112·8	113·6	114·1
	5	110·5	110·5	110·2	110·2	109·7	109·3	109·3	109·4	110·0	110·0	110·0	109·8
	6	110·7	110·7	110·7	110·2	109·6	109·6 <sup>c</sup>	109·6	109·6	109·6	110·1	110·3	110·3
	7	111·9	111·6	111·6	111·1	111·1	111·1	110·9	103·8	104·5	105·1	104·8	104·5
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	99·6	99·1	99·1	97·7	96·8	96·7	95·4	95·2	94·7	94·7	94·5	94·5
	10	95·4	94·7	94·3	93·7	92·8	91·8	—	73·3	77·3	77·0	78·1	79·2
	11	85·5	86·3	85·9	82·7 <sup>b</sup>	81·1	82·0	81·1	80·8	82·6	83·8	84·2	82·5
	12	85·0	84·6	86·4	86·4	85·0	83·6	82·7	81·9	83·2	84·9	84·9	83·8
	13	84·1	83·5	81·9	79·9	80·6	81·3	81·3	80·4	77·8	78·7	78·7	79·0
	14	86·7	86·6	84·4	84·2	84·2	84·2	84·2	84·1	87·6	87·8	88·6	89·3
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	100·6	101·2	100·7	99·4	97·0	97·5	96·1	96·8	98·6	99·2	100·4	99·8
	17	99·8	102·7	101·0	101·0	101·0	101·0	98·5	96·8	96·1	97·4	99·0	98·2
	18	95·9	99·5	97·9	96·7	94·3	93·1	93·1	93·1	91·8	91·2	89·9	89·9
	19	93·9	94·3	92·3	90·9	89·2	88·2	87·4	87·1	86·4	87·7	88·7	86·7
	20	95·0	92·6	91·9	90·9	89·2	89·2	89·2	87·1	86·9	86·5	85·4	85·4
	21	88·2	87·4	86·5	83·7	80·4	78·6	78·9	79·8	79·8	79·8	80·0	80·9
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	89·9	90·0	86·4	83·2	81·0	78·3	79·5	81·2	81·8	81·8	81·3	80·3
	24	80·0	79·4	76·3	75·9	73·5	73·4	72·7	71·8	72·5	75·2	74·8	73·8
	25	74·5	73·2	74·2	71·6	74·9	74·1	75·2	76·2	77·2	77·6	79·2	79·0
	26	88·9	87·4	84·6	85·1	83·3	81·0	79·1	77·5	81·8	81·8	81·8	79·8
	27	87·9	86·0	85·2	82·5	79·5	79·2	78·9	78·2	77·4	78·3	78·3	76·6
	28	67·7	76·2	77·8	81·0	81·3	81·8	82·0	81·1	82·8	84·4	87·4	86·2
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	88·1	87·5	85·1	82·8	79·6	81·0	83·6	85·2	85·8	86·9	89·5	93·2
	Hourly Means	93·81	93·95	93·07	92·06	90·97	90·59	90·27	89·10	89·78	90·39	90·83	90·53
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
JUNE.	2	59·6	59·6	59·4	59·2	60·8	62·0	—	—	64·8	65·4	66·3	
	3	64·2	64·2	64·2	64·4	64·8	65·2	65·8	67·0	67·2	68·0	68·4	
	4	65·5	66·0	66·6	67·4	67·6	68·6	69·0	69·5	70·0	70·5	70·7	
	5	68·6	68·0	67·6	67·1	66·8	67·0	67·0	67·0	67·0	67·4	67·5	67·9
	6	63·1	63·1	63·0	63·2	63·5	63·5	63·5	63·6	63·5	63·3	63·2	62·8
	7	59·6	60·0	59·8	59·8	60·0	60·2	60·6	60·8	60·8	61·4	61·6	62·4
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	68·0	68·8	69·4	69·3	69·8	70·2	70·5	71·0	71·5	72·3	72·7	73·3
	10	68·8	69·4	69·8	70·5	70·9	71·4	—	72·3	74·0	73·5	73·5	73·5
	11	68·7	68·5	68·6	68·6	68·7	69·0	69·2	69·7	70·0	70·5	71·0	71·5
	12	67·5	67·3	67·0	67·0	67·3	67·5	66·9	68·0	69·0	69·0	69·0	69·8
	13	69·0	69·5	69·5	70·4	70·2	69·7	70·2	70·2	70·8	71·0	71·6	71·8
	14	68·0	66·6	67·4	67·4	67·4	67·4	67·6	67·6	67·6	67·8	68·0	68·4
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	60·0	60·2	60·4	60·6	60·6	61·4	61·6	61·8	61·6	61·4	61·4	61·4
	17	59·0	59·2	60·0	60·0	59·8	60·0	59·8	60·0	60·6	61·4	61·6	62·4
	18	61·5	60·2	60·8	61·0	61·7	62·6	63·0	63·2	63·9	64·8	64·8	65·0
	19	62·4	63·6	63·6	63·8	64·6	64·8	65·1	65·6	66·1	67·0	67·6	68·0
	20	63·6	63·6	64·0	64·0	65·1	65·6	66·3	67·0	68·4	68·6	69·0	68·8
	21	66·4	66·2	66·6	67·0	68·0	69·0	69·0	69·3	69·3	69·5	70·0	70·5
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	65·0	65·4	66·2	66·6	66·8	67·6	68·3	69·0	69·4	69·7	70·5	71·5
	24	69·6	69·4	69·7	70·4	71·4	72·0	72·4	72·7	73·5	73·7	73·9	74·3
	25	70·0	69·6	69·0	71·0	70·6	71·5	71·7	70·3	70·2	70·4	70·7	71·0
	26	65·3	65·2	65·8	66·4	66·7	67·0	67·5	67·6	67·9	68·0	67·8	69·0
	27	64·8	65·4	66·0	66·6	67·3	68·0	68·4	69·0	68·8	69·6	70·0	70·5
	28	67·0	66·4	66·6	66·1	66·1	66·0	66·1	66·5	66·5	66·5	66·5	66·6
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	64·1	64·4	64·6	65·0	65·2	65·6	65·6	65·8	65·9	65·7	65·8	65·6
	Hourly Means	65·40	65·42	65·68	65·98	66·29	66·70	66·79	67·27	67·65	67·96	68·18	68·55

NOTE.—Instrument readjusted on the 2nd and again on the 10th.

<sup>a</sup> Not included in the means.

<sup>b</sup> Three minutes late.

VERTICAL FORCE.												
One Scale Division = '000063 parts of the V. F.						Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.						
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 122·2	Sc. Div. 121·2	Sc. Div. 120·7	Sc. Div. 119·8	Sc. Div. 118·9	Sc. Div. 118·8	Sc. Div. 118·8	Sc. Div. 118·5	Sc. Div. 118·5	Sc. Div. 118·5	Sc. Div. 118·5	Sc. Div. 118·2	Sc. Div. —
116·0	115·4	115·1	115·1	114·8	114·6	113·9	113·9	113·7	114·1	114·5	113·7	115·48
113·9	113·5	112·8	112·4	111·2	111·2	110·5	111·5	111·4	110·8	110·8	110·6	112·23
109·8	109·8	109·4	109·8	108·9	109·5	110·0	110·0	110·0	110·2	110·7	110·7	109·90
111·1	111·1	110·8	111·0	111·0	111·0	111·1	111·4	111·4	111·5	111·5	111·9	110·66
104·5	104·5	104·5	104·9	105·2	105·2	—	—	—	—	—	—	—
—	—	—	—	—	—	99·3	99·3	98·7	99·2	99·2	99·6	105·25
93·9	93·4	93·4	93·3	93·6	93·6	94·0	93·8	93·2	93·2	93·2	93·2	94·99
78·4	76·1	77·1	76·5	77·8	77·8	77·8	75·4	71·4	71·4	71·7	89·5	81·24
82·5	81·2	79·9	82·0	82·0	83·7	83·7	84·0	84·0	84·0	84·0	85·0	83·10
82·2	81·2	80·7	81·3	81·0	81·0	81·9	82·4	82·4	83·4	83·4	84·6	83·25
79·0	79·2	80·6	79·7	82·1	80·9	81·1	82·3	83·5	84·0	85·5	85·5	81·28
88·1	86·9	85·6	86·6	88·0	88·8	—	—	—	—	—	—	—
—	—	—	—	—	—	99·7	100·1	100·1	101·2	102·4	100·7	90·00
100·5	100·5	101·2	101·1	101·1	102·4	97·5	101·8	101·8	102·3	103·3	103·3	100·17
98·2	96·3	96·3	96·3	95·8	95·8	96·5	97·8	99·6	100·8	101·5	101·6	98·71
90·7	91·3	90·2	87·9	88·9	88·7	87·9	90·0	90·3	91·0	93·0	93·7	92·08
84·3	84·3	84·9	83·8	86·1	87·3	87·3	85·8	87·3	91·3	92·9	95·1	88·47
84·6	84·6	83·7	84·2	85·5	85·8	85·8	86·4	86·4	87·8	85·9	88·8	87·45
80·9	80·9	80·9	80·9	82·2	82·1	—	—	—	—	—	—	—
—	—	—	—	—	—	89·6	89·6	90·6	90·8	91·5	90·4	83·93
79·7	79·6	75·9	76·3	76·8	76·8	78·0	76·8	78·4	78·7	76·1	79·4	80·30
73·8	73·5	73·9	73·4	73·2	73·4	73·4	73·9	74·6	75·6	77·6	77·2	74·70
78·3	78·3	77·4 <sup>b</sup>	77·4	78·8	79·5	79·5	82·2	82·7	83·7	85·4	88·1	78·26
78·1	78·1	78·1	78·2	78·7	80·3	81·3	80·8	80·7	81·1	85·7	87·6	81·70
75·9	76·2	76·0	75·7	75·3	77·5	77·8	78·9	79·2	79·8	81·1	75·1	79·02
85·9	85·7	86·1 <sup>d</sup>	86·1	86·1	86·3	—	—	—	—	—	—	—
—	—	—	—	—	—	87·1	83·5	82·7	76·3	84·4	88·1	82·83
95·5	95·3	92·2	90·6	71·6	85·8	87·1	81·0	88·4	88·1	89·4	93·6	86·95
90·24	89·87	89·45	89·35	88·99	89·96	90·49	90·53	90·94	91·26	92·28	92·79	90·77

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
67·0	68·0	67·5	66·8	66·4	66·1	65·8	65·4	65·4	65·0	64·5	64·2	—
68·5	68·5	69·0	68·5	68·5	68·1	67·6	67·4	67·4	67·2	66·8	66·0	66·88
70·7	70·7	70·5	70·7	70·5	70·6	70·6	68·8	68·0	68·0	67·6	67·6	69·01
68·0	67·7	67·8	66·8	66·2	65·8	65·6	65·3	64·8	64·6	64·0	63·4	66·62
62·6	62·4	62·0	62·4	62·2	62·0	61·6	60·8	60·8	60·4	60·1	59·5	62·34
62·4	62·0	62·0	61·6	61·6	61·6	—	—	—	—	—	—	—
—	—	—	—	—	—	68·0	68·0	68·0	67·5	67·5	67·8	62·71
73·5	73·5	73·5	73·0	72·5	72·5	72·0	72·1	71·8	71·6	71·0	69·0	71·37
73·5	73·5	73·5	73·1	72·5	72·1	72·0	72·0	71·6	71·0	70·4	69·3	71·83
72·0	71·5	72·0	71·0	70·6	70·2	69·8	69·0	69·0	68·7	68·5	68·0	69·76
70·8	71·4	71·4	71·2	70·8	70·6	70·3	70·0	70·0	69·6	69·1	69·7	69·22
72·0	72·0	71·5	70·6	70·6	70·1	70·0	69·6	69·0	69·0	68·4	68·2	70·20
68·8	68·8	68·6	68·2	66·8	66·4	—	—	—	—	—	—	—
—	—	—	—	—	—	60·6	60·6	60·6	60·4	60·0	60·0	65·88
61·0	60·7	60·7	60·6	60·4	60·3	60·4	60·0	59·7	59·4	59·0	58·6	60·55
62·6	63·0	62·8	62·8	62·6	62·4	62·0	61·7	61·0	60·5	59·8	59·8	61·03
65·2	64·8	65·6	66·4	66·3	65·6	65·6	64·9	64·6	64·1	63·6	62·7	63·83
68·8	68·8	68·4	67·8	67·4	67·0	66·6	65·9	65·5	64·7	64·0	64·4	65·90
68·1	67·8	68·1	68·0	68·0	67·6	67·4	67·5	67·5	67·4	67·5	66·7	66·90
70·5	70·2	70·3	70·1	70·0	69·8	—	—	—	—	—	—	—
—	—	—	—	—	—	65·6	65·5	65·4	65·2	64·6	65·6	68·07
71·5	71·7	71·9	71·5	71·5	71·5	71·2	71·5	70·7	70·3	71·0	69·5	69·57
74·5	74·5	74·0	74·0	73·6	73·3	73·0	72·2	71·7	71·1	70·8	70·3	72·33
71·4	71·0	71·0	70·5	70·0	69·7	68·7	68·5	67·3	66·5	66·0	65·4	69·67
69·4	69·6	69·6	69·5	69·0	68·5	67·8	68·4	68·5	68·4	68·0	65·5	67·77
70·7	71·0	71·0	71·5	71·5	70·6	70·1	69·2	68·6	68·2	68·0	67·6	68·85
66·7	66·5	66·6	66·5	66·4	66·0	—	—	—	—	—	—	—
—	—	—	—	—	—	66·0	65·8	65·6	65·4	65·0	94·1	66·15
65·7	65·5	65·4	65·4	65·4	65·2	65·0	64·0	64·0	63·5	63·1	62·4	64·91
68·70	68·53	68·63	68·40	68·12	67·81	67·40	67·03	66·71	66·36	65·99	65·46	67·13

<sup>b</sup> Six minutes late.

<sup>d</sup> Four minutes late.



VERTICAL FORCE.														
One Scale Division = '000063 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.														
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .		
JULY.	1	94.3	94.2	92.8	91.8	88.7	89.6	90.1	89.3	90.8	92.2	93.5	93.2	
	2	85.8	84.5	84.5	84.5	86.4	88.8	86.7	84.2	84.2	84.5	86.3	86.3	
	3	94.3	93.3	91.8	91.8	91.2	88.6	86.9	86.9	88.4	88.4	88.4	89.2	
	4	89.8	89.8	89.6	88.7	87.3	85.8	85.8	85.8	86.3	87.8	90.9	90.9	
	5	87.8	89.2	88.0	89.1	86.5	81.9	81.9	81.3	82.2	82.7	82.7	81.3	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	79.2	77.6	75.4	72.2	72.2	71.5	70.8	69.9	70.5	72.2	72.2	70.4	
	8	71.3	71.3	70.8	70.3	69.5	69.4	66.2	66.2	66.2	66.2	68.3	67.8	65.1
	9	72.0	72.0	71.0	69.5	66.1	65.8	68.4	69.1	69.9	69.9	70.3	70.3	
	10	78.8	76.7	76.0	76.0	73.6	70.4	69.1	68.5	68.5	69.8	69.1	69.1	
	11	77.0	75.8	73.0	70.6	67.6	67.6	67.2	66.6	67.1	65.4	65.4	62.6	
	12	68.1	66.3	65.1	63.9	62.0	59.3	60.0	58.8	56.8	56.2	53.8	51.5	
	13	—	—	—	—	—	—	—	—	—	—	—	—	
	14	51.3	50.9	52.0	50.5	48.5	46.9	47.8	47.8	45.9	44.6	45.3	45.0	
	15	45.6	46.0	51.2	56.7	53.9	50.6	50.3	50.3	48.3	48.3	48.3	49.5	
	16	59.3	58.5	56.9	54.8	52.0	50.4	49.6	47.2	47.8	47.8	48.2	48.1	
	17	53.8	54.7	54.1	54.9	53.4	51.9	51.9	52.7	52.7	53.0	51.9	51.5	
	18	62.4	64.1	64.1	62.3	60.9	60.6	60.6	60.8	62.1	58.8	58.9	58.7	
	19	69.8	70.8	69.4	69.9	69.9	66.8	65.9	66.4	64.4	66.5	65.8	65.8	
	20	—	—	—	—	—	—	—	—	—	—	—	—	
	21	64.8	62.5	59.4	59.1	57.3	54.2	53.3	50.9	51.9	52.4	52.8	51.9	
	22	62.7	61.9	60.9	60.3	58.5	58.0	57.9	57.9	59.8	60.3	60.7	60.7	
	23	65.3	64.7	64.9	64.9	63.7	62.1	62.1	62.1	63.8	67.9	70.0	71.8	
	24	67.6	70.1	74.1	74.7	73.8	75.1	74.4	77.7	80.2	80.1	84.3	81.4	
	25	54.9	68.8	73.0	73.0	75.3	73.8	74.5	76.1	73.8	77.0	80.2	78.7	
	26	79.4	78.9	75.3	73.2	73.1	71.0	72.9	69.1	67.9	66.6	67.8	67.4	
	27	—	—	—	—	—	—	—	—	—	—	—	—	
	28	75.3	74.6	73.5	71.5	70.3	68.0	65.6	68.3	68.6	69.6	69.6	69.2	
	29	75.5	75.5	75.9	73.2	74.3	73.9	74.3	73.8	74.2	74.2	75.1	77.2	
	30	76.7	75.9	74.9	75.5	76.3	76.3	75.3	76.4	80.0	80.9	81.8	79.4	
	31	86.1	85.5	84.3	82.3	75.9	78.3	80.0	81.3	81.9	82.4	82.8	81.7	
Hourly Means	72.18	72.37	71.92	71.30	69.93	68.76	68.50	68.35	68.67	69.18	69.77	69.18		
TEMPERATURE OF THE VERTICAL FORCE MAGNET.														
JULY.	1	61.8	61.6	62.4	62.8	63.2	63.8	64.2	64.2	65.0	64.6	63.8	63.6	
	2	62.6	64.0	64.4	63.8	63.8	64.0	64.4	65.0	65.3	65.6	65.6	65.1	
	3	61.6	61.8	61.8	62.3	62.6	63.4	63.8	63.6	63.8	64.1	64.6	64.7	
	4	63.1	63.0	62.8	62.4	62.6	63.0	63.4	63.6	63.8	64.4	64.6	65.0	
	5	63.2	63.7	63.5	63.6	64.5	65.4	65.6	66.4	66.6	66.9	67.6	68.4	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	69.0	69.0	70.0	71.5	72.0	73.3	74.0	74.0	74.5	74.8	75.4	76.5	
	8	72.5	72.5	73.4	73.2	73.5	73.8	74.3	75.0	75.6	76.4	77.0	76.7	
	9	72.4	72.0	72.0	72.6	73.0	73.2	73.2	72.7	72.8	73.0	73.1	73.5	
	10	68.4	68.6	68.6	69.0	70.0	71.0	71.5	72.0	72.5	73.0	73.4	74.0	
	11	69.0	69.3	69.6	70.5	71.5	72.3	73.0	74.0	74.6	76.5	76.5	77.3	
	12	73.5	73.5	74.0	75.1	75.7	77.2	78.1	78.5	78.7	79.6	80.3	82.0	
	13	—	—	—	—	—	—	—	—	—	—	—	—	
	14	80.8	80.7	80.5	80.1	80.5	81.3	81.5	82.2	83.0	83.2	84.0	83.6	
	15	78.4	78.3	78.4	79.0	79.1	80.0	80.0	80.3	80.5	81.0	81.3	81.6	
	16	76.0	76.4	77.3	78.0	78.3	79.0	79.8	81.0	81.5	82.0	82.4	82.0	
	17	79.2	78.7	78.4	78.5	79.0	79.4	79.4	80.3	80.7	81.0	81.3	81.1	
	18	74.7	74.5	74.4	74.7	74.8	74.9	75.0	75.4	75.6	76.0	76.4	76.5	
	19	71.2	70.8	71.0	71.4	71.3	71.5	72.0	72.8	73.2	73.5	74.0	73.9	
	20	—	—	—	—	—	—	—	—	—	—	—	—	
	21	74.6	75.0	75.6	76.0	77.0	77.5	78.0	78.4	79.3	79.5	79.9	81.5	
	22	75.2	75.5	75.5	75.5	75.7	75.7	76.0	76.0	76.2	76.4	76.4	76.0	
	23	72.3	71.7	71.8	71.6	71.5	71.9	71.9	71.7	72.1	71.8	71.3	71.5	
	24	71.0	68.8	68.5	68.2	68.3	68.1	68.1	68.6	68.7	69.3	69.5	70.0	
	25	67.4	67.5	67.5	68.5	69.4	69.8	69.8	70.5	70.8	71.3	71.5	71.5	
	26	67.8	67.8	68.7	69.3	70.2	71.0	71.5	71.5	72.0	72.5	73.0	73.5	
	27	—	—	—	—	—	—	—	—	—	—	—	—	
	28	69.5	69.5	69.7	70.5	70.3	70.5	70.5	71.0	71.0	71.0	71.5	72.0	
	29	67.5	67.5	67.5	67.3	67.3	67.3	67.3	67.3	67.7	67.9	68.6	68.4	
	30	67.8	67.5	67.5	66.8	66.6	66.4	66.4	66.8	66.8	66.8	67.0	67.0	
	31	62.8	63.0	63.4	63.8	65.5	64.7	64.6	64.8	64.9	65.2	65.4	65.5	
Hourly Means	70.12	70.03	70.30	70.59	71.01	71.46	71.75	72.13	72.49	72.86	73.16	73.42		

VERTICAL FORCE.												
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 94·6	Sc. Div. 94·6 <sup>a</sup>	Sc. Div. 93·2	Sc. Div. 92·1	Sc. Div. 93·3	Sc. Div. 92·8	Sc. Div. 92·0	Sc. Div. 90·5	Sc. Div. 87·3	Sc. Div. 90·0	Sc. Div. 91·7	Sc. Div. 87·7	Sc. Div. 91·68
88·2	88·2	88·2	88·2	88·7	88·7	87·7	85·2	88·2	89·3	88·9	93·7	87·08
89·2	89·9	89·0	88·9	87·7	87·8	89·2	90·4	91·9	91·0	93·2	91·8	89·97
89·8	87·8	85·6	86·0	87·5	85·8	85·7	87·1	88·3	90·5	90·3	92·8	88·15
81·3	80·4	80·4	83·7	81·7	80·9	—	—	—	—	—	—	—
—	—	—	—	—	—	77·6	78·3	78·3	78·6	74·9	78·4	82·05
68·8	68·2	67·6	66·1	63·1	66·2	66·2	67·2	67·6	68·6	69·9	72·8	70·27
65·1	63·0	63·0	64·0	64·9	47·0	53·4	63·1	63·1	63·9	68·9	73·7	65·65
70·6	70·3	70·6	70·6	68·9	70·4	72·0	72·0	74·2	74·2	77·5	78·4	71·00
69·1	69·1	69·1	70·1	70·2	70·2	69·6	71·1	71·9	74·4	74·4	77·0	71·74
63·0	62·0	61·9	61·9	62·5	62·2	61·9	61·0	61·9	63·3	65·4	67·1	65·83
49·8	47·4	47·8	47·6	47·6	47·6	—	—	—	—	—	—	—
—	—	—	—	—	—	48·0	48·0	49·3	50·4	49·2	50·2	54·36
44·6	44·6	41·9	43·9	45·5	47·1	48·7	48·2	48·5	46·5	45·7	45·6	46·97
49·5	49·5	48·1	47·6	44·2	45·6	46·2	51·5	52·2	52·7	56·7	59·3	50·09
46·6	45·4	46·5	46·5	46·8	47·4	49·4	43·6	47·5	51·3	51·2	53·1	49·83
50·3	49·8	49·8	48·7	54·0	55·1	56·8	56·8	56·1	58·6	58·5	61·7	53·86
59·9	59·9	60·0	60·9	61·8	63·0	63·0	63·9	61·8	58·7	64·5	68·4	61·67
66·2	65·7	64·6	65·5	64·7	61·8	—	—	—	—	—	—	—
—	—	—	—	—	—	60·5	60·4	60·8	60·8	62·3	64·8	65·40
51·9	52·5	52·8	53·1	53·1	54·1	55·1	55·7	56·0	57·3	57·3	62·6	55·50
60·7	60·7	61·2	61·2	62·0	62·0	62·0	55·2	60·5	63·8	62·4	64·3	60·65
71·5	71·7	62·8	61·6	63·6	65·6	50·7	62·6	62·4	62·7	66·3	68·0	64·70
78·6	78·4	77·5	70·5	69·3	61·9	51·9	45·1	38·5	42·8	49·7	50·2	67·83
73·1	71·1	70·0	70·5	70·5	69·6	69·6	69·1	66·7	65·6	70·4	72·1	71·56
67·4	66·4	65·8	65·8	66·0	66·0	—	—	—	—	—	—	—
—	—	—	—	—	—	65·4	69·6	69·8	71·2	75·1	74·8	70·25
69·3	69·3	68·0	68·3	69·2	69·9	71·0	39·8	70·6	72·5	72·5	73·9	70·35
76·4	74·9	75·1	74·9	74·6	74·1	74·1	74·6	73·9	74·1	75·1	76·4	74·82
78·5	78·5	76·8	79·4	82·0	81·5	79·8	75·5	79·4	77·6	80·9	85·1	78·52
79·8	79·8	77·3	78·8	78·1	78·7	78·0	77·6	77·8	80·0	77·6	80·9	80·29
68·66	68·12	67·21	67·27	67·46	66·78	66·13	66·41	66·83	67·81	69·28	71·29	68·89
TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
63·2	63·0	63·0	63·0	62·9	62·9	63·0	63·0	63·0	62·6	62·6	62·6	63·16
65·0	65·0	65·2	64·7	64·7	64·6	64·4	64·3	64·0	64·0	63·3	62·2	64·37
65·0	65·2	65·2	65·2	65·3	64·4	65·0	63·8	63·4	63·0	62·6	62·3	63·69
65·8	66·0	66·6	66·0	65·6	65·2	64·8	64·6	64·1	64·0	63·6	62·4	64·18
68·6	68·6	68·6	68·4	68·6	68·0	—	—	—	—	—	—	—
—	—	—	—	—	—	70·7	70·4	70·1	70·0	69·9	69·4	67·36
77·0	77·0	76·6	77·0	76·1	75·7	75·3	74·7	74·4	73·4	73·0	72·4	74·02
77·0	76·7	76·7	76·5	75·7	75·4	74·7	74·5	74·2	73·8	73·0	72·4	74·77
74·0	74·0	74·2	73·7	73·3	73·1	71·8	71·2	70·6	70·2	69·5	68·6	72·40
74·3	74·2	73·8	73·4	72·7	72·3	71·7	71·7	71·5	70·8	70·5	69·4	71·60
77·5	77·5	77·5	77·1	77·1	76·4	76·0	75·7	75·0	75·0	74·5	73·7	74·46
83·0	83·4	83·0	82·5	82·5	82·2	—	—	—	—	—	—	—
—	—	—	—	—	—	82·5	82·0	82·0	81·7	81·4	81·0	79·72
83·8	83·5	83·5	83·5	82·8	82·0	81·2	81·3	81·4	80·8	79·7	79·1	81·83
82·0	82·0	82·0	81·8	80·6	80·4	80·5	79·0	78·6	78·2	77·4	76·2	79·86
82·8	82·4	83·0	82·5	82·2	82·0	81·4	80·8	80·8	80·6	80·2	79·0	80·47
81·2	81·0	81·0	80·0	79·0	78·0	77·0	76·7	76·2	76·3	76·3	75·5	78·97
76·7	76·7	76·7	76·0	75·1	74·5	74·0	73·8	73·3	72·5	72·0	71·5	74·82
73·7	73·5	73·5	73·5	73·3	73·3	—	—	—	—	—	—	—
—	—	—	—	—	—	74·9	75·4	75·0	75·2	75·0	74·6	73·23
80·5	80·2	79·7	79·5	79·2	79·0	78·5	77·5	76·9	76·5	76·0	75·0	77·95
75·7	75·4	74·7	74·8	74·7	74·3	74·0	74·2	74·0	73·3	73·0	71·5	74·99
71·5	70·5	72·9	73·5	72·5	71·5	71·5	71·5	72·5	72·5	71·6	71·1	71·84
70·5	70·5	70·5	70·5	70·5	70·1	69·9	70·5	69·2	69·0	68·5	68·0	69·37
71·5	71·5	71·5	71·7	71·5	71·5	70·8	70·0	70·0	70·0	69·7	68·6	70·16
73·5	73·5	73·0	73·0	73·0	72·8	—	—	—	—	—	—	—
—	—	—	—	—	—	70·8	70·6	70·4	70·0	69·6	69·3	71·18
72·0	72·0	71·6	71·6	71·0	70·4	70·2	70·2	69·5	69·3	69·0	68·6	70·52
68·4	68·4	68·5	68·7	68·7	68·8	68·7	68·4	68·3	68·2	68·2	67·5	68·02
66·6	66·3	66·3	65·5	65·5	65·0	64·9	64·8	64·4	64·2	63·8	63·2	66·00
66·0	66·0	66·5	66·5	66·5	66·2	66·0	65·8	65·6	65·4	65·4	65·0	65·19
73·59	73·48	73·53	73·34	72·99	72·59	72·38	72·09	71·79	71·50	71·09	70·37	72·00

VERTICAL FORCE.													
One Scale Division = .000063 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fah: = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
AUGUST.	1	177.9	180.4	180.4	185.0	185.9	184.2	188.8	189.2	184.9	185.4	185.4	179.4
	2	172.5	177.7	177.7	180.3	178.0	180.2	181.0	181.0	182.2	182.5 <sup>a</sup>	178.9	178.9
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	203.0	193.2	190.4	188.9	189.3	190.8	192.2	191.7	190.6	192.2	193.0	193.0
	5	189.5	191.0	190.1	192.1	193.8	193.3	193.4	193.4	193.4	196.0	196.7	196.7
	6	189.7	190.2	191.0	192.0	195.0	197.9	199.4	201.4	199.9	199.2	198.7	200.1
	7	191.2	192.7	195.1	195.1	198.3	196.9	200.7	200.7	201.3	201.3	202.0	204.1
	8	199.7	197.6	194.9	195.8	197.2	199.2	199.2	200.5	199.0 <sup>a</sup>	199.0	197.7	199.9
	9	197.5	197.8	199.2	199.3	200.7	201.7	202.7	203.3	203.3	203.6	203.6	202.9
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	197.2	197.0	196.5	196.5	197.7	198.2	198.0	199.6	200.6	200.6	199.7	199.3
	12	191.3	191.3	191.5	193.1	194.6	196.2	198.5	196.5	196.5	196.7	198.1	198.1
	13	186.3	186.1	188.8	187.4	189.0	190.6	191.1	190.2	190.8	189.7	189.7	190.0
	14	185.3	186.9	188.9	192.1	191.8	193.4	192.9	192.0	192.9	191.6	193.8	193.8
	15	188.0	188.8	190.6	192.2	194.1	195.8	195.0	193.9	192.7	192.7	192.7	194.5
	16	188.9	190.3	192.7	195.1	195.4	197.1	197.1	197.1	198.1	199.0	198.5	198.3
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	197.2	197.7	200.0	202.4	202.6	202.0	202.3	201.0	201.0	201.5	201.9	203.5
	19	199.9	199.9	200.0	200.5	199.0	200.3	200.5	200.5	200.0	200.0	199.7	199.8
	20	193.9	195.9	197.0	199.0	200.6	201.6	202.7	203.6	202.8	202.8	204.2	204.3
	21	198.3	199.9	202.8	205.1	205.1	205.5	206.4	206.4	206.3	207.5	207.8	207.8
	22	200.3	200.3	202.3	203.6	204.7	206.4	205.3	205.3	205.3	205.3	205.3	207.3
	23	200.0	200.8	204.2	204.2	206.8	206.8	206.8	208.1	207.1	206.5	206.5	206.5
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	193.9	196.5	200.1	200.1	203.7	204.8	204.0	202.8	202.8	203.2	203.2	203.1
	26	198.8	200.3	203.0	207.0	204.7	202.8	202.0	202.0	201.7	201.7	202.2	202.2
	27	197.0	197.0	196.4	196.5	196.5	195.5	195.1	195.1	194.1	193.7	194.3	194.3
	28	191.0	189.2	191.1	191.8	194.0	194.1	194.1	192.2	191.1	194.2	192.4	192.4
	29	192.8	193.8	196.7	198.1	197.2	199.9	198.4	194.8	190.2	183.5	157.0	184.5
	30	206.8	201.4	200.5	201.1	199.7	198.9	199.2	197.6	196.2	196.2	195.9	199.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	193.38	193.60	194.69	195.93	196.75	197.46	197.95	197.69	197.11	197.14	196.11	197.56	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
AUGUST.	1	64.4	64.6	65.0	65.6	66.6	67.2	67.6	67.5	67.7	68.2	68.3	68.4
	2	64.6	65.6	66.2	66.5	66.5	66.7	67.0	67.5	67.5	67.8	68.4	68.2
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	66.7	66.7	66.7	68.4	69.0	69.6	70.0	71.7	72.0	73.0	73.0	73.9
	5	69.5	69.5	70.5	70.8	71.0	72.1	72.8	73.3	73.8	74.5	75.0	76.5
	6	71.3	71.3	71.5	72.3	73.3	74.2	75.0	75.3	76.7	76.7	76.3	76.5
	7	71.4	71.7	72.5	73.0	74.6	75.0	76.0	75.7	76.5	76.3	78.0	78.2
	8	74.2	74.0	74.0	74.5	73.4	73.5	74.0	74.5	75.0	75.4	75.5	75.3
	9	73.4	73.5	74.3	74.5	75.3	76.0	76.5	76.7	77.2	78.0	78.3	78.5
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	74.7	74.7	74.4	73.4	73.6	73.8	74.1	74.6	74.7	74.7	74.7	75.3
	12	70.7	70.7	70.7	71.3	71.9	72.5	73.1	73.2	74.0	74.2	74.8	74.6
	13	68.8	68.4	68.4	68.5	68.5	68.8	69.0	69.0	69.3	69.4	69.4	70.5
	14	68.6	69.2	69.5	70.0	70.0	70.4	70.5	70.7	71.0	71.3	71.5	72.0
	15	67.3	67.5	68.0	68.4	69.5	70.5	71.0	71.0	71.5	71.8	72.0	72.1
	16	68.6	69.0	69.6	70.0	71.3	72.2	72.6	73.4	73.7	74.3	74.5	75.0
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	73.2	73.0	73.0	73.7	73.9	74.3	74.5	75.0	75.4	76.0	76.3	76.5
	19	73.2	72.8	72.7	73.0	73.2	73.4	73.5	73.5	73.7	73.9	74.3	74.5
	20	71.7	72.0	72.0	72.7	73.3	73.9	74.5	75.3	75.6	76.5	76.6	77.1
	21	73.5	73.7	74.8	75.7	76.0	76.4	76.7	77.0	77.5	78.0	78.3	78.4
	22	73.7	73.7	74.0	74.7	74.8	75.5	76.0	76.5	76.7	77.1	77.7	78.0
	23	73.0	73.0	73.5	74.3	75.2	75.9	76.5	77.0	77.5	77.7	79.0	78.3
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	72.3	71.0	71.7	72.5	73.5	74.0	74.3	74.3	74.5	74.7	75.0	75.5
	26	73.0	73.0	73.5	74.3	74.6	75.5	75.5	75.5	75.7	76.0	76.0	76.2
	27	72.1	72.0	71.5	71.3	70.7	70.6	70.6	70.7	71.0	70.7	70.6	70.5
	28	67.5	67.6	68.4	68.7	69.5	69.7	70.1	70.1	70.1	70.4	70.5	70.5
	29	68.0	68.0	68.6	68.8	69.7	70.4	70.8	71.3	71.5	72.5	72.5	73.1
	30	73.7	73.2	72.7	72.6	73.0	73.3	73.5	73.9	74.3	75.0	75.5	75.0
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	70.73	70.75	71.07	71.52	72.00	72.52	72.91	73.24	73.62	74.00	74.31	74.58	

<sup>a</sup> Two minutes late.

VERTICAL FORCE.												
One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 177.9	Sc. Div. 177.9	Sc. Div. 179.3	Sc. Div. 179.9	Sc. Div. 184.2	Sc. Div. 191.2	Sc. Div. 193.7	Sc. Div. 193.2	Sc. Div. 193.2	Sc. Div. 192.8	Sc. Div. 189.8	Sc. Div. 177.6	Sc. Div. 184.90
178.7	179.8	184.9	182.4	186.0	194.9	—	—	—	—	—	—	185.70
—	—	—	—	—	—	185.0	188.0	203.9	205.5	207.3	209.4	189.5
191.8	194.8	194.8	195.4	199.3	203.2	208.1	199.3	194.4	192.6	192.6	189.5	194.34
197.5	197.9	200.7	200.7	199.1	199.1	200.0	200.5	197.8	195.5	194.0	191.0	195.55
199.4	201.6	201.6	201.3	200.7	200.0	200.0	203.3	211.2	206.5	199.4	195.0	198.94
202.8	202.0	202.0	203.6	202.4	201.5	202.6	205.0	204.6	219.7	205.8	201.6	201.38
199.9	199.7	199.2	200.5	206.9	200.2	200.2	199.7	201.3	205.1	198.8	199.8	199.63
200.2	201.7	202.4	204.7	206.3	205.9	—	—	—	—	—	—	201.28
—	—	—	—	—	—	202.0	201.3	195.9	195.9	199.6	199.2	199.2
200.1	199.5 <sup>b</sup>	197.1	198.3	197.0	197.0	197.0	195.1	194.6	194.5	192.9	192.9	197.37
199.0	199.0	198.2	197.0	196.7	195.9	195.4	195.4	193.8	192.4	192.4	190.7	195.35
190.6	191.4	191.4	192.4	191.8	191.8	191.5	191.3	189.9	189.9	189.9	187.2	189.95
193.8	193.7	193.8	195.3	191.7	193.4	191.7	191.4	191.4	191.7	189.5	189.5	191.76
195.7	195.7	195.7	194.8	194.8	193.7	192.4	192.5	192.3	191.6	190.4	188.6	192.88
199.7	201.4	201.7	200.1	200.1	200.5	—	—	—	—	—	—	199.10
—	—	—	—	—	—	216.2	208.8	204.8	201.1	199.1	197.2	199.10
204.0	205.0	205.0	203.6	203.2	202.5	202.2	202.2	201.2	203.1	206.2	203.7	202.29
199.8	199.5	198.9	201.4	200.5	200.5	199.7	202.5	199.1	197.0	196.3	195.2	199.60
204.8	204.8	204.8	204.8	203.4	203.4	203.4	203.4	201.6	201.1	201.1	199.6	201.76
208.9	209.5	209.5	210.6	208.4	208.4	206.4	206.4	204.9	204.2	204.4	201.7	205.93
208.1	207.0	205.0	204.7	207.3	211.4	211.2	210.5	208.2	206.7	201.6	200.0	205.55
205.6	207.6	205.7	206.2	206.2	205.8	—	—	—	—	—	—	204.73
—	—	—	—	—	—	205.3	204.5	202.8	201.8	196.0	201.8	201.8
203.9	205.4	205.4	205.4	205.2	207.4	206.8	204.1	202.8	202.8	202.8	200.4	202.94
202.0	203.2	203.8	204.4	202.8	202.8	202.8	201.4	202.6	200.6	200.0	198.2	202.21
194.5	195.3	195.2	195.7	195.3	195.3	195.3	193.7	193.3	192.1	191.7	190.8	194.74
194.2	194.2	193.0	193.8	191.7	193.0	193.6	193.9	195.1	208.1	198.7	198.7	193.98
187.5	193.8	194.2	207.6	206.6	216.4	224.1	224.0	249.5	249.8	235.0	209.3	203.53
197.0	198.4	199.1	199.1	215.3	215.3	—	—	—	—	—	—	199.73
—	—	—	—	—	—	199.7	196.1	196.1	196.1	192.6	196.2	199.73
197.59	198.45	198.55	199.37	200.11	201.17	201.01	200.22	200.99	201.47	198.77	196.34	197.89

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
68.0	67.8	68.2	67.8	68.0	67.8	67.6	67.0	65.6	64.8	65.6	64.6	66.83
68.4	68.4	68.6	68.6	68.4	68.0	—	—	—	—	—	—	67.54
—	—	—	—	—	—	68.8	68.5	68.1	68.0	67.6	67.0	71.22
73.5	73.5	73.7	74.0	73.5	73.0	73.0	72.0	71.4	71.0	70.6	69.5	73.36
76.5	76.5	76.5	75.3	75.0	74.5	74.0	73.7	73.3	72.5	72.0	71.6	74.60
76.7	76.5	76.5	76.3	76.0	75.4	75.0	74.3	74.0	73.6	73.2	72.5	75.68
78.0	77.6	77.5	77.2	77.0	76.7	76.8	76.2	75.5	75.3	75.0	74.5	74.68
75.5	75.3	75.3	75.7	75.3	75.0	74.7	75.0	74.8	74.6	74.2	73.6	76.25
78.5	78.7	78.3	78.6	78.4	78.0	—	—	—	—	—	—	73.68
—	—	—	—	—	—	75.0	74.8	74.5	74.3	74.3	74.5	72.54
75.6	75.0	74.3	73.5	73.5	73.0	72.7	72.6	72.0	71.5	71.2	70.8	69.53
74.5	74.0	73.9	73.5	73.2	72.6	72.0	71.8	71.7	71.4	70.7	70.0	70.06
70.5	70.5	70.5	70.7	70.5	70.5	70.3	70.0	69.7	69.5	69.0	69.0	70.73
71.8	71.5	71.7	71.5	70.5	69.5	68.8	68.6	68.6	68.5	68.2	67.6	73.17
73.0	72.7	72.5	72.5	72.2	71.6	71.5	71.0	70.5	70.0	69.6	69.2	75.18
75.5	75.5	74.7	74.5	74.5	73.8	—	—	—	—	—	—	73.46
—	—	—	—	—	—	74.4	74.4	74.0	73.7	73.5	73.5	75.04
76.7	77.0	76.7	76.5	76.3	76.0	75.5	75.5	75.0	75.0	75.0	74.4	76.65
74.5	74.3	73.9	74.0	73.8	74.0	73.7	73.4	72.7	72.5	72.4	72.2	75.87
77.3	77.0	77.2	76.7	76.3	76.0	75.5	75.5	75.0	75.0	74.6	73.7	76.03
78.5	78.5	79.0	78.5	78.0	77.5	77.0	76.0	75.6	75.5	75.0	74.4	74.42
78.0	78.0	77.8	77.0	76.8	76.5	76.2	75.5	75.0	74.6	74.0	73.0	74.75
78.2	78.3	78.0	78.0	77.5	77.0	—	—	—	—	—	—	70.48
—	—	—	—	—	—	75.7	75.2	74.8	74.0	73.8	73.3	69.46
75.6	76.0	76.0	75.8	75.8	76.0	75.8	75.5	75.0	74.1	73.7	73.5	72.47
76.2	76.0	76.0	75.5	75.0	74.5	74.3	74.3	74.0	73.5	73.3	72.7	72.61
70.5	70.5	70.5	71.0	70.8	70.7	70.3	69.9	69.3	69.0	68.6	68.0	72.93
70.5	70.9	70.5	70.3	69.7	69.5	69.2	69.0	68.7	68.6	68.6	68.4	72.61
73.3	74.7	75.4	75.5	75.5	75.3	74.1	74.1	74.1	74.1	74.1	73.8	72.61
74.6	74.4	73.7	73.0	73.0	72.9	—	—	—	—	—	—	72.61
—	—	—	—	—	—	70.4	69.7	69.4	69.0	68.5	68.3	72.61
74.61	74.58	74.50	74.29	74.02	73.67	73.17	72.83	72.40	72.06	71.78	71.29	72.93

<sup>b</sup> Seven minutes late.

VERTICAL FORCE.													
One Scale Division = .000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fa't. = .00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
SEPTEMBER.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
	1	136.8	137.0	138.3	137.1	137.1	137.1	136.5	139.6	141.3	140.9	140.9	141.9
	2	130.8	131.8	130.5	131.3	136.4	135.7	135.4	137.2	140.2	141.0	143.0	139.2
	3	134.7	133.1	131.6	133.0	133.0	132.1	132.1	133.1	133.1	133.1	134.2	133.0
	4	129.2	130.7	132.7	134.2	135.8	134.7	133.3	133.3	133.1	132.6	134.8	133.2
	5	140.4	141.1	139.8	139.6	138.6	139.9	140.2	139.7	140.8	141.1	140.2	140.7
	6	145.8	145.0	144.5	143.4	143.7	144.1	144.6	145.0	145.0	144.7	144.2	144.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	145.6	141.7	142.6	143.9	143.9	143.9	145.2	145.2	147.7	148.4	147.3	148.1
	9	148.8	150.8	151.6	148.3	146.6	146.2	146.6	146.3	146.3	145.8	145.4	145.2
	10	149.9	149.6	152.4	145.6	145.9	144.5	144.6	146.1	147.4	147.1	145.9	145.5
	11	152.9	150.3	149.2	148.8	146.8	147.2	148.7	149.2	151.2	152.9	152.9	150.2
	12	149.6	152.7	152.0	149.8	148.1	150.5	151.0	153.1	154.6	154.2	152.6	151.8
	13	154.2	153.5	153.5	153.1	152.4	152.8	154.3	154.3	159.7	159.7	163.0	156.1
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	152.0	151.0	149.7	148.1	146.5	145.8	146.2	148.7	148.7	148.9	147.0	145.6
	16	154.1	154.7	153.2	151.4	150.3	151.2	151.9	153.8	153.8	155.2	153.9	151.7
	17	158.0	158.0	156.8	154.3	154.0	153.7	154.0	154.0	154.5	152.3	154.6	153.6
	18	152.5	152.4	150.2	149.7	149.3	148.0	145.5	145.7	144.7	142.4	141.2	141.0
	19	149.7	149.7	148.1	145.6	145.1	144.7	145.8	147.0	148.7	148.7	150.4	150.5
	20	149.8	149.8	149.3	147.7	148.6	150.2	149.1	150.0	151.5	151.5	153.0	155.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	165.7	162.4	162.4	161.5	160.5	159.8	160.1	160.1	161.3	160.3	159.3	158.9
	23	159.3	160.2	160.2	160.1	160.1	160.5 <sup>b</sup>	160.5	160.5	161.0	161.0	160.0	160.6
	24	161.2	159.4	160.1	160.1	159.3	159.3	158.4	160.2	162.0	160.0	159.4	157.8
	25	162.0	154.8	140.2	151.2	156.2	156.8	161.0	160.9	161.2	159.6	160.0	160.6
	26	155.8	159.8	159.2	159.9	159.9	160.3	160.4	161.7	161.5	160.4	158.2	158.2
	27	153.7	153.6	156.5	155.9	156.1	157.4	159.2	162.7	164.7	160.2	159.9	159.3
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	154.3	152.4	151.4	149.7	147.3	146.1	147.2	146.5	147.3	145.4	145.7	145.7
30	147.9	147.9	147.9	146.5	145.3	144.7	144.9	144.2	144.6	144.6	144.6	148.6	
Hourly Means	149.80	149.36	148.61	148.07	147.95	147.97	148.33	149.16	150.23	149.69	149.68	149.08	
TEMPERATURE OF THE VERTICAL FORCE MAGNET													
SEPTEMBER.	°	°	°	°	°	°	°	°	°	°	°	°	
	1	67.8	67.6	68.4	68.2	68.2	68.4	68.7	68.9	69.5	69.5	69.5	69.2
	2	68.3	68.4	68.9	69.5	69.5	70.0	70.3	70.8	70.9	71.0	71.0	72.0
	3	68.6	68.8	69.5	69.7	70.3	70.7	71.4	71.6	72.3	72.5	72.8	73.5
	4	70.8	70.0	70.6	69.5	69.7	70.3	70.8	71.5	71.5	72.0	71.5	72.5
	5	67.5	67.3	68.0	68.2	68.6	68.7	69.1	69.5	69.1	69.0	69.3	69.3
	6	65.2	65.6	65.4	65.2	65.4	65.4	65.5	65.5	66.0	66.2	66.2	66.3
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	62.9	62.9	63.4	63.5	64.0	64.0	64.2	64.0	64.0	64.2	64.2	64.3
	9	61.6	61.2	60.8	61.4	62.5	62.8	63.6	64.0	64.6	65.0	65.2	65.4
	10	61.6	61.6	62.0	62.8	63.6	63.8	63.8	64.0	64.0	64.2	64.4	64.4
	11	60.4	61.0	61.0	61.6	62.3	62.4	62.6	62.6	62.7	62.7	63.0	62.8
	12	58.6	59.2	60.0	60.5	60.6	61.1	61.0	61.4	61.6	61.6	62.0	62.4
	13	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.4	59.4	59.4	59.6	59.8
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	61.4	61.6	62.0	62.6	62.9	63.0	63.0	63.6	63.7	64.0	64.6	64.9
	16	59.6	59.7	59.8	60.6	61.0	61.5	61.5	61.2	61.2	61.6	61.8	62.1
	17	58.8	58.4	58.4	58.7	59.2	59.0	59.4	59.5	60.0	60.6	61.5	62.0
	18	62.3	62.1	62.2	62.3	63.0	64.0	64.7	66.0	66.6	67.4	67.7	67.7
	19	61.9	62.3	62.8	63.0	63.5	63.7	64.0	64.0	64.0	64.3	64.3	64.8
	20	62.4	62.0	61.7	61.7	61.6	61.6	61.7	61.7	61.8	61.8	61.8	61.8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	54.3	54.3	54.6	54.8	55.6	56.1	56.3	56.8	57.1	57.3	57.6	57.7
	23	57.0	56.8	56.6	56.3	56.4	56.4 <sup>b</sup>	56.4	56.4	56.4	56.4	56.4	56.4
	24	56.9	56.6	57.0	57.0	57.0	57.2	57.3	57.5	57.5	57.8	57.6	57.5
	25	58.1	57.3	57.7	57.5	57.9	58.6	59.1	59.2	58.6	59.4	60.0	60.0
	26	58.2	58.2	57.8	57.6	57.6	57.4	57.4	57.7	58.0	58.7	59.5	59.6
	27	57.8	57.5	57.8	58.2	58.2	59.0	59.0	59.6	60.4	61.0	61.0	61.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	60.6	60.9	62.5	62.6	63.6	64.4	64.8	65.0	65.6	66.0	66.4	66.6
30	65.2	65.0	65.0	64.8	64.6	64.6	65.6	66.2	65.0	65.2	65.4	65.0	
Hourly Means	61.80	61.74	62.03	62.18	62.53	62.81	63.08	63.37	63.52	63.80	64.01	64.19	

<sup>b</sup> Two minutes late.

**VERTICAL FORCE.**

One Scale Division = '000063 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fah°. = '00007.

12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
141.9	139.0	138.9	138.9	138.9	139.1	139.1	125.3	—	—	—	—	138.28
137.3	137.1	137.1	134.9	135.8	134.2	134.2	131.2	132.1	136.1	136.6	134.7	135.57
131.4	131.4	133.1	131.4	131.7	127.9	120.5	119.9	124.4	131.0	128.1	128.0	130.62
134.1	134.1	134.1	133.5 <sup>b</sup>	135.0	133.9	133.9	133.9	135.3	137.4	138.6	139.6	134.21
140.3	139.5	139.5	137.1	137.5	139.3	137.1	140.3	139.4	141.2	143.6	144.4	140.05
143.4	143.0	142.2	142.2	142.2	142.2	—	—	—	—	—	—	143.30
—	—	—	—	—	—	145.5	144.9	142.7	131.8	138.7	146.3	146.21
147.2	148.5	147.2	147.8	147.8	148.3	148.5	145.5	147.1	144.8	144.1	148.7	146.47
145.9	144.9	144.2	143.3	145.1	144.7	144.7	146.1	146.1	147.3	148.2	146.8	147.09
145.5	145.5	145.5	146.7	147.9	143.0	146.2	147.6	148.1	149.3	148.6	151.7	149.10
150.4	150.2	150.5	150.4	142.7	143.3	143.3	142.8	151.6	154.0	148.6	150.2	151.99
151.8	152.7	152.1	154.1	152.8	153.4	153.4	153.4	148.8	146.8	153.2	155.3	153.18
154.2	153.3	151.4	151.3	151.3	151.3	—	—	—	—	—	—	147.88
—	—	—	—	—	—	148.5	148.8	150.3	147.6	150.7	151.0	152.32
146.1	144.6	144.6	147.6	147.6	146.0	146.0	148.0	148.7	149.1	150.5	152.2	156.4
151.3	148.6	151.1	150.9	151.0	148.7	150.0	151.1	152.7	154.2	154.5	156.4	149.81
157.0	158.9	159.3	152.9	150.2	148.7	149.2	138.5	130.0	121.7	145.5	149.8	142.81
142.2	142.2	137.3	137.3	140.9	128.8	138.6	131.2	130.1	143.1	146.0	147.2	146.78
151.5	147.2	147.3	146.2	146.2	148.0	146.0	144.1	138.3	138.3	145.7	149.8	153.47
153.5	153.2	153.2	153.9	150.4	150.4	—	—	—	—	—	—	160.11
—	—	—	—	—	—	162.9	159.1	160.8	159.7	158.7	161.9	160.69
157.7	157.7	157.7	158.6	159.6	159.6	159.8	160.0	160.7	159.8	160.4	158.7	153.23
161.1	160.2	160.2	160.2	158.6	160.4	159.1	163.6	163.6	162.6	161.8	161.2	155.90
158.2	156.3	157.1	164.1	163.5	151.7	152.6	136.8	104.8	116.3	144.3	154.6	157.36
161.4	161.9	161.9	155.6	146.2	152.2	155.0	142.8	151.3	153.2	156.6	159.0	155.21
156.3	157.0	157.2	157.1	158.1	157.4	158.7	156.6	155.8	152.6	145.9	148.6	146.67
159.3	159.0	158.4	154.2	146.5	151.0	—	—	—	—	—	—	146.60
—	—	—	—	—	—	149.0 <sup>c</sup>	147.3	148.7	149.1	150.8	152.6	147.9
145.4	146.4	146.4	145.2	145.2	146.7	143.8	143.3	140.9	144.9	144.9	147.9	147.2
144.4	148.3	145.8	147.5	147.6	148.2	148.2	147.2	147.2	147.6	147.6	147.6	147.98
148.80	148.49	148.20	147.80	146.93	146.09	146.68	144.20	143.98	144.78	147.69	149.75	147.98

**TEMPERATURE OF THE VERTICAL FORCE MAGNET.**

69.2	69.3	69.5	69.2	69.0	69.0	69.0	69.0	—	—	—	—	68.85
71.8	71.5	71.3	71.0	71.0	70.6	70.3	70.3	70.2	69.5	69.3	68.8	70.25
73.5	73.5	73.3	73.0	72.8	72.4	72.3	71.7	71.5	71.2	70.6	70.4	71.58
72.5	72.5	72.0	72.0 <sup>a</sup>	71.4	71.3	70.6	70.0	69.4	68.7	68.3	68.0	70.73
69.3	69.1	68.6	68.3	68.0	67.6	67.6	67.2	66.8	66.4	66.0	65.8	68.10
66.2	66.0	66.2	66.6	66.5	66.5	—	—	—	—	—	—	65.57
—	—	—	—	—	—	65.4	65.2	65.0	64.6	64.2	63.4	63.48
64.2	64.2	64.0	63.9	63.6	63.6	63.2	62.6	62.4	62.2	62.0	62.0	63.72
65.4	65.6	65.3	65.5	65.0	64.5	64.0	63.9	63.6	63.2	62.8	62.4	63.07
64.4	64.4	63.9	63.8	63.4	63.0	62.6	62.0	62.0	61.4	61.5	61.0	61.68
62.8	62.8	62.6	62.2	62.0	61.6	61.8	61.2	60.0	59.7	59.5	59.0	60.67
62.4	61.8	61.8	61.2	61.0	60.6	60.2	59.4	59.4	59.6	59.6	59.2	60.47
60.0	60.6	60.6	61.6	62.0	62.6	—	—	—	—	—	—	62.99
—	—	—	—	—	—	62.6	62.6	62.3	62.2	62.0	61.6	61.13
64.8	64.6	64.6	63.7	63.5	63.0	62.8	62.5	61.8	61.6	61.5	60.0	61.11
62.4	63.0	62.2	62.4	62.0	61.6	61.2	61.2	61.0	59.6	59.7	59.1	64.96
62.0	62.5	62.5	63.2	63.0	62.8	62.8	62.8	62.5	62.5	62.6	62.0	63.56
67.4	67.0	67.4	67.0	65.6	65.4	65.0	64.6	64.0	63.6	63.3	62.7	60.29
64.4	64.6	64.2	63.9	63.9	63.7	63.6	63.1	63.0	62.9	62.9	62.6	56.71
62.4	62.0	61.8	61.6	61.2	60.7	—	—	—	—	—	—	56.74
—	—	—	—	—	—	56.8	56.8	56.3	56.0	55.4	54.3	58.27
57.7	57.6	57.5	57.8	57.4	57.3	57.3	57.2	57.2	57.2	57.2	57.2	58.92
56.8	57.2	57.2	57.2	57.2	57.2	57.2	56.8	56.6	56.6	56.8	57.1	58.80
57.1	58.3	59.2	59.2	59.4	60.8	60.9	60.4	59.6	59.3	58.6	58.8	59.83
60.0	59.8	59.8	59.2	59.6	59.4	59.6	59.0	58.8	58.7	58.5	58.2	64.97
59.6	60.2	60.2	60.0	59.7	59.4	59.4	59.4	59.2	59.1	58.7	58.7	64.55
60.8	60.6	60.4	60.1	60.1	60.0	—	—	—	—	—	—	63.08
—	—	—	—	—	—	60.6 <sup>c</sup>	60.7	60.5	60.5	60.5	60.5	—
66.5	66.5	65.5	66.2	66.0	66.0	66.0	65.6	65.4	65.3	65.1	65.3	—
64.6	64.8	64.8	64.6	64.2	64.0	64.0	63.6	63.3	63.2	63.0	63.4	—
64.16	64.23	64.13	64.02	63.79	63.64	63.34	63.03	62.46	62.19	61.98	61.66	63.08

<sup>b</sup> Five minutes late.

<sup>c</sup> Six minutes late.

VERTICAL FORCE.													
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah <sup>t</sup> . = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
OCTOBER.	1	147.7	148.3	149.7	144.1	146.0	146.8	148.5	154.3	154.3	150.5	151.6	152.0
	2	155.4	157.9	155.7	153.7	153.0	151.6	151.9	151.9	153.0	152.8	152.0	152.4
	3	149.5	150.6	150.6	150.6	151.8	151.8	152.5	153.4	153.0	152.4	152.4	152.4
	4	152.2	154.1	154.1	154.1	153.5	153.2	151.1	150.3	151.1	151.9	150.9	150.6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	166.5	167.2	164.8	161.5	161.5	160.1	160.9	161.6	161.7	161.5	161.5	161.5
	7	166.8	168.6	166.3	165.0	162.8	161.8	160.4	160.4	161.0	161.4	160.3	159.5
	8	160.3	159.8	159.8	158.6	157.2	155.0 <sup>b</sup>	155.0	154.5	153.9	154.4	155.9	155.9
	9	152.2	150.9	153.4	148.9	147.1	145.5	144.1	143.0	144.4	147.0	146.7	154.5
	10	144.2	147.8	147.8	147.8	146.4	145.0	145.4	147.1	147.4	149.2	148.9	150.1
	11	143.8	143.5	145.6	146.1	146.6	147.9	148.1	146.9	149.3 <sup>c</sup>	149.3	148.9	148.9
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	164.1	163.9	162.6	158.1	159.3	158.3	159.1	159.1	159.1	159.1	157.9	159.2
	14	159.1	159.5	158.4	163.0	162.2 <sup>b</sup>	160.5	162.3	159.1	160.0	160.0	163.1	163.1
	15	165.1	166.3	168.8	158.5	161.4	162.0	162.6	163.9	163.9	163.2	164.8	164.8
	16	170.0	170.0	170.7	169.7	167.6	166.5	167.5	167.5	167.5	166.6	164.6	164.4
	17	171.3	170.3	171.9	166.1	164.1	163.8	164.5	163.6	164.9	162.8	161.1	161.1
	18	165.9	166.3	164.8	163.0	160.1	159.5	159.1	157.6	156.7	156.5	155.3	154.6
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	158.1	158.9	157.6	154.9	155.1	158.8	160.3	160.6	162.0	162.7	164.8	166.4
	21	168.6	168.6	169.3	175.0	174.0	173.6	175.4	174.0	174.0	177.7	180.4	180.0
	22	180.0	180.0	179.5	176.8	175.2	173.8	176.8	174.7	173.6	173.1	163.0	170.9
	23	165.8	171.0	172.0	169.6	167.5	165.8	166.3	165.0	165.2	164.5	162.9	161.8
	24	156.2	156.2	156.2	154.9	153.3 <sup>d</sup>	152.7	154.0	155.0	155.1	155.1	153.3	155.2
	25	156.1	158.2	158.2	158.2	155.8	153.8	154.8	154.8	155.8	157.2	158.7	158.4
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	158.3	160.7	165.4	161.0	158.7	155.9	153.9	152.7	152.5	152.5	149.4	149.9
	28	155.1	155.1	156.8	154.0	150.1	148.7	148.3	148.3	148.1	147.4	147.3	146.6
	29	154.5	155.9	155.0	152.6	150.9	149.3	149.3	149.3	149.3	149.3	149.3	149.0
	30	145.5	145.5	146.5	146.2	144.7	143.6	143.6	143.5	145.1	145.1	146.1	146.5
	31	149.7	150.5	151.3	150.8	149.0	148.6	148.3	149.5	149.2	149.2	149.2	149.3
Hourly Means	158.59	159.47	159.73	157.88	156.85	156.07	156.44	156.36	156.71	156.76	156.31	157.00	

TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
OCTOBER.	1	63.0	62.6	62.3	63.5	63.0	63.6	63.6	63.4	63.4	63.0	63.0	63.0
	2	59.3	59.0	59.6	60.0	60.4	60.4	60.6	60.8	61.4	61.6	61.6	61.6
	3	61.4	61.2	60.8	61.0	61.0	61.0	61.0	61.6	61.6	61.8	61.8	61.8
	4	61.0	60.6	60.6	61.0	61.0	61.2	61.6	61.6	61.6	61.6	61.9	62.6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	53.3	53.3	60.4	54.5	54.5	55.0	55.2	55.8	55.8	56.3	56.6	56.3
	7	53.3	53.2	53.5	54.2	55.0	55.4	56.3	56.5	56.8	57.2	57.5	58.0
	8	58.2	58.0	58.2	58.3	57.6	58.0	59.6	59.6	59.8	59.8	59.8	60.1
	9	61.0	61.0	61.4	61.8	62.4	62.8 <sup>b</sup>	63.0	64.0	64.2	64.6	65.0	65.0
	10	62.0	61.8	62.0	62.5	63.2	64.0	64.0	64.0	63.9	64.0	63.9	64.0
	11	64.0	63.8	63.6	63.0	63.0	62.9	62.8	63.4	64.0 <sup>c</sup>	63.6	63.2	63.4
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	54.5	54.5	54.9	56.0	56.3	56.6	56.8	56.6	56.8	57.3	57.5	57.3
	14	57.6	57.6	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.7	58.0	58.2
	15	53.7	53.6	54.3	55.0	54.6 <sup>b</sup>	54.3	54.3	54.7	54.5	54.5	54.5	54.4
	16	50.3	50.3	50.5	51.1	51.8	52.3	52.3	52.3	52.8	53.2	53.8	54.0
	17	50.7	50.7	54.5	51.8	52.6	53.0	53.5	54.3	54.4	55.3	56.3	56.5
	18	53.5	53.7	54.0	54.6	55.5	56.3	56.7	57.3	57.6	58.2	58.6	58.8
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	55.3	55.0	54.6	54.6	54.3	54.3	54.3	54.5	54.5	54.5	54.0	53.7
	21	49.4	47.5	48.5	48.6	48.6	48.7	49.0	49.6	49.4	49.2	49.2	48.6
	22	46.6	46.6	46.8	47.0	47.6	48.2	48.4	48.6	49.0	49.3	50.1	50.3
	23	51.3	50.3	50.3	50.6	51.3	51.7	51.9	52.9	53.1	53.3	54.1	54.2
	24	56.1	56.0	56.4	56.3	57.0 <sup>d</sup>	57.4	58.0	58.0	58.5	58.5	58.5	59.0
	25	55.6	55.3	55.2	55.3	56.5	56.8	57.5	58.3	58.5	58.6	58.5	58.7
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	55.5	54.8	56.0	55.0	55.5	56.5	57.3	58.3	59.2	59.8	60.0	60.6
	28	57.7	57.5	57.8	57.8	59.0	59.5	60.0	60.4	60.5	61.0	61.6	61.4
	29	58.5	57.8	57.8	58.3	58.9	59.3	59.4	59.6	60.2	60.6	60.8	60.6
	30	62.0	62.0	62.0	61.7	61.8	62.0	62.5	62.5	62.6	62.8	62.5	61.8
	31	60.0	59.6	59.6	59.4	59.4	59.8	59.8	60.0	60.0	60.2	60.0	61.0
Hourly Means	56.47	56.20	56.78	56.68	57.01	57.35	57.66	58.00	58.21	58.43	58.60	58.70	

<sup>a</sup> Ten minutes late.

<sup>b</sup> Five minutes late.

VERTICAL FORCE.												
One Scale Division = .000063 parts of the V. F.      Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
148.8	151.7	153.6	151.9	150.3	149.9	152.9	157.7	153.8	151.9	152.7	154.7	150.99
152.9	152.5	152.5	152.5	151.7	151.7	151.4	151.4	151.5	151.6	149.0	148.9	152.45
152.4	153.1	153.1	153.7	152.6	150.9	149.9	149.6	149.8	149.8	149.8	151.0	151.53
149.0	149.4	148.5	148.5	148.2	148.2	—	—	—	—	—	—	—
—	—	—	—	—	—	163.7	163.7	162.0	164.6	164.0	164.5	154.23
161.5	161.0	162.8	161.7	158.1	163.3	164.4	164.0	164.4	164.3	166.6	165.4	162.83
159.5	161.5	161.2	160.3 <sup>a</sup>	158.5	158.9	158.9	158.3	153.3	158.3	158.2	159.3	161.06
154.8	154.8	154.8	153.9	153.9	154.6	154.6	151.2	151.2	152.0	152.0	152.3	155.02
156.2	161.3	157.9	169.2	159.5	149.8	147.9	145.7	140.6	135.7	126.6	141.0	148.71
150.0	149.0	148.5	146.2	146.2	146.2	138.2	138.2	146.8	145.4	143.7	144.5	146.25
146.4	145.3	147.4	150.9	150.0	148.7	—	—	—	—	—	—	—
—	—	—	—	—	—	160.5	160.5	161.5	163.4	162.4	162.4	151.01
160.1	158.9	158.9	159.8	160.6	159.4	157.8	156.7	156.7	159.1	159.1	159.1	159.42
159.0	159.7	159.3	158.5	158.5	160.3	160.3	161.5 <sup>a</sup>	162.2	162.9	163.4	163.4	160.80
164.8	164.8	165.7	165.7	166.1	166.2	165.4	165.2	167.9	168.2	169.2	168.4	165.12
165.2	165.2	165.0	166.2	166.2	166.2 <sup>d</sup>	164.6	161.1	161.1	165.6	167.5	170.0	166.52
163.7	165.0	167.1	167.8	167.8	164.5	166.2	165.4	164.6	164.3	164.8	164.8	165.48
156.4	156.4	156.4	159.1	159.1	159.8	—	—	—	—	—	—	—
—	—	—	—	—	—	157.9	157.0	157.0	158.4	158.4	158.7	158.92
166.4	170.0	171.7	171.0	169.6	169.6	162.4	146.9	168.3	170.0	169.0	169.0	163.50
178.6	168.2	177.3	167.4	167.0	173.7	174.4	176.4	176.3	176.3	176.3	176.1	174.11
162.7	159.6	161.3	165.9	164.0	166.4	166.9	166.6	162.0	162.0	164.4	163.5	169.28
161.5	161.5	160.7	160.7	162.3	162.1	162.7	161.6	156.8	155.4	156.8	156.8	163.18
155.9	158.0	158.4	156.3	156.2	156.2	158.1	154.5	156.7	156.7	152.8	153.3	155.43
157.6	157.2	156.6	155.4	154.4	154.4	—	—	—	—	—	—	—
—	—	—	—	—	—	157.3	157.7	158.9	158.6	157.1	159.4	156.86
149.1	149.1	151.4	151.1	152.0	152.1	152.2	152.4	152.7	154.7	154.9	154.2	154.03
148.2	149.6	149.2	149.3	149.2	149.3	145.8	149.4	151.9	152.8	151.6	154.1	150.26
147.9	148.3	147.1	149.8	146.9	149.9	149.9	149.7	149.1	148.1	147.5	147.4	149.80
146.5	147.0	147.4	148.7	149.8	149.8	148.0	149.1 <sup>a</sup>	149.1	149.1	149.1	149.1	146.86
151.2	151.2	152.7	149.4	149.4	148.0	148.0	146.7	144.4	145.0	132.4	140.4	148.06
156.53	156.64	157.28	157.44	156.60	156.67	157.05	156.23	156.87	157.19	156.27	157.47	157.10

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
63.0	63.0	62.6	62.4	62.6	61.6	61.0	60.0	60.2	60.0	59.8	59.6	62.22
61.8	62.0	61.8	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.10
61.6	61.6	61.6	62.0	62.1	62.0	61.6	61.8	61.6	61.6	61.6	61.4	61.52
62.6	62.7	62.7	62.7	62.7	62.7	—	—	—	—	—	—	—
—	—	—	—	—	—	54.5	54.5	54.3	54.1	54.0	53.8	59.90
56.3	56.6	56.6	56.8	56.9	55.8	55.3	55.0	55.0	54.5	54.3	53.8	55.58
58.0	58.0	58.0	58.0 <sup>a</sup>	58.0	58.3	58.3	58.6	58.7	58.3	58.5	58.2	56.91
60.6	60.8	60.6	60.4	60.1	60.4	60.6	60.4	60.2	61.0	61.2	61.0	59.76
65.0	64.8	64.6	64.5	64.0	63.6	63.4	63.0	62.6	62.7	62.2	62.2	63.28
63.6	63.8	63.8	63.8	63.8	63.8	64.0	64.0	63.8	63.8	63.8	64.2	63.56
63.4	63.4	63.4	63.0	62.5	62.3	—	—	—	—	—	—	—
—	—	—	—	—	—	55.7	55.5	55.3	55.2	55.0	54.5	61.25
57.3	57.3	57.0	57.2	57.2	57.0	57.0	57.0	57.0	57.1	57.3	57.6	56.71
57.8	57.6	57.3	56.8	56.3	56.3	56.1	55.8 <sup>a</sup>	55.4	55.0	54.6	54.2	56.85
54.0	53.8	53.6	53.2	53.0	52.6	52.2	52.0	51.3	51.2	50.6	50.5	53.35
54.0	53.6	53.4	53.4	53.2	52.6 <sup>d</sup>	52.4	52.0	51.7	51.3	51.2	51.0	52.27
56.5	56.3	56.5	56.0	55.6	55.5	55.1	55.0	54.5	54.5	54.3	54.0	54.47
58.5	58.5	58.5	58.5	58.5	58.3	—	—	—	—	—	—	—
—	—	—	—	—	—	56.2	56.2	56.2	55.8	56.0	55.7	56.74
53.3	53.0	52.6	52.2	51.7	51.3	51.1	50.8	50.4	50.3	50.0	49.4	52.90
48.6	48.4	48.4	48.6	48.6	48.4	48.2	47.7	47.8	47.5	47.2	47.0	48.45
52.6	53.9	53.3	54.0	52.3	52.1	51.7	51.5	52.3	52.5	52.2	51.5	50.35
55.2	55.5	55.5	55.8	55.8	55.6	55.6	55.5	56.3	56.3	56.2	56.1	53.93
59.2	59.0	58.4	58.3	58.3	57.9	57.3	57.2	56.8	56.8	56.6	55.9	57.56
59.1	59.0	59.1	59.1	59.5	59.7	—	—	—	—	—	—	—
—	—	—	—	—	—	56.4	56.4	56.0	56.0	55.6	55.4	57.34
60.8	60.8	60.4	59.8	59.6	59.4	59.2	59.2	59.2	58.8	58.5	58.0	58.43
61.4	61.4	61.2	61.4	61.0	61.2	60.6	60.0	59.6	59.2	59.0	58.9	59.96
60.8	61.0	61.0	60.8	60.6	60.4	60.4	61.0	61.2	61.8	62.0	62.2	60.21
61.6	61.0	60.6	61.0	61.0	61.0	60.8	60.2 <sup>a</sup>	60.0	60.0	60.0	60.0	61.39
61.0	61.0	61.0	60.6	60.8	61.0	61.0	61.4	61.5	61.6	61.3	61.3	60.51
58.80	58.81	58.65	58.59	58.42	58.24	57.31	57.16	57.06	56.98	56.84	56.63	57.65

<sup>a</sup> Two minutes late.

<sup>d</sup> Six minutes late.



VERTICAL FORCE.													
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
NOVEMBER.	1	145·5	149·3	149·8	149·8	148·1	147·1	151·5	150·7	154·2	155·0	156·7	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	167·7	169·3	169·3	170·7	169·8	169·2	168·3	168·1	167·2	166·6	166·6	165·4
	4	165·1	165·1	163·9	162·6	161·1	161·5	161·6	161·1	162·9	163·1	163·8	163·8
	5	162·5	162·5	162·2	160·6	162·6	162·4	160·9	162·3	163·7	163·7	163·7	162·5
	6	162·4	163·1	162·6	161·7	155·9	161·6	162·6	162·6	163·8	162·6	162·6	161·1
	7	154·7	158·7	158·2	158·2	159·2	160·2	161·7	162·6	164·7	163·4	163·4	163·4
	8	163·6	163·6	164·5	165·2	165·0	165·0	166·7	166·7	168·8	168·6	168·1	167·3
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	178·9	178·2	177·2	175·3	173·7	172·9	172·9	172·9	172·8 <sup>a</sup>	171·3	169·9	172·3
	11	168·8	168·8	169·5	168·6	168·4	168·8	168·8	168·3	168·3	166·6	166·6	166·1
	12	167·2	167·9	167·3	167·0	166·9	167·1	166·0	166·0	165·6	167·0	165·2	163·9
	13	169·2	167·4	158·3	164·7	163·4	162·4	162·4	163·0 <sup>b</sup>	162·4	160·3	158·9	158·9
	14	161·5	162·2	162·2	163·4	162·1	160·5	159·4	159·4	159·9	159·9	159·9	158·2
	15	160·6	164·1	153·2	160·2	159·2	158·8	158·8	160·5	161·6	161·6	160·6	159·4
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	146·7	146·7	154·8	157·4	161·0	162·7	163·9	164·4	166·9	166·0	164·2	162·4
	18	157·6	158·4	158·5	157·5	157·8	158·9	158·1	159·2	159·6	159·3	159·3	157·8
	19	157·1	157·4	157·7	162·7	162·6	162·8	165·4	165·2	165·2	164·9	167·4	168·0
	20	165·2	165·2	166·4	165·0	161·0	163·3	160·5	161·3	161·3	161·9	161·9	159·8
	21	163·3	163·8	163·5	161·5	164·7	164·7	167·0	169·2	169·2	171·3	170·3	164·2
	22	165·8	165·6	137·7	153·7	170·2	173·9	173·6	173·6	166·6	172·1	170·6	175·7
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	183·6	182·5	182·7	185·4	183·0	182·3	179·8	186·3	186·2	185·9	185·9	187·6
	25	182·1	182·5	181·9	181·5	179·6	180·5	179·5	179·7	179·7	179·7	179·7	178·9
	26	175·8	175·3	175·3	174·0	174·1	174·7	177·3	179·2	175·5	179·7	179·7	179·8
	27	177·1	177·6	178·1	178·1	178·1	180·0	180·0	180·8	182·3	181·1	181·7	179·2
	28	177·6	182·4	182·4	184·6	185·4	185·4	187·2	184·1	184·1	183·5	182·3	177·4
	29	179·1	179·3	177·7	179·0	180·8	178·7	181·5	180·0	179·5	179·5	179·7	181·5
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	166·35	167·08	165·40	166·74	166·95	167·42	167·82	168·29	168·48	168·58	168·35	167·65	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
	°	°	°	°	°	°	°	°	°	°	°	°	
NOVEMBER.	1	60·8	60·0	60·6	60·0	60·4	60·5	60·3	61·0	61·0	60·8	61·0	
	2	—	—	—	—	—	—	—	—	—	—	—	
	3	49·5	49·5	49·3	49·5	49·5	50·0	50·5	51·0	51·3	52·0	51·9	
	4	52·7	52·6	52·5	52·3	53·0	53·3	53·5	53·8	54·1	54·2	54·3	
	5	53·3	53·3	53·2	53·3	53·3	53·4	54·1	54·4	54·2	54·2	54·2	
	6	54·0	54·0	53·5	53·5	53·3	53·5	53·5	53·7	54·0	54·2	54·4	
	7	53·9	53·5	53·6	53·5	53·5	53·5	53·7	54·3	54·3	54·3	54·5	
	8	54·0	53·5	53·0	52·3	52·1	51·9	51·5	51·1	50·8	50·4	50·3	
	9	—	—	—	—	—	—	—	—	—	—	—	
	10	44·2	44·6	44·8	44·7	45·1	45·7	46·4	47·6	47·9 <sup>a</sup>	48·7	49·5	
	11	50·3	50·3	50·0	50·3	50·2	50·2	50·4	50·7	51·4	51·8	51·8	
	12	50·6	50·4	50·5	50·4	51·0	51·3	51·9	52·3	52·3	52·3	52·3	
	13	52·4	52·4	52·8	52·0	52·8	53·5	53·5	54·0 <sup>b</sup>	54·3	55·0	55·2	
	14	53·5	53·0	53·0	52·7	52·8	53·5	54·1	54·2	54·3	54·3	54·3	
	15	53·3	52·8	54·0	52·8	53·8	54·1	54·1	54·3	54·2	54·0	54·4	
	16	—	—	—	—	—	—	—	—	—	—	—	
	17	52·4	52·4	52·4	52·4	52·3	52·3	52·7	52·7	53·2	53·3	53·6	
	18	56·3	56·2	56·0	56·2	56·0	56·3	57·0	56·3	56·7	56·7	57·3	
	19	55·7	55·7	54·7	53·8	53·3	53·5	53·5	53·6	53·3	53·0	52·3	
	20	52·0	52·0	52·0	52·2	52·5	53·0	54·0	53·8	53·8	53·6	53·6	
	21	51·8	51·5	52·4	51·3	50·3	50·0	49·4	49·4	49·4	48·2	48·0	
	22	46·1	46·4	46·9	46·6	46·6	45·7	45·6	46·5	46·0	46·4	45·5	
	23	—	—	—	—	—	—	—	—	—	—	—	
	24	40·5	40·4	40·4	40·0	40·5	40·5	40·3	40·0	40·2	40·0	39·8	
	25	41·5	41·5	41·5	40·5	41·0	41·6	42·4	42·3	42·8	42·8	42·8	
	26	45·0	44·8	44·6	44·6	44·4	44·2	43·6	43·6	42·6	42·4	42·6	
	27	44·0	43·6	43·0	42·4	42·4	41·6	41·9	41·7	41·7	41·8	42·0	
	28	38·8	38·6	40·0	39·3	39·9	39·8	40·0	40·0	40·2	40·2	41·1	
	29	42·8	42·9	42·6	42·0	41·6	41·6	42·0	42·6	42·8	42·6	42·6	
	30	—	—	—	—	—	—	—	—	—	—	—	
Hourly Means	49·98	49·84	49·83	49·54	49·66	49·78	49·99	50·20	50·27	50·29	50·37		

<sup>a</sup> Four minutes late.

<sup>b</sup> Five minutes late.

VERTICAL FORCE.												
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fah <sup>t</sup> . = '00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
152.7	149.0	149.0	151.8	150.7	149.6	—	—	—	—	—	—	153.65
—	—	—	—	—	—	163.1	160.6	160.3	160.3	159.9	166.2	165.98
164.3	164.3	164.3	163.5	163.3	163.3	163.0	162.4	164.0	164.0	164.5	164.5	162.29
163.8	164.1	164.3	162.9	162.9	163.8	162.2	158.2	157.7	159.7	159.0	160.8	162.79
162.5	162.5	163.4	163.4	163.0	163.9	163.9	164.0	164.0	162.9	161.4	162.4	160.60
161.1	161.9	161.9	161.9	161.8	158.3	161.7	162.4	160.2	152.2	153.6	154.7	161.73
164.1	163.2	163.2	163.2	163.2	160.9	160.9	162.2	163.2	163.2	163.2	162.5	169.69
167.8	168.6	168.2	165.4	165.4	165.4	—	—	—	—	—	—	172.18
—	—	—	—	—	—	180.6	180.6	179.6	179.0	179.0	179.8	167.08
172.3	172.7	169.3	170.9	168.4	171.6	170.0	170.3	169.8	169.8	169.5	169.5	165.56
165.6	165.6	165.5	165.9	165.5	163.0	166.8	166.8	166.1	167.2	167.2	167.2	160.57
163.9	165.2	163.2	163.8	165.2	164.8	164.8	165.7	164.0	162.9	163.6	169.2	159.55
158.5	158.5	158.5	160.6	160.4	159.5	158.1	157.1	156.9	157.6	156.8	160.0	158.08
158.5	156.8	157.5	157.5	157.5	154.9	156.3	159.6	159.6	160.6	161.0	160.9	159.77
159.3	159.2	157.6	157.6	160.7	160.7	—	—	—	—	—	—	155.89
—	—	—	—	—	—	158.9	159.6	161.8	161.8	132.7	145.5	163.96
164.3	164.9	162.7	162.1	160.1	159.9	156.8	157.9	157.9	156.3	157.2	157.2	162.40
157.9	157.9	157.7	156.7	155.1	155.1	154.8	150.8	150.1	144.0	145.8	153.5	164.52
167.0	166.3	165.2	166.4	166.4	165.8	164.1	161.7	164.4	164.0	164.0	163.4	172.37
159.3	159.8	160.6	165.7	160.5	159.7	163.9	163.6	162.7	162.8	162.8	163.5	183.49
164.6	164.2	166.5	164.0	162.1	162.9	161.6	160.5	161.6	163.6	162.1	162.2	177.90
173.7	174.2	171.8	173.3	172.3	171.2	—	—	—	—	—	—	176.56
—	—	—	—	—	—	182.6	183.7	183.7	183.8	183.8	183.7	179.44
186.0	184.5	183.1	183.5	180.5	182.5	182.5	182.6	181.9	181.8	181.8	181.8	179.37
177.2	177.2	176.6	175.3	175.0	174.7	174.7	174.7	174.7	174.3	174.0	175.8	181.85
179.0	177.1	176.6	175.7	175.7	175.7	176.4	176.4	176.4	176.0	176.0	176.0	167.09
179.2	179.6	179.0	181.7	183.1	184.3	184.3	177.8	180.6	178.0	175.5	169.4	—
174.0	173.4	174.0	174.4	173.8	177.7	176.9	175.1	176.6	175.8	177.8	179.1	—
182.2	182.2	181.0	180.5	175.4	175.4	—	—	—	—	—	—	—
—	—	—	—	—	—	188.9	188.9	188.4	190.0	187.7	187.4	—
—	—	—	—	—	—	—	—	—	—	—	—	—
167.15	166.92	166.43	166.71	165.92	165.78	167.91	167.33	167.45	166.86	165.60	167.05	167.09

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
°	°	°	°	°	°	°	°	°	°	°	°	°
60.6	60.1	60.0	60.0	59.6	59.4	—	—	—	—	—	—	57.84
—	—	—	—	—	—	50.7	50.7	50.7	50.0	49.7	49.6	51.60
52.4	53.0	52.6	52.7	53.0	53.0	52.7	52.7	52.5	52.5	52.5	52.6	53.81
54.3	54.3	54.3	54.5	54.5	54.3	54.3	54.3	54.3	54.3	53.9	53.5	53.70
54.0	53.7	53.7	54.0	53.7	53.5	53.5	53.1	52.9	53.4	54.0	54.2	54.17
55.0	54.8	54.8	54.6	54.3	54.5	54.4	54.3	54.3	54.3	54.3	54.0	54.01
54.3	54.3	54.3	54.2	54.2	54.2	54.2	54.2	54.0	53.8	53.8	54.0	49.22
50.3	50.3	50.3	50.2	50.0	50.0	—	—	—	—	—	—	48.40
—	—	—	—	—	—	42.4	42.8	43.0	43.2	43.6	44.0	50.96
50.5	50.5	50.2	50.0	50.3	50.0	49.8	49.8	50.0	50.3	50.7	50.0	51.95
51.5	51.5	51.5	51.3	51.3	51.3	51.3	50.8	50.6	50.8	51.0	51.0	54.01
52.8	52.8	52.6	51.5	51.8	52.0	52.0	52.0	52.7	53.0	52.8	52.6	54.15
54.9	54.3	54.3	54.2	54.5	54.6	54.3	54.5	54.7	54.5	54.5	54.3	53.42
55.2	55.2	55.2	55.2	55.2	55.2	55.2	54.7	54.0	53.5	53.3	53.3	53.86
54.2	54.0	53.6	53.0	53.0	53.0	—	—	—	—	—	—	57.02
—	—	—	—	—	—	53.1	52.5	52.4	52.4	52.3	52.4	52.93
53.6	53.6	53.8	54.6	54.9	55.2	55.4	54.9	54.7	55.9	56.3	56.4	53.01
57.7	57.6	57.7	57.7	57.9	57.8	57.6	57.4	57.4	57.5	57.6	56.2	48.77
52.3	52.5	52.3	52.7	52.7	52.4	52.2	52.0	52.0	52.0	51.8	51.2	44.85
54.2	54.0	54.0	53.6	53.0	52.6	52.6	52.5	52.3	52.3	52.0	52.3	40.55
47.4	48.0	48.0	48.0	47.7	47.5	47.5	47.9	47.7	47.0	47.2	47.4	43.45
45.8	46.0	46.5	46.6	47.0	47.3	—	—	—	—	—	—	43.97
—	—	—	—	—	—	40.8	40.6	40.6	40.4	40.4	40.6	41.48
40.0	40.4	40.6	40.4	40.6	40.7	40.7	41.6	41.4	41.5	41.4	41.6	42.03
43.4	43.6	44.3	44.6	45.4	45.6	45.6	45.6	45.4	45.4	45.4	45.0	41.11
43.0	44.0	44.4	44.4	44.4	44.4	44.2	44.0	44.0	44.4	44.6	44.6	—
41.8	42.0	42.4	41.6	40.9	40.4	39.9	40.0	39.9	39.9	39.6	39.0	—
43.4	44.6	44.6	45.3	45.6	43.8	43.6	43.7	43.8	43.7	43.6	42.8	—
41.8	41.8	42.1	41.6	42.6	42.6	—	—	—	—	—	—	—
—	—	—	—	—	—	37.1	37.1	37.6	37.9	38.1	37.9	—
—	—	—	—	—	—	—	—	—	—	—	—	—
50.58	50.68	50.72	50.66	50.72	50.61	49.40	49.35	49.32	49.36	49.38	49.22	50.01

VERTICAL FORCE.													
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.													
Mean Göttingen Time.	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .	10 <sup>h</sup> .	11 <sup>h</sup> .	
DECEMBER.	1	187.7	187.7 <sup>a</sup>	188.7	186.5	185.6	186.5	186.5	186.5	189.6	189.6	190.0	189.9
	2	187.7	187.2	181.6	184.5	185.5	186.7	188.0	188.8	188.8	185.9	185.9	189.4
	3	177.4	179.8	189.0	187.8	187.8	192.4	199.6	208.6	212.4	232.8	223.8	215.9
	4	189.0	189.0	189.0	187.7	187.1	184.7	185.5	183.6	181.9	180.8	178.5	178.5
	5	176.0	176.4	174.9	174.9	177.7	177.7	179.1	180.1	181.5	181.5	182.7	182.4
	6	178.1	177.1	179.1	179.2	179.2	178.5	178.3	177.3	179.8	180.0	179.5	179.5
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	190.2	191.3	188.0	187.1	185.9	185.5	185.0	184.6	184.6	183.8	183.8	180.7
	9	177.3	177.3	176.8	176.8	176.8	175.5	175.2	175.2	175.4	175.9 <sup>b</sup>	175.9	175.9
	10	179.0	179.0	179.5	180.1	180.1	178.6	179.7	180.3	182.3	182.2	182.2	182.7
	11	186.6	186.7	188.3	188.3	189.6	189.4	189.4	190.4	190.4	190.4	189.5	189.5
	12	190.9	190.9	192.2	194.8	193.0	193.0	193.0	193.6	193.4	192.7	190.7	191.5
	13	182.1	178.7	178.1	180.9	179.7	180.4	181.3	183.6	184.5	184.1	183.5	185.0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	171.0	172.2	174.2	175.0	174.8	174.0	174.6	178.4	182.6	181.7	181.4	179.7
	16	181.1	178.6	175.3	178.8	179.3	177.5	176.7	175.9	175.6	175.6	174.8	174.8
	17	174.3	172.9	173.8	173.0	173.0	173.0	172.3	173.3	174.0	174.6	173.9	168.7
	18	162.8	160.3	163.6	164.8	164.8	163.5	164.3	166.1	167.5	167.5	168.2	168.1
	19	179.0	180.7	182.9	185.0	185.0	184.5	185.4	185.4	186.8	186.8	188.0	187.9
	20	191.7	192.5	191.3	191.0	190.0	188.8	189.0	189.1	189.1	188.7	188.4	188.4
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	198.2	195.5	195.9	194.8	193.0	192.4	192.0	190.9	189.8	188.8	188.8	188.1
	23	189.3	188.9	188.9	188.5	186.0	184.4	183.2	182.7	183.5	184.2	183.6	183.3
	24	175.8	175.7	179.4	181.6	181.0	181.6	180.9	179.9	179.8	179.5	178.4	178.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	190.4	190.4	188.2	188.1	187.2	186.3	186.1	184.8	184.5	184.5	184.5	184.5
	27	185.4	185.4	185.6	185.3	188.0	184.8	181.3	181.8	183.3	183.3	186.0	184.3
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	177.3	176.8	173.5	176.6	176.1	174.7	174.2	172.4	170.8	171.1	170.9	169.8
	30	163.0	165.6	166.0	177.3	175.6	173.8	173.8	173.8	176.2	176.7	173.6	173.5
	31	179.9	181.0	175.7	185.3	184.7	181.6	180.3	180.6	180.5	180.7	182.0	182.0
Hourly Means	181.58	181.45	181.52	182.83	182.56	181.92	182.10	182.60	183.41	183.98	183.40	182.77	
TEMPERATURE OF THE VERTICAL FORCE MAGNET.													
DECEMBER.	1	37.9	38.2 <sup>a</sup>	38.2	37.6	38.2	37.7	37.2	37.0	37.0	37.2	37.4	36.8
	2	36.8	36.5	37.0	37.0	37.6	37.9	37.5	36.9	37.9	38.8	38.0	38.4
	3	36.6	36.3	36.0	35.7	36.0	36.1	36.6	37.0	37.1	37.6	37.4	37.4
	4	39.8	40.0	40.0	40.0	40.0	40.6	41.0	42.0	42.8	43.8	44.2	44.6
	5	44.5	44.4	44.1	44.0	43.2	43.2	43.7	43.8	43.8	43.6	43.6	43.8
	6	44.2	44.6	43.8	43.6	43.6	43.8	44.2	44.6	44.5	44.6	44.4	44.2
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	37.6	37.8	38.0	38.4	38.7	39.1	39.9	40.0	40.4	40.7	41.4	41.7
	9	44.6	44.6	44.2	43.7	44.2	44.5	44.6	45.0	45.4	45.6 <sup>b</sup>	45.6	45.6
	10	42.2	41.8	41.7	41.7	41.9	42.1	42.1	42.0	41.7	41.0	40.8	40.6
	11	38.2	37.8	37.1	36.6	36.6	36.8	36.8	36.6	36.6	36.8	36.8	37.4
	12	35.6	35.0	33.7	34.0	34.2	34.2	34.4	34.8	35.0	35.7	36.4	36.2
	13	37.8	38.0	38.0	38.0	38.8	39.6	40.0	40.3	40.6	41.6	42.0	42.5
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	44.6	44.2	44.0	43.1	44.6	45.0	44.6	44.6	44.6	44.3	44.0	44.3
	16	43.7	44.0	43.0	42.6	42.7	43.5	44.0	44.6	45.2	45.8	46.0	46.4
	17	45.4	45.6	45.7	45.4	45.6	45.6	45.8	46.2	46.4	46.6	46.8	49.3
	18	50.5	50.5	49.7	49.1	49.0	49.3	49.3	49.5	49.5	49.5	49.6	49.2
	19	41.4	40.8	40.6	40.5	39.8	39.4	39.4	38.9	38.7	38.6	38.2	37.6
	20	35.2	35.4	35.6	35.3	35.5	36.0	36.0	36.6	37.0	37.4	37.8	36.8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	30.8	31.4	31.8	32.1	32.4	33.2	34.1	34.6	35.2	35.8	36.2	36.8
	23	36.5	36.5	36.3	36.2	37.0	37.2	38.0	38.8	39.5	39.5	39.6	40.0
	24	41.6	41.6	40.3	40.4	40.2	40.2	40.4	41.0	41.2	42.0	42.8	42.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	34.3	34.3	34.6	35.0	35.4	35.4	36.2	37.0	37.6	38.0	38.8	38.6
	27	36.6	36.2	36.2	36.4	36.4	37.0	38.0	38.2	37.8	38.2	38.8	38.8
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	43.0	43.2	43.2	43.0	43.2	43.6	44.4	45.0	45.2	45.6	46.2	45.8
	30	45.4	45.2	44.8	44.6	44.6	45.2	45.6	45.4	45.4	45.2	46.4	44.8
	31	41.0	40.2	40.0	39.6	39.7	40.5	40.5	40.7	40.4	40.3	40.3	40.6
Hourly Means	40.22	40.16	39.91	39.75	39.97	40.26	40.55	40.81	41.02	41.30	41.52	41.55	

<sup>a</sup> Three minutes late.

<sup>b</sup> Two minutes late.

<sup>c</sup> Five minutes early.

VERTICAL FORCE.												
One Scale Division = '000063 parts of the V. F. Change in the Magnetic moment of the Bar for 1° Fahr. = '00007.												
12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .	21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	Daily and Monthly Means.
Sc. Div. 185.2	Sc. Div. 187.8	Sc. Div. 187.8	Sc. Div. 189.1	Sc. Div. 189.1	Sc. Div. 188.6	Sc. Div. 187.9	Sc. Div. 187.9	Sc. Div. 187.9	Sc. Div. 185.7	Sc. Div. 184.9	Sc. Div. 184.9	Sc. Div. 187.57
187.7	188.3	188.3	188.3	188.3	188.2	188.2	188.2	186.8	179.8	178.2	171.7	185.92
217.5	217.8	184.4	182.8	205.9	205.9	198.5	198.2	195.9	194.3	192.9	192.8	199.76
179.6	179.0	178.2	179.7	180.3	179.5	180.7	179.6	179.6	175.0	171.1	173.7	181.30
182.3	182.3	182.7	183.6	178.9	180.3	180.5	182.3	181.7	180.7	178.7	178.1	179.87
179.5	180.8	181.8	180.2	180.2	180.2	—	—	—	—	—	—	181.18
—	—	—	—	—	—	—	—	188.6	189.8	192.0	187.3	181.80
179.8	179.2	178.8	180.8	180.8	177.3	175.8	175.7	175.7	175.9	176.4	176.4	176.42
175.9	175.9	175.9	177.2	176.4	177.0	177.6	177.5	176.0	175.8	176.0	179.0	182.50
182.0	182.6	184.0	183.7	184.4	184.2	184.6	185.0	185.0	186.3	186.3	186.1	189.95
189.2	190.0	190.2	190.7	191.2	191.2	191.2	191.1	192.6	191.5	191.5	189.8	191.35
191.5	191.5	189.7	191.0	191.0	191.0	191.0	191.0	190.4	190.8	187.9	186.2	181.67
185.2	182.7	181.9	181.9	181.9	181.9	—	—	—	—	—	—	181.88
—	—	—	—	—	—	180.5	180.5	181.9	182.2	179.0	178.5	177.82
178.4	178.3	177.9	177.9 <sup>a</sup>	180.5	178.5	179.6	175.6	178.1	181.1	181.1	181.1	170.19
175.6	175.6	176.0	174.6	173.0	173.0	173.0	172.9	172.9	172.6	170.5	170.9	168.32
168.6	167.4	168.2	164.5	161.8	163.7	163.1	163.8	161.1	160.6	160.1	159.9	168.15
168.1	168.6	168.6	169.2	169.2	170.0	170.0	171.7	173.6	173.3	172.8	179.0	187.25
188.6	187.4	189.0	187.4	188.5	188.5	190.7	190.3	190.8	191.9	192.4	191.0	192.26
189.2	189.5	190.0	190.0	191.0	192.6	—	—	—	—	—	—	191.05
—	—	—	—	—	—	198.6	199.2	199.3	199.3	199.3	198.2	182.85
188.8	188.8	189.5	189.5	189.7	189.8 <sup>d</sup>	189.1	190.3	190.3	190.7	190.4	190.1	181.88
181.7	181.1	180.3	179.3	179.3	179.6	179.6	180.6	180.2	180.2	179.7	180.2	185.87
178.0	177.6	178.4	178.4	178.1	177.5	—	—	—	—	—	—	183.17
—	—	—	—	—	—	190.5	190.5	191.4	191.4	191.4	190.4	170.14
185.6	185.4	184.5	185.4	185.4	186.6	186.6	183.3	185.0	183.3	185.1	185.3	174.24
184.3	185.3	184.2	183.1	182.9	181.9	—	—	—	—	—	—	182.15
—	—	—	—	—	—	181.2	180.7	180.3	179.8	178.9	178.9	182.30
169.8	169.8	169.7	169.6	168.1	164.9	163.4	166.1	166.6	162.6	163.9	164.6	—
178.1	178.1	177.3	176.7	175.7	175.5	175.8	172.7	172.7	174.6	177.7	177.9	—
182.8	182.8	182.8	182.8	182.8	182.8	182.8	184.0	184.0	183.6	183.3	182.7	—
182.81	182.83	181.54	181.44	182.09	181.93	182.42	182.32	182.65	182.03	181.60	181.33	—

TEMPERATURE OF THE VERTICAL FORCE MAGNET.												
37.4	37.2	36.9	38.0	38.0	38.0	38.1	38.1	38.0	37.6	37.6	37.8	37.63
39.2	39.1	38.7	38.7	38.7	39.0	38.7	37.5	37.2	37.0	37.0	37.0	37.84
37.6	37.8	38.0	39.3	39.6	38.4	38.4	38.6	38.8	39.0	39.6	39.4	37.68
44.4	44.4	44.6	41.8	41.6	44.4	44.4	43.6	43.4	44.0	44.4	44.6	42.93
43.6	43.6	43.4	43.0	42.8	43.2	43.4	43.0	43.4	43.6	43.6	44.2	43.60
43.6	43.5	43.4	43.8	43.8	43.9	—	—	—	—	—	—	42.78
—	—	—	—	—	—	—	—	37.2	37.2	37.0	37.6	—
42.4	42.7	43.0	43.0	43.0	43.8	44.5	44.6	44.6	44.5	44.5	44.6	41.62
45.6	45.2	45.0	45.0	44.6	44.6	44.2	44.1	43.6	43.6	43.2	42.6	44.54
40.0	39.8	39.6	39.8	39.8	39.0	38.6	38.4	38.4	38.6	39.3	38.4	40.39
37.3	37.0	37.0	36.5	36.1	36.1	36.1	35.7	35.9	36.0	36.0	36.0	36.66
36.5	36.5	36.8	37.0	37.0	37.0	37.0	37.0	37.3	37.3	37.5	38.0	36.00
42.6	42.9	42.8	42.9	42.9	42.8	—	—	—	—	—	—	41.25
—	—	—	—	—	—	42.2	42.2	42.2	42.4	42.8	44.0	—
44.7	44.7	44.3	43.6 <sup>a</sup>	42.8	42.6	42.6	42.4	42.0	42.0	41.7	41.4	43.61
46.2	46.2	46.0	46.4	46.4	46.6	46.0	45.0	45.0	45.0	45.2	45.4	45.04
49.6	49.7	49.1	49.6	51.0	50.6	50.5	50.5	51.1	50.7	50.8	50.7	48.26
49.0	49.0	48.9	48.7	48.5	48.4	47.7	46.4	45.0	43.7	43.2	42.0	48.13
37.3	37.3	37.3	37.3	37.3	36.2	34.7	35.5	35.2	35.2	35.4	35.0	37.82
36.8	36.4	36.4	36.0	36.0	35.8	—	—	—	—	—	—	34.81
—	—	—	—	—	—	30.6	30.8	30.8	30.8	30.3	30.3	—
36.6	36.3	36.3	37.0	37.0	36.8 <sup>d</sup>	36.8	36.2	36.0	35.7	35.6	36.1	35.03
40.0	40.6	41.2	41.2	41.1	41.2	41.1	41.2	41.5	41.6	41.6	41.6	39.54
42.0	42.2	42.4	42.4	42.8	42.8	—	—	—	—	—	—	—
—	—	—	—	—	—	35.0	34.8	34.8	34.6	34.4	34.6	39.85
38.0	38.2	38.5	37.4	37.2	36.7	37.1	37.6	37.8	38.0	37.8	37.0	36.94
38.8	39.0	39.6	40.0	40.0	40.0	—	—	—	—	—	—	38.88
—	—	—	—	—	—	40.4	40.7	40.8	41.4	41.7	42.2	—
45.8	45.4	45.6	46.2	46.6	46.8	46.6	47.0	47.0	46.7	46.3	45.8	45.30
44.6	44.6	44.4	44.2	44.4	44.2	44.2	43.6	42.8	42.8	42.0	41.6	44.42
40.5	40.5	40.3	40.3	40.3	40.0	40.0	39.8	39.8	40.0	40.0	40.0	40.22
41.54	41.53	41.52	41.62	41.63	41.50	40.76	40.57	40.37	40.35	40.33	40.30	40.79

<sup>d</sup> Twenty-one minutes late.

<sup>e</sup> Christmas-day.

January 22nd and 23rd.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'.721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	116.8	116.0	121.7	118.1	118.7	117.4	118.0	116.1	117.1	121.3	118.6
5	0	116.9	116.0	123.0	117.2	118.4	117.4	117.0	117.2	117.2	119.9	118.4
10	0	117.0	115.9	124.2	116.3	118.0	118.0	116.2	117.3	118.0	119.1	118.5
15	0	117.0	116.5	126.9	116.2	118.0	117.6	116.0	117.4	117.8	118.2	119.0
20	0	116.0	116.2	129.2	116.5	117.4	117.4	116.4	118.0	117.9	117.0	118.3
25	0	115.8	116.2	130.2	117.0	117.0	117.7	117.8	118.8	118.6	116.0	118.9
30	0	116.0	116.0	125.9	117.4	117.2	116.1	118.1	117.9	116.9	115.6	119.2
35	0	115.6	116.1	121.7	117.3	118.0	118.0	118.9	117.2	115.5	116.2	119.6
40	0	115.2	117.0	118.2	117.8	117.3	118.6	118.5	117.5	117.1	116.2	120.2
45	0	115.2	118.6	116.2	118.1	117.0	118.0	117.1	117.8	119.6	117.8	120.7
50	0	115.4	119.7	116.8	118.7	117.2	119.7	116.1	117.8	121.0	118.0	120.9
55	0	115.6	120.8	117.9	118.6	117.4	118.0	115.8	117.5	121.2	119.0	121.3
		One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0	580.0	578.0	553.1	580.2	580.9	573.8	575.5	571.0	571.9	582.8	576.2
7	0	578.0	576.8	551.0	580.0	578.0	573.8	575.6	572.4	570.4	581.7	575.3
12	0	577.5	577.3	552.7	579.9	577.7	574.6	574.8	572.4	570.2	580.9	575.9
17	0	578.0	580.2	558.4	579.0	578.0	576.2	572.8	572.7	569.3	580.6	577.7
22	0	577.9	580.0	564.0	578.6	577.6	575.6	571.0	573.5	570.4	578.9	576.9
27	0	578.0	575.9	574.3	578.0	576.8	575.8	572.7	572.9	576.2	576.1	577.2
32	0	578.7	572.0	578.8	577.6	577.5	575.0	573.7	573.0	578.4	575.9	577.1
37	0	579.0	569.5	580.0	578.6	577.6	574.7	573.9	572.8	577.9	573.8	575.8
42	0	577.8	567.8	580.1	579.6	576.0	575.0	574.1	572.7	576.4	573.5	575.4
47	0	577.4	563.5	579.5	580.0	574.6	574.5	573.4	573.4	575.7	573.1	576.0
52	0	577.5	561.3	579.0	579.6	574.0	574.5	572.9	573.1	582.2	574.1	575.6
57	0	577.4	557.7	579.2	581.4	574.0	575.0	572.9	572.8	582.9	574.5	574.1
Thermometer		47.8	48.4	48.4	48.3	48.2	48.0	47.7	47.0	47.0	46.4	45.9
		One Scale Division = .000063 part of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	91.3	90.9	86.6	87.8	87.0	86.2	87.2	87.7	87.1	89.5	89.8
8	0	91.3	90.9	86.6	88.0	88.2	86.3	87.6	87.9	87.1	89.5	89.8
13	0	90.0	89.6	87.9	87.8	88.2	85.9	87.6	87.3	87.1	88.5	89.8
18	0	90.0	91.2	88.4	88.5	87.3	86.2	87.3	87.3	88.3	88.5	89.8
23	0	90.0	89.7	88.5	88.3	87.3	86.1	87.9	87.3	88.3	88.1	89.8
28	0	90.4	88.3	89.0	88.3	86.6	86.4	87.5	87.1	89.4	88.1	90.0
33	0	91.0	87.6	89.0	86.9	86.6	86.6	86.6	87.1	88.2	—	90.0
38	0	91.0	87.6	89.0	86.6	86.8	86.6	86.5	87.1	88.2	88.7	89.8
43	0	91.0	87.3	88.7	86.9	86.7	86.6	88.4	87.1	88.9	88.9	89.8
48	0	91.0	86.5	88.7	86.9	86.5	86.6	87.8	87.1	88.9	88.7	89.5
53	0	91.8	86.5	87.4	86.5	86.6	87.2	87.6	87.1	89.5	89.4	89.5
58	0	90.9	86.1	87.8	86.7	86.7	87.2	86.8	87.1	89.5	89.4	89.5
Thermometer		47.2	47.6	48.9	49.2	48.9	49.1	49.0	49.0	48.6	47.8	47.3
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.		Barometer at 32°.	Thermometers.		Wind.		Weather.					
			Dry.	Wet.	Direction.	Force.						
11.	H. M.	In.	°	°	—	—	Clear, save a few cir.-strat. round horizon.					
22	10 0	29.978	37.2	32.0	—	Calm.	Clouded; cir.-cum. and cir.-strat.; a few clear spaces round horizon.					
	11 0	29.994	31.8	31.8	—	Calm.	Partially covered with cir.-cum.; clear in N. and zenith.					
	12 0	30.000	27.6	26.0	—	Calm.	Clear.					
	13 0	30.010	25.2	23.8	—	Calm.	Clear.					
	14 0	30.016	22.2	21.2	N. E.	Very light.	Clear.					
	15 0	30.036	20.6	19.4	—	—	Clear.					
	16 0	30.038	19.5	18.6	—	Calm.	Cir.-cum. scattered.					
	17 0	30.035	18.7	18.0	N. E.	Very light.	Generally overcast; light fleecy cir.-cum.; clear spaces.					
	18 0	30.029	18.8	18.3	N. E.	Very light.	Generally overcast; light fleecy cir.-cum.; clear spaces.					
	19 0	30.031	18.8	18.2	N. E.	Very light.	Generally overcast; light fleecy cir.-cum.; clear spaces.					
	20 0	30.048	19.0	18.5	N. E.	Very light.	Unclouded; hazy.					
	21 0	30.029	17.8	17.4	N. E.	Very light.	Clear.					

MAGNETICAL OBSERVATIONS.												
January 22nd and 23rd.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
121.4	124.5	121.4	126.2	122.1	121.6	110.0	110.8	106.7	111.4	114.0	111.9	112.4
120.9	120.9	123.0	127.4	122.8	120.7	111.2	110.4	108.0	111.9	114.0	112.0	112.1
120.0	118.2	124.6	127.6	122.0	120.2	111.3	110.0	109.0	111.5	114.3	112.7	111.6
119.4	117.9	125.1	127.0	123.0	120.8	111.2	111.4	109.3	111.6	115.0	113.0	112.1
121.0	116.5	124.2	126.0	124.0	118.2	111.4	110.2	109.1	111.2	114.9	113.0	111.8
122.0	114.8	124.0	125.2	125.1	117.9	114.2	110.4	109.1	111.9	115.0	113.0	110.6
123.7	116.4	125.1	126.5	125.2	118.6	114.5	109.3	109.8	111.8	114.8	113.0	110.0
124.3	117.7	123.8	125.2	125.3	117.4	116.6	107.6	110.7	112.2	115.0	113.0	110.0
125.0	118.8	124.6	124.8	123.8	116.3	112.2	107.0	111.9	112.8	115.2	113.1	112.9
125.3	121.0	125.0	125.4	123.0	115.2	110.4	106.2	113.2	113.0	112.5	113.0	114.2
125.2	120.6	125.7	124.9	120.9	112.0	110.6	106.7	112.6	113.3	112.2	112.9	116.2
124.7	120.6	126.0	122.6	121.3	109.5	111.0	107.3	111.9	113.6	112.1	112.9	116.2

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.												
574.7	568.9	578.1	581.1	577.6	568.0	563.6	578.4	572.3	573.7	574.0	575.0	568.7
575.2	564.3	578.0	580.0	577.0	566.0	563.7	575.6	571.4	574.3	573.0	573.9	562.3
576.0	566.0	576.6	580.0	576.5	564.5	564.0	577.8	571.6	574.5	573.8	573.9	564.6
575.3	567.5	578.1	580.0	576.4	564.5	564.7	573.9	570.4	574.5	573.8	573.6	566.3
575.4	569.4	577.5	576.9	575.5	565.3	564.7	571.7	570.3	574.4	574.0	574.6	567.9
575.1	572.4	575.9	577.0	575.1	563.4	569.7	570.6	570.5	574.4	573.3	574.0	567.9
572.3	574.3	576.1	574.2	575.5	563.4	571.5	570.6	571.0	573.9	572.2	573.8	566.0
572.2	577.8	576.0	574.4	577.5	566.3	576.0	570.6	571.1	573.3	573.0	574.0	565.9
570.9	582.3	577.4	575.5	574.9	566.1	575.5	572.5	568.6	572.9	576.1	574.9	565.6
569.9	584.6	577.2	576.0	572.6	565.6	578.0	572.9	570.8	572.9	577.0	574.0	567.5
570.3	584.0	581.5	579.1	567.5	565.0	576.5	572.0	572.1	573.0	575.4	572.3	569.9
569.3	580.5	580.8	579.9	567.5	563.6	577.8	568.6	573.1	574.0	575.8	572.0	572.0

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.												
89.8	88.0	83.9	87.0	90.3	89.9	86.9	88.3	87.0	87.3	88.4	89.9	89.6
89.8	88.0	83.9	87.0	90.3	91.7	88.3	87.5	87.0	87.3	87.9	89.4	89.6
89.8	87.4	86.2	87.0	90.3	93.2	88.4	87.2	87.0	87.3	87.7	89.4	89.8
89.6	87.2	86.2	87.2	89.5	87.9	87.7	88.5	87.0	87.3	87.4	89.6	89.8
89.6	87.2	86.2	87.6	89.5	88.5	88.1	87.6	87.0	87.3	87.4	89.4	90.7
89.3	87.0	86.5	87.6	89.5	88.5	88.8	87.3	87.0	87.3	87.7	90.2	92.3
89.3	85.9	86.5	89.0	90.9	88.5	87.7	87.5	87.9	87.1	87.7	90.4	92.3
88.6	85.9	86.5	89.0	90.9	88.5	88.5	88.7	87.9	86.7	87.7	90.4	92.3
88.0	85.9	88.3	89.5	90.2	89.0	88.8	89.0	87.1	86.7	90.0	90.3	92.3
88.0	85.2	88.3	89.5	90.2	89.7	87.2	88.2	87.9	86.9	90.0	90.3	93.2
88.4	85.2	88.3	91.3	89.9	89.0	87.2	88.2	87.5	86.9	90.5	89.9	93.1
88.4	83.8	88.3	90.2	89.9	88.2	86.9	88.2	88.3	86.9	90.1	89.6	93.1

\* At 23<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 46°·8; of V. F. 47°·1.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.	Barometer at 32°.	Thermometers.		Wind.		Weather.						
		Dry.	Wet.	Direction.	Force.							
D. H. M.	In.	°	°									
22 22 0	30.033	14.2	13.6	N. E.	Very light.	Clear.						
23 0 0	30.035	14.8	14.2	—	Calm.	Clear.						
23 1 0	30.028	18.6	18.0	—	Calm.	Clear.						
2 0 0	30.016	18.3	17.6	—	Calm.	Clear.						
3 0 0	30.000	22.8	21.8	—	Calm.	Overspread with light cir. and haze.						
4 0 0	29.992	30.4	29.8	E. by N.	Very light.	Overcast with cir.-cum. and haze.						
5 0 0	29.975	32.2	31.6	E. by S.	Very light.	Overcast with cir.-cum. and haze.						
6 0 0	29.908	33.1	31.7	E.	Very light.	Overcast with very light cir.-strat. and haze.						
7 0 0	29.865	35.6	32.1	E. N. E.	Moderate.	Overcast with very light cir.-strat. and haze.						
8 0 0	29.829	34.8	32.4	E.	Brisk with gusts	Overcast with very light cir.-strat. and haze.						
9 0 0	29.821	34.6	32.6	E.	Brisk with gusts	Overcast with very light cir.-strat. and haze.						
	29.815	35.0	33.0	E. N. E.	Moderate.	Overcast with cir.-cum. and haze.						

February 21st and 22nd.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.						DECLINATION.				
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		118.0	116.0	117.2	128.2	119.2	117.0	118.8	118.4	121.0	123.2	120.0
5	0		119.1	116.0	117.4	125.0	119.0	117.0	119.0	118.1	121.0	122.3	119.7
10	0		118.4	116.0	117.2	123.2	118.8	117.0	120.0	117.8	120.8	122.9	120.0
15	0		118.4	118.3	116.7	124.6	117.8	116.0	120.5	117.0	118.0	123.4	120.1
20	0		117.3	118.2	117.0	126.1	117.5	116.4	120.0	117.2	117.3	123.5	121.0
25	0		117.2	118.2	115.5	127.3	117.2	117.8	123.3	117.5	117.5	120.4	119.0
30	0		117.0	117.0	118.6	123.6	117.1	118.1	125.3	117.4	117.8	122.8	118.9
35	0		116.2	116.0	118.0	119.2	117.0	118.2	122.4	117.6	118.1	122.7	120.2
40	0		116.4	116.3	122.7	118.3	116.9	117.5	120.7	119.1	119.1	123.0	119.8
45	0		116.0	117.2	126.0	119.2	116.7	117.1	119.7	119.6	119.5	122.5	120.0
50	0		116.0	117.4	128.0	120.0	116.4	118.0	119.0	120.0	120.5	121.5	121.9
55	0		116.0	117.2	127.2	120.1	118.0	118.1	119.1	120.9	123.1	121.5	122.7
			One Scale Division = .000087 parts of the H. F.						HORIZONTAL FORCE.				
M.	S.												
2	0		571.7	565.6	561.6	572.4	564.9	569.2	564.2	571.2	567.0	569.9	566.2
7	0		571.8	565.0	561.4	569.3	566.9	569.4	563.1	571.2	567.3	568.9	564.9
12	0		573.7	564.8	561.6	567.0	568.4	568.8	562.8	570.1	568.1	567.0	565.7
17	0		572.0	569.6	559.5	568.6	568.4	568.2	564.4	570.0	566.5	567.0	564.4
22	0		571.6	570.0	559.6	565.0	568.5	568.0	565.4	570.0	565.0	565.3	565.9
27	0		569.8	565.5	555.7	568.8	567.6	568.6	568.7	567.1	566.0	564.2	566.0
32	0		567.5	563.6	557.6	570.3	567.3	569.0	573.8	567.4	565.6	562.3	566.0
37	0		569.6	562.0	559.5	566.9	568.1	568.3	574.8	566.3	564.1	563.6	566.0
42	0		568.0	559.6	561.7	563.1	567.1	567.2	577.0	566.3	564.8	563.0	566.0
47	0		567.6	559.7	561.6	561.2	567.0	566.1	578.0	566.2	566.2	565.2	565.9
52	0		567.8	559.5	561.4	561.6	568.0	564.4	573.6	566.0	567.0	564.8	566.0
57	0		567.8	560.0	565.6	563.4	570.2	564.6	572.2	565.9	568.8	565.5	566.0
Thermometer			52.7	53.0	53.2	52.2	53.0	53.0	53.0	52.5	52.5	52.2	52.0
			One Scale Division = .000063 parts of the V. F.						VERTICAL FORCE.				
M.	S.												
3	0		79.6	77.7	78.9	71.6	73.0	72.2	70.2	69.2	68.2	70.5	71.8
8	0		79.6	77.4	79.2	71.7	73.0	72.2	70.0	69.2	68.4	70.5	71.8
13	0		79.2	78.5	78.8	71.7	71.9	71.7	70.0	69.2	68.4	68.7	71.8
18	0		79.5	78.2	77.0	71.8	71.9	71.7	70.0	68.2	68.8	68.7	71.7
23	0		78.9	78.1	76.7	71.8	71.9	71.4	70.0	68.2	68.8	70.7	71.7
28	0		78.6	78.2	74.7	71.8	71.9	71.4	70.0	68.2	70.0	70.7	71.7
33	0		78.5	78.5	74.8	71.5	71.9	71.5	70.0	68.2	70.0	70.5	71.7
38	0		77.7	78.5	74.8	71.5	72.1	69.9	—	67.7	70.0	70.5	71.6
43	0		77.6	77.5	73.6	71.6	72.1	69.9	69.6	67.7	70.0	71.8	71.6
48	0		77.6	76.8	73.8	71.9	72.1	69.9	69.2	68.2	69.1	71.8	71.6
53	0		78.1	80.0	74.5	71.9	72.2	69.9	69.2	68.2	68.8	71.8	71.6
58	0		78.1	79.4	72.4	71.9	72.2	69.9	69.2	68.2	70.5	72.1	70.7
Thermometer			52.4	52.8	52.9	54.3	54.1	54.1	54.3	53.4	53.6	53.1	53.1
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
21	10	0	29.463	44.0	40.4	—	Calm.	Cir.-cum., interspersed with clear spaces.					
	11	0	29.491	43.2	39.4	—	Calm.	Well-defined cir.-cum. scattered about; clear spaces.					
	12	0	29.509	42.8	39.0	—	Calm.	Well-defined cir.-cum. scattered about; clear spaces.					
	13	0	29.512	43.0	39.4	W. N. W.	Brisk with gusts	Zenith clear; cir.-cum. and cir.-strat. round horizon.					
	14	0	29.526	42.6	37.8	W. N. W.	Light.	Light flexuous cir.-strat. scattered about; clear spaces.					
	15	0	29.548	39.6	37.0	W. N. W.	Very light.	Clear, except light cir.-strat. in N. and S.					
	16	0	29.556	37.6	34.0	W. N. W.	Very light.	Clear, except light cir.-strat. in N. and S.					
	17	0	29.550	37.8	35.0	W. N. W.	Very light.	Overcast with cir.-cum. and cum.-strat.					
	18	0	29.576	39.8	36.4	W. N. W.	Light.	A few cir.-cum. and cum.-strat. dispersed.					
	19	0	29.594	38.0	35.2	—	Calm.	Overcast with cir.-cum. and cum.-strat.					
	20	0	29.625	38.2	35.2	—	Calm.	Overcast with cir.-cum. and cum.-strat.					
	21	0	29.605	37.2	35.0	—	Calm.	Densely overcast with haze.					

MAGNETICAL OBSERVATIONS.												
February 21st and 22nd.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
124.0	114.1	121.0	125.3	122.1	121.0	120.9	119.8	114.4	110.0	110.0	110.2	113.0
125.2	114.9	121.9	124.1	121.3	118.4	120.0	119.5	113.7	110.8	110.0	110.4	112.2
126.0	116.4	122.7	124.0	118.8	120.3	120.9	118.2	114.1	111.0	110.0	110.9	111.8
124.6	115.0	122.8	123.9	118.0	122.2	122.7	118.0	113.9	114.3	110.7	111.7	112.0
120.0	115.8	123.3	123.9	118.4	121.0	122.9	115.4	114.1	111.4	110.9	112.2	112.8
117.8	116.9	124.1	121.3	118.2	120.4	121.3	115.3	113.5	111.2	111.9	112.1	112.9
116.7	117.0	122.7	121.8	119.0	121.0	119.1	116.1	112.9	111.1	112.0	112.0	112.9
115.2	117.0	120.0	122.0	118.6	121.4	119.8	115.1	110.9	110.9	112.0	112.0	113.2
114.8	119.0	122.3	122.2	118.3	122.0	119.3	112.8	110.5	111.0	111.6	112.7	114.0
116.0	120.3	121.0	122.2	120.3	122.3	118.5	112.7	110.3	111.0	112.0	112.4	114.0
117.0	119.8	122.9	122.1	120.0	124.7	118.4	113.0	110.0	111.0	111.0	112.5	114.9
114.7	119.7	124.1	122.2	121.4	122.7	120.0	112.9	109.9	110.1	110.0	113.0	115.0

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .000234.												
564.9	565.5	568.0	573.7	565.0	564.6	556.7	549.2	537.4	551.9	560.3	571.9	568.6
563.3	566.0	567.8	571.0	563.1	562.0	556.6	547.2	536.2	553.7	560.0	571.9	571.2
561.2	565.5	567.9	569.1	563.6	560.6	555.9	545.1	540.2	555.7	561.8	569.5	570.1
561.0	564.4	567.4	568.6	563.6	561.6	553.2	542.2	543.2	556.8	562.8	566.2	567.2
557.0	564.5	567.2	570.0	563.5	562.7	552.3	543.1	542.9	558.8	562.0	565.2	564.9
557.0	564.4	569.5	566.9	561.5	561.6	551.9	544.4	546.3	559.7	562.1	567.2	564.0
559.9	564.0	570.1	566.5	562.7	559.6	556.0	541.9	545.0	560.7	563.5	568.2	561.1
561.9	564.4	566.9	566.6	563.7	560.7	555.3	544.8	547.0	560.8	564.7	565.9	561.4
563.9	565.7	573.3	566.9	562.7	559.6	551.9	539.8	548.3	562.1	565.2	567.5	562.9
564.0	567.7	570.2	566.5	563.5	556.5	554.9	538.5	549.8	563.6	567.0	568.2	563.1
566.6	568.4	570.0	566.5	561.7	556.7	548.3	537.7	549.6	564.1	569.1	566.8	563.3
562.9	568.0	571.5	566.0	562.5	557.8	549.8	538.0	549.9	562.2	571.8	566.2	565.3

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
69.9	65.4	70.4	72.4	73.4	74.5	74.2	71.1	71.2	73.4	72.3	74.3	74.9
69.1	66.3	70.4	71.7	74.1	74.4	74.2	71.1	71.2	73.4	73.4	74.9	75.3
68.4	66.3	71.2	71.7	74.0	74.5	73.1	71.1	71.9	73.4	73.0	74.7	75.3
68.4	66.9	71.5	72.3	74.0	74.5	73.1	70.7	73.4	73.2	72.0	73.8	74.6
67.2	66.9	71.5	72.3	74.7	74.2	73.0	70.7	73.4	73.2	72.3	73.8	74.6
67.2	66.9	72.9	72.3	74.2	74.6	72.7	70.6	73.4	73.2	72.6	73.8	74.6
66.0	66.9	72.9	72.9	73.9	74.0	72.6	70.7	73.4	73.2	72.4	73.8	74.6
66.8	68.3	72.9	72.9	73.8	74.4	73.1	69.7	73.2	73.2	73.0	74.6	74.6
66.8	69.3	72.9	72.9	75.6	73.8	73.1	70.9	73.2	74.1	73.0	74.6	75.7
66.8	69.7	72.9	73.4	74.5	73.8	73.1	70.7	73.4	73.9	73.5	74.7	75.7
66.3	69.7	72.9	73.4	74.5	73.8	72.1	70.7	73.4	73.9	74.3	74.6	75.7
65.4	70.4	72.4	73.4	74.0	73.8	72.1	70.7	73.4	73.2	74.3	74.6	75.7

\* At 22<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 53°·0; of V. F. 53°·2.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
21	22	0	29.615	36.4	34.0	—	Calm.	Densely overcast with haze.				
21	23	0	29.623	36.4	34.0	—	Calm.	Clouded cir.-cum. and haze.				
22	0	0	29.623	35.4	33.4	—	Calm.	Clouded cir.-cum. and haze.				
22	1	0	29.641	35.6	33.4	—	Calm.	Clouded cir.-cum. and cir.-strat.				
22	2	0	29.675	36.4	34.2	—	Calm.	Clouded with dense cir.-cum. and haze.				
22	3	0	29.675	38.9	36.8	—	Calm.	Overcast with cir.-cum., cir.-strat., and haze.				
22	4	0	29.675	39.9	—	—	Calm.	Overcast with cir.-cum., cir.-strat., and haze.				
22	5	0	29.672	40.6	—	—	Calm.	Overcast with cir.-cum., cir.-strat., and haze.				
22	6	0	29.658	41.7	40.6	—	Calm.	Overcast with cir.-cum., cir.-strat., and haze.				
22	7	0	29.628	41.1	39.6	—	Calm.	Overcast with dense haze.				
22	8	0	29.638	41.1	39.6	—	Calm.	Overcast with dense haze.				
22	9	0	29.616	40.1	39.6	E.	Very light.	Overcast with cir.-strat. and haze.				



March 19th and 20th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0 <sup>o</sup> .721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		108.5	114.7	116.5	125.2	127.8	132.4	124.4	121.1	112.8	122.0	120.2
5	0		109.2	119.7	117.4	123.3	123.0	128.8	124.7	124.0	112.2	123.9	120.0
10	0		110.0	122.5	116.4	121.1	125.0	125.1	120.0	125.0	113.2	123.5	119.5
15	0		110.3	121.7	118.0	120.2	124.8	126.0	124.1	125.7	115.0	122.4	119.8
20	0		111.2	119.6	118.9	120.7	124.7	124.8	122.0	125.7	118.0	121.0	120.0
25	0		110.9	118.0	118.3	120.7	123.8	123.7	121.0	124.2	120.4	120.2	121.3
30	0		111.0	116.8	122.0	120.9	121.8	120.1	119.6	123.9	122.0	120.3	122.2
35	0		111.2	115.6	125.9	120.8	118.6	121.0	120.6	122.1	123.0	121.2	123.3
40	0		112.0	115.0	131.2	120.9	117.1	123.3	119.0	120.5	122.0	122.6	123.0
45	0		111.0	115.5	133.2	121.0	120.1	127.1	116.9	117.1	121.0	123.4	122.7
50	0		111.0	115.0	133.4	126.0	126.6	126.6	117.6	116.4	121.0	123.4	123.2
55	0		112.4	114.0	126.8	131.3	133.0	125.1	120.0	114.1	122.0	121.6	124.0
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		578.3	573.8	575.4	582.0	563.1	584.0	563.3	571.8	566.5	570.9	582.6
7	0		574.1	575.9	577.0	581.6	559.0	586.6	566.7	577.0	570.1	574.9	582.6
12	0		575.7	584.4	576.1	578.2	559.0	581.5	569.0	570.3	570.8	576.7	583.0
17	0		582.1	586.9	574.9	575.9	565.5	580.2	567.1	569.5	562.7	579.8	582.6
22	0		585.7	586.8	572.9	574.5	567.9	583.0	566.6	569.0	559.2	579.6	582.6
27	0		588.0	586.5	569.6	573.5	570.5	579.5	567.6	567.1	569.0	583.8	582.6
32	0		588.1	586.3	568.8	566.4	572.0	575.1	566.5	566.6	568.0	584.6	582.7
37	0		589.0	583.6	569.9	562.5	573.7	568.9	570.6	567.4	567.1	584.6	583.5
42	0		589.1	580.4	572.3	561.3	570.5	566.2	573.0	568.3	571.0	584.5	582.6
47	0		584.2	580.6	578.0	558.9	570.0	567.0	572.3	567.5	571.8	584.0	582.6
52	0		583.3	581.8	585.7	553.0	574.6	567.8	570.8	568.7	570.0	584.7	582.5
57	0		576.3	575.7	581.6	559.9	582.7	563.9	571.0	569.5	574.6	583.7	582.0
Thermometer			41.0	40.9	41.0	40.8	40.9	40.9	41.0	42.0	42.0	42.0	41.8
			One Scale Division = .000063 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		98.8	99.0	98.0	95.0	94.9	89.1	91.3	90.5	79.5	82.1	89.5
8	0		97.9	100.6	98.0	94.4	94.9	89.1	92.7	90.5	80.8	84.1	89.5
13	0		97.9	101.2	98.0	94.4	94.9	89.1	93.6	90.5	81.2	84.1	89.1
18	0		99.1	100.7	97.2	94.4	94.2	89.1	92.6	89.5	81.2	84.1	90.2
23	0		99.0	100.7	97.2	94.4	94.2	89.1	93.2	88.6	82.3	84.0	89.9
28	0		99.2	100.7	97.2	94.4	93.5	89.1	93.2	88.6	86.2	85.5	89.9
33	0		99.2	100.4	99.0	94.2	93.5	90.1	91.7	88.1	83.7	87.4	89.7
38	0		99.2	99.5	99.0	94.8	95.4	89.6	91.7	89.2	82.1	89.5	90.4
43	0		99.2	99.5	97.1	94.8	95.4	89.6	91.7	82.9	83.5	89.4	90.7
48	0		99.2	99.5	97.1	96.7	95.8	90.9	91.7	82.8	83.5	89.6	90.7
53	0		98.7	99.2	95.0	96.7	95.8	90.9	91.4	81.7	83.0	89.5	90.8
58	0		98.7	98.8	95.0	96.7	92.3	91.3	91.4	81.7	84.3	90.0	91.6
Thermometer			40.8	40.9	41.4	42.2	42.3	42.1	42.4	43.1	43.1	43.0	42.6

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
19	10	0	29.456	24.2	20.9	N. W.	Mod. with gusts	Overcast; cir.-cum. and haze; occasional slight snow.				
	11	0	29.481	23.2	20.5	N. N. W.	Mod. with gusts	Overcast; cir.-cum. and haze; occasional slight snow.				
	12	0	29.499	22.0	20.5	N. N. W.	Mod. with gusts	Overcast; cir.-cum. and haze; occasional slight snow.				
	13	0	29.526	21.2	19.4	N. W.	Brisk.	Overcast; cum.-strat. and cir.-cum.				
	14	0	29.542	19.6	18.2	W. N. W.	Fresh.	Overcast; cir.-cum. and cum.-strat.; a few clear spaces.				
	15	0	29.538	19.0	17.9	W. by N.	Brisk.	Densely overcast; snowing slightly.				
	16	0	29.532	18.8	17.9	W. by S.	Mod. with gusts	Overcast, dense haze; halo round the moon, diameter about 3 <sup>o</sup> .5.				
	17	0	29.519	19.8	18.7	W. by S.	Mod. with gusts	Overcast, dense haze; halo round the moon, diameter about 3 <sup>o</sup> .5.				
	18	0	29.507	19.8	17.3	W. by S.	Mod. with gusts	Overcast, cir. and haze; halo disappeared.				
	19	0	29.519	19.8	17.7	W.	Mod. with gusts	Partially overcast; light cir. ch.-fly in W.				
	20	0	29.529	21.0	20.7	W.	Mod. with gusts	Dense cir.-cum. and haze round horizon; remainder clear.				
	21	0	29.535	20.4	20.3	W. by S.	Mod. with gusts	Cir.-cum., cir.-strat., and haze round horizon; remainder clear.				

MAGNETICAL OBSERVATIONS.												March 19th and 20th.		
DECLINATION.												Angular Value of one Scale Division = 0'·721.		
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
123·0	121·0	114·9	117·0	126·9	126·0	124·8	120·3	116·8	98·3	107·8	111·0	114·0		
123·2	120·4	114·6	116·1	126·1	125·6	125·0	118·9	117·1	97·9	108·4	112·0	114·5		
122·7	121·0	110·9	118·3	126·4	125·8	125·0	114·9	114·0	92·9	109·4	111·2	115·0		
122·6	119·6	108·0	120·3	125·9	126·1	124·8	114·7	110·9	93·0	109·8	111·5	115·0		
122·2	117·2	107·3	123·2	125·2	125·7	124·0	118·0	110·1	93·0	110·7	112·0	114·9		
121·0	114·8	112·3	122·4	123·6	124·9	122·0	122·0	107·1	95·0	111·3	112·4	114·9		
120·4	114·4	110·9	123·6	123·2	125·2	123·1	120·1	103·3	95·0	112·7	113·0	115·0		
119·8	113·4	111·6	124·6	125·5	123·0	122·4	116·8	101·8	97·8	112·7	113·2	114·9		
120·0	112·9	113·1	125·9	125·7	125·0	122·3	115·8	101·7	100·0	111·3	113·3	115·0		
121·1	110·4	114·8	125·1	126·4	125·8	117·3	116·0	102·0	102·0	111·8	113·5	114·8		
122·0	110·7	115·4	125·4	125·7	125·0	121·3	115·7	104·8	104·0	111·5	113·9	114·8		
124·8	110·2	117·2	126·1	125·9	123·0	121·3	115·9	103·1	106·8	112·0	114·0	115·0		
HORIZONTAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fahr. = ·000234		
581·6	581·6	570·4	597·6	595·5	589·1	580·1	577·2	553·7	545·0	572·8	579·3	580·2		
580·6	579·5	579·4	597·2	593·2	587·6	580·4	581·0	550·5	551·4	575·0	578·2	578·0		
580·8	578·5	588·9	598·4	592·5	585·8	580·0	580·1	551·1	558·0	576·1	577·1	576·7		
582·4	572·0	589·8	597·9	590·9	587·2	580·0	574·9	551·0	562·1	575·4	577·5	575·9		
584·5	570·7	585·9	598·9	590·6	585·7	581·7	570·9	546·0	563·1	575·6	577·7	576·4		
587·8	569·7	591·6	598·1	589·0	584·0	576·6	569·7	540·3	564·8	573·5	578·3	576·3		
589·6	565·8	589·7	597·0	587·5	584·4	577·9	569·9	539·7	565·7	582·0	580·2	577·2		
589·7	565·9	589·5	594·3	591·3	584·0	571·7	566·0	536·8	564·6	589·3	581·2	577·0		
589·6	570·9	591·4	596·0	590·7	582·0	581·3	563·9	533·0	567·6	588·5	583·8	577·2		
589·7	566·0	592·0	596·3	591·5	582·9	572·8	561·8	526·4	570·0	582·5	586·4	576·9		
586·0	562·2	592·6	594·3	590·4	584·1	574·8	558·8	527·5	572·5	581·6	583·0	576·6		
585·6	567·5	596·6	595·4	588·8	580·8	574·2	554·6	543·3	573·9	582·3	582·4	576·2		
°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
41·6	41·2	41·4	40·8	41·2	41·5	42·0	42·4	44·0	44·2	43·5	44·2	44·2 <sup>a</sup>		
VERTICAL FORCE.												Change in the Magnetic moment of the Bar for 1° Fahr. = ·00007.		
90·6	90·1	92·9	89·3	92·6	92·9	92·5	90·1	86·5	90·0	89·4	89·6	89·8		
90·6	90·1	93·9	89·3	92·9	92·9	92·5	91·3	86·5	91·7	89·2	89·6	89·1		
91·5	89·5	94·4	89·3	92·9	92·6	92·5	90·9	86·5	90·4	89·2	89·6	89·1		
91·3	87·2	94·3	89·3	93·0	92·6	92·5	89·4	86·5	90·2	89·4	89·6	89·1		
92·8	87·2	93·6	89·3	93·0	92·6	92·5	88·1	86·5	89·2	88·7	89·6	89·1		
93·5	85·5	93·6	89·3	93·9	92·6	91·1	87·9	86·5	89·4	88·7	89·6	89·9		
93·5	85·5	93·3	90·5	93·9	92·6	91·1	88·6	87·4	88·5	90·3	89·6	89·9		
93·1	87·4	93·3	91·2	93·9	92·6	90·0	88·3	87·4	88·6	92·5	90·0	89·9		
93·2	87·6	90·5	91·4	93·9	92·6	91·7	88·1	87·4	88·6	91·8	90·0	89·9		
93·0	87·6	90·0	91·4	93·4	92·6	90·2	87·6	86·4	89·4	89·8	90·0	89·5		
92·1	86·1	90·0	92·6	93·4	92·6	90·1	87·2	87·9	89·2	90·1	89·8	89·5		
91·8	86·1	89·3	92·6	93·4	92·6	90·1	86·5	90·0	89·2	89·6	89·8	89·7		
°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
42·4	42·6	42·6	42·6	41·8	42·1	41·8	42·6	43·8	44·1	44·4	44·0	44·0 <sup>a</sup>		
<sup>a</sup> At 20 <sup>h</sup> 10 <sup>h</sup> Thermometer of H. F. 44·4; of V. F. 44·2.														
METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.						
				Dry.	Wet.	Direction.	Force.							
D.	H.	M.	In.	°	°									
19	22	0	29·540	20·3	20·1	W. S. W.	Moderate.	Light cir.-strat. and haze round horizon; zenith clear.						
	23	0	29·565	23·8	22·1	W. N. W.	Brisk.	Overcast with cir.-cum., cir.-strat. and haze.						
20	0	0	29·595	24·8	22·3	W. N. W.	Moderate.	Generally overcast with light cir.-cum. and haze; clear spaces.						
	1	0	29·605	25·8	23·1	W.	Light.	Clouded with cir.-cum. and cum.-strat.						
	2	0	29·623	26·9	23·9	W.	Brisk.	Clouded with cir.-cum. and cum.-strat.						
	3	0	29·645	27·8	24·3	W. by N.	Moderate.	Clouded with cir.-cum. and cum. strat.						
	4	0	29·671	30·0	27·2	W. N. W.	Brisk.	Clouded with cir. cum. and cum.-strat.						
	5	0	29·675	30·6	29·5	W. by N.	Brisk.	Clouded; well-defined cum.-strat.						
	6	0	29·678	31·2	27·4	W. by N.	Brisk.	Clouded; well-defined cum.-strat.						
	7	0	29·667	32·2	32·1	W.	Moderate.	Overcast with cir.-cum., cir.-strat. and haze.						
	8	0	29·696	31·4	28·1	W. N. W.	Brisk.	Overcast with cir.-cum., cir.-strat. and haze.						
	9	0	29·710	31·7	28·1	W. N. W.	Moderate.	Overcast with cir.-cum., cir.-strat. and haze.						

April 23rd and 24th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		105.6	112.2	116.0	117.1	116.2	117.0	119.0	117.3	117.4	120.6	116.2
5	0		105.6	112.7	116.0	117.5	116.6	117.0	118.8	117.8	117.4	120.0	115.4
10	0		106.3	113.0	116.2	117.4	116.1	116.5	118.0	118.0	117.8	119.0	113.7
15	0		106.9	113.0	116.0	117.0	115.9	116.0	119.2	117.8	118.8	119.0	113.0
20	0		108.1	113.4	116.6	117.0	115.0	117.0	119.7	117.2	119.8	118.8	109.2
25	0		108.6	113.6	116.8	117.0	115.0	119.1	118.4	117.0	121.2	119.8	107.1
30	0		109.0	113.8	116.1	117.2	115.5	121.0	117.2	117.0	122.0	119.2	107.2
35	0		109.7	114.0	116.0	117.0	115.8	122.4	117.4	117.0	122.9	119.0	108.8
40	0		110.0	114.0	115.9	117.0	115.9	121.8	117.2	117.0	122.8	118.9	109.7
45	0		110.7	114.0	116.7	117.2	115.8	121.0	117.0	117.2	122.0	118.8	114.8
50	0		111.0	115.0	117.1	118.0	116.9	120.8	118.0	117.7	121.8	118.0	116.0
55	0		111.2	114.9	117.5	117.6	117.0	120.2	118.0	117.2	121.2	117.2	117.9
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		555.0	559.8	561.1	554.3	555.0	555.0	549.0	552.1	553.0	552.7	551.8
7	0		554.4	557.0	561.0	555.7	555.0	554.0	548.5	552.7	553.0	552.5	551.8
12	0		552.0	556.4	559.8	553.0	555.0	553.0	550.0	552.4	552.7	553.3	552.0
17	0		556.8	556.7	559.5	553.5	552.0	551.8	549.6	552.3	555.6	553.7	551.8
22	0		560.0	556.9	559.5	552.5	549.0	552.0	548.8	552.9	556.7	554.4	552.4
27	0		559.2	559.6	559.0	554.0	549.0	551.5	550.0	553.1	558.1	554.9	553.0
32	0		552.8	559.1	557.8	552.0	550.8	551.0	550.8	553.0	559.4	554.8	554.6
37	0		551.4	551.8	553.8	551.0	552.0	549.0	553.5	553.0	557.8	555.0	557.2
42	0		554.0	551.7	555.3	552.0	551.0	548.7	553.4	553.1	556.7	554.6	560.0
47	0		550.0	559.5	556.5	555.3	558.0	548.1	552.9	553.0	555.6	554.2	561.5
52	0		549.8	557.5	557.0	555.0	557.0	548.0	552.5	552.6	554.9	554.4	562.4
57	0		552.8	558.1	557.0	555.0	556.0	548.8	552.4	552.9	553.4	555.0	560.1
Thermometer			63.4	63.2	63.0	63.0	62.7	63.0	63.0	63.0	62.5	62.4	62.4
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		56.3	58.7	57.9	53.4	54.0	54.8	54.5	53.9	54.0	52.3	53.0
8	0		56.3	58.3	57.9	53.4	54.4	54.8	54.5	53.9	54.0	52.7	53.0
13	0		56.3	58.3	56.3	53.5	54.4	54.8	54.3	53.9	53.6	52.9	53.0
18	0		57.2	58.0	56.3	53.6	54.4	54.8	54.1	53.9	52.8	53.0	53.0
23	0		57.6	58.0	54.9	53.6	54.4	54.8	54.9	54.0	53.1	53.0	52.9
28	0		57.6	58.0	54.9	53.6	54.4	54.8	54.6	54.2	51.5	53.0	52.9
33	0		56.7	58.0	53.9	53.6	54.4	54.8	55.0	54.0	51.6	53.0	52.7
38	0		56.5	56.9	53.9	53.6	54.4	54.0	55.0	53.8	50.8	53.0	52.7
43	0		57.1	56.9	54.2	53.6	54.4	54.0	—	53.6	50.8	53.0	52.7
48	0		57.1	56.7	54.2	53.6	55.4	55.5	55.6	53.4	51.1	53.0	52.6
53	0		57.1	57.9	54.1	54.0	54.8	54.5	55.6	53.6	51.3	53.0	51.4
58	0		57.9	57.9	54.1	54.0	54.8	54.5	55.6	53.6	51.9	53.0	49.9
Thermometer			61.7	61.7	62.1	62.8	63.2	63.0	63.0	63.3	62.6	62.8	62.8
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
23	10	0	29.422	60.1	52.8	E. N. E.	Light.	Overcast with cir.-cum., cir.-strat., and haze. [thunder in N. W.					
	11	0	29.417	58.5	51.6	N. N. E.	Light.	Densely clouded; cum.-strat., cir.-cum., & haze; spitting rain; distant					
	12	0	29.486	57.8	53.3	S. W.	Moderate.	Densely clouded; cir.-cum.-strat. and cir.-cum.; raining; distant					
	13	0	29.496	50.3	48.9	N. W.	Light.	Densely overcast; constant heavy rain. [thunder in W. and S.W.					
	14	0	29.466	53.8	52.9	W.	Moderate.	Cir. and haze in E., remainder quite clear; ceased raining.					
	15	0	29.483	50.8	49.8	S. S. E.	Light.	Clear round N. horizon, remainder overcast with light cir. and haze.					
	16	0	29.483	49.3	48.5	S. S. E.	Very light.	Overcast with haze.					
	17	0	29.501	48.9	47.9	S. S. E.	Very light.	Overcast dense haze; thick fog.					
	18	0	29.507	50.2	49.5	W. N. W.	Very light.	Overcast with cir.-cum., cum.-strat., and haze.					
	19	0	29.508	53.8	53.1	W. by N.	Very light.	Cir.-cum. and cum.-strat.; generally clear spaces in S. horizon.					
	20	0	29.516	54.0	52.5	W. by N.	Very light.	Cir.-cum. and cum.-strat.; generally clear spaces in S. horizon.					
	21	0	29.522	53.0	51.2	W. by N.	Very light.	Bank of cum.-strat. on S. horizon; fog rising from the ground.					

MAGNETICAL OBSERVATIONS.													April 23rd and 24th.	
DECLINATION.													Angular Value of one Scale Division = 0'.721.	
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .		
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
119.0	119.2	121.0	124.2	127.2	128.0	122.8	124.9	111.2	109.0	101.1	102.3	105.5		
119.5	119.0	121.7	124.0	127.2	127.1	124.0	123.4	110.0	109.0	100.8	102.4	105.9		
119.6	118.4	122.0	123.2	126.8	128.0	126.0	122.0	112.2	109.0	101.0	102.4	105.9		
119.4	117.8	122.2	123.1	127.3	128.7	126.1	121.0	112.0	108.4	101.2	102.4	106.0		
119.6	117.9	122.4	124.8	128.4	128.1	127.1	120.0	112.2	107.4	101.7	103.0	106.1		
119.4	118.2	122.2	126.0	128.3	127.1	127.0	119.0	112.6	105.1	101.0	103.2	106.7		
119.2	119.4	122.2	127.2	129.0	127.5	126.8	116.0	112.7	103.4	101.4	103.2	107.0		
118.8	119.2	122.2	127.2	129.5	127.6	127.8	115.2	112.0	102.5	101.0	103.8	107.6		
118.4	119.4	122.7	127.2	128.8	126.0	126.9	114.7	111.4	101.9	100.8	104.0	108.0		
118.8	119.7	123.0	127.0	129.0	124.9	127.1	114.6	110.5	101.5	101.3	104.7	108.4		
118.8	119.4	122.7	127.2	128.2	126.0	130.1	113.0	109.2	101.6	101.8	104.7	108.7		
118.4	119.7	123.0	127.4	128.5	126.0	126.8	111.5	110.0	101.2	102.4	105.0	108.9		
HORIZONTAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.	
558.6	556.8	560.8	559.4	559.8	558.9	555.5	536.3	536.8	533.6	537.4	548.6	549.5		
558.4	557.2	559.6	559.0	557.8	557.1	552.0	537.7	536.7	537.6	537.9	548.7	551.0		
558.0	558.4	558.6	558.8	557.8	554.9	552.0	537.6	539.8	536.5	540.0	551.1	551.9		
557.3	558.0	559.5	559.3	556.7	556.0	532.0	536.5	540.5	533.9	539.8	549.5	552.8		
557.9	558.3	559.0	560.4	557.0	555.1	550.0	536.0	539.6	536.5	540.0	549.8	550.4		
558.0	557.8	558.6	560.0	557.5	557.0	549.5	538.8	538.8	537.2	540.3	552.4	549.5		
557.6	557.4	558.4	558.4	556.4	555.0	544.8	538.7	536.7	538.9	539.7	551.5	548.3		
558.2	557.8	559.5	559.6	557.2	558.6	542.5	538.8	534.4	537.0	541.3	551.7	549.5		
558.2	557.4	559.6	558.8	558.0	560.0	538.5	539.5	537.7	533.8	540.9	550.8	552.5		
559.5	556.5	559.6	560.0	558.0	556.3	537.5	537.6	537.5	533.8	544.5	552.1	550.9		
558.6	557.3	558.7	559.5	558.0	555.5	535.6	539.8	536.0	532.1	544.2	551.8	550.6		
559.0	556.8	558.0	559.5	559.7	559.8	536.5	537.8	533.7	532.4	544.9	548.4	551.1		
62.5	62.6	62.2	62.6	62.5	62.2	62.5	63.0	64.2	64.8	65.6	66.2	66.6 <sup>a</sup>		
VERTICAL FORCE.													Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.	
50.0	53.0	53.4	54.1	55.2	55.0	55.6	54.1	55.7	53.6	51.5	50.7	48.8		
50.4	53.5	53.5	54.2	55.2	54.4	54.1	53.9	55.5	53.6	51.5	50.7	49.0		
50.4	53.5	54.0	54.2	55.2	54.4	54.1	53.9	55.5	53.5	51.5	50.4	49.6		
50.7	54.1	53.8	54.1	55.0	54.4	54.1	54.4	54.5	53.5	51.2	50.2	49.6		
50.8	54.2	53.5	54.6	55.0	54.4	54.1	54.3	54.5	53.5	50.4	49.8	49.2		
51.5	54.0	53.6	55.5	54.6	55.2	54.1	34.9	54.1	53.5	50.5	49.8	49.0		
51.5	54.7	53.8	55.4	54.6	55.2	53.6	55.0	54.1	53.5	50.5	49.6	49.0		
51.7	54.4	54.2	55.5	54.6	55.2	53.6	54.5	53.7	52.3	50.5	49.5	49.0		
51.7	53.6	54.0	55.4	55.0	55.2	53.6	54.5	53.7	52.3	50.5	49.5	49.5		
52.1	53.2	54.3	55.3	55.0	54.3	53.3	54.6	53.5	52.1	51.1	49.3	49.3		
53.1	54.0	54.5	55.3	55.0	53.5	53.1	55.4	53.0	52.2	50.7	49.3	49.6		
53.1	53.5	54.8	55.4	55.0	55.6	54.1	55.8	53.1	51.5	50.7	48.8	49.5		
62.6	62.8	63.6	62.6	62.3	61.9	62.1	62.6	63.6	63.8	64.4	64.8	65.6 <sup>a</sup>		
<sup>a</sup> At 24 <sup>d</sup> 10 <sup>h</sup> Thermometer of H. F. 66°·3; of V. F. 65°·6.														
METEOROLOGICAL OBSERVATIONS.														
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.						
				Dry.	Wet.	Direction.	Force.							
D.	H.	M.	In.	°	°			Bank of cum.-strat. on S. horizon; fog rising from the ground. Overcast with haze; dense fog. Overcast with haze; dense fog. Overcast with haze; dense fog. Overcast cir.-cum. and haze; fog on the ground. Overcast with cir.-cum. and haze. Overcast with cir.-cum. and haze. Overcast with cir.-cum. and haze. Overcast with cir.-cum. and haze. Overcast with cir.-cum., cum.-strat., and haze. Overcast with cir.-cum., cum.-strat., and haze. Overcast with cir.-cum., cum.-strat., and haze.						
23	22	0	29.516	51.0	49.7	S. W.	Very light.							
23	0	0	29.530	50.2	49.5	S. W.	Very light.							
24	0	0	29.550	50.1	50.1	S. W.	Very light.							
1	0	0	29.576	51.8	51.7	—	Calm.							
2	0	0	29.590	54.8	54.6	—	Calm.							
3	0	0	29.586	58.8	58.0	S. by W.	Very light.							
4	0	0	29.593	61.1	59.7	S. S. W.	Light.							
5	0	0	29.575	64.9	62.3	S. S. E.	Light.							
6	0	0	29.569	66.2	63.0	S. S. E.	Very light.							
7	0	0	29.548	66.3	62.8	S. S. E.	Very light.							
8	0	0	29.537	66.5	62.7	N. N. E.	Very light.							
9	0	0	29.541	66.5	62.5	N.	Very light.							

May 30th and 31st.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'·721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		114·0	114·0	113·0	115·7	110·8	115·2	113·4	126·4	116·3	118·6	97·6
5	0		114·2	113·2	114·0	115·2	113·5	115·4	114·0	124·0	116·6	118·2	98·0
10	0		114·0	113·2	114·7	115·0	114·0	115·2	112·4	122·3	117·0	117·9	99·4
15	0		114·2	113·0	114·0	115·0	116·5	115·0	114·8	121·8	116·7	117·9	101·3
20	0		114·2	112·6	113·6	116·3	117·6	115·0	114·5	121·0	117·0	117·4	102·8
25	0		115·0	112·2	113·7	116·3	118·1	114·4	113·8	118·9	117·2	115·7	103·0
30	0		114·7	112·0	114·0	115·9	118·1	114·4	112·7	116·8	117·7	114·8	104·8
35	0		114·2	111·8	114·4	113·8	116·8	114·0	118·2	116·0	117·0	110·9	106·4
40	0		114·2	111·2	114·8	112·6	116·4	114·0	122·1	115·0	117·0	108·8	110·0
45	0		113·6	111·2	115·0	111·5	115·6	114·0	126·9	115·0	118·0	104·2	114·1
50	0		114·0	111·7	115·8	110·0	115·6	113·0	129·9	115·3	118·1	100·0	117·5
55	0		113·8	112·0	115·8	109·9	115·0	113·2	129·4	116·0	118·3	99·1	119·9
			One Scale Division = ·000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		583·6	575·5	559·2	559·8	557·1	553·2	556·5	564·5	561·9	560·0	565·6
7	0		583·0	574·0	558·8	559·5	552·8	553·7	560·4	560·4	560·1	560·0	569·2
12	0		587·0	573·8	559·8	560·4	550·8	554·6	560·9	558·6	561·0	560·0	569·4
17	0		589·4	573·8	562·3	561·6	550·4	555·4	563·0	558·0	560·3	560·2	568·5
22	0		590·4	571·8	560·0	562·1	551·7	556·7	564·2	557·8	559·9	560·0	569·4
27	0		591·0	571·6	560·7	563·7	552·2	556·8	565·1	557·5	560·6	561·0	570·0
32	0		583·0	571·5	560·7	565·8	552·9	556·5	561·9	557·1	560·3	563·2	573·0
37	0		579·7	570·0	559·5	566·2	553·2	565·0	560·6	557·3	561·5	564·0	569·0
42	0		578·8	569·7	559·8	562·5	553·0	555·6	560·5	556·8	560·2	565·1	567·1
47	0		577·8	569·6	561·0	562·3	554·7	556·5	564·3	557·9	559·8	561·5	565·1
52	0		577·0	567·8	562·8	559·9	555·0	556·8	569·5	559·0	560·2	559·3	563·4
57	0		576·8	562·0	560·0	559·8	553·9	555·8	568·5	561·0	560·1	558·9	561·8
Thermometer			57·0	58·0	58·6	58·0	57·5	57·2	57·0	56·8	56·5	56·4	56·0
			One Scale Division = ·000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		73·2	71·3	71·6	70·3	67·3	68·1	67·8	59·0	63·5	63·3	50·9
8	0		73·2	70·9	71·4	70·3	67·3	68·1	66·9	59·0	62·6	63·3	48·3
13	0		74·4	70·8	71·4	70·1	67·8	68·1	67·3	59·9	62·6	64·1	46·5
18	0		74·6	70·8	71·7	70·2	68·3	68·1	66·9	59·9	63·3	64·1	45·7
23	0		74·3	71·0	71·0	70·3	68·3	68·1	66·6	61·3	63·3	62·7	45·9
28	0		74·3	71·0	71·5	70·5	68·5	67·9	66·2	61·6	63·3	62·2	45·2
33	0		72·9	71·0	71·2	70·5	68·5	67·9	66·2	62·6	63·1	61·2	46·5
38	0		72·3	71·1	71·0	70·6	68·5	67·9	65·6	62·8	63·3	58·6	45·7
43	0		72·3	71·1	71·0	69·5	68·5	67·9	64·9	62·8	63·3	57·0	44·8
48	0		72·0	70·9	70·8	69·0	68·8	67·9	63·4	64·1	63·3	53·7	45·1
53	0		72·0	71·8	70·9	68·4	68·0	67·8	61·4	64·4	63·3	52·7	45·1
58	0		71·9	70·8	70·3	68·0	68·1	67·8	59·9	63·8	63·3	52·2	45·1
Thermometer			55·9	56·9	58·0	57·8	57·7	58·1	57·7	58·1	57·9	57·5	57·2
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
30	10	0	29·915	54·5	49·1	S.	Very light.	Clear.					
	11	0	29·897	54·2	47·8	S.	Very light.	Clear.					
	12	0	29·894	51·4	46·1	S.	Very light.	Clear.					
	13	0	29·895	47·3	44·1	S. by W.	Very light.	Clear except light cir. ; haze round horizon.					
	14	0	29·900	45·2	42·1	S.	Very light.	Clear except light cir. ; haze round horizon.					
	15	0	29·901	44·2	42·1	S. by W.	Very light.	Clear except light cir. and haze in S.					
	16	0	29·896	41·7	40·3	—	Calm.	Clear.					
	17	0	29·891	38·6	37·8	—	Calm.	Clear.					
	18	0	29·892	36·4	35·5	—	Calm.	Clear.					
	19	0	29·898	37·6	35·8	N. N. W.	Very light.	Clear ; faint auroral light.					
	20	0	29·899	39·2	37·6	—	Calm.	Clear ; faint auroral light.					
	21	0	29·899	36·2	35·6	—	Calm.	Clear.					

MAGNETICAL OBSERVATIONS.												
DECLINATION.												May 30th and 31st.
												Angular Value of one Scale Division = 0'.721.
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
122.0	128.8	127.0	124.0	131.0	134.0	124.8	116.0	109.8	107.4	107.7	110.2	113.6
124.0	129.4	121.1	125.8	130.0	134.3	125.0	115.6	110.8	106.0	107.8	110.2	114.0
123.2	130.0	118.7	126.2	129.0	135.0	124.3	114.9	111.7	105.0	108.0	110.0	114.0
124.2	130.0	118.0	128.5	129.3	134.0	122.3	114.6	110.8	104.1	108.5	110.2	114.1
124.7	130.0	114.0	132.8	127.0	134.2	119.6	115.0	109.8	104.5	109.1	110.7	114.2
124.0	131.7	109.1	133.0	124.2	131.7	118.0	114.2	109.0	104.8	110.2	111.7	114.8
125.8	132.0	109.0	133.0	126.3	130.0	117.5	114.0	109.2	105.3	111.0	112.0	115.2
126.0	133.0	109.1	131.8	127.3	128.5	117.4	112.4	111.2	106.0	112.0	112.8	115.2
123.7	134.5	110.7	132.3	126.0	128.5	115.8	108.9	112.9	106.9	112.0	113.0	116.0
124.7	132.5	115.0	132.9	126.2	128.2	114.1	109.2	112.9	107.3	111.9	113.9	115.1
125.7	130.3	117.6	132.0	131.5	126.0	114.8	108.0	111.2	107.2	111.0	114.1	116.2
127.0	129.0	121.2	129.8	125.0	125.2	116.2	109.0	109.0	107.3	111.6	114.0	117.0
HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .000234.												
559.8	562.8	564.5	564.5	566.0	577.0	567.4	557.9	540.3	544.7	548.0	559.0	557.5
559.0	563.1	556.0	564.5	568.0	576.8	566.5	558.1	542.5	545.1	548.0	559.0	558.0
555.6	563.0	554.8	562.5	563.5	575.3	566.3	556.9	550.4	543.7	547.9	559.0	560.0
553.8	563.5	554.5	565.5	565.9	570.0	570.3	554.8	552.6	542.1	548.0	557.9	561.0
553.5	567.0	552.0	565.5	565.6	559.6	570.8	552.8	549.7	541.4	548.9	557.7	560.0
553.0	570.0	552.8	563.5	557.6	560.5	570.6	553.9	548.1	542.0	553.3	558.0	561.0
555.6	571.0	554.5	561.5	544.9	563.6	565.7	552.9	542.0	541.1	551.8	558.0	560.0
559.0	570.0	560.0	562.5	554.5	563.6	566.0	559.0	540.3	541.0	555.0	558.0	560.0
559.5	570.0	564.0	566.0	557.8	567.8	567.0	554.7	540.4	541.5	553.3	559.3	560.0
563.1	570.0	568.0	567.3	567.4	570.3	563.3	551.5	541.3	544.4	554.7	557.8	560.0
561.9	568.4	568.5	567.0	573.8	570.5	561.1	542.9	544.0	545.8	557.8	558.6	561.0
561.0	567.5	571.0	565.5	575.4	568.0	559.9	538.8	544.3	547.8	558.5	560.0	559.0
55.9	55.2	54.0	54.5	55.0	56.0	56.6	57.6	58.2	58.7	59.6	60.5	61.5 <sup>a</sup>
VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
45.1	51.5	60.5	47.8	51.4	50.5	51.6	51.6	56.4	60.0	62.0	62.5	60.9
45.7	51.5	60.5	47.8	51.4	50.5	51.9	51.6	56.4	60.0	62.0	62.5	60.9
44.7	52.1	58.6	48.8	50.7	50.5	52.1	53.0	58.2	60.0	62.0	62.5	61.7
45.4	52.7	58.1	50.0	50.7	50.4	52.1	53.0	59.4	60.7	62.0	62.1	61.7
46.0	53.9	56.5	50.7	50.7	50.5	52.1	53.0	59.2	60.7	62.0	62.1	61.6
46.0	53.9	56.5	50.7	48.8	52.7	53.3	53.9	59.0	60.8	62.0	62.1	61.6
51.2	55.0	56.4	50.7	49.4	52.7	53.3	54.7	58.4	60.7	62.3	61.9	61.6
51.2	56.0	55.1	51.6	52.7	52.7	53.2	54.7	57.8	60.7	62.0	61.5	61.6
51.2	57.9	52.6	52.3	52.2	53.1	53.2	56.0	57.8	60.7	62.0	61.9	61.6
52.0	58.5	49.8	52.5	50.4	53.4	53.2	56.0	59.2	62.1	62.8	61.7	61.6
52.0	59.9	49.8	51.9	49.8	52.8	53.2	55.8	59.2	62.1	62.8	61.7	61.2
51.5	60.5	49.8	51.9	48.1	52.1	53.2	55.0	59.2	62.1	62.5	61.4	60.9
56.9	56.8	55.3	55.3	55.8	56.3	56.8	57.9	58.6	58.8	59.2	59.1	60.0 <sup>a</sup>
<sup>a</sup> At 31 <sup>d</sup> 10 <sup>h</sup> Thermometer of H. F. 62°·5; of V. F. 60°·7.												
METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.		Thermometers.		Wind.		Weather.			
D.	H.	M.	In.	Dry.	Wet.	Direction.	Force.					
30	22	0	29.911	34.6	33.9	—	Calm.	Clear.				
23	0	0	29.932	35.1	33.9	—	Calm.	Clear.				
31	0	0	29.932	42.6	40.7	S. S. W.	Very light.	Clear.				
1	0	0	29.946	47.8	45.3	S. S. W.	Very light.	Clear.				
2	0	0	29.957	52.2	48.6	S.	Very light.	Clear.				
3	0	0	29.946	54.0	50.1	S.	Very light.	Unclouded; hazy round horizon.				
4	0	0	29.941	57.4	53.1	S.	Very light.	Unclouded; hazy round horizon.				
5	0	0	29.938	58.8	53.7	S.	Very light.	Unclouded; hazy round horizon.				
6	0	0	29.917	60.6	54.7	S.	Very light.	Light flexuous cir. and cir.-strat. dispersed; fair.				
7	0	0	29.888	62.8	55.9	S.	Very light.	Light cir. generally dispersed.				
8	0	0	29.870	63.2	56.4	S.	Very light.	Light cir. generally dispersed.				
9	0	0	29.855	64.3	55.9	S.	Very light.	Unclouded, but hazy.				

June 18th and 19th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
0	0		109.8	112.8	114.4	115.4	115.0	114.8	114.2	115.0	116.1	115.3	114.9
5	0		110.0	113.0	114.8	115.4	115.0	114.7	114.2	115.0	116.2	115.0	114.2
10	0		110.4	113.2	114.8	115.2	115.0	115.0	114.8	115.0	116.0	115.0	112.3
15	0		110.4	113.4	114.8	115.0	115.0	115.0	114.3	114.9	116.2	115.2	111.0
20	0		110.8	113.6	115.2	115.0	114.7	115.0	114.6	114.9	116.0	115.3	111.4
25	0		111.0	113.6	115.0	115.0	114.5	114.8	114.6	114.5	116.1	115.4	112.8
30	0		111.4	113.8	115.0	115.0	114.5	115.0	114.8	115.3	116.2	115.6	114.0
35	0		111.6	114.0	115.0	115.0	114.2	115.0	115.0	116.0	116.8	115.3	114.7
40	0		111.7	114.2	115.2	115.0	114.4	114.9	115.0	115.9	116.0	115.3	115.0
45	0		112.2	114.4	115.4	115.0	114.5	114.8	115.0	115.6	116.0	115.0	115.3
50	0		112.4	114.4	115.5	115.1	114.0	115.0	114.8	116.5	115.8	115.0	116.0
55	0		112.6	114.4	115.7	115.0	114.2	114.8	115.0	116.6	115.7	114.3	116.6
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		567.9	565.1	565.3	563.9	565.0	563.6	565.0	566.7	560.0	564.1	562.0
7	0		567.2	565.8	564.2	564.0	566.0	564.4	565.3	568.0	560.8	565.0	562.5
12	0		567.2	565.8	564.0	564.0	566.0	564.9	565.1	564.0	561.0	564.8	564.5
17	0		566.0	565.3	562.1	563.4	565.2	564.8	565.7	564.8	561.2	563.0	563.0
22	0		566.4	564.5	558.2	563.0	564.8	565.0	565.1	564.7	561.4	563.0	563.1
27	0		566.2	562.3	557.6	564.0	565.0	565.1	566.0	563.9	561.3	563.0	564.0
32	0		566.8	564.6	559.7	564.1	564.1	565.7	567.6	564.0	561.4	563.0	564.0
37	0		565.7	563.8	560.2	563.9	564.7	566.0	567.8	565.9	561.4	563.0	564.0
42	0		565.8	565.6	561.7	563.5	565.0	566.0	567.0	565.8	561.1	563.0	563.5
47	0		563.1	565.1	563.7	564.3	561.8	565.5	566.4	565.8	561.2	563.3	564.0
52	0		562.2	565.2	564.4	564.2	562.0	565.6	567.3	561.7	562.8	563.0	563.8
57	0		564.4	565.2	563.8	564.2	563.0	565.6	567.0	560.9	563.0	563.0	565.0
Thermometer			66.0	66.2	66.2	66.0	65.4	65.2	65.0	64.7	64.5	64.2	63.5
			One Scale Division = .000062 part of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		89.9	89.9	90.7	91.3	90.2	87.9	88.9	88.7	87.9	90.0	90.3
8	0		89.9	90.7	90.7	91.4	90.2	87.9	88.9	88.7	87.9	90.3	90.5
13	0		90.2	90.2	90.7	91.7	89.9	87.9	88.9	88.4	89.1	90.3	90.5
18	0		90.5	90.2	90.7	91.2	89.9	87.9	89.1	88.4	89.1	90.3	90.3
23	0		90.1	90.2	90.2	91.2	89.8	87.9	89.1	88.4	89.1	89.9	90.3
28	0		90.1	90.2	90.3	91.2	89.6	87.9	89.1	88.4	89.1	89.9	89.8
33	0		89.5	90.7	90.3	91.2	88.5	87.9	89.1	88.4	89.1	89.9	89.8
38	0		89.5	90.7	91.7	91.2	88.5	87.9	89.1	88.5	88.8	90.2	89.8
43	0		90.7	90.7	91.4	91.6	88.5	87.9	88.6	88.5	89.7	90.4	89.8
48	0		89.3	90.7	91.4	92.3	87.9	87.8	88.6	88.5	89.7	90.4	90.0
53	0		90.2	90.7	91.4	92.5	87.9	88.9	88.7	87.9	90.0	90.5	90.0
58	0		89.9	90.7	91.4	90.2	87.9	88.9	88.7	87.9	90.0	90.1	90.0
Thermometer			64.8	65.0	65.2	64.8	65.6	66.4	66.3	65.6	65.6	64.9	64.6
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
18	10	0	29.786	66.7	60.4	S. by W.	Very light.	Overcast with light cir.-cum., cir.-strat. and haze. [spaces.]					
	11	0	29.771	64.5	58.2	S. by W.	Light.	Generally overcast with light cir.-cum., cir.-strat. and haze; clear					
	12	0	29.769	61.3	56.3	S. W. by S.	Very light.	Generally overcast with light cir.-cum., cir.-strat. and haze; clear					
	13	0	29.772	58.8	55.3	W. S. W.	Very light.	Overcast with light cir.-cum., cir.-strat. and haze. [spaces.]					
	14	0	29.778	56.8	53.7	W. by S.	Very light.	Overcast with light cir.-cum., cir.-strat. and haze.					
	15	0	29.794	58.2	52.8	W.	Very light.	Clear in N. horizon; remainder overcast; cir.-cum., cir.-strat. and haze.					
	16	0	29.794	56.8	52.2	—	Calm.	Clear in N.W.; remainder overcast; cir.-strat. and cir.					
	17	0	29.791	54.6	51.2	—	Calm.	Overcast cir.-strat. and haze; clear spaces in N.					
	18	0	29.793	55.3	50.6	N. W. by N.	Very light.	Generally overcast; cir.-strat. and haze. [about 30°.]					
	19	0	29.806	54.7	49.6	—	Calm.	Generally overcast cir.-strat.; imperfect halo round the moon, diameter					
	20	0	29.807	49.4	47.0	—	Calm.	Clear and unclouded.					
	21	0	29.807	48.7	47.0	—	Calm.	Cir. and cir.-cum. in W. and N.; remainder clear.					

MAGNETICAL OBSERVATIONS.												
June 18th and 19th.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
117.0	119.0	123.0	124.7	125.4	125.4	122.0	118.8	112.5	108.9	108.2	108.5	110.0
116.4	119.3	122.0	124.8	125.4	125.3	121.0	118.0	112.2	108.8	108.0	108.8	110.2
117.8	120.0	122.2	125.0	125.8	125.4	120.8	117.6	112.0	108.8	108.0	109.0	110.2
117.6	120.7	122.4	125.0	126.1	124.2	120.6	117.0	111.4	108.8	108.0	108.6	110.4
117.3	121.0	123.2	125.0	126.0	122.5	119.8	116.4	111.1	108.9	108.0	108.4	110.0
119.3	121.0	124.0	125.2	126.3	123.1	118.2	116.2	110.9	108.7	108.0	108.8	110.0
119.0	121.0	123.2	125.0	126.3	123.6	120.0	115.9	110.7	108.2	108.2	108.8	111.2
118.0	121.0	123.0	125.0	126.6	123.4	120.3	115.1	110.1	108.3	108.4	109.0	111.7
117.2	121.0	123.8	125.0	126.6	123.2	119.9	114.7	109.7	108.0	108.2	109.0	112.0
116.6	121.2	122.6	125.3	126.2	123.0	120.0	114.0	109.2	107.8	108.4	109.0	112.0
117.0	121.5	124.0	125.7	126.8	122.8	119.0	113.1	109.0	108.0	108.1	109.2	112.4
118.0	121.3	124.0	125.5	125.4	122.6	119.0	112.9	109.0	108.0	108.7	109.8	113.0
HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .000234.												
566.0	566.0	568.0	567.3	573.0	569.2	562.4	557.0	553.8	555.0	565.4	573.0	570.6
565.5	566.0	567.4	570.0	572.4	569.2	561.2	556.8	553.2	555.2	564.0	573.8	572.7
566.5	565.0	569.0	571.0	571.9	568.6	559.1	555.4	553.8	556.0	565.5	572.3	572.5
568.0	565.4	568.6	571.2	572.1	569.7	558.0	555.3	554.0	557.2	565.8	571.0	574.6
565.3	565.0	569.5	571.0	570.8	567.4	559.8	555.2	554.0	557.8	566.5	571.5	572.6
564.0	566.8	569.0	572.4	571.2	565.6	558.0	555.5	555.0	558.9	567.8	570.7	570.7
563.9	566.6	568.4	572.4	571.0	565.8	557.0	556.0	554.8	559.8	570.0	570.0	571.4
565.0	568.0	568.0	573.0	569.8	565.8	557.2	555.4	554.0	561.0	570.7	568.8	571.0
567.0	567.2	568.4	572.6	571.2	565.0	557.5	555.2	554.0	562.0	572.3	568.6	570.8
567.0	567.8	568.4	573.0	570.0	564.2	557.8	554.0	553.3	561.0	573.5	570.4	570.0
567.0	566.0	568.6	572.6	570.4	562.5	557.7	554.0	553.8	562.3	574.0	570.8	570.2
567.0	565.8	568.0	572.7	570.6	563.0	557.1	553.8	554.2	564.0	573.0	571.0	571.5
63.2	62.7	62.3	62.6	63.0	63.5	65.2	65.0	65.5	66.0	66.5	66.8	67.7
VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
91.0	93.0	93.7	93.9	94.3	92.3	90.9	89.2	88.2	87.4	87.1	86.4	87.7
91.0	93.0	93.8	93.1	93.6	92.3	90.3	89.2	87.8	87.2	86.9	88.1	87.7
91.7	93.1	93.6	93.2	92.4	92.8	90.1	89.2	87.8	87.1	86.9	88.0	87.9
91.9	93.1	93.7	93.2	92.4	92.8	90.1	89.0	87.8	87.1	87.0	88.2	88.8
91.3	93.1	95.0	93.2	92.3	92.8	90.1	88.8	87.7	86.6	87.0	88.2	88.6
91.8	93.8	94.1	93.8	92.3	91.8	89.8	88.8	87.7	86.6	88.4	88.1	88.6
92.1	93.8	94.2	93.8	92.3	91.8	89.7	88.8	87.7	86.6	87.3	88.1	88.5
92.8	93.3	94.2	93.8	92.1	91.8	89.7	88.4	87.7	86.5	88.8	88.1	88.4
93.0	93.6	93.9	93.9	93.1	91.8	89.4	88.4	87.2	86.5	87.3	88.1	88.4
93.0	93.7	93.9	93.5	92.3	91.8	89.6	88.2	87.4	86.5	87.4	88.0	87.4
92.7	93.7	93.9	93.5	92.3	91.2	89.7	88.2	87.4	86.6	87.4	88.1	89.0
93.0	93.7	93.9	93.3	92.4	91.2	89.3	88.2	87.4	87.1	86.2	88.1	87.9
64.1	63.6	62.7	62.4	63.6	63.6	63.8	64.6	64.8	65.1	65.6	66.1	67.0

\* At 19<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 68°·0; of V. F. 67°·6.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
18	22	0	29.809	46.7	45.7	—	Calm.	Cir.-cum. and haze general; a few clear spaces.				
	23	0	29.826	46.2	45.0	—	Calm.	Cir.-cum. and cir.-strat. floating about.				
19	0	0	29.838	53.3	50.4	—	Calm.	Cir.-cum. and cir.-strat. round horizon; remainder clear.				
	1	0	29.848	56.8	53.1	—	Calm.	Unclouded, save range of cir.-strat. in S. horizon.				
	2	0	29.859	62.5	58.1	S. W.	Very light.	Clear except light cir.-strat. and haze round horizon.				
	3	0	29.858	64.4	59.2	S. W. by S.	Very light.	A few cir.-strat. in N. horizon; remainder clear.				
	4	0	29.870	66.6	61.1	S. W. by S.	Very light.	Light cir.-cum. scattered round horizon; zenith clear.				
	5	0	29.875	67.6	62.2	S. W. by S.	Very light.	A few cir.-cum. dispersed round horizon.				
	6	0	29.868	68.4	61.7	S. S. W.	Very light.	Cir.-cum. dispersed round horizon.				
	7	0	29.857	69.4	61.6	S. S. W.	Very light.	Unclouded; hazy round horizon.				
	8	0	29.849	70.0	61.3	S. S. W.	Very light.	Clear and unclouded.				
	9	0	29.855	71.2	62.3	S. by W.	Very light.	Unclouded.				



July 23rd and 24th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0.721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	
0	0		108.6	112.4	115.8	117.4	115.8	116.0	121.8	119.7	124.2	120.0	114.6
5	0		108.6	112.9	115.5	117.0	115.3	116.2	123.8	120.7	128.2	119.0	114.8
10	0		109.0	113.0	115.6	117.0	115.6	116.0	125.0	118.0	130.6	118.1	115.2
15	0		110.0	114.4	116.0	117.2	116.0	116.0	125.2	115.1	132.2	117.2	115.1
20	0		110.2	113.1	116.4	116.8	115.8	116.2	124.9	115.8	132.0	116.0	115.0
25	0		110.2	113.4	116.6	116.4	115.7	116.5	122.9	114.2	129.1	115.0	115.0
30	0		110.7	114.2	116.9	116.0	115.2	116.6	121.2	112.0	126.2	114.7	115.0
35	0		111.0	114.8	117.2	116.1	115.2	117.0	121.3	111.9	124.0	114.7	115.0
40	0		111.2	115.0	117.0	116.2	115.0	117.4	120.8	111.3	122.3	114.0	115.0
45	0		111.8	115.3	117.6	116.3	115.0	118.5	120.3	114.1	121.5	114.0	115.0
50	0		112.1	115.4	117.9	117.0	116.0	119.0	120.0	116.2	120.6	114.1	114.8
55	0		112.0	115.7	117.8	116.5	116.0	119.3	119.5	118.9	120.8	115.2	114.8
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		553.0	554.2	549.7	552.0	555.0	560.0	543.1	547.2	544.3	550.6	557.0
7	0		550.2	551.4	548.7	551.5	554.8	558.0	541.2	548.0	546.9	551.2	556.0
12	0		549.6	551.9	546.6	553.0	556.1	557.1	539.0	548.0	550.0	554.0	555.9
17	0		551.1	550.3	544.7	555.0	556.2	558.3	538.7	548.2	551.1	555.0	556.0
22	0		552.0	550.8	544.5	554.0	556.7	558.2	539.8	545.0	554.0	555.0	556.0
27	0		553.0	550.6	544.6	553.6	557.0	558.2	541.1	544.0	554.2	555.0	556.0
32	0		552.6	552.6	546.7	554.4	557.0	558.0	542.0	540.8	557.0	555.0	556.0
37	0		548.5	554.3	546.8	554.1	557.0	558.0	543.0	539.1	554.7	557.0	555.0
42	0		551.3	553.2	546.8	554.0	556.1	556.6	545.1	540.2	552.2	557.0	554.0
47	0		551.7	554.0	548.8	555.0	557.0	556.4	546.5	541.9	552.0	555.2	555.0
52	0		552.8	552.2	548.7	556.7	559.6	555.0	546.0	543.1	548.8	554.5	556.0
57	0		553.0	550.9	551.5	556.0	560.0	547.3	546.9	541.9	549.0	556.4	556.0
Thermometer			72.6	72.4	72.3	73.0	71.5	71.2	70.8	71.0	70.5	70.5	70.2
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		70.0	71.8	71.5	71.7	62.8	61.6	63.6	65.6	50.7	62.6	62.4
8	0		70.0	71.8	70.8	71.4	62.8	60.7	64.0	64.8	52.4	63.8	62.0
13	0		69.9	71.2	70.8	70.8	62.5	60.7	64.2	63.0	53.8	63.8	62.0
18	0		71.4	72.3	70.8	71.0	62.0	61.5	65.7	60.5	54.1	63.8	62.0
23	0		71.4	72.3	70.8	70.2	61.5	61.5	65.7	56.5	54.8	63.2	62.0
28	0		71.4	71.8	70.8	70.2	61.5	61.5	66.5	54.2	55.6	63.2	62.0
33	0		71.4	71.8	70.8	69.1	61.5	61.5	66.2	51.9	55.4	62.7	62.0
38	0		71.1	71.8	70.8	66.9	61.4	61.5	66.3	51.3	57.4	62.7	62.0
43	0		71.8	71.8	70.8	66.1	61.4	62.0	66.3	51.2	57.7	62.7	62.0
48	0		71.8	71.5	70.8	66.8	61.4	61.8	66.3	50.4	57.7	62.1	62.2
53	0		71.8	71.2	70.8	64.1	61.4	66.1	66.0	50.0	60.2	61.8	62.5
58	0		71.8	71.1	70.8	63.7	61.2	64.0	66.0	50.0	60.2	62.4	62.7
Thermometer			71.3	71.5	71.5	70.5	72.9	73.5	72.5	71.5	71.5	71.5	72.5
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
23	10	0	29.579	66.7	60.7	N. N. W.	Moderate.	Light cir.-strat. scattered about.					
	11	0	29.595	67.7	57.0	N. N. W.	Brisk.	Light cir.; haze round horizon.					
	12	0	29.599	67.1	54.8	N. N. W.	Moderate.	Light cir.-cum. in W. and N. W.; cir. and haze round horizon; [zenith clear.					
	13	0	29.603	65.3	56.6	—	Calm.	Cir.-cum. and cir.-strat. generally dispersed.					
	14	0	29.605	63.3	55.2	—	Calm.	Overcast; cum.-strat. and cir.-cum.					
	15	0	29.622	62.9	59.0	N. W.	Light.	Overcast; cum.-strat. and cir.-cum.					
	16	0	29.622	61.2	54.2	—	Calm.	Densely clouded; cum.-strat. and cir.-cum.					
	17	0	29.614	59.4	54.1	—	Calm.	Generally overcast; cum.-strat. and cir.-cum.					
	18	0	29.608	56.3	53.2	—	Calm.	Generally overcast; cum. strat. and cir.-cum.					
	19	0	29.604	58.3	51.7	—	Calm.	Densely clouded; cum.-strat., cir.-cum., and haze.					
	20	0	29.605	57.0	52.2	—	Calm.	Clouded; cir.-cum. and haze.					
	21	0	29.585	58.3	52.2	—	Calm.	Clouded; cir.-cum. and haze.					

MAGNETICAL OBSERVATIONS.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
114.3	114.8	116.0	119.0	120.4	120.4	122.0	117.0	109.7	108.0	106.1	106.7	109.4
115.0	114.7	116.4	119.0	120.9	121.0	122.2	117.0	109.2	107.0	106.2	107.1	111.0
115.0	114.8	117.0	119.0	121.6	121.0	122.2	116.2	108.7	106.2	105.8	107.3	111.2
115.0	115.0	117.2	119.8	122.2	120.8	121.9	115.3	107.8	105.9	106.8	107.2	112.0
114.2	115.2	118.0	119.8	122.4	121.0	121.8	114.1	107.0	106.2	107.0	107.0	112.7
114.7	115.3	118.0	120.7	122.9	121.4	121.4	113.5	106.8	106.6	107.6	106.8	112.0
115.0	115.7	118.0	120.0	123.3	121.4	120.2	113.0	106.8	107.2	108.0	106.4	111.2
115.2	116.0	117.2	119.3	123.2	121.8	119.0	111.6	106.3	107.2	107.6	107.4	110.2
115.0	116.0	117.7	121.0	122.0	122.0	119.0	109.7	106.2	108.0	106.6	108.0	111.4
115.0	116.5	118.0	121.4	121.6	122.0	118.3	108.3	106.9	107.0	106.0	107.2	111.2
115.0	118.0	118.0	121.2	121.0	122.0	118.0	109.0	107.0	107.0	106.8	108.4	113.0
115.0	117.8	118.0	122.4	120.3	122.0	117.2	109.2	108.0	106.3	107.0	108.8	112.4

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .000234.												
556.0	558.0	562.0	555.7	552.2	549.8	543.8	525.2	535.8	553.8	556.0	566.0	566.0
556.0	558.0	561.8	557.0	554.2	551.2	542.5	526.0	537.0	554.1	557.0	566.7	566.0
556.0	558.2	561.7	556.5	554.5	551.7	541.2	527.0	538.7	554.5	560.0	567.0	564.0
558.0	558.0	561.4	558.0	553.8	553.8	539.9	529.1	541.9	555.6	561.0	566.0	569.8
557.8	557.8	561.0	557.6	553.9	552.5	538.9	530.8	541.0	558.4	561.8	566.0	569.5
557.0	556.8	560.8	556.0	551.3	552.2	538.2	531.7	542.0	559.0	561.6	566.9	572.3
556.1	558.0	557.8	555.8	548.9	553.7	536.2	532.5	545.2	561.2	562.5	566.9	572.3
558.0	557.8	558.0	555.9	549.0	548.9	531.2	533.7	548.9	560.8	562.7	566.8	573.6
558.0	560.2	558.0	556.8	547.9	547.8	532.0	535.1	548.4	561.0	564.0	566.0	573.0
558.0	560.0	558.7	556.0	549.4	547.2	531.0	534.0	549.0	558.0	566.9	562.0	565.8
558.0	560.2	558.0	553.7	549.0	546.0	528.8	534.0	550.5	557.0	567.3	561.8	567.3
558.0	560.8	558.4	554.4	549.2	545.3	525.4	534.7	551.0	556.0	565.9	561.6	570.8
70.0	69.5	69.2	69.2	68.5	68.0	67.8	68.0	68.0	68.2	68.6	69.0	70.0*

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
62.7	66.3	68.0	67.6	70.1	74.1	74.7	73.8	75.1	74.4	77.7	80.2	80.1
62.7	66.3	67.5	68.0	71.6	74.4	76.0	73.3	75.2	74.4	77.5	80.5	80.2
62.8	66.3	67.3	68.0	72.3	74.4	75.1	73.4	75.2	75.5	77.5	80.5	79.6
62.8	66.3	66.7	68.2	72.8	74.4	75.1	73.8	76.1	75.5	77.5	80.5	79.6
63.4	66.3	66.4	69.3	71.9	74.4	75.1	75.4	74.8	75.9	78.0	80.5	80.9
63.4	66.3	66.4	70.1	71.9	74.4	75.0	75.8	74.8	75.9	78.0	80.5	81.7
64.3	66.3	66.9	70.9	74.0	74.2	75.0	75.8	74.3	78.2	78.0	80.5	81.7
65.1	66.3	66.9	70.9	74.0	74.6	73.9	75.3	74.5	77.2	79.0	80.5	82.0
65.7	66.3	66.9	70.9	74.6	74.6	73.7	75.9	74.5	77.2	78.9	80.1	82.0
65.7	66.3	66.9	72.0	74.0	75.1	73.7	74.3	74.1	77.2	80.1	80.1	81.7
66.3	66.3	67.1	71.8	74.0	75.3	73.4	75.1	74.3	77.2	80.1	80.1	83.3
66.7	67.1	67.1	70.1	74.0	75.3	74.3	75.1	76.2	77.2	79.9	80.1	84.4
72.5	71.6	71.1	71.0	68.8	68.5	68.2	68.3	68.1	68.1	68.6	68.7	69.3*

\* At 24<sup>h</sup> 10<sup>h</sup> Thermometer of H. F. 70°.6; of V. F. 69°.5.

METEOROLOGICAL OBSERVATIONS.							
Mean Göttingen Time.			Thermometers.		Wind.		Weather.
			Dry.	Wet.	Direction.	Force.	
D.	H.	M.	In.	°	°		
23	22	0	29.592	57.8	52.9	—	Calm.
	23	0	29.605	57.4	52.2	—	Calm.
24	0	0	29.611	57.8	51.2	—	Calm.
	1	0	29.619	57.3	54.2	—	Calm.
	2	0	29.615	57.6	54.4	—	Calm.
	3	0	29.620	58.2	53.7	—	Calm.
	4	0	29.638	59.8	55.2	—	Calm.
	5	0	29.628	60.1	55.2	—	Light.
	6	0	29.613	62.9	56.1	N. N. W.	Moderate.
	7	0	29.583	66.4	57.5	N. W.	Moderate.
	8	0	29.573	68.4	59.1	N. N. W.	Moderate.
	9	0	29.568	70.2	59.5	N.	Moderate.

August 29th and 30th.			MAGNETICAL OBSERVATIONS.									
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.				
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		99.0	109.8	114.0	124.8	109.1	123.7	118.0	119.0	122.0	105.0
5	0		100.0	109.4	116.8	124.1	112.0	120.4	118.8	112.3	124.8	102.0
10	0		99.0	108.6	124.0	122.3	113.0	119.9	120.9	111.2	125.0	96.0
15	0		96.0	110.3	130.8	122.2	111.5	122.6	126.4	110.2	126.0	89.0
20	0		108.3	111.2	134.9	125.4	109.1	124.9	128.5	113.4	121.2	82.7
25	0		119.1	110.8	133.8	125.1	110.2	124.0	127.0	115.2	112.0	81.5
30	0		124.0	111.2	129.2	119.7	112.8	112.8	124.0	117.8	108.0	85.5
35	0		119.5	110.3	129.1	115.3	115.1	106.0	124.8	118.0	108.4	89.6
40	0		116.3	112.0	129.2	116.1	117.6	106.1	126.7	119.8	109.0	95.4
45	0		112.0	112.8	127.9	116.7	115.7	111.7	125.0	117.0	111.0	98.6
50	0		109.1	113.8	125.6	115.0	117.0	113.0	119.0	117.0	111.4	104.4
55	0		110.6	114.5	124.2	113.8	121.2	116.0	115.0	118.2	109.5	107.4
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.				
M.	S.											
2	0		420.0	444.3	466.5	461.0	470.5	461.5	462.5	450.0	464.8	461.0
7	0		417.7	440.4	467.1	455.7	470.0	465.0	462.0	450.6	463.8	460.4
12	0		444.6	443.9	462.9	469.0	465.5	467.0	465.0	444.0	461.8	471.2
17	0		447.9	445.8	457.8	472.3	465.0	460.0	461.0	443.5	461.6	478.2
22	0		461.1	445.8	455.2	467.9	468.0	450.0	458.3	445.6	467.3	488.7
27	0		462.6	441.9	451.8	463.8	468.5	441.0	456.3	446.8	466.0	505.6
32	0		446.2	446.0	460.2	463.0	466.5	443.8	456.0	446.0	466.4	509.4
37	0		438.3	449.9	461.0	468.6	465.0	455.8	455.2	445.6	464.0	508.0
42	0		436.5	450.0	463.2	470.0	461.0	459.8	453.9	452.8	457.0	503.7
47	0		438.2	450.8	461.3	468.0	460.0	460.0	450.2	453.4	458.6	498.0
52	0		441.6	459.0	456.8	467.5	465.0	460.0	450.6	456.0	454.0	494.1
57	0		443.8	462.1	463.5	464.0	465.0	462.5	452.0	461.6	455.8	487.4
Thermometer			73.8	74.5	74.8	74.9	75.0	74.6	74.6	74.6	74.0	73.8
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.				
M.	S.											
3	0		173.0	145.5	142.5	136.2	135.8	122.4	123.4	113.6	105.9	106.0
8	0		170.7	145.5	142.5	135.4	135.8	122.2	123.4	113.8	106.7	105.6
13	0		174.1	145.1	142.6	135.8	134.0	125.7	123.8	118.5	106.7	104.6
18	0		171.6	144.7	142.6	137.1	134.0	126.4	123.8	118.5	106.7	85.1
23	0		162.6	144.3	142.6	138.2	134.5	124.5	121.3	119.2	106.7	82.1
28	0		156.2	144.3	138.8	138.2	134.5	118.7	121.0	119.2	104.5	74.1
33	0		157.9	143.5	139.1	138.9	133.4	116.1	118.4	119.2	104.7	70.7
38	0		151.2	143.5	138.9	139.5	132.4	116.1	114.6	120.2	104.7	68.4
43	0		150.0	142.9	136.6	138.9	130.3	118.9	114.2	116.6	111.6	69.2
48	0		149.0	142.9	138.1	138.1	128.4	120.9	111.8	116.2	113.6	70.9
53	0		147.6	142.5	137.7	137.0	128.0	122.7	111.4	112.8	113.6	71.7
58	0		145.5	142.5	137.7	137.0	126.6	123.4	108.5	112.8	113.6	78.1
Thermometer			72.5	73.1	73.3	74.7	75.4	75.5	75.5	75.3	74.1	74.1

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°						
29	10	0	29.535	77.4	71.6	S. by E.	Very light.	Cum.-strat., cir.-cum., and haze; clouded.			
	11	0	29.517	75.5	70.9	S. by W.	Very light.	Densely clouded; cum.-strat., cir.-cum., and haze.			
	12	0	29.514	74.4	70.0	S. by W.	Very light.	Densely clouded; cum.-strat., cir.-cum., and haze.			
	13	0	29.512	73.2	69.0	—	Calm.	Densely clouded; cum.-strat., cir.-cum., and haze.			
	14	0	29.506	73.0	68.5	S. by W.	Very light.	Densely clouded; cum.-strat., cir.-cum., and haze; constant sheet lightning in S. W. and W.; began to rain at 45 minutes.			
	15	0	29.533	70.5	66.9	N. W.	Very light.	Densely clouded; very dark; raining constantly; heavy at intervals; lightning and occasional thunder.			
	16	0	29.494	68.7	67.0	S. by W.	Very light.	Densely clouded; constant rain; heavy at intervals; sheet lightning and distant thunder in N.			
	17	0	29.494	69.1	67.7	S. W.	Brisk.	Densely clouded; very dark; raining moderately and constantly; lightning and distant thunder in N. W.			
	18	0	29.490	68.9	67.5	S. W.	Brisk.	Densely clouded; very dark; raining moderately and constantly; occasional lightning and distant thunder.			
	19	0	29.486	68.7	67.1	S. W.	Moderate.	Densely clouded; very dark; constant moderate rain.			

MAGNETICAL OBSERVATIONS.												
August 29th and 30th.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
131.8	108.0	119.0	126.6	122.0	120.6	115.0	108.2	107.8	102.2	99.6	103.2	107.2
121.5	108.2	118.1	126.8	122.3	117.7	114.0	108.4	106.0	107.4	98.3	103.3	107.4
117.9	108.6	118.0	124.6	123.7	115.1	113.1	108.4	106.0	108.4	99.1	104.1	108.2
98.8	112.0	121.0	126.0	123.8	115.3	113.0	109.3	107.0	102.8	101.0	104.4	108.0
89.2	112.2	123.2	126.4	123.1	116.0	112.0	109.3	105.2	101.7	102.2	105.0	107.7
89.3	114.8	122.0	126.0	123.8	117.3	112.0	108.9	104.0	101.2	100.8	105.5	108.2
91.8	117.0	123.7	126.5	122.2	116.9	111.3	108.0	108.0	100.2	101.6	105.8	108.0
94.0	117.8	124.6	124.6	121.8	116.2	111.5	108.0	102.2	99.4	102.4	105.9	108.3
95.8	120.2	124.0	124.0	123.0	116.0	112.0	108.0	100.4	99.0	103.0	106.1	108.0
97.1	119.4	125.0	123.0	122.8	115.0	111.0	107.0	103.0	98.6	103.0	106.8	110.5
101.4	118.8	124.0	122.3	122.3	114.9	110.3	107.2	102.2	98.5	103.0	107.4	112.4
104.0	120.0	121.6	122.2	121.7	114.0	109.8	107.0	102.8	98.2	102.9	107.1	112.3

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .000234.												
490.4	454.0	441.0	442.0	454.8	461.2	466.1	470.5	464.4	456.8	461.3	442.6	439.1
499.3	458.8	440.0	437.6	456.5	462.0	466.5	471.5	466.4	458.3	464.8	439.0	435.6
507.9	454.3	440.4	444.6	450.6	465.6	465.5	471.5	465.4	455.0	462.4	439.3	440.9
515.5	453.6	443.0	444.0	453.8	465.3	466.8	468.5	465.6	453.0	456.9	438.7	440.4
509.4	453.6	440.8	441.8	454.5	463.0	466.5	467.5	465.6	457.5	452.9	440.0	441.7
497.4	453.6	441.6	449.0	454.6	463.5	466.6	463.0	466.0	462.2	456.9	441.4	442.2
501.7	453.4	443.2	449.6	457.6	462.0	469.0	466.0	459.7	461.0	455.4	439.9	441.1
486.4	449.6	438.6	448.7	458.0	462.5	469.4	468.3	464.6	462.7	451.5	437.4	440.9
484.2	449.0	439.4	452.4	457.0	464.0	470.5	467.0	465.0	461.8	448.2	436.3	445.3
474.8	443.7	440.0	453.8	461.0	462.0	470.5	466.4	463.6	463.3	446.9	436.0	444.0
470.8	444.0	439.6	454.8	463.5	462.0	470.5	467.5	463.0	463.3	445.5	433.4	440.9
461.6	443.7	438.6	453.0	463.5	464.0	469.5	465.8	459.8	462.8	442.6	444.8	440.4
73.8	73.6	73.3	73.2	73.2	73.0	73.0	73.1	73.7	74.2	75.2	75.2	76.0 <sup>a</sup>

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah. = .00007.												
80.2	95.0	120.7	123.2	128.6	129.5	128.9	130.3	131.1	130.8	132.4	133.8	133.8
79.7	97.5	120.7	123.2	130.5	129.5	129.3	130.3	131.1	129.9	132.4	133.8	134.3
76.2	101.2	120.7	123.2	130.5	129.2	129.6	130.3	131.4	131.0	131.8	133.8	133.8
77.0	106.0	120.7	123.8	130.6	124.0	129.1	130.9	131.4	131.0	131.8	136.8	134.2
80.9	111.3	120.8	123.8	130.1	129.0	129.1	130.9	131.5	130.0	134.1	133.6	137.0
85.3	111.6	120.8	125.4	130.1	129.0	129.6	130.9	131.2	129.3	134.1	133.6	134.5
83.6	112.4	121.0	123.3	129.0	129.5	128.9	130.9	130.2	129.3	133.2	132.8	134.6
89.3	114.7	121.2	123.6	128.5	129.5	128.9	128.7	130.2	131.3	132.8	133.6	134.6
87.2	114.6	122.1	126.6	128.5	129.0	129.4	128.7	130.2	131.6	133.1	133.9	134.5
88.3	118.0	122.1	127.6	128.5	129.0	129.9	131.4	129.2	131.2	134.1	133.9	134.3
89.4	117.6	123.2	128.6	128.5	129.9	130.3	131.4	129.2	130.8	133.8	137.8	134.3
92.8	118.0	123.2	128.6	128.5	128.9	130.6	131.1	126.1	129.9	133.8	134.4	134.3
74.1	74.1	73.8	73.7	73.2	72.7	72.6	73.0	73.3	73.5	73.9	74.3	75.0 <sup>a</sup>

<sup>a</sup> At 30<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 76°·3; of V. F. 75°·5.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
29	20	0	29.470	66.7	65.1	W S. W.	Light.	Densely clouded; cir.-cum. and cum.-strat.; showery.				
	21	0	29.460	66.1	64.9	—	Calm.	Densely clouded; showery.				
	22	0	29.454	66.1	65.1	—	Calm.	Densely overcast; showery.				
	23	0	29.457	66.4	65.3	—	Calm.	Densely overcast; cir.-cum. and cum.-strat.				
30	0	0	29.461	66.9	65.7	—	Calm.	Densely overcast; cir.-cum. and cum.-strat.				
	1	0	29.467	67.5	66.3	—	Calm.	Densely clouded; cum.-strat., cir.-cum., and haze.				
	2	0	29.479	67.1	66.3	—	Calm.	Densely clouded; cir.-cum. and haze.				
	3	0	29.486	69.3	67.4	N. W.	Very light.	Clouded; dense cir.-cum. and haze.				
	4	0	29.484	72.0	67.5	N. W.	Very light.	Clouded; cir.-cum. and cum.; sun breaking through.				
	5	0	29.472	73.0	65.3	N. N. W.	Very light.	Clouded; cir.-cum. and cum., with clear spaces.				
	6	0	29.480	74.5	65.7	N. W.	Very light.	Cir.-cum. generally dispersed.				
	7	0	29.471	75.6	65.9	N. N. W.	Very light.	Detached cir.-cum. and cum.-strat. scattered about.				
	8	0	29.468	76.7	65.7	N. by W.	Very light.	Detached cir.-cum. and cum.-strat. scattered about.				
	9	0	29.413	77.7	66.5	N. by W.	Very light.	Detached cir.-cum. and cum.-strat.; clear spaces.				

September 24th and 25th.			MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.					
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		110.0	112.4	113.0	110.2	113.2	109.5	117.0	126.5	128.0	126.3	107.1
5	0		111.8	113.0	113.3	110.2	112.5	109.2	117.2	122.0	131.2	131.4	108.1
10	0		112.0	112.8	114.0	111.2	110.6	113.8	115.4	121.8	131.7	136.7	107.3
15	0		112.2	112.7	113.2	112.7	109.1	123.4	112.9	121.0	128.7	135.9	107.4
20	0		112.0	112.4	113.0	113.6	107.6	122.2	112.5	122.0	125.1	131.6	102.5
25	0		112.0	112.7	113.0	113.4	109.2	120.4	115.0	121.2	122.0	132.1	101.1
30	0		112.2	112.4	112.3	112.0	114.1	119.0	116.7	119.0	120.7	138.5	92.2
35	0		112.0	113.0	111.4	112.1	114.5	115.4	120.0	117.4	118.2	138.8	83.5
40	0		112.0	112.0	110.8	110.8	108.0	115.0	122.0	117.8	120.9	136.6	88.4
45	0		112.8	112.2	110.6	111.2	105.6	113.8	122.2	116.7	123.3	124.1	90.1
50	0		112.4	111.8	110.0	112.9	104.8	114.2	125.0	115.1	125.2	112.5	93.2
55	0		112.8	112.0	109.4	113.6	106.2	117.6	127.2	122.3	125.6	112.3	98.7
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.												
2	0		400.8	407.2	409.8	418.8	429.0	448.6	450.3	459.8	462.3	470.4	532.1
7	0		402.2	410.0	408.8	421.3	429.8	444.8	450.0	461.0	456.6	465.9	534.7
12	0		400.8	412.8	403.7	422.8	430.8	446.3	446.7	463.6	452.1	463.4	530.2
17	0		401.0	408.8	405.0	422.2	431.8	449.2	446.0	462.6	455.3	472.9	528.6
22	0		397.8	409.0	407.8	423.2	432.5	445.8	438.2	465.8	458.0	484.1	513.6
27	0		401.8	409.4	408.0	425.0	433.0	445.0	443.6	463.3	463.8	467.7	482.0
32	0		400.0	403.6	407.5	428.2	432.8	446.1	446.4	465.3	470.8	467.6	483.5
37	0		400.0	405.0	412.3	428.4	425.6	452.1	447.3	465.3	470.1	477.0	484.4
42	0		411.6	407.8	413.8	429.6	424.8	451.2	448.5	464.0	465.2	492.5	484.8
47	0		410.0	410.0	415.2	428.6	432.2	450.6	446.1	457.7	474.1	506.3	483.6
52	0		417.4	409.8	416.8	426.6	432.8	452.4	448.2	467.8	468.2	504.3	484.0
57	0		409.7	409.7	416.0	427.8	442.4	454.8	462.8	466.0	469.9	503.0	497.9
Thermometer			58.0	58.0	58.0	58.0	58.2	58.2	58.4	58.3	58.1	58.0	57.6
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.					
M.	S.												
3	0		159.4	157.8	158.2	156.3	157.1	164.1	163.5	151.7	152.6	136.8	104.8
8	0		159.2	158.3	158.2	155.3	157.1	166.7	163.5	151.7	150.9	139.3	104.8
13	0		159.2	158.3	159.7	155.3	157.7	164.9	163.5	154.2	149.3	139.3	109.3
18	0		159.2	157.8	158.9	155.3	160.8	163.8	163.5	157.1	149.3	134.3	109.3
23	0		159.3	157.8	156.7	155.3	162.6	164.6	165.3	155.9	150.1	137.8	112.8
28	0		159.3	159.0	155.6	155.3	162.6	164.6	163.1	154.0	147.6	149.4	118.0
33	0		159.3	159.0	155.6	156.2	164.1	164.6	162.7	151.0	145.8	151.1	114.7
38	0		158.6	158.3	155.9	157.1	164.1	163.9	162.5	149.5	149.5	135.2	109.7
43	0		157.8	158.3	155.1	157.1	164.1	163.9	159.3	150.5	146.8	124.1	119.1
48	0		157.8	158.3	155.1	157.1	164.1	163.9	156.8	152.5	142.4	121.9	114.0
53	0		157.9	158.6	155.1	157.1	164.1	163.9	154.9	150.9	139.4	121.9	115.8
58	0		157.9	158.2	155.1	157.1	164.1	164.2	151.0	152.6	135.5	114.8	113.5
Thermometer			57.6	57.5	57.1	58.3	59.2	59.2	59.4	60.8	60.9	60.4	59.6
Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.													
METEOROLOGICAL OBSERVATIONS.													
Mean Göttingen Time.			Barometer at 32.5.	Thermometers.		Wind.		Weather.					
				Dry.	Wet.	Direction.	Force.						
D.	H.	M.	In.	°	°								
24	10	0	29.733	51.5	48.3	N. W.	Very light.	Overcast with dense cir.-cum. and haze.					
	11	0	29.751	51.2	47.5	N. W.	Very light.	Overcast with dense cir.-cum. and haze.					
	12	0	29.755	50.0	47.5	N. W.	Very light.	Overcast with dense cir.-cum. and haze.					
	13	0	29.773	47.5	46.2	W. N. W.	Very light.	Generally overcast; cir.-cum. and haze.					
	14	0	29.785	46.9	46.1	W. N. W.	Very light.	Generally overcast; cir.-cum. clear in zenith and N. W.					
	15	0	29.787	46.1	45.7	W. N. W.	Very light.	(Clear in N. N. W. and zenith; remainder unclouded; cir.-strat. and haze; arch of auroral light in N.)					
	16	0	29.789	44.9	44.1	W. N. W.	Very light.	Generally clouded with cir.-cum.; clear spaces; auroral light in N.					
	17	0	29.777	45.7	44.2	W. by N.	Very light.	Zenith clear; cum.-strat. round horizon; auroral light in N.					
	18	0	29.777	45.7	44.4	W. by N.	Very light.	(Overcast, cir.-cum., cum.-strat., and haze; clear in N.; auroral light in N. [altitude about 45°.]					
	19	0	29.771	44.7	43.5	—	Calm.	Cir.-strat. round horizon; sheet of uniform auroral light in N.;					
	20	0	29.755	44.2	43.2	W. N. W.	Very light.	(Cir.-strat. dispersed round horizon; arch of auroral light in N.; pulsations ascending to 35°.)					

MAGNETICAL OBSERVATIONS.												
September 24th and 25th.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
100.6	116.0	126.5	117.2	114.5	84.2	99.3	105.2	112.2	91.6	100.1	107.8	109.6
109.0	116.7	123.2	116.2	108.4	86.0	101.0	106.7	110.0	90.2	100.7	107.7	109.3
109.8	117.0	122.3	118.5	102.4	87.8	103.4	107.4	110.1	88.8	101.6	107.8	110.1
114.4	117.0	120.9	118.0	97.3	89.0	106.1	107.9	112.2	90.4	102.0	107.8	110.8
117.1	120.0	118.3	119.5	88.4	91.4	105.6	107.9	104.6	96.2	102.7	108.0	110.9
121.1	120.7	117.0	118.0	85.0	91.6	102.7	108.9	102.2	94.4	103.0	108.3	110.9
120.0	119.9	116.0	120.0	84.2	93.2	105.6	109.0	101.7	94.3	104.0	108.3	110.8
123.0	123.9	116.0	120.5	80.8	97.0	105.7	109.6	101.9	95.0	104.1	108.9	111.0
121.8	126.6	115.0	122.0	80.4	99.5	106.0	110.7	101.9	95.0	105.5	108.8	111.0
121.4	128.2	116.9	118.2	78.5	99.0	107.0	112.3	98.6	96.2	105.2	109.0	110.9
118.1	130.0	117.0	119.8	76.0	98.8	106.2	112.7	97.0	97.9	107.6	109.0	111.0
118.5	127.8	117.5	116.2	78.5	101.0	104.1	111.1	94.5	98.9	107.1	109.8	111.0

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.												
492.6	425.6	420.0	414.0	443.5	454.5	410.3	424.3	441.7	455.7	422.9	414.9	419.5
487.3	421.5	420.0	414.0	448.0	443.8	413.8	424.0	444.2	453.3	423.0	412.5	420.3
486.4	422.0	419.0	414.0	447.7	430.4	416.3	423.2	447.5	452.7	424.4	415.2	418.8
472.7	425.5	415.5	416.0	462.2	424.8	419.9	422.8	449.6	450.7	425.0	413.0	418.8
469.0	421.5	414.0	412.8	467.8	419.5	417.8	424.2	449.0	442.7	422.8	415.8	417.5
465.9	421.0	413.5	417.3	472.9	419.0	423.9	422.1	448.7	445.6	422.1	416.0	414.0
448.4	423.8	413.0	413.5	470.6	420.8	426.8	425.4	448.9	441.4	425.0	418.8	414.0
431.9	423.0	412.0	421.3	467.8	415.7	426.0	427.3	446.8	435.9	419.4	415.8	417.0
426.5	423.5	414.0	422.0	465.5	416.0	425.6	430.1	449.1	432.5	420.9	408.0	416.8
420.4	424.3	413.0	430.0	463.6	415.9	422.6	432.7	453.9	430.2	419.8	406.8	420.5
420.0	421.0	413.0	437.5	473.0	413.8	419.0	434.2	456.8	428.8	418.1	409.8	421.0
418.4	420.0	413.0	447.5	465.7	410.3	421.8	437.0	456.1	426.5	416.5	415.0	424.0
57.4	57.0	56.6	56.2	56.4	56.8	56.8	57.0	57.8	58.5	58.8	59.3	60.0 <sup>a</sup>

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.												
116.3	144.3	154.6	162.0	154.8	140.2	151.2	156.2	156.8	161.0	160.9	161.2	159.6
120.3	147.1	157.2	162.0	153.5	142.2	151.3	156.2	156.0	162.3	160.3	161.2	159.3
120.3	147.1	153.2	162.6	155.7	143.8	153.7	156.2	157.9	161.5	160.3	161.5	159.5
126.3	148.0	154.8	162.6	150.0	144.5	153.7	156.2	157.9	162.6	160.3	161.5	159.5
128.0	149.4	155.2	163.0	146.8	144.5	153.9	156.5	159.0	163.8	160.0	161.2	160.0
128.4	149.4	155.1	162.2	144.1	144.5	153.7	156.7	159.2	162.0	160.0	161.2	160.7
133.3	150.3	155.1	162.2	142.6	147.2	153.7	156.7	159.4	162.0	160.0	159.9	160.7
135.0	150.3	155.1	160.7	142.6	148.0	155.2	156.9	161.0	161.5	160.6	160.8	160.7
137.0	150.3	155.4	159.6	142.7	148.0	155.2	154.8	160.8	161.5	160.6	162.3	160.0
139.3	150.9	155.4	157.0	140.5	148.1	155.8	155.0	160.3	161.5	160.6	162.5	160.3
144.3	154.1	160.8	155.3	137.6	150.0	158.1	156.2	160.3	160.9	160.6	161.3	160.3
144.3	154.1	161.3	154.4	137.6	150.0	157.8	156.6	161.0	160.9	161.2	160.2	160.0
59.3	58.6	58.8	58.1	57.3	57.7	57.5	57.9	58.6	59.1	59.2	58.6	59.4 <sup>a</sup>

<sup>a</sup> At 25<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 60°·2; of V. F. 60°·0.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
24	21	0	29.750	43.9	42.7	W. N. W.	Very light.	Clear and unclouded; aurora gone.				
	22	0	29.748	42.9	41.9	W. N. W.	Very light.	Clear, save a few cir.-strat. in E. horizon; faint auroral light in N.				
	23	0	29.742	40.2	40.1	W. N. W.	Very light.	Clear, except cum.-strat. and cir. round horizon.				
25	0	0	29.748	42.2	40.6	W. N. W.	Very light.	Generally overcast with cir.-cum. and cir.; clear spaces.				
	1	0	29.745	44.9	43.1	W. by N.	Very light.	Light cir. and haze; a few clear spaces.				
	2	0	29.742	47.7	45.8	W.	Very light.	Overcast with dense cir.-cum. and haze.				
	3	0	29.748	51.4	48.7	S. W. by W.	Very light.	Overcast with cir.-cum. and cum.-strat.; a few clear spaces.				
	4	0	29.736	55.2	50.1	S. W. by W.	Very light.	Generally overcast, light cir.-cum. and cum.-strat.; clear spaces.				
	5	0	29.709	56.4	51.0	W. by S.	Very light.	Light cir.-cum. generally dispersed; dense cir.-cum. in N. W.				
	6	0	29.687	58.6	51.2	W.	Light.	Light cir.-cum. generally dispersed; dense cir.-cum. rising in N. W.				
	7	0	29.676	56.9	51.5	W.	Moderate.	Clouded, cum.-strat. and cir.-cum.				
	8	0	29.656	56.9	50.5	N. by W.	Moderate.	Clouded, cum.-strat. and cir.-cum.				
	9	0	29.642	57.5	52.7	W. N. W.	Moderate.	Clouded, cir.-cum. and cum.				

October 22nd and 23rd.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	113·0	113·2	112·8	113·0	114·2	113·2	114·0	111·9	113·8	112·9	113·2
5	0	113·1	113·0	113·1	112·8	114·0	114·0	114·4	111·8	113·8	113·8	113·2
10	0	113·0	114·0	113·5	112·7	114·2	114·0	115·0	111·8	114·0	113·6	113·7
15	0	113·0	113·3	114·0	113·0	113·5	113·6	115·0	112·0	113·6	113·0	113·9
20	0	112·8	113·1	114·0	113·2	113·0	115·0	114·6	112·4	111·8	112·3	113·2
25	0	113·0	113·3	114·0	113·2	112·4	115·2	114·2	112·1	111·8	112·1	112·2
30	0	113·1	113·5	114·0	113·2	112·0	114·4	113·8	111·8	112·2	112·0	111·2
35	0	113·1	113·2	113·2	113·0	112·0	114·0	114·0	111·4	112·0	112·2	112·0
40	0	113·3	113·0	113·0	113·2	111·4	111·8	114·2	111·5	112·2	113·0	112·8
45	0	113·0	112·8	113·0	114·4	112·0	111·4	114·0	111·4	112·0	113·0	113·6
50	0	112·8	112·7	113·1	114·7	112·4	112·8	113·9	111·8	112·2	113·2	113·4
55	0	113·7	112·3	113·0	114·8	112·4	112·2	113·7	112·4	112·8	113·5	114·0
		One Scale Division = '000087 parts of the H. F.					HORIZONTAL FORCE.					
M.	S.											
2	0	395·0	397·0	401·0	400·0	401·0	404·7	398·7	403·2	403·0	400·4	398·6
7	0	394·0	396·0	401·0	399·8	401·6	404·0	401·0	403·2	402·6	398·8	398·5
12	0	394·0	398·5	401·0	400·8	401·0	403·6	401·0	403·2	402·0	399·3	398·1
17	0	396·4	399·8	400·0	400·0	401·8	404·3	400·8	403·2	402·0	399·6	397·8
22	0	397·0	398·6	399·0	400·0	402·6	398·4	402·0	402·3	402·5	398·9	396·9
27	0	397·0	398·0	399·0	400·0	402·0	398·5	401·9	403·0	402·8	399·4	397·9
32	0	397·0	395·5	399·0	399·6	402·6	396·4	402·6	402·8	403·2	399·5	399·0
37	0	396·0	396·0	400·8	400·2	402·8	393·8	403·2	402·8	402·1	399·6	399·5
42	0	394·5	394·5	401·0	402·0	403·4	397·0	403·6	403·1	401·1	399·4	400·0
47	0	394·3	396·6	401·9	401·8	404·0	397·6	404·0	403·6	401·6	399·1	399·9
52	0	396·9	399·0	401·0	402·2	403·8	399·0	403·8	404·9	401·0	399·0	399·0
57	0	396·5	399·0	400·0	401·2	404·0	401·2	402·6	404·8	400·9	399·0	399·3
Thermometer		50·5	51·0	52·0	52·4	52·3	52·0	51·7	51·6	51·2	51·0	51·2
		One Scale Division = '000062 part of the V. F.					VERTICAL FORCE.					
M.	S.											
3	0	163·0	170·9	162·7	159·6	161·3	165·9	164·0	166·4	166·9	166·6	162·0
8	0	166·7	170·9	162·7	159·6	162·7	165·9	165·0	166·5	166·9	164·2	161·8
13	0	167·7	170·9	161·8	159·9	163·6	166·1	165·4	166·5	166·1	163·0	161·8
18	0	169·0	170·4	161·5	159·8	163·6	166·1	164·6	165·8	166·1	163·0	161·6
23	0	169·0	168·9	161·5	159·8	164·3	166·1	164·6	165·8	166·1	162·6	161·3
28	0	170·2	167·6	161·5	159·8	164·5	164·7	165·5	166·5	166·1	162·4	161·1
33	0	170·2	166·8	161·5	159·6	164·6	165·0	165·5	166·5	166·1	162·4	160·2
38	0	170·9	165·9	161·5	159·0	164·6	164·0	165·5	166·5	165·9	161·8	160·0
43	0	171·4	165·4	161·0	159·1	165·4	164·1	166·4	166·5	166·4	161·8	160·5
48	0	171·4	164·5	160·7	159·1	165·4	164·0	166·4	166·6	166·5	162·0	160·4
53	0	170·9	163·8	160·7	159·1	165·7	164·0	166·4	166·6	166·6	161·8	160·8
58	0	170·9	163·2	160·7	159·5	165·7	164·0	166·4	166·6	166·6	161·8	160·8
Thermometer		50·1	50·3	52·6	53·9	53·3	54·0	52·3	52·1	51·7	51·5	52·3

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
22	10	0	30·129	41·2	36·2	—	Calm.	Clear.				
	11	0	30·107	37·9	35·2	—	Calm.	Clear.				
	12	0	30·108	36·2	33·7	—	Calm.	Clear.				
	13	0	30·094	29·8	28·2	—	Calm.	Clear.				
	14	0	30·098	27·8	27·2	—	Calm.	Clear.				
	15	0	30·090	26·8	27·1	—	Calm.	Clear.				
	16	0	30·091	26·6	25·9	—	Calm.	Clear.				
	17	0	30·065	27·0	26·1	—	Calm.	Unclouded, save light cir. strat. in N. and N.E.				
	18	0	30·056	25·3	24·9	—	Calm.	Generally clear; light cir. dispersed.				
	19	0	30·052	25·4	24·9	—	Calm.	Clear, except light cir.-strat. in N. and S.E.				
	20	0	30·026	24·6	23·9	—	Calm.	Clear.				
	21	0	30·018	24·2	23·1	—	Calm.	Clear.				

MAGNETICAL OBSERVATIONS.												
October 22nd and 23rd.												
DECLINATION.												
Angular Value of one Scale Division = 0'721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
115.0	115.3	115.7	115.0	116.0	116.1	116.0	114.0	112.0	111.6	111.7	111.0	111.1
115.1	115.4	115.8	115.2	116.0	116.9	116.2	114.0	112.0	111.5	111.6	111.0	111.1
115.2	115.3	115.5	115.4	116.2	116.3	115.8	114.0	111.8	111.5	111.4	111.0	111.1
115.0	115.8	115.0	115.6	116.3	116.9	115.6	113.2	112.0	111.5	111.4	111.0	111.2
115.4	115.9	114.4	115.7	115.4	116.1	115.2	113.0	112.0	111.5	111.3	111.0	111.3
115.6	116.0	114.0	115.0	115.0	116.1	115.0	112.4	112.0	111.4	111.2	111.0	111.3
115.5	116.0	113.9	116.0	117.6	116.9	115.2	112.4	111.8	111.4	111.2	110.9	111.5
115.6	115.9	113.8	116.0	116.1	116.9	115.0	112.5	111.2	111.6	111.2	110.9	111.6
115.8	115.7	114.1	116.0	116.2	116.0	114.8	112.6	111.2	111.6	111.0	111.0	111.7
116.0	116.1	113.9	116.4	115.8	117.0	114.7	112.8	111.2	111.8	111.0	111.0	111.6
116.0	115.5	113.9	115.0	115.6	116.2	114.4	112.4	111.2	111.8	111.0	111.0	111.8
115.7	115.0	114.8	114.8	116.0	116.0	114.2	112.2	111.4	111.8	111.0	111.0	111.7

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .000234.												
398.2	396.3	398.6	397.5	398.1	400.0	403.0	407.0	409.8	409.6	410.0	407.9	405.2
397.6	395.6	398.0	397.0	398.0	400.0	402.8	407.6	409.8	410.0	409.8	407.8	405.0
397.1	396.2	397.5	397.2	397.5	400.9	403.6	402.2	409.6	410.0	409.8	407.8	405.0
396.9	396.3	397.4	398.0	397.0	400.5	404.0	406.6	410.0	410.2	409.6	407.8	405.0
398.0	396.5	397.9	397.7	398.1	401.0	403.8	406.7	409.6	410.6	409.1	407.0	405.0
397.5	396.5	398.4	398.9	400.3	401.3	404.0	407.8	409.2	410.6	409.7	406.9	404.8
396.9	396.0	398.3	397.5	397.8	401.2	404.6	407.6	409.8	410.0	409.8	407.0	404.6
397.3	395.8	398.9	397.6	399.0	401.6	405.0	408.6	410.0	410.9	410.0	407.0	404.2
397.2	395.7	397.9	397.0	398.0	402.0	405.3	408.8	411.0	410.2	408.7	406.9	404.0
397.0	394.5	396.8	395.5	399.0	401.8	406.0	408.8	410.3	410.0	408.9	406.3	404.0
396.7	395.0	398.0	396.1	399.6	402.0	406.2	408.8	409.9	410.0	408.2	406.2	404.0
396.9	397.1	397.5	397.9	400.0	402.4	406.0	408.6	410.0	410.1	407.9	406.0	404.0
51.3	51.2	50.5	50.2	49.6	50.0	50.5	51.4	51.8	52.4	53.0	53.4	54.1 <sup>a</sup>

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fahr. = .00007.												
162.0	164.4	163.5	165.8	171.0	172.0	169.6	167.5	165.8	166.3	165.0	165.2	164.5
162.0	164.4	163.6	165.8	171.6	173.2	170.0	167.5	167.0	167.4	164.8	164.9	164.5
162.8	164.4	163.8	165.8	171.6	172.5	168.6	167.0	166.7	167.4	164.8	165.6	164.0
162.8	164.4	163.8	166.4	171.2	172.5	168.6	165.2	166.5	167.6	165.0	165.3	164.0
163.5	164.6	164.5	167.4	171.2	171.8	168.6	165.2	166.5	166.0	165.0	165.3	164.0
163.3	163.0	164.5	167.4	171.2	171.0	168.6	167.2	166.5	166.9	165.0	165.3	163.9
163.5	163.0	164.5	168.7	171.2	171.0	165.7	167.2	166.5	166.3	164.8	165.3	164.0
163.3	162.6	164.6	168.7	171.2	171.0	164.6	167.3	166.5	165.8	164.9	165.2	164.0
163.3	162.6	165.1	170.3	171.2	170.4	166.0	167.7	166.5	166.8	164.9	165.2	163.5
163.3	163.0	165.1	171.0	171.2	170.4	168.5	165.1	166.3	165.2	164.8	165.3	163.5
164.0	163.0	165.1	171.0	171.2	170.4	166.8	165.8	167.0	165.2	165.5	165.0	163.5
164.0	163.0	165.1	171.0	171.2	169.6	166.8	165.8	166.4	165.0	165.4	165.0	163.3
52.5	52.2	51.5	51.3	50.3	50.3	50.6	51.3	51.7	51.9	52.9	53.1	53.3 <sup>a</sup>

<sup>a</sup> At 23<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 54<sup>o</sup>.7; of V. F. 54<sup>o</sup>.1.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°	—	—	Clear.				
22	22	0	30.014	23.6	23.2	—	Calm.	Clear.				
	23	0	30.015	23.6	22.7	—	Calm.	Clear.				
23	0	0	30.012	23.1	22.4	—	Calm.	Unclouded; haze round horizon.				
	1	0	30.017	23.9	23.2	—	Calm.	Clear.				
	2	0	30.011	30.9	29.7	—	Calm.	Unclouded; slight mist.				
	3	0	30.015	37.3	32.3	—	Calm.	Unclouded; hazy.				
	4	0	30.008	42.9	40.6	—	Calm.	Unclouded; haze round horizon.				
	5	0	29.978	43.4	39.0	—	Calm.	Unclouded; haze round horizon.				
	6	0	29.953	44.7	42.5	—	Calm.	Unclouded; haze round horizon.				
	7	0	29.930	47.4	44.5	—	Calm.	Unclouded; haze round horizon.				
	8	0	29.897	48.7	44.7	—	Calm.	Unclouded; haze round horizon.				
	9	0	29.888	49.2	45.0	—	Calm.	Unclouded; haze round horizon.				



November 28th and 29th.			MAGNETICAL OBSERVATIONS.									
Mean Göttingen Time.			Angular Value of one Scale Division = 0'.721.					DECLINATION.				
			10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .
M.	S.		Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0		114.8	116.2	116.6	116.3	117.0	124.0	118.8	116.1	114.2	109.7
5	0		115.0	116.2	116.5	116.7	117.2	122.0	118.2	116.5	113.2	111.2
10	0		115.0	116.0	117.0	117.1	117.2	120.2	117.5	116.4	112.9	113.2
15	0		115.2	116.2	117.2	116.8	117.2	117.6	117.1	116.2	113.7	114.0
20	0		115.5	116.6	115.9	117.0	116.1	116.2	116.0	115.0	112.0	113.6
25	0		115.4	116.8	116.8	116.9	116.4	117.6	116.4	114.7	111.0	112.0
30	0		115.6	116.8	117.3	116.8	117.1	117.7	117.3	115.2	112.0	111.0
35	0		116.0	116.4	116.8	117.0	119.3	117.4	117.9	115.0	112.0	111.0
40	0		115.4	116.2	116.8	117.0	121.7	117.0	117.3	114.2	111.0	112.3
45	0		115.8	116.4	115.9	117.0	122.8	118.1	116.8	113.8	109.8	113.2
50	0		116.1	116.8	117.0	117.2	124.2	119.4	115.7	114.4	108.5	114.0
55	0		116.2	117.0	116.9	117.0	125.0	119.4	115.7	114.0	108.4	114.0
			One Scale Division = .000087 parts of the H. F.					HORIZONTAL FORCE.				
M.	S.											
2	0		376.1	376.0	376.0	378.9	380.9	395.0	384.7	389.0	388.3	389.0
7	0		375.8	376.2	376.0	377.3	382.7	394.0	384.8	388.0	388.0	387.9
12	0		374.9	376.0	377.1	378.9	382.1	391.4	385.0	388.0	387.0	884.2
17	0		374.8	374.8	380.1	379.1	382.0	388.7	383.9	387.4	386.8	382.5
22	0		374.8	375.0	377.1	378.3	382.4	388.7	385.7	386.3	384.5	382.5
27	0		374.8	374.6	377.2	379.2	384.5	389.3	388.1	389.0	385.1	383.0
32	0		375.9	374.7	379.2	379.6	388.4	388.8	388.0	389.0	386.0	384.5
37	0		375.0	376.9	377.9	381.8	391.7	388.0	388.0	389.3	387.3	385.1
42	0		375.7	376.4	378.2	379.7	394.5	388.4	387.5	388.0	386.0	384.5
47	0		375.8	375.2	375.8	380.3	895.1	386.6	388.4	390.0	387.1	384.5
52	0		375.6	375.0	378.0	381.4	397.4	384.7	387.5	390.6	387.0	384.5
57	0		375.6	375.9	379.3	380.7	396.9	384.0	388.0	390.0	387.8	382.5
Thermometer			41.4	42.0	42.8	43.0	43.0	42.7	42.6	42.4	42.4	42.3
			One Scale Division = .000062 parts of the V. F.					VERTICAL FORCE.				
M.	S.											
3	0		182.3	177.4	174.0	173.4	174.0	174.4	173.8	177.7	176.9	175.1
8	0		181.5	176.9	173.9	173.3	174.6	174.9	174.1	177.7	176.9	175.1
13	0		182.8	176.2	173.8	173.4	174.2	174.9	174.1	177.2	176.9	175.4
18	0		182.1	175.7	173.8	173.4	174.2	174.8	175.4	177.6	176.9	175.4
23	0		182.1	175.6	173.8	173.4	173.5	174.0	174.6	177.6	176.7	175.4
28	0		182.3	175.5	173.8	173.4	173.5	173.9	175.3	177.5	176.3	175.4
33	0		182.3	175.5	173.8	173.4	173.2	173.9	175.9	177.2	176.7	175.2
38	0		181.8	174.6	173.8	173.4	173.2	173.9	175.9	177.2	176.7	175.2
43	0		180.6	174.6	174.2	173.4	173.2	173.9	176.7	177.2	176.3	175.2
48	0		180.4	174.6	174.2	174.0	173.2	173.9	177.1	176.9	176.0	175.7
53	0		178.8	174.4	173.5	173.9	173.2	174.6	177.6	176.9	176.0	175.7
58	0		177.8	174.4	173.5	174.0	174.4	174.1	177.6	176.9	176.0	176.6
Thermometer			41.1	42.2	43.4	44.6	44.6	45.3	45.6	43.8	43.6	43.7

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.

Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.
				Dry.	Wet.	Direction.	Force.	
D.	H.	M.	In.	°	°			
28	10	0	29.815	16.2	14.9	W. by S.	Very light.	Generally clouded with dense cir.-cum. & cum.-strat.; clear spaces.
	11	0	29.835	15.8	14.3	W. by S.	Very light.	Generally clouded with dense cir.-cum. & cum.-strat.; clear spaces.
	12	0	29.864	16.6	15.2	—	Calm.	Overcast with cir.-cum., cum.-strat., and haze.
	13	0	29.890	17.0	15.9	—	Calm.	Overcast with cir.-cum. and haze; particles of snow falling.
	14	0	29.922	17.8	16.7	W. by S.	Very light.	Overcast with cir.-cum. and haze; particles of snow falling.
	15	0	29.936	17.0	15.4	W. by S.	Very light.	Cir.-strat. and haze round horizon; zenith clear.
	16	0	29.944	14.6	12.9	W. by N.	Very light.	Clear and unclouded.
	17	0	29.966	12.0	10.2	—	Calm.	Clear and unclouded.
	18	0	29.970	10.0	8.7	—	Calm.	Clear and unclouded.
	19	0	29.983	12.0	10.5	W. N. W.	Very light.	Clear, save low range of cir. on S. horizon.
	20	0	29.989	12.6	10.7	W. N. W.	Very light.	Clouded in S. horizon; remainder quite clear.
	21	0	29.999	12.1	10.4	N.W. by W.	Very light.	Clouded in S. horizon; remainder quite clear.

MAGNETICAL OBSERVATIONS.												
November 28th and 29th.												
DECLINATION.												
Angular Value of one Scale Division = 0'.721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
115.9	110.1	116.2	115.4	117.0	115.0	114.8	115.1	107.9	109.8	106.0	109.0	112.0
117.0	111.0	116.4	116.2	116.2	113.8	114.8	113.8	108.0	108.0	106.4	109.2	112.2
116.9	112.0	116.2	116.0	115.2	114.2	114.3	114.4	107.8	107.8	108.0	109.4	112.2
116.0	112.8	115.6	116.2	115.2	114.6	115.4	114.4	107.9	107.0	107.9	109.5	112.0
115.2	113.2	116.3	116.2	113.5	114.2	115.8	112.1	107.9	108.0	107.9	108.4	112.7
114.9	114.0	116.7	116.2	115.2	113.4	116.0	112.0	108.8	107.4	108.0	109.7	112.4
113.1	114.2	117.0	116.2	115.8	113.4	115.1	110.9	110.0	108.3	108.0	109.2	112.6
113.6	115.0	117.3	116.0	115.2	113.5	116.1	110.8	110.7	108.8	108.0	110.0	112.1
113.4	116.2	116.0	116.2	115.0	112.9	116.0	110.9	110.5	107.9	108.0	110.8	112.0
110.6	115.7	115.7	116.2	114.2	114.2	115.4	110.0	109.3	108.0	108.2	110.2	112.4
109.0	115.0	115.0	117.0	113.8	114.8	116.1	110.0	109.7	107.6	108.3	110.6	112.8
109.3	115.4	114.7	117.0	114.2	114.5	114.2	109.0	109.2	107.1	109.2	111.0	112.6

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah°. = .000234.												
387.5	387.0	379.8	379.0	382.8	385.4	388.4	388.2	405.0	395.0	385.5	380.5	381.6
385.0	386.0	379.0	378.6	385.0	386.4	388.4	389.3	407.5	395.1	388.0	382.4	380.8
384.5	386.0	378.8	378.3	381.8	389.1	388.6	389.9	407.0	397.9	384.0	381.0	381.4
384.0	384.6	378.3	378.0	382.9	389.6	388.9	389.1	407.0	398.0	385.5	381.9	381.6
383.9	383.8	378.0	378.0	383.9	391.2	389.4	390.7	406.1	392.9	386.5	380.7	380.8
388.0	382.6	377.4	378.0	381.5	393.0	387.9	391.8	404.0	391.0	382.0	381.0	380.4
387.5	383.0	377.3	378.6	380.9	393.3	388.8	395.0	399.9	392.5	386.0	380.5	381.4
387.3	382.7	377.3	378.4	381.6	392.5	388.8	397.4	400.0	386.5	385.5	381.0	381.5
387.5	381.9	377.0	380.4	381.4	393.3	389.3	398.0	398.2	388.0	382.9	381.8	381.6
388.5	382.0	377.6	380.4	382.5	388.8	388.5	401.3	398.0	386.5	383.7	380.4	381.5
388.5	381.2	379.3	380.6	385.0	388.1	389.1	400.6	397.7	386.0	380.7	380.5	381.0
388.5	381.6	380.0	380.5	385.7	388.2	391.4	403.9	396.6	390.3	381.8	382.5	380.8
42.0	42.0	41.7	41.6	41.6	40.8	40.6	41.0	41.5	41.8	42.5	42.6	42.4 <sup>a</sup>

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah°. = .00007.												
175.8	177.8	179.1	179.1	179.3	177.7	179.0	180.8	178.7	181.5	180.0	179.5	179.5
176.6	177.8	179.4	179.1	178.1	177.4	179.0	179.4	178.7	181.2	180.0	179.5	179.5
176.6	177.8	179.4	179.1	178.1	177.4	179.7	179.4	178.7	181.2	180.0	179.5	179.5
176.5	177.8	179.1	179.1	178.2	177.4	179.9	179.7	179.2	180.7	180.0	179.5	179.5
176.5	177.8	179.1	179.0	177.5	177.4	179.9	179.4	179.5	180.8	180.0	179.3	179.5
176.5	177.8	179.1	179.0	177.5	176.9	179.9	179.3	179.9	180.8	180.6	179.5	179.5
176.5	177.8	179.1	179.6	177.7	177.3	180.0	179.1	180.2	180.5	179.5	179.5	179.5
177.8	177.6	179.1	179.6	177.7	177.1	180.2	178.9	180.2	180.5	179.5	179.5	179.7
177.8	177.6	179.1	179.6	177.7	178.9	180.2	178.9	180.2	180.5	179.5	179.5	179.7
177.8	178.6	179.1	179.6	177.2	179.6	180.2	178.7	180.7	180.4	179.5	179.5	179.7
177.8	178.6	179.1	179.6	177.2	179.3	179.0	178.7	180.8	180.4	179.5	179.5	179.7
177.8	178.6	179.1	179.6	177.2	179.5	179.1	178.7	180.8	180.4	179.5	179.5	179.7
43.7	43.6	42.8	42.8	42.9	42.6	42.0	41.6	41.6	42.0	42.6	42.8	42.6 <sup>a</sup>

<sup>a</sup> At 29<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 42° 0; of V. F. 42° 6.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction.	Force.					
D.	H.	M.	In.	°	°							
28	22	0	30.019	12.1	10.7	N.W. by W.	Very light.	Clouded in S. horizon; cir.-cum. and haze; remainder quite clear.				
	23	0	30.025	13.6	11.9	W. N. W.	Very light.	Partially clouded; cir.-cum. and haze.				
29	0	0	30.044	14.3	12.9	N.W. by W.	Very light.	Partially clouded; cir.-cum. and haze.				
	1	0	30.062	15.4	13.9	—	Calm.	Densely overcast; cir.-cum. and haze.				
	2	0	30.098	16.2	14.9	—	Calm.	Densely overcast; cir.-cum., cum.-strat., and haze.				
	3	0	30.112	17.3	15.7	W. by N.	Very light.	Overcast with cir.-cum., cir.-strat. and haze.				
	4	0	30.126	19.6	16.7	W. N. W.	Very light.	Overcast with cir.-cum., cir.-strat. and haze.				
	5	0	30.129	20.9	18.1	W. N. W.	Very light.	Overspread dense haze.				
	6	0	30.107	21.8	20.2	—	Calm.	Densely overcast; snowing slightly.				
	7	0	30.097	21.6	20.3	N. N. E.	Very light.	Overcast; dense haze; moderate snow (constant).				
	8	0	30.080	21.0	20.3	N. N. E.	Very light.	Overcast; dense haze; moderate snow (constant).				
	9	0	30.084	20.8	20.3	N. N. E.	Very light.	Overcast; dense haze; moderate snow (constant).				

December 17th and 18th.		MAGNETICAL OBSERVATIONS.										
Mean Göttingen Time.		Angular Value of one Scale Division = 0'·721.					DECLINATION.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
M.	S.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
0	0	114·5	115·2	115·2	127·6	115·9	116·7	117·2	116·0	115·0	115·0	115·0
5	0	114·1	115·5	115·0	127·1	115·9	116·8	117·1	116·3	115·8	115·3	110·2
10	0	114·6	115·9	115·0	125·3	116·1	116·3	117·0	116·9	116·0	115·4	111·6
15	0	114·0	116·0	115·0	123·9	117·0	116·6	117·0	117·0	115·5	114·8	112·2
20	0	114·5	115·0	115·0	122·2	117·1	117·0	116·2	117·1	115·9	114·0	112·0
25	0	114·4	115·0	115·8	121·5	117·0	117·1	116·1	119·8	115·3	113·8	111·2
30	0	114·8	115·2	116·0	120·6	116·7	117·0	117·0	117·6	116·0	113·7	111·8
35	0	115·0	115·2	117·0	118·8	116·2	117·8	116·2	114·1	115·1	111·8	112·2
40	0	115·0	115·7	116·1	117·5	116·2	117·0	116·0	113·0	115·6	110·2	112·4
45	0	115·0	116·0	117·0	116·5	116·0	117·0	117·0	114·0	116·2	107·2	112·8
50	0	115·0	116·0	120·0	115·8	116·0	117·0	117·0	114·8	116·2	105·0	112·4
55	0	115·3	115·2	123·8	115·2	116·2	117·0	116·1	115·0	116·3	106·2	112·6

M. S.		One Scale Division = '000087 parts of the H. F.					HORIZONTAL FORCE.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
2	0	385·6	386·4	390·0	394·0	390·0	391·1	392·2	394·6	392·0	393·5	398·0
7	0	386·5	386·2	391·0	391·9	389·0	391·0	391·0	394·8	391·1	293·8	397·7
12	0	386·8	386·0	390·8	392·8	388·9	391·0	391·0	394·0	391·0	394·6	392·6
17	0	385·8	385·4	392·0	392·0	388·2	390·4	391·0	394·0	392·0	395·0	392·8
22	0	387·4	386·0	392·6	391·0	388·2	391·0	392·0	391·5	391·4	394·4	392·6
27	0	386·5	386·0	396·0	390·6	389·0	390·8	391·6	385·5	391·0	395·0	392·0
32	0	387·0	387·0	397·8	389·0	388·6	390·2	392·5	386·0	391·0	394·8	391·8
37	0	386·9	387·4	398·0	388·0	389·0	391·0	391·0	388·0	393·1	396·0	392·0
42	0	386·6	384·4	398·2	388·1	389·4	391·0	392·0	390·0	395·0	398·4	391·8
47	0	386·6	386·6	401·2	388·6	389·5	390·6	392·0	390·0	393·5	401·8	391·8
52	0	386·2	387·9	401·2	388·5	390·5	391·0	392·5	389·2	393·0	401·7	391·0
57	0	386·9	390·0	400·0	389·3	390·4	391·0	393·0	390·0	393·5	401·5	391·3

M. S.		One Scale Division = '000062 part of the V. F.					VERTICAL FORCE.					
		10 <sup>h</sup> .	11 <sup>h</sup> .	12 <sup>h</sup> .	13 <sup>h</sup> .	14 <sup>h</sup> .	15 <sup>h</sup> .	16 <sup>h</sup> .	17 <sup>h</sup> .	18 <sup>h</sup> .	19 <sup>h</sup> .	20 <sup>h</sup> .
3	0	173·9	168·7	168·6	167·4	168·2	164·5	161·8	163·7	163·1	163·8	161·1
8	0	173·9	168·7	167·4	167·4	168·2	164·2	161·9	163·7	163·4	163·7	161·0
13	0	173·7	168·5	167·4	167·4	168·2	164·2	161·9	164·1	163·4	163·8	160·8
18	0	173·7	168·4	167·4	167·4	168·7	164·2	162·3	164·1	163·4	163·8	160·7
23	0	172·8	168·4	167·2	167·4	168·7	163·2	162·5	164·1	163·4	163·7	160·6
28	0	172·8	168·0	166·6	167·4	168·7	163·2	162·9	163·6	163·4	163·7	159·7
33	0	171·0	167·7	166·6	167·2	168·7	162·6	162·9	163·6	163·4	163·7	159·6
38	0	171·0	167·7	167·3	167·2	168·7	162·6	163·7	163·6	163·3	163·7	159·6
43	0	170·6	167·5	167·3	167·8	168·7	162·6	163·7	163·6	163·3	163·3	159·6
48	0	169·5	167·8	166·8	167·8	168·7	162·0	163·7	163·1	163·8	162·3	159·7
53	0	169·5	167·3	167·0	168·2	165·5	162·0	163·7	163·1	163·8	162·3	159·7
58	0	168·7	168·6	167·0	168·2	165·5	162·0	163·7	163·1	163·8	162·5	159·7

Increasing numbers denote decreasing Westerly Declination, and increasing Horizontal and Vertical Force.

METEOROLOGICAL OBSERVATIONS.											
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.			
				Dry.	Wet.	Direction.	Force.				
D.	H.	M.	In.	°	°						
17	10	0	29·396	37·3	34·7	S by E.	Light.	Clouded; cir.-cum., cum.-strat. and haze.			
	11	0	29·382	37·4	34·7	S. S. W.	Fresh.	Clouded; cir.-strat. and haze. [G. M. T.]			
	12	0	29·393	34·6	33·9	S. S. W.	Moderate.	Densely overcast (very dark), slight rain between 11 and 12 hours			
	13	0	29·386	35·0	33·9	S. S. W.	Moderate.	Densely clouded (very dark), spitting rain.			
	14	0	29·361	35·6	34·2	S. S. W.	Brisk.	Densely clouded.			
	15	0	29·354	36·0	33·2	S. S. W.	Fresh.	Densely clouded; cir.-cum. and haze.			
	16	0	29·350	36·0	34·5	S. S. W.	Brisk.	Densely overcast; cir.-cum. and haze.			
	17	0	29·326	36·4	34·0	S. S. W.	Brisk.	Densely overcast; cir.-cum. and haze.			
	18	0	29·318	36·1	34·9	S. S. W.	Fresh.	Densely clouded; cir.-cum. and haze; spitting rain.			
	19	0	29·318	35·9	35·1	S. S. W.	Brisk.	Densely clouded; cir.-cum. and haze; spitting rain.			
	20	0	29·327	35·6	34·9	S. W. by S.	Brisk.	Densely clouded; cir.-cum. and haze; clouds moving rapidly.			
	21	0	29·351	34·6	34·4	S. S. W.	Fresh.	Dense cir.-cum. and haze.			

MAGNETICAL OBSERVATIONS.												
December 17th and 18th.												
DECLINATION.												
Angular Value of one Scale Division = 0'·721.												
21 <sup>h</sup> .	22 <sup>h</sup> .	23 <sup>h</sup> .	0 <sup>h</sup> .	1 <sup>h</sup> .	2 <sup>h</sup> .	3 <sup>h</sup> .	4 <sup>h</sup> .	5 <sup>h</sup> .	6 <sup>h</sup> .	7 <sup>h</sup> .	8 <sup>h</sup> .	9 <sup>h</sup> .
Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.	Sc. Div.
112·2	116·8	110·8	108·0	113·6	114·4	111·8	114·2	112·0	110·4	110·0	110·2	111·5
112·0	117·0	110·8	108·9	113·0	114·2	112·3	113·0	111·0	110·5	109·8	111·0	112·0
112·2	117·0	111·0	108·1	112·8	114·2	113·1	113·0	110·8	111·2	109·7	110·6	111·6
113·2	117·2	111·4	109·0	113·6	114·0	113·0	113·2	110·5	111·2	109·2	110·7	112·0
113·6	117·2	112·2	110·0	114·2	113·0	114·0	115·0	110·1	111·8	109·4	111·4	112·0
113·2	115·0	112·0	110·9	114·0	112·0	114·1	115·0	109·6	111·7	109·9	112·0	112·0
114·0	114·0	112·7	112·4	113·2	112·0	115·0	115·6	110·1	111·4	110·0	112·0	112·0
114·8	112·3	112·6	112·8	112·8	112·0	115·0	115·0	109·9	111·2	109·8	111·9	112·2
116·0	111·4	111·0	113·5	113·5	112·0	114·5	115·0	110·2	110·6	109·2	112·0	112·2
117·0	111·8	109·8	114·0	113·2	111·4	114·9	113·8	109·7	110·0	109·7	111·5	112·0
117·0	111·6	109·2	113·4	114·0	111·9	115·0	111·8	109·8	109·7	110·2	111·8	112·3
116·5	110·8	108·0	114·0	115·0	111·8	114·1	111·4	109·2	109·2	110·2	111·7	112·4

HORIZONTAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah°. = ·000234.												
390·5	390·8	394·4	391·2	392·2	390·0	397·0	399·0	402·0	405·8	400·6	404·0	396·0
391·0	390·6	394·8	389·2	392·3	391·5	396·5	398·0	401·8	408·3	399·8	402·2	394·2
390·8	390·6	395·0	389·8	392·0	392·2	395·8	399·0	403·5	407·6	401·8	403·2	393·8
390·6	389·8	393·3	388·6	391·8	393·2	396·5	401·0	404·0	406·8	401·8	401·3	393·4
390·9	390·6	393·0	388·0	389·6	394·0	397·8	400·0	403·5	405·4	401·4	399·9	393·3
390·0	392·8	393·5	388·6	388·6	393·5	398·5	401·0	404·5	404·0	403·0	399·1	393·0
389·7	393·5	393·1	390·0	389·0	395·5	397·3	400·3	404·5	401·6	401·6	398·2	393·2
390·2	394·0	393·2	391·2	387·7	396·0	397·0	399·6	405·5	400·8	401·0	397·9	392·6
390·2	394·0	395·2	391·2	388·0	396·7	398·0	399·0	405·5	400·0	400·8	398·8	393·7
390·4	396·0	396·0	392·0	389·4	396·7	398·0	400·0	406·3	397·8	404·8	397·0	393·6
391·0	394·9	396·2	392·2	391·0	397·0	397·4	401·0	407·0	399·8	405·0	397·1	393·0
390·6	395·1	394·8	392·0	389·6	397·5	399·5	401·5	407·0	400·6	404·4	395·8	392·4
50·2	50·2	49·6	49·2	49·0	48·5	48·5	48·5	49·5	49·4	49·5	49·6	50·0 <sup>a</sup>

VERTICAL FORCE.												
Change in the Magnetic moment of the Bar for 1° Fah°. = ·00007.												
160·6	160·1	159·9	162·8	160·3	163·6	164·8	164·8	163·5	164·3	166·1	167·5	167·5
160·7	160·1	159·9	162·2	161·5	163·7	164·8	165·0	163·5	164·7	166·5	167·5	167·5
160·7	160·1	159·9	162·2	161·5	163·9	164·8	165·0	163·5	164·4	163·8	167·7	167·8
160·9	159·8	159·9	160·5	161·5	164·4	164·8	165·0	163·5	164·7	167·5	168·6	168·4
160·7	159·8	160·4	160·5	161·2	164·4	164·8	165·0	163·5	164·7	167·5	168·1	168·0
161·7	159·5	160·4	160·5	161·2	164·8	164·7	164·8	163·5	165·9	167·3	168·1	168·0
161·6	158·0	160·4	160·3	161·9	164·8	164·7	164·8	163·5	165·5	167·1	168·1	168·0
160·8	159·2	160·5	159·7	161·7	164·8	164·7	164·8	163·5	164·8	167·1	167·8	168·0
160·5	159·2	160·5	159·7	162·4	165·2	164·7	164·8	164·1	166·7	166·7	167·8	168·5
159·6	159·8	160·5	160·5	162·2	165·2	164·7	163·9	164·1	166·7	166·7	167·8	166·9
159·6	159·1	160·7	160·5	162·4	164·8	164·7	163·9	164·3	166·7	166·6	168·8	167·0
159·7	159·1	161·3	160·4	163·6	164·8	164·5	163·5	164·3	166·1	167·4	168·8	167·0
50·7	50·8	50·7	50·5	50·5	49·7	49·1	49·0	49·3	49·3	49·5	49·5	49·5 <sup>a</sup>

<sup>a</sup> At 18<sup>d</sup> 10<sup>h</sup> Thermometer of H. F. 49°·6; of V. F. 49°·6.

METEOROLOGICAL OBSERVATIONS.												
Mean Göttingen Time.			Barometer at 32°.	Thermometers.		Wind.		Weather.				
				Dry.	Wet.	Direction	Force.					
D.	H.	M.	In.	°	°							
17	22	0	29·347	31·4	31·3	W S. W.	Brisk.	Cir.-cum., with a few clear spaces.				
	23	0	29·359	34·1	31·3	S. W. by W.	Moderate.	Mostly overcast with cir.-cum. and cum.-strat.; clear spaces.				
18	0	0	29·355	34·0	30·9	S. W. by W.	Moderate.	Overcast with cir.-cum. and cum.-strat.				
	1	0	29·374	32·8	29·7	S. S. W.	Moderate.	Overcast with cir.-cum. detached.				
	2	0	29·393	33·1	30·7	S. W.	Light.	Overcast with cir.-cum.; cir.-strat. and haze.				
	3	0	29·400	33·6	31·1	S. W.	Light.	Clouded cum.-strat. and cir.-cum.				
	4	0	29·410	35·0	31·2	S. W.	Moderate.	Generally clouded; cir.-cum. and cum.-strat.; clear spaces.				
	5	0	29·398	35·0	31·1	S. S. W.	Moderate.	Partially clouded; cir.-cum. widely dispersed.				
	6	0	29·362	35·4	31·1	W. by S.	Moderate.	Cir.-cum. and cir. round horizon; remainder clear.				
	7	0	29·351	35·3	30·9	W. by S.	Moderate.	Light cir.-cum. and cum.-strat. dispersed.				
	8	0	29·327	35·6	31·9	S. S. W.	Moderate.	Light cir.-cum. and cum.-strat. dispersed.				
	9	0	29·313	34·6	31·1	S. S. W.	Moderate.	Light cir.-cum. and cum.-strat. dispersed.				



**TORONTO, 1845.**

---

**METEOROLOGICAL OBSERVATIONS**

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	2.380	2.399	2.435	2.468	2.483	2.477	2.477	2.483	2.514	2.544	2.584	2.618
	2	2.832	2.842	2.858	2.867	2.884	2.869	2.855	2.842	2.848	2.868	2.858	2.856
	3	2.567	2.525	2.487	2.476	2.438	2.384	2.325	2.285	2.249	2.225	2.207	2.187
	4	2.534	2.565	2.587	2.593	2.593	2.559	2.525	2.518	2.525	2.522	2.514	2.504
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	2.698	2.737	2.759	2.763	2.738	2.739	2.712	2.682	2.656	2.666	2.656	2.631
	7	2.193	2.141	2.163	2.153	2.161	2.154	2.160	2.171	2.182	2.218	2.245	2.290
	8	2.501	2.502	2.518	2.525	2.525	2.526	2.510	2.519	2.524	2.539	2.543	2.537
	9	2.385	2.395	2.399	2.422	2.420	2.403	2.378	2.330	2.311	2.305	2.296	2.284
	10	2.562	2.591	2.616	2.634	2.635	2.618	2.597	2.584	2.583	2.592	2.598	2.598
	11	2.541	2.545	2.550	2.550	2.540	2.530	2.482	2.461	2.451	2.451	2.451	2.439
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	2.122	2.119	2.119	2.111	2.129	2.143	2.150	2.188	2.215	2.265	2.324	2.370
	14	2.687	2.719	2.776	2.799	2.839	2.833	2.827	2.841	2.843	2.857	2.848	2.853
	15	2.728	2.739	2.738	2.764	2.777	2.746	2.728	2.735	2.742	2.737	2.777	2.780
	16	2.822	2.830	2.852	2.854	2.876	2.846	2.830	2.812	2.810	2.796	2.808	2.796
	17	2.522	2.498	2.477	2.482	2.464	2.444	2.411	2.387	2.349	2.371	2.303	2.367
	18	2.753	2.791	2.816	2.854	2.883	2.918	2.920	2.933	2.977	3.015	3.046	3.094
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	2.798	2.798	2.798	2.773	2.785	2.781	2.752	2.733	2.728	2.728	2.722	2.706
	21	2.524	2.516	2.516	2.503	2.507	2.506	2.484	2.485	2.493	2.511	2.521	2.532
	22	2.823	2.851	2.875	2.909	2.931	2.946	2.948	2.954	2.957	2.964	2.978	2.994
	23	3.028	3.016	3.000	2.992	2.975	2.908	2.865	2.829	2.821	2.815	2.807	2.785
	24	2.638	2.630	2.629	2.619	2.613	2.573	2.551	2.517	2.502	2.488	2.482	2.456
	25	2.441	2.461	2.492	2.500	2.514	2.502	2.494	2.500	2.498	2.524	2.541	2.557
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	2.693	2.661	2.686	2.692	2.694	2.699	2.653	2.644	2.638	2.639	2.631	2.617
	28	2.480	2.461	2.455	2.445	2.431	2.410	2.373	2.357	2.351	2.348	2.350	2.374
	29	2.618	2.618	2.620	2.623	2.633	2.630	2.626	2.626	2.638	2.668	2.676	2.695
	30	2.842	2.862	2.884	2.860	2.860	2.840	2.796	2.775	2.745	2.721	2.715	2.708
	31	2.692	2.728	2.768	2.800	2.844	2.867	2.882	2.900	2.917	2.941	2.969	2.999
Hourly Means	2.6076	2.6126	2.6249	2.6308	2.6360	2.6241	2.6041	2.5960	2.5951	2.6044	2.6093	2.6158	
FEBRUARY.	1	3.123	3.123	3.135	3.164	3.146	3.138	3.116	3.076	3.059	3.063	3.065	3.048
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	3.016	2.996	2.987	2.981	2.949	2.944	2.916	2.890	2.846	2.823	2.789	2.771
	4	2.200	2.164	2.156	2.147	2.146	2.140	2.133	2.109	2.109	2.119	2.135	2.147
	5	2.114	2.079	2.070	2.074	2.070	2.106	2.109	2.101	2.111	2.125	2.123	2.221
	6	2.459	2.479	2.511	2.524	2.546	2.542	2.514	2.495	2.501	2.529	2.555	2.572
	7	2.712	2.726	2.746	2.778	2.785	2.792	2.788	2.781	2.779	2.781	2.778	2.788
	8	2.932	2.955	2.983	2.989	2.987	2.996	2.990	2.974	2.960	2.957	2.940	2.926
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	2.731	2.728	2.710	2.696	2.664	2.641	2.608	2.564	2.500	2.464	2.414	2.412
	11	2.368	2.376	2.381	2.382	2.364	2.357	2.337	2.299	2.277	2.256	2.228	2.195
	12	2.162	2.218	2.270	2.319	2.375	2.435	2.483	2.518	2.548	2.600	2.651	2.698
	13	3.085	3.098	3.114	3.141	3.131	3.124	3.115	3.108	3.110	3.100	3.096	3.082
	14	2.892	2.891	2.874	2.858	2.844	2.814	2.792	2.731	2.711	2.684	2.658	2.640
	15	2.471	2.478	2.476	2.464	2.448	2.465	2.444	2.424	2.406	2.406	2.396	2.404
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	2.628	2.632	2.638	2.633	2.632	2.628	2.609	2.600	2.608	2.612	2.626	2.627
	18	2.771	2.777	2.793	2.797	2.802	2.807	2.800	2.772	2.763	2.755	2.749	2.749
	19	2.719	2.713	2.723	2.741	2.731	2.722	2.716	2.680	2.651	2.646	2.646	2.646
	20	2.501	2.503	2.509	2.509	2.500	2.498	2.478	2.450	2.448	2.426	2.426	2.400
	21	2.387	2.407	2.426	2.444	2.456	2.450	2.435	2.429	2.442	2.451	2.463	2.491
	22	2.623	2.641	2.675	2.675	2.675	2.672	2.658	2.628	2.638	2.616	2.600	2.580
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	2.486	2.506	2.512	2.521	2.513	2.508	2.451	2.475	2.454	2.452	2.441	2.446
	25	2.426	2.430	2.428	2.414	2.402	2.385	2.365	2.336	2.313	2.303	2.294	2.283
	26	2.427	2.438	2.442	2.451	2.441	2.422	2.428	2.428	2.436	2.448	2.458	2.474
	27	2.480	2.488	2.502	2.507	2.500	2.489	2.478	2.462	2.460	2.472	2.480	2.496
	28	2.665	2.668	2.672	2.662	2.652	2.641	2.573	2.573	2.559	2.515	2.480	2.466
Hourly Means	2.5992	2.6047	2.6139	2.6196	2.6150	2.6132	2.5973	2.5793	2.5704	2.5668	2.5621	2.5651	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.640	2.660	2.672	2.692	2.725	2.728	2.728	2.728	2.726	2.766	2.782	2.801	2.6046
2.656	2.845	2.829	2.818	2.814	2.788	2.748	2.734	2.726	2.682	2.626	2.583	2.8053
2.175	2.197	2.261	2.312	2.349	2.371	2.389	2.400	2.406	2.471	2.471	2.514	2.3613
2.504	2.491	2.481	2.443	2.431	2.401	—	—	—	—	—	—	2.5458
—	—	—	—	—	—	2.599	2.609	2.635	2.647	2.656	2.664	—
2.610	2.592	2.584	2.562	2.517	2.483	2.443	2.392	2.338	2.302	2.264	2.201	2.5719
2.324	2.358	2.390	2.402	2.424	2.438	2.448	2.458	2.480	2.502	2.490	2.491	2.3098
2.531	2.531	2.531	2.521	2.497	2.486	2.463	2.444	2.436	2.415	2.396	2.386	2.4961
2.303	2.333	2.372	2.426	2.454	2.475	2.506	2.525	2.541	2.547	2.547	2.548	2.4127
2.606	2.600	2.596	2.609	2.609	2.599	2.595	2.599	2.595	2.572	2.548	2.536	2.5947
2.437	2.445	2.439	2.429	2.413	2.393	—	—	—	—	—	—	—
—	—	—	—	—	—	2.366	2.334	2.292	2.250	2.202	2.156	2.4228
2.424	2.462	2.482	2.505	2.525	2.513	2.525	2.539	2.577	2.603	2.634	2.664	2.3628
2.846	2.829	2.811	2.799	2.797	2.785	2.761	2.737	2.741	2.731	2.720	2.711	2.7912
2.794	2.810	2.810	2.808	2.798	2.791	2.777	2.783	2.804	2.798	2.790	2.784	2.7724
2.798	2.787	2.781	2.773	2.752	2.730	2.700	2.672	2.642	2.595	2.555	2.487	2.7585
2.380	2.420	2.426	2.479	2.514	2.544	2.564	2.590	2.638	2.683	2.713	2.725	2.4896
3.110	3.144	3.151	3.158	3.186	3.206	—	—	—	—	—	—	—
—	—	—	—	—	—	2.842	2.828	2.818	2.827	2.817	2.806	2.9539
2.700	2.680	2.658	2.655	2.644	2.632	2.605	2.569	2.567	2.567	2.542	2.536	2.6857
2.542	2.568	2.582	2.606	2.618	2.640	2.658	2.665	2.697	2.721	2.741	2.779	2.5798
3.000	3.010	3.016	3.036	3.038	3.035	3.029	3.031	3.048	3.029	3.033	3.035	2.9779
2.755	2.757	2.739	2.727	2.725	2.728	2.709	2.694	2.692	2.686	2.655	2.639	2.8061
2.440	2.426	2.428	2.416	2.421	2.421	2.421	2.405	2.415	2.426	2.435	2.430	2.4909
2.572	2.591	2.605	2.610	2.605	2.616	—	—	—	—	—	—	—
—	—	—	—	—	—	2.727	2.705	2.717	2.695	2.695	2.693	2.5773
2.639	2.624	2.624	2.608	2.590	2.588	2.570	2.566	2.528	2.520	2.506	2.488	2.6166
2.404	2.428	2.466	2.482	2.492	2.508	2.515	2.543	2.567	2.583	2.602	2.609	2.4598
2.718	2.724	2.727	2.739	2.744	2.747	2.746	2.753	2.773	2.785	2.803	2.823	2.6980
2.706	2.704	2.699	2.687	2.670	2.653	2.638	2.634	2.635	2.641	2.648	2.670	2.7330
3.030	3.045	3.064	3.085	3.104	3.120	3.135	3.135	3.149	3.139	3.121	3.121	2.9815
2.6239	2.6319	2.6379	2.6440	2.6465	2.6451	2.6373	2.6323	2.6364	2.6364	2.6293	2.6252	2.6244
3.054	3.054	3.048	3.048	3.046	3.046	—	—	—	—	—	—	3.0769
—	—	—	—	—	—	3.069	3.061	3.050	3.047	3.041	3.026	—
2.710	2.682	2.610	2.513	2.483	2.429	2.403	2.392	2.344	2.302	2.263	2.225	2.6777
2.159	2.163	2.153	2.161	2.160	2.154	2.143	2.147	2.138	2.124	2.128	2.117	2.1438
2.249	2.273	2.293	2.319	2.327	2.330	2.330	2.335	2.360	2.376	2.399	2.429	2.2218
2.576	2.600	2.612	2.603	2.604	2.604	2.623	2.640	2.662	2.674	2.688	2.698	2.5755
2.809	2.832	2.843	2.847	2.852	2.852	2.852	2.852	2.872	2.876	2.889	2.908	2.8133
2.926	2.932	2.942	2.943	2.923	2.922	—	—	—	—	—	—	—
—	—	—	—	—	—	2.729	2.731	2.741	2.758	2.748	2.727	2.9005
2.398	2.366	2.353	2.332	2.322	2.310	2.320	2.335	2.343	2.341	2.354	2.316	2.4676
2.193	2.181	2.161	2.129	2.121	2.111	2.097	2.097	2.089	2.089	2.095	2.115	2.2207
2.733	2.798	2.873	2.885	2.896	2.917	2.933	2.967	2.996	3.011	3.032	3.059	2.6824
3.068	3.056	3.020	3.007	2.999	2.991	2.969	2.961	2.949	2.919	2.912	2.910	3.0444
2.618	2.617	2.591	2.589	2.564	2.552	2.544	2.513	2.504	2.479	2.467	2.471	2.6624
2.404	2.470	2.454	2.489	2.493	2.498	—	—	—	—	—	—	—
—	—	—	—	—	—	2.644	2.644	2.638	2.629	2.626	2.622	2.4955
2.644	2.666	2.682	2.695	2.711	2.723	2.723	2.719	2.725	2.735	2.737	2.759	2.6663
2.755	2.755	2.751	2.736	2.744	2.730	2.746	2.734	2.731	2.721	2.717	2.721	2.7573
2.636	2.627	2.618	2.601	2.571	2.557	2.551	2.541	2.536	2.522	2.515	2.512	2.6300
2.400	2.400	2.384	2.372	2.358	2.346	2.342	2.370	2.376	2.377	2.379	2.397	2.4229
2.509	2.512	2.526	2.548	2.556	2.550	2.576	2.594	2.625	2.605	2.615	2.623	2.5050
2.555	2.531	2.506	2.470	2.443	2.425	—	—	—	—	—	—	—
—	—	—	—	—	—	2.400	2.422	2.435	2.437	2.455	2.478	2.5516
2.456	2.456	2.456	2.446	2.433	2.436	2.438	2.448	2.448	2.428	2.428	2.424	2.4610
2.291	2.297	2.301	2.302	2.326	2.338	2.356	2.364	2.385	2.393	2.460	2.434	2.3594
2.475	2.483	2.484	2.498	2.502	2.504	2.501	2.499	2.493	2.480	2.478	2.479	2.4654
2.514	2.516	2.531	2.570	2.585	2.596	2.596	2.618	2.618	2.631	2.649	2.660	2.5374
2.438	2.411	2.415	2.393	2.346	2.294	2.265	2.236	2.211	2.232	2.277	2.317	2.4567
2.5654	2.5699	2.5670	2.5623	2.5569	2.5506	2.5479	2.5508	2.5529	2.5494	2.5563	2.5595	2.5748



BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	2.349	2.395	2.411	2.432	2.460	2.472	2.473	2.467	2.487	2.508	2.511	2.526
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	2.367	2.435	2.485	2.527	2.574	2.612	2.654	2.676	2.712	2.733	2.755	2.782
	4	2.834	2.839	2.846	2.838	2.826	2.807	2.783	2.756	2.720	2.699	2.684	2.648
	5	2.030	2.042	2.056	2.057	2.073	2.139	2.185	2.234	2.303	2.375	2.420	2.467
	6	2.886	2.916	2.934	2.945	2.950	2.950	2.922	2.904	2.870	2.847	2.826	2.804
	7	2.696	2.688	2.694	2.705	2.682	2.657	2.626	2.619	2.579	2.575	2.555	2.521
	8	2.379	2.405	2.419	2.439	2.457	2.473	2.468	2.471	2.497	2.518	2.538	2.560
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	2.701	2.701	2.698	2.698	2.679	2.668	2.624	2.596	2.580	2.569	2.559	2.535
	11	2.646	2.678	2.714	2.743	2.779	2.806	2.814	2.806	2.801	2.799	2.797	2.797
	12	2.799	2.796	2.796	2.784	2.777	2.766	2.760	2.762	2.734	2.734	2.729	2.727
	13	2.788	2.803	2.803	2.822	2.824	2.818	2.808	2.783	2.758	2.748	2.736	2.724
	14	2.484	2.460	2.450	2.417	2.385	2.362	2.327	2.284	2.266	2.302	2.332	2.366
	15	2.497	2.498	2.498	2.498	2.484	2.476	2.476	2.462	2.440	2.444	2.430	2.430
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	2.941	2.957	2.966	2.977	2.988	2.011	2.025	2.026	2.034	2.048	2.074	2.084
	18	2.179	2.210	2.194	2.201	2.200	2.202	2.209	2.227	2.235	2.267	2.281	2.320
	19	2.440	2.440	2.454	2.456	2.458	2.442	2.444	2.432	2.417	2.443	2.456	2.481
	20	2.595	2.605	2.623	2.645	2.671	2.675	2.678	2.667	2.696	2.710	2.721	2.747
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	2.850	2.854	2.869	2.861	2.871	2.857	2.839	2.830	2.810	2.791	2.768	2.744
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	2.490	2.506	2.528	2.532	2.542	2.556	2.569	2.591	2.601	2.619	2.644	2.684
	25	2.916	2.950	2.962	2.982	2.984	2.976	2.962	2.937	2.919	2.916	2.908	2.911
	26	2.928	2.929	2.919	2.911	2.864	2.813	2.765	2.727	2.710	2.675	2.657	2.633
	27	2.667	2.691	2.706	2.719	2.714	2.706	2.699	2.679	2.651	2.651	2.642	2.634
	28	2.693	2.725	2.744	2.757	2.766	2.766	2.775	2.772	2.769	2.769	2.758	2.778
	29	2.762	2.757	2.761	2.744	2.752	2.732	2.705	2.673	2.658	2.654	2.654	2.654
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	2.646	2.655	2.647	2.634	2.622	2.589	2.564	2.539	2.494	2.460	2.430	2.393
Hourly Means	2.5825	2.5974	2.6071	2.6130	2.6153	2.6132	2.6062	2.5968	2.5896	2.5942	2.5946	2.5980	
APRIL.	1	2.201	2.235	2.322	2.351	2.384	2.407	2.434	2.451	2.463	2.479	2.497	2.516
	2	2.385	2.359	2.340	2.305	2.282	2.279	2.340	2.372	2.438	2.488	2.526	2.556
	3	2.856	2.885	2.886	2.902	2.900	2.883	2.860	2.826	2.783	2.757	2.747	2.699
	4	2.270	2.308	2.357	2.382	2.412	2.420	2.435	2.461	2.471	2.463	2.473	2.489
	5	2.654	2.662	2.651	2.631	2.629	2.615	2.594	2.594	2.586	2.594	2.612	2.621
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	2.523	2.530	2.531	2.548	2.570	2.573	2.573	2.574	2.582	2.595	2.610	2.634
	8	2.762	2.782	2.782	2.789	2.805	2.811	2.819	2.822	2.810	2.821	2.830	2.846
	9	2.911	2.912	2.901	2.882	2.865	2.831	2.776	2.758	2.726	2.681	2.633	2.612
	10	2.154	2.172	2.176	2.167	2.177	2.196	2.219	2.255	2.275	2.284	2.314	2.346
	11	2.597	2.614	2.650	2.667	2.686	2.689	2.690	2.692	2.697	2.705	2.714	2.721
	12	2.866	2.880	2.890	2.900	2.899	2.884	2.862	2.840	2.814	2.809	2.799	2.796
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	2.685	2.713	2.715	2.718	2.713	2.693	2.658	2.640	2.625	2.595	2.581	2.588
	15	2.670	2.689	2.696	2.690	2.697	2.682	2.662	2.647	2.637	2.624	2.611	2.612
	16	2.506	2.504	2.503	2.494	2.486	2.480	2.484	2.475	2.457	2.466	2.452	2.444
	17	2.485	2.515	2.511	2.517	2.539	2.527	2.535	2.551	2.561	2.567	2.579	2.591
	18	2.613	2.653	2.665	2.669	2.667	2.675	2.685	2.658	2.666	2.648	2.650	2.618
	19	2.528	2.528	2.528	2.521	2.480	2.510	2.500	2.500	2.480	2.468	2.460	2.480
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	2.724	2.746	2.751	2.752	2.752	2.752	2.743	2.752	2.760	2.764	2.770	2.753
	22	2.723	2.731	2.734	2.736	2.729	2.714	2.694	2.685	2.650	2.647	2.623	2.614
	23	2.494	2.496	2.512	2.501	2.494	2.494	2.477	2.448	2.440	2.436	2.422	2.417
	24	2.550	2.576	2.590	2.586	2.593	2.575	2.569	2.548	2.537	2.541	2.539	2.562
	25	2.530	2.547	2.540	2.534	2.492	2.497	2.479	2.495	2.387	2.355	2.355	2.352
	26	2.435	2.447	2.437	2.431	2.425	2.421	2.398	2.388	2.371	2.346	2.341	2.329
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	2.724	2.756	2.756	2.760	2.756	2.753	2.736	2.737	2.717	2.713	2.702	2.702
	29	2.846	2.868	2.869	2.894	2.895	2.899	2.884	2.883	2.863	2.869	2.896	2.878
	30	2.739	2.749	2.736	2.724	2.724	2.696	2.666	2.657	2.635	2.588	2.593	2.577
	Hourly Means	2.5935	2.6099	2.6165	2.6173	2.6173	2.6137	2.6066	2.6042	2.5935	2.5886	2.5896	2.5901

BAROMETRIC PRESSURE.

Barometer at 32° = 27 English inches + the numbers in the Table.

12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.534	2.546	2.562	2.552	2.547	2.554	—	—	—	—	—	—	2.4157
—	—	—	—	—	—	2.111	2.133	2.155	2.216	2.256	2.321	2.7127
2.810	2.828	2.828	2.830	2.830	2.807	2.824	2.828	2.818	2.792	2.788	2.810	2.5781
2.606	2.560	2.536	2.536	2.500	2.428	2.400	2.317	2.267	2.190	2.142	2.112	2.4562
2.513	2.573	2.597	2.645	2.684	2.722	2.741	2.770	2.796	2.813	2.843	2.870	2.8089
2.782	2.773	2.753	2.731	2.717	2.712	2.702	2.695	2.717	2.689	2.693	2.695	2.5375
2.503	2.503	2.501	2.501	2.477	2.441	2.431	2.443	2.411	2.371	2.351	2.371	—
2.564	2.595	2.615	2.615	2.603	2.614	—	—	—	—	—	—	2.5600
—	—	—	—	—	—	2.715	2.717	2.700	2.696	2.684	2.697	2.5863
2.535	2.535	2.535	2.543	2.529	2.513	2.511	2.530	2.527	2.542	2.572	2.592	2.7898
2.805	2.803	2.807	2.814	2.814	2.823	2.834	2.834	2.819	2.809	2.807	2.807	2.7587
2.735	2.745	2.753	2.767	2.763	2.752	2.749	2.749	2.756	2.740	2.761	2.774	2.7023
2.720	2.714	2.700	2.681	2.664	2.648	2.626	2.597	2.558	2.522	2.508	2.502	2.4177
2.398	2.432	2.461	2.468	2.482	2.478	2.479	2.482	2.479	2.478	2.477	2.477	—
2.432	2.446	2.446	2.444	2.450	2.442	—	—	—	—	—	—	2.3432
—	—	—	—	—	—	2.036	2.032	2.006	2.982	2.949	2.939	2.0775
2.104	2.114	2.136	2.155	2.154	2.148	2.146	2.153	2.149	2.143	2.153	2.173	2.3130
2.347	2.375	2.392	2.408	2.408	2.408	2.410	2.406	2.406	2.402	2.402	2.424	2.4881
2.499	2.526	2.542	2.538	2.532	2.519	2.507	2.519	2.529	2.535	2.540	2.565	—
2.769	2.783	2.790	2.797	2.797	2.823	—	—	—	—	—	—	2.7341
—	—	—	—	—	—	—	—	2.849	2.837	2.836	2.836	—
2.737	2.740	2.742	2.742	2.738	2.736	—	—	—	—	—	—	2.7093
—	—	—	—	—	—	2.414	2.422	2.430	2.440	2.460	2.478	2.6924
2.721	2.754	2.774	2.790	2.800	2.819	2.825	2.828	2.830	2.840	2.884	2.890	2.9458
2.924	2.949	2.954	2.962	2.962	2.962	2.954	2.957	2.945	2.943	2.940	2.923	2.6967
2.613	2.591	2.583	2.591	2.589	2.589	2.575	2.595	2.603	2.607	2.621	2.633	2.6505
2.632	2.627	2.605	2.612	2.611	2.612	2.605	2.615	2.617	2.617	2.638	2.662	2.7624
2.778	2.786	2.791	2.793	2.792	2.793	2.764	2.756	2.749	2.738	2.744	2.741	—
2.665	2.665	2.678	2.684	2.684	2.684	—	—	—	—	—	—	2.6850
—	—	—	—	—	—	2.659	2.657	2.643	2.630	2.638	2.646	—
2.368	2.334	2.309	2.294	2.272	2.260	2.226	2.150	2.146	2.142	2.114	2.175	2.3943
2.6038	2.6119	2.6156	2.6197	2.6160	2.6115	2.5518	2.5494	2.5562	4.5486	2.5520	2.5645	2.5922
2.550	2.570	2.579	2.577	2.581	2.585	2.529	2.529	2.514	2.506	2.457	2.399	2.4632
2.596	2.600	2.622	2.613	2.605	2.622	2.639	2.677	2.733	2.753	2.777	2.816	2.5301
2.626	2.564	2.509	2.442	2.360	2.286	2.201	2.166	2.148	2.132	2.165	2.216	2.5750
2.507	2.524	2.560	2.565	2.572	2.584	2.596	2.609	2.609	2.611	2.631	2.646	2.4981
2.626	2.625	2.644	2.644	2.634	2.639	—	—	—	—	—	—	—
—	—	—	—	—	—	2.582	2.585	2.564	2.510	2.502	2.491	2.6037
2.656	2.680	2.709	2.715	2.712	2.713	2.703	2.694	2.711	2.720	2.733	2.741	2.6387
2.864	2.880	2.891	2.901	2.899	2.916	2.919	2.922	2.918	2.905	2.905	2.905	2.8543
2.582	2.544	2.522	2.484	2.455	2.416	2.359	2.315	2.286	2.224	2.175	2.155	2.5835
2.370	2.401	2.425	2.446	2.458	2.468	2.478	2.479	2.479	2.503	2.525	2.559	2.3469
2.730	2.752	2.780	2.798	2.799	2.811	2.813	2.815	2.823	2.835	2.834	2.839	2.7396
2.771	2.737	2.737	2.717	2.713	2.697	—	—	—	—	—	—	—
—	—	—	—	—	—	2.581	2.587	2.603	2.614	2.636	2.668	2.7625
2.590	2.588	2.614	2.631	2.631	2.632	2.635	2.632	2.641	2.642	2.649	2.652	2.6442
2.595	2.597	2.604	2.603	2.576	2.574	2.575	2.555	2.548	2.543	2.533	2.514	2.6139
2.438	2.431	2.431	2.445	2.445	2.455	2.447	2.435	2.451	2.451	2.471	2.525	2.4657
2.601	2.599	2.617	2.617	2.619	2.605	2.627	2.669	2.657	2.638	2.635	2.679	2.5850
2.620	2.598	2.604	2.612	2.597	2.585	2.557	2.571	2.555	2.511	2.505	2.510	2.6122
2.494	2.498	2.514	2.537	2.537	2.541	—	—	—	—	—	—	—
—	—	—	—	—	—	2.652	2.648	2.656	2.678	2.688	2.702	2.5470
2.747	2.763	2.769	2.775	2.773	2.760	2.755	2.741	2.738	2.746	2.752	2.736	2.7531
2.600	2.590	2.576	2.543	2.529	2.535	2.535	2.497	2.497	2.488	2.490	2.494	2.6106
2.486	2.496	2.466	2.483	2.483	2.501	2.507	2.508	2.516	2.522	2.516	2.530	2.4852
2.570	2.550	2.618	2.626	2.620	2.616	2.614	2.641	2.654	2.657	2.622	2.557	2.5880
6.334	2.324	2.356	2.385	2.378	2.374	2.377	2.366	2.377	2.373	2.399	2.401	2.4170
2.308	2.304	2.320	2.327	2.337	2.341	—	—	—	—	—	—	—
—	—	—	—	—	—	2.643	2.661	2.681	2.687	2.699	2.714	2.4496
2.710	2.730	2.742	2.756	2.753	2.750	2.767	2.757	2.767	2.782	2.818	2.836	2.7492
2.870	2.880	2.879	2.864	2.836	2.833	2.833	2.820	2.800	2.782	2.746	2.738	2.8510
2.544	2.544	2.544	2.556	2.564	2.564	2.544	2.544	2.516	2.536	2.541	2.562	2.6101
2.5917	2.5911	2.6012	2.6024	2.5948	2.5924	2.5949	2.5932	2.5939	2.5903	2.5925	2.5994	2.5991

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	2.566	2.572	2.569	2.568	2.555	2.548	2.536	2.514	2.496	2.464	2.461	2.492
	2	2.655	2.682	2.697	2.715	2.717	2.703	2.696	2.678	2.654	2.643	2.633	2.620
	3	2.675	2.655	2.664	2.663	2.644	2.610	2.589	2.559	2.538	2.524	2.526	2.518
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	2.832	2.850	2.843	2.843	2.845	2.833	2.801	2.801	2.761	2.749	2.718	2.736
	6	2.705	2.685	2.667	2.646	2.620	2.592	2.551	2.517	2.477	2.441	2.398	2.374
	7	2.318	2.320	2.352	2.395	2.435	2.451	2.471	2.495	2.514	2.539	2.550	2.583
	8	2.857	2.868	2.867	2.872	2.870	2.856	2.836	2.814	2.788	2.770	2.763	2.748
	9	2.744	2.758	2.782	2.788	2.806	2.810	2.826	2.835	2.837	2.843	2.852	2.870
	10	2.939	2.928	2.915	2.922	2.915	2.899	2.876	2.870	2.843	2.815	2.804	2.790
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	2.711	2.725	2.719	2.716	2.719	2.709	2.688	2.669	2.651	2.632	2.623	2.606
	13	2.637	2.645	2.641	2.634	2.626	2.611	2.588	2.571	2.547	2.525	2.510	2.506
	14	2.417	2.405	2.397	2.373	2.363	2.364	2.352	2.358	2.348	2.328	2.322	2.287
	15	2.466	2.466	2.491	2.520	2.565	2.585	2.601	2.603	2.598	2.600	2.606	2.621
	16	2.844	2.855	2.872	2.857	2.855	2.840	2.820	2.813	2.808	2.794	2.779	2.771
	17	2.790	2.801	2.805	2.792	2.781	2.760	2.743	2.727	2.698	2.682	2.665	2.657
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	2.447	2.466	2.466	2.473	2.462	2.451	2.440	2.408	2.406	2.428	2.422	2.406
	20	2.572	2.595	2.601	2.603	2.609	2.608	2.608	2.606	2.600	2.594	2.584	2.591
	21	2.762	2.776	2.784	2.790	2.786	2.779	2.761	2.759	2.744	2.733	2.719	2.715
	22	2.693	2.685	2.649	2.656	2.662	2.661	2.659	2.660	2.632	2.616	2.616	2.612
	23	2.671	2.678	2.684	2.681	2.680	2.654	2.637	2.611	2.586	2.569	2.548	2.517
	24	2.757	2.769	2.773	2.765	2.752	2.752	2.736	2.726	2.725	2.724	2.736	2.734
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	2.390	2.380	2.350	2.341	2.335	2.340	2.326	2.327	2.323	2.333	2.345	2.355
	27	2.511	2.511	2.517	2.504	2.497	2.468	2.439	2.457	2.446	2.424	2.413	2.402
	28	2.262	2.252	2.242	2.269	2.230	2.267	2.207	2.193	2.208	2.186	2.179	2.006
	29	2.662	2.685	2.718	2.732	2.756	2.756	2.757	2.765	2.773	2.793	2.798	2.802
	30	2.971	2.993	3.008	3.012	3.001	2.998	2.979	2.963	2.941	2.929	2.915	2.897
	31	2.932	2.946	2.957	2.946	2.941	2.938	2.917	2.888	2.870	2.855	2.850	2.823
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.6587	2.6649	2.6678	2.6695	2.6677	2.6609	2.6459	2.6366	2.6227	2.6123	2.6054	2.6015	
JUNE.	2	2.648	2.652	2.650	2.654	2.645	2.640	2.636	2.603	2.594	2.585	2.579	2.582
	3	2.632	2.640	2.652	2.661	2.656	2.652	2.651	2.626	2.621	2.616	2.603	2.595
	4	2.672	2.671	2.669	2.657	2.657	2.650	2.627	2.605	2.589	2.554	2.528	2.529
	5	2.588	2.612	2.630	2.655	2.682	2.711	2.713	2.719	2.719	2.713	2.720	2.726
	6	2.817	2.831	2.831	2.835	2.825	2.825	2.819	2.816	2.813	2.787	2.791	2.769
	7	2.727	2.749	2.749	2.741	2.739	2.723	2.701	2.702	2.689	2.664	2.629	2.621
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	2.574	2.579	2.593	2.604	2.599	2.592	2.596	2.594	2.583	2.573	2.571	2.568
	10	2.713	2.715	2.710	2.715	2.712	2.696	2.675	2.662	2.632	2.624	2.602	2.596
	11	2.517	2.557	2.567	2.571	2.573	2.578	2.583	2.576	2.562	2.568	2.559	2.561
	12	2.284	2.276	2.256	2.266	2.222	2.240	2.205	2.213	2.213	2.217	2.209	2.182
	13	2.393	2.401	2.437	2.445	2.432	2.416	2.415	2.423	2.396	2.398	2.395	2.394
	14	2.517	2.538	2.548	2.556	2.566	2.572	2.575	2.585	2.605	2.620	2.637	2.655
15	—	—	—	—	—	—	—	—	—	—	—	—	
16	2.631	2.623	2.649	2.650	2.642	2.630	2.648	2.623	2.613	2.585	2.601	2.581	
17	2.760	2.762	2.768	2.767	2.777	2.777	2.777	2.777	2.779	2.773	2.782	2.788	
18	2.867	2.871	2.875	2.869	2.867	2.862	2.840	2.837	2.819	2.808	2.786	2.771	
19	2.838	2.848	2.859	2.858	2.870	2.875	2.868	2.857	2.849	2.855	2.847	2.817	
20	2.791	2.777	2.763	2.759	2.737	2.718	2.691	2.681	2.656	2.635	2.621	2.602	
21	2.520	2.536	2.546	2.554	2.577	2.581	2.579	2.571	2.568	2.562	2.562	2.560	
22	—	—	—	—	—	—	—	—	—	—	—	—	
23	2.415	2.421	2.430	2.425	2.418	2.408	2.399	2.392	2.401	2.404	2.411	2.421	
24	2.428	2.420	2.443	2.430	2.428	2.417	2.376	2.359	2.398	2.380	2.392	2.394	
25	2.641	2.661	2.661	2.671	2.662	2.662	2.657	2.656	2.657	2.638	2.626	2.622	
26	2.662	2.668	2.662	2.661	2.666	2.651	2.625	2.620	2.616	2.603	2.597	2.567	
27	2.694	2.708	2.716	2.717	2.707	2.696	2.677	2.661	2.639	2.628	2.610	2.612	
28	2.542	2.548	2.522	2.476	2.460	2.451	2.450	2.438	2.414	2.416	2.398	2.398	
29	—	—	—	—	—	—	—	—	—	—	—	—	
30	2.541	2.557	2.560	2.570	2.596	2.614	2.614	2.623	2.625	2.633	2.631	2.631	
Hourly Means	2.6165	2.6248	2.6298	2.6307	2.6286	2.6255	2.6159	2.6088	2.6020	2.5936	2.5875	2.5817	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.498	2.489	2.503	2.520	2.524	2.524	2.515	2.501	2.499	2.558	2.584	2.621	2.5282
2.600	2.597	2.624	2.646	2.647	2.645	2.646	2.638	2.637	2.648	2.658	2.665	2.6560
2.518	2.528	2.538	2.542	2.536	2.533	—	—	—	—	—	—	2.6144
—	—	—	—	—	—	2.674	2.681	2.704	2.747	2.779	2.800	2.7688
2.734	2.734	2.756	2.768	2.768	2.755	2.745	2.740	2.728	2.710	2.696	2.705	2.4352
2.350	2.361	2.344	2.350	2.333	2.325	2.309	2.303	2.286	2.262	2.262	2.287	2.6009
2.606	2.655	2.725	2.717	2.730	2.747	2.765	2.780	2.797	2.806	2.824	2.844	2.7697
2.718	2.722	2.711	2.731	2.742	2.717	2.718	2.710	2.692	2.692	2.692	2.718	2.8583
2.871	2.885	2.897	2.910	2.901	2.916	2.904	2.908	2.908	2.910	2.911	2.927	2.7990
2.773	2.783	2.721	2.766	2.766	2.767	—	—	—	—	—	—	2.6517
—	—	—	—	—	—	2.695	2.671	2.678	2.672	2.675	2.693	2.5241
2.608	2.608	2.616	2.626	2.631	2.639	2.633	2.621	2.619	2.616	2.623	2.634	2.3335
2.519	2.486	2.491	2.482	2.475	2.479	2.467	2.454	2.447	2.426	2.406	2.406	2.6515
2.278	2.298	2.309	2.298	2.284	2.284	2.279	2.264	2.294	2.320	2.349	2.434	2.8004
2.639	2.668	2.691	2.718	2.737	2.742	2.763	2.769	2.781	2.794	2.795	2.816	2.6313
2.763	2.763	2.765	2.776	2.776	2.784	2.785	2.777	2.783	2.779	2.772	2.779	—
2.654	2.636	2.630	2.639	2.631	2.631	—	—	—	—	—	—	2.4619
—	—	—	—	—	—	2.388	2.396	2.404	2.397	2.401	2.434	2.556
2.416	2.410	2.470	2.442	2.483	2.483	2.484	2.494	2.510	2.521	2.541	2.556	2.6458
2.615	2.635	2.656	2.686	2.699	2.709	2.704	2.707	2.709	2.720	2.735	2.752	2.7353
2.716	2.710	2.716	2.730	2.726	2.726	2.722	2.720	2.697	2.694	2.689	2.694	2.6375
2.608	2.617	2.617	2.613	2.613	2.618	2.618	2.630	2.630	2.634	2.637	2.663	2.6347
2.527	2.546	2.567	2.597	2.604	2.637	2.644	2.669	2.712	2.722	2.739	2.753	—
2.744	2.744	2.746	2.762	2.768	2.777	—	—	—	—	—	—	2.6752
—	—	—	—	—	—	2.502	2.496	2.462	2.431	2.426	2.398	2.3957
2.382	2.385	2.415	2.429	2.442	2.452	2.461	2.461	2.466	2.473	2.488	2.498	2.4154
2.394	2.378	2.372	2.379	2.368	2.364	2.349	—	—	—	2.262	2.269	2.3384
2.249	2.272	2.316	2.377	2.395	2.448	2.489	2.510	2.552	2.583	2.591	2.639	2.8158
2.825	2.829	2.841	2.861	2.882	2.883	2.874	2.891	2.899	2.914	2.932	2.952	2.9340
2.894	2.895	2.900	2.901	2.896	2.891	2.892	2.898	2.899	2.899	2.911	2.932	—
2.814	2.811	2.813	2.817	2.818	2.818	—	—	—	—	—	—	2.8172
—	—	—	—	—	—	2.642	2.644	2.637	2.639	2.648	2.648	—
2.6042	2.6091	5.6204	2.6327	2.6361	2.6405	2.6173	2.6282	2.6319	2.6372	2.6306	2.6488	2.6355
2.576	2.583	2.583	2.596	2.592	2.585	2.579	2.581	2.584	2.584	2.605	2.624	2.6058
2.596	2.602	2.608	2.631	2.631	2.637	2.639	2.648	2.650	2.667	2.667	2.673	2.6356
2.503	2.488	2.472	2.495	2.497	2.471	2.461	2.447	2.455	2.474	2.498	2.556	2.5510
2.743	2.744	2.750	2.773	2.780	2.795	2.785	2.782	2.774	2.784	2.795	2.808	2.7292
2.745	2.739	2.742	2.748	2.744	2.742	2.737	2.723	2.728	2.729	2.737	2.745	2.7757
2.597	2.583	2.583	2.566	2.570	2.564	—	—	—	—	—	—	2.6162
—	—	—	—	—	—	2.433	2.447	2.467	2.489	2.509	2.548	2.6131
2.572	2.589	2.590	2.616	2.635	2.655	2.657	2.661	2.666	2.670	2.679	2.699	2.5877
2.590	2.566	2.557	2.546	2.525	2.497	2.471	2.473	2.418	2.450	2.465	2.495	2.4904
2.535	2.513	2.499	2.482	2.464	2.442	2.417	2.368	2.357	2.323	2.311	2.287	2.2520
2.202	2.205	2.216	2.241	2.241	2.264	2.272	2.284	2.304	2.323	2.345	2.369	2.4285
2.390	2.417	2.421	2.424	2.420	2.452	2.459	2.457	2.457	2.465	2.467	2.509	—
2.680	2.694	2.727	2.749	2.763	2.779	—	—	—	—	—	—	2.6124
—	—	—	—	—	—	2.496	2.528	2.552	2.572	2.578	2.605	2.6280
2.570	2.554	2.544	2.574	2.600	2.665	2.638	2.667	2.685	2.684	2.694	2.720	2.7981
2.800	2.795	2.810	2.823	2.821	2.822	2.822	2.818	2.829	2.834	2.841	2.852	2.8174
2.769	2.772	2.778	2.794	2.794	2.791	2.793	2.806	2.807	2.807	2.809	2.826	2.8237
2.805	2.801	2.795	2.803	2.796	2.801	2.802	2.786	2.782	2.780	2.781	2.795	2.6278
2.581	2.575	2.565	2.573	2.569	2.552	2.534	2.552	2.546	2.533	2.528	2.528	—
2.572	2.588	2.588	2.603	2.612	2.613	—	—	—	—	—	—	2.5255
—	—	—	—	—	—	2.399	2.385	2.382	2.374	2.385	2.396	2.4144
2.423	2.435	2.384	2.382	2.434	2.429	2.427	2.422	2.418	2.410	2.419	2.417	2.4584
2.406	2.416	2.442	2.463	2.484	2.498	2.527	2.540	2.559	2.573	2.600	2.628	2.6397
2.607	2.615	2.621	2.623	2.632	2.629	2.629	2.622	2.630	2.632	2.643	2.655	2.6282
2.576	2.590	2.598	2.613	2.624	2.625	2.631	2.627	2.624	2.629	2.662	2.680	2.6216
2.611	2.603	2.603	2.602	2.600	2.592	2.559	2.564	2.545	2.535	2.522	2.518	—
2.398	2.380	2.380	2.378	2.372	2.360	—	—	—	—	—	—	2.4544
—	—	—	—	—	—	2.512	2.513	2.524	2.514	2.528	2.533	—
2.633	2.637	2.631	2.635	2.628	2.620	2.609	2.586	2.584	2.577	2.577	2.587	2.6041
2.5792	2.5794	2.5795	2.5893	2.5931	2.5952	2.5715	2.5715	2.5731	2.5765	2.5858	2.6021	2.5976

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	2.586	2.577	2.564	2.562	2.539	2.508	2.486	2.464	2.434	2.456	2.416	2.382
	2	2.383	2.391	2.392	2.428	2.420	2.418	2.418	2.406	2.400	2.405	2.399	2.381
	3	2.472	2.477	2.483	2.490	2.501	2.503	2.502	2.498	2.494	2.499	2.511	2.513
	4	2.635	2.645	2.646	2.664	2.671	2.673	2.684	2.667	2.665	2.662	2.651	2.649
	5	2.747	2.765	2.759	2.757	2.755	2.752	2.743	2.735	2.718	2.709	2.696	2.669
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	2.559	2.543	2.529	2.527	2.523	2.523	2.510	2.530	2.543	2.547	2.558	2.564
	8	2.643	2.643	2.650	2.631	2.634	2.624	2.611	2.612	2.609	2.596	2.572	2.574
	9	2.755	2.769	2.773	2.783	2.798	2.798	2.784	2.781	2.767	2.755	2.730	2.714
	10	2.778	2.774	2.783	2.779	2.777	2.772	2.753	2.740	2.717	2.702	2.691	2.677
	11	2.634	2.647	2.659	2.646	2.635	2.634	2.609	2.602	2.588	2.578	2.558	2.539
	12	2.516	2.498	2.492	2.482	2.429	2.422	2.404	2.393	2.380	2.355	2.345	2.347
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	2.371	2.381	2.379	2.377	2.376	2.365	2.371	2.363	2.358	2.346	2.335	2.331
	15	2.360	2.391	2.410	2.429	2.440	2.444	2.443	2.440	2.428	2.427	2.410	2.417
	16	2.451	2.456	2.462	2.450	2.456	2.438	2.422	2.411	2.398	2.373	2.357	2.344
	17	2.241	2.267	2.289	2.317	2.340	2.348	2.363	2.366	2.376	2.390	2.396	2.413
	18	2.649	2.665	2.685	2.698	2.710	2.715	2.711	2.706	2.703	2.704	2.690	2.684
	19	2.724	2.720	2.725	2.733	2.723	2.721	2.700	2.705	2.691	2.678	2.663	2.655
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	2.472	2.475	2.473	2.462	2.460	2.437	2.409	2.391	2.364	2.337	2.328	2.287
	22	2.438	2.444	2.444	2.439	2.425	2.422	2.414	2.404	2.412	2.422	2.442	2.448
	23	2.541	2.553	2.559	2.569	2.571	2.565	2.565	2.573	2.569	2.575	2.579	2.595
	24	2.611	2.619	2.615	2.620	2.638	2.628	2.613	2.583	2.573	2.568	2.567	2.562
	25	2.551	2.553	2.548	2.545	2.544	2.529	2.510	2.508	2.488	2.469	2.463	2.459
	26	2.432	2.437	2.430	2.425	2.421	2.416	2.408	2.393	2.371	2.358	2.352	2.342
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	2.432	2.458	2.462	2.459	2.454	2.452	2.452	2.440	2.423	2.423	2.407	2.412
	29	2.319	2.324	2.316	2.278	2.250	2.228	2.200	2.178	2.162	2.138	2.133	2.117
	30	2.172	2.196	2.229	2.252	2.275	2.305	2.324	2.326	2.356	2.361	2.369	2.384
	31	2.514	2.528	2.548	2.564	2.578	2.576	2.589	2.589	2.586	2.594	2.598	2.607
Hourly Means	2.5180	2.5258	2.5298	2.5321	2.5312	2.5265	2.5184	2.5113	2.5027	2.4973	2.4895	2.4839	
AUGUST.	1	2.730	2.748	2.766	2.772	2.791	2.797	2.780	2.772	2.761	2.767	2.767	2.769
	2	2.891	2.900	2.906	2.910	2.917	2.916	2.909	2.897	2.862	2.860	2.841	2.841
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	2.796	2.807	2.801	2.794	2.801	2.796	2.770	2.761	2.753	2.738	2.730	2.719
	5	2.752	2.762	2.761	2.765	2.762	2.755	2.741	2.708	2.694	2.679	2.666	2.659
	6	2.654	2.662	2.660	2.657	2.668	2.672	2.661	2.652	2.636	2.620	2.604	2.595
	7	2.635	2.642	2.646	2.642	2.652	2.657	2.638	2.632	2.610	2.597	2.583	2.567
	8	2.623	2.645	2.658	2.667	2.677	2.682	2.674	2.653	2.640	2.617	2.615	2.622
	9	2.664	2.664	2.664	2.661	2.660	2.658	2.652	2.644	2.631	2.615	2.615	2.582
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	2.299	2.308	2.312	2.324	2.330	2.316	2.302	2.302	2.305	2.295	2.293	2.301
	12	2.454	2.472	2.480	2.489	2.487	2.483	2.482	2.478	2.466	2.463	2.471	2.479
	13	2.563	2.565	2.566	2.567	2.573	2.559	2.544	2.528	2.522	2.516	2.506	2.503
	14	2.685	2.699	2.716	2.718	2.726	2.722	2.718	2.716	2.710	2.703	2.700	2.704
	15	2.746	2.738	2.743	2.747	2.749	2.738	2.736	2.723	2.719	2.707	2.697	2.683
	16	2.675	2.691	2.701	2.707	2.713	2.715	2.717	2.708	2.698	2.691	2.684	2.683
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	2.477	2.483	2.486	2.490	2.493	2.486	2.497	2.497	2.501	2.506	2.514	2.526
	19	2.678	2.695	2.709	2.721	2.729	2.704	2.716	2.717	2.700	2.691	2.691	2.685
	20	2.647	2.655	2.655	2.641	2.644	2.634	2.624	2.605	2.578	2.571	2.570	2.574
	21	2.558	2.556	2.548	2.545	2.544	2.542	2.541	2.541	2.535	2.527	2.527	2.515
	22	2.633	2.642	2.652	2.659	2.669	2.663	2.658	2.638	2.631	2.614	2.603	2.603
	23	2.628	2.641	2.646	2.640	2.635	2.641	2.640	2.637	2.621	2.611	2.597	2.594
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	2.717	2.722	2.736	2.737	2.733	2.704	2.689	2.661	2.647	2.617	2.618	2.586
	26	2.645	2.653	2.664	2.662	2.662	2.665	2.659	2.646	2.640	2.624	2.620	2.618
	27	2.509	2.575	2.547	2.549	2.576	2.576	2.558	2.596	2.596	2.598	2.594	2.620
	28	2.834	2.840	2.849	2.873	2.890	2.897	2.895	2.898	2.888	2.862	2.847	2.843
	29	2.745	2.743	2.709	2.689	2.674	2.656	2.634	2.621	2.584	2.553	2.535	2.517
	30	2.461	2.467	2.479	2.486	2.484	2.472	2.480	2.471	2.468	2.413	2.474	2.477
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	2.6423	2.6529	2.6562	2.6582	2.6630	2.6579	2.6517	2.6424	2.6306	2.6175	2.6139	2.6102	

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.386	2.383	2.381	2.367	2.349	2.343	2.339	2.335	2.335	2.337	2.337	2.349	2.4256
2.387	2.390	2.390	2.404	2.404	2.421	2.429	2.424	2.432	2.434	2.446	2.451	2.4105
2.517	2.533	2.553	2.572	2.583	2.598	2.588	2.584	2.581	2.587	2.599	2.621	2.5358
2.655	2.665	2.665	2.679	2.687	2.679	2.676	2.698	2.705	2.718	2.731	2.737	2.6753
2.666	2.670	2.672	2.681	2.693	2.697	—	—	—	—	—	—	—
—	—	—	—	—	—	2.590	2.588	2.576	2.564	2.568	2.564	2.6806
2.565	2.586	2.602	2.612	2.616	2.609	2.611	2.620	2.613	2.624	2.615	2.641	2.5737
2.573	2.579	2.594	2.624	2.636	2.645	2.669	2.694	2.714	2.717	2.734	2.750	2.6387
2.711	2.709	2.697	2.712	2.711	2.715	2.719	2.738	2.748	2.756	2.742	2.769	2.7473
2.663	2.647	2.677	2.684	2.686	2.681	2.673	2.657	2.656	2.640	2.641	2.633	2.7034
2.541	2.531	2.527	2.534	2.527	2.528	2.516	2.508	2.505	2.501	2.497	2.503	2.5645
2.344	2.341	2.339	2.340	2.345	2.359	—	—	—	—	—	—	—
—	—	—	—	—	—	2.307	2.317	2.328	2.329	2.341	2.371	2.3802
2.335	2.341	2.337	2.358	2.357	2.351	2.342	2.352	2.358	2.352	2.357	2.362	2.3565
2.421	2.421	2.414	2.430	2.432	2.428	2.448	2.445	2.447	2.465	2.450	2.455	2.4290
2.340	2.344	2.356	2.351	2.332	2.321	2.306	2.272	2.254	2.231	2.223	2.220	2.3570
2.427	2.441	2.454	2.479	2.523	2.541	2.552	2.568	2.585	2.595	2.608	2.630	2.4379
2.690	2.690	2.698	2.689	2.685	2.709	2.710	2.716	2.711	2.711	2.701	2.715	2.6977
2.651	2.647	2.637	2.662	2.650	2.630	—	—	—	—	—	—	—
—	—	—	—	—	—	2.415	2.417	2.427	2.431	2.427	2.478	2.6212
2.345	2.335	2.337	2.373	2.369	2.378	2.381	2.398	2.406	2.404	2.414	2.430	2.3944
2.460	2.476	2.485	2.508	2.510	2.511	2.501	2.508	2.506	2.503	2.513	2.529	2.4652
2.599	2.603	2.605	2.622	2.622	2.614	2.608	2.604	2.605	2.585	2.592	2.605	2.5866
2.564	2.564	2.570	2.572	2.570	2.564	2.555	2.552	2.553	2.543	2.537	2.547	2.5787
2.455	2.455	2.457	2.463	2.459	2.459	2.452	2.455	2.445	2.441	2.443	2.435	2.4827
2.346	2.346	2.360	2.368	2.366	2.357	—	—	—	—	—	—	—
—	—	—	—	—	—	2.428	2.428	2.420	2.414	2.414	2.418	2.3937
2.414	2.416	2.417	2.419	2.410	2.412	2.411	2.411	2.402	2.381	2.365	2.329	2.4192
2.111	2.121	2.123	2.113	2.101	2.115	2.115	2.117	2.117	2.113	2.127	2.147	2.1693
2.400	2.416	2.440	2.460	2.465	2.477	2.468	2.470	2.467	2.472	2.478	2.508	2.3779
2.608	2.620	2.630	2.644	2.651	2.659	2.671	2.687	2.692	2.696	2.706	2.723	2.6191
2.4879	2.4915	2.4969	2.5081	2.5089	2.5111	2.4993	2.5023	2.5033	2.5016	2.5039	2.5156	2.5082
2.791	2.791	2.813	2.825	2.832	2.842	2.846	2.861	2.851	2.861	2.868	2.876	2.8028
2.845	2.855	2.861	2.867	2.872	2.864	—	—	—	—	—	—	—
—	—	—	—	—	—	2.795	2.790	2.778	2.776	2.776	2.782	2.8546
2.713	2.711	2.713	2.732	2.753	2.746	2.747	2.745	2.740	2.738	2.732	2.739	2.7531
2.658	2.662	2.663	2.664	2.659	2.655	2.655	2.660	2.651	2.642	2.643	2.655	2.6905
2.599	2.603	2.602	2.616	2.620	2.623	2.618	2.629	2.628	2.625	2.633	2.628	2.6319
2.582	2.582	2.588	2.604	2.604	2.604	2.600	2.595	2.607	2.601	2.602	2.595	2.6110
2.622	2.616	2.637	2.643	2.636	2.642	2.651	2.647	2.643	2.645	2.643	2.647	2.6435
2.578	2.584	2.593	2.591	2.581	2.581	—	—	—	—	—	—	—
—	—	—	—	—	—	2.328	2.314	2.306	2.300	2.294	2.289	2.5437
2.318	2.347	2.360	2.369	2.372	2.370	2.367	2.383	2.394	2.395	2.397	2.424	2.3409
2.492	2.497	2.510	2.520	2.532	2.533	2.544	2.550	2.554	2.548	2.544	2.557	2.5035
2.497	2.510	2.538	2.552	2.558	2.580	2.582	2.587	2.605	2.616	2.636	2.673	2.5602
2.706	2.709	2.715	2.726	2.727	2.725	2.727	2.719	2.721	2.721	2.736	2.732	2.7159
2.660	2.658	2.665	2.675	2.672	2.667	2.663	2.654	2.654	2.654	2.657	2.661	2.6944
2.681	2.681	2.696	2.705	2.715	2.717	—	—	—	—	—	—	—
—	—	—	—	—	—	2.524	2.507	2.483	2.472	2.468	2.475	2.6461
2.542	2.554	2.574	2.594	2.594	2.622	2.632	2.637	2.641	2.643	2.647	2.667	2.5543
2.675	2.663	2.665	2.662	2.658	2.662	2.658	2.644	2.635	2.631	2.647	2.642	2.6783
2.570	2.547	2.547	2.556	2.556	2.554	2.550	2.541	2.543	2.540	2.538	2.538	2.5824
2.522	2.533	2.551	2.571	2.572	2.577	2.584	2.586	2.586	2.591	2.593	2.614	2.5566
2.609	2.609	2.621	2.609	2.614	2.620	2.623	2.605	2.608	2.598	2.591	2.604	2.6240
2.603	2.609	2.632	2.652	2.667	2.675	—	—	—	—	—	—	—
—	—	—	—	—	—	2.713	2.705	2.687	2.688	2.692	2.717	2.6488
2.572	2.552	2.552	2.569	2.577	2.585	2.593	2.603	2.596	2.599	2.606	2.620	2.6330
2.608	2.590	2.590	2.597	2.589	2.574	2.561	2.539	2.524	2.526	2.519	2.517	2.6038
2.638	2.664	2.680	2.710	2.714	2.718	2.736	2.748	2.753	2.758	2.767	2.793	2.6501
2.835	2.827	2.840	2.826	2.815	2.813	2.803	2.769	2.759	2.747	2.739	2.733	2.8301
2.514	2.512	2.506	2.533	2.494	2.494	2.490	2.486	2.470	2.460	2.454	2.457	2.5637
2.493	2.508	2.541	2.551	2.553	2.560	—	—	—	—	—	—	—
—	—	—	—	—	—	2.610	2.595	2.582	2.575	2.591	2.575	2.5153
2.6124	2.6144	2.6251	2.6353	2.6360	2.6386	2.6231	2.6192	2.6153	2.6135	2.6159	2.6235	2.6320

BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	2.580	2.581	2.593	2.579	2.559	2.537	2.519	2.495	2.461	2.425	2.425	2.420
	2	2.263	2.271	2.268	2.263	2.272	2.260	2.246	2.224	2.221	2.205	2.205	2.216
	3	2.233	2.259	2.276	2.282	2.277	2.278	2.275	2.273	2.267	2.258	2.252	2.265
	4	2.314	2.314	2.306	2.305	2.310	2.302	2.294	2.293	2.304	2.321	2.341	2.372
	5	2.515	2.525	2.531	2.547	2.549	2.539	2.527	2.520	2.537	2.531	2.526	2.550
	6	2.682	2.694	2.692	2.698	2.686	2.668	2.652	2.627	2.601	2.550	2.554	2.514
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	2.709	2.733	2.743	2.755	2.776	2.783	2.779	2.775	2.765	2.757	2.755	2.746
	9	2.486	2.520	2.464	2.492	2.496	2.502	2.509	2.488	2.502	2.501	2.507	2.531
	10	2.640	2.644	2.642	2.643	2.639	2.642	2.644	2.646	2.655	2.658	2.684	2.702
	11	2.833	2.840	2.848	2.877	2.879	2.866	2.860	2.847	2.842	2.837	2.844	2.857
	12	3.000	3.014	3.022	3.023	3.022	3.025	3.011	3.001	2.958	2.950	2.965	2.959
	13	2.777	2.758	2.726	2.696	2.668	2.642	2.620	2.582	2.545	2.475	2.417	2.357
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	2.457	2.451	2.443	2.446	2.469	2.473	2.471	2.466	2.468	2.475	2.502	2.535
	16	2.781	2.801	2.817	2.839	2.846	2.849	2.851	2.833	2.821	2.806	2.794	2.794
	17	2.802	2.805	2.799	2.781	2.753	2.724	2.698	2.657	2.614	2.584	2.574	2.539
	18	2.439	2.435	2.431	2.427	2.439	2.427	2.401	2.408	2.412	2.409	2.427	2.452
	19	2.614	2.622	2.628	2.609	2.621	2.608	2.596	2.584	2.558	2.542	2.521	2.528
	20	2.385	2.312	2.312	2.288	2.262	2.232	2.222	2.190	2.151	2.190	2.204	2.224
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	2.696	2.716	2.726	2.742	2.719	2.723	2.728	2.702	2.681	2.667	2.667	2.661
	23	2.514	2.494	2.470	2.464	2.437	2.407	2.387	2.364	2.358	2.342	2.340	2.327
	24	2.502	2.530	2.552	2.593	2.625	2.645	2.665	2.680	2.695	2.713	2.733	2.751
	25	2.748	2.745	2.742	2.748	2.736	2.709	2.687	2.676	2.656	2.642	2.631	2.631
	26	2.533	2.533	2.525	2.515	2.503	2.487	2.487	2.461	2.444	2.446	2.473	2.485
	27	2.721	2.727	2.745	2.781	2.791	2.795	2.788	2.782	2.777	2.774	2.775	2.773
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	2.626	2.632	2.631	2.625	2.609	2.539	2.530	2.554	2.528	2.528	2.510	2.469
	30	2.348	2.326	2.328	2.320	2.310	2.307	2.294	2.273	2.259	2.251	2.221	2.239
Hourly Means	2.5845	2.5878	2.5869	2.5899	2.5867	2.5757	2.5670	2.5539	2.5415	2.5322	2.5326	2.5355	
OCTOBER.	1	2.302	2.313	2.318	2.331	2.335	2.339	2.347	2.347	2.349	2.371	2.389	2.427
	2	2.674	2.698	2.702	2.718	2.730	2.717	2.703	2.682	2.671	2.647	2.647	2.647
	3	2.719	2.753	2.777	2.809	2.823	2.845	2.863	2.863	2.863	2.866	2.872	2.868
	4	2.826	2.804	2.785	2.756	2.737	2.715	2.685	2.653	2.622	2.596	2.581	2.547
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	2.924	2.944	2.960	2.960	2.965	2.951	2.945	2.905	2.901	2.890	2.901	2.873
	7	2.800	2.816	2.802	2.791	2.802	2.791	2.786	2.768	2.750	2.766	2.750	2.746
	8	2.768	2.774	2.764	2.763	2.754	2.738	2.711	2.670	2.645	2.621	2.601	2.577
	9	2.414	2.414	2.424	2.445	2.464	2.509	2.523	2.536	2.548	2.559	2.578	2.591
	10	2.581	2.571	2.583	2.562	2.561	2.537	2.516	2.488	2.466	2.450	2.439	2.414
	11	2.434	2.450	2.468	2.469	2.473	2.479	2.475	2.463	2.463	2.459	2.459	2.439
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	2.700	2.726	2.750	2.764	2.767	2.772	2.779	2.779	2.744	2.757	2.765	2.750
	14	2.746	2.784	2.796	2.834	2.844	2.848	2.854	2.876	2.884	2.894	2.907	2.911
	15	3.030	3.048	3.054	3.072	3.070	3.078	3.074	3.074	3.067	3.085	3.095	3.102
	16	3.177	3.189	3.206	3.209	3.200	3.186	3.170	3.127	3.102	3.074	3.060	3.051
	17	3.004	3.011	3.010	3.011	3.007	2.993	2.960	2.938	2.910	2.898	2.876	2.885
	18	2.858	2.886	2.886	2.873	2.857	2.838	2.814	2.784	2.762	2.762	2.704	2.687
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	2.919	2.938	2.959	2.961	2.957	2.949	2.939	2.936	2.930	2.944	2.961	2.994
	21	3.148	3.158	3.164	3.205	3.213	3.223	3.215	3.203	3.209	3.209	3.209	3.209
	22	3.233	3.233	3.239	3.242	3.240	3.227	3.198	3.182	3.166	3.137	3.129	3.107
	23	3.012	3.017	3.011	3.015	3.008	2.978	2.953	2.930	2.897	2.888	2.878	2.884
	24	2.885	2.901	2.907	2.915	2.912	2.907	2.898	2.890	2.892	2.900	2.903	2.904
	25	2.959	2.981	2.981	2.985	2.989	2.992	2.953	2.951	2.943	2.943	2.941	2.941
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	2.907	2.907	2.917	2.920	2.921	2.913	2.898	2.885	2.872	2.856	2.855	2.847
	28	2.883	2.889	2.893	2.893	2.892	2.884	2.858	2.841	2.821	2.812	2.804	2.788
	29	2.762	2.758	2.758	2.746	2.726	2.707	2.672	2.633	2.600	2.580	2.564	2.574
	30	2.589	2.605	2.619	2.638	2.644	2.644	2.644	2.645	2.649	2.665	2.686	2.706
	31	2.621	2.617	2.599	2.591	2.579	2.539	2.499	2.451	2.421	2.403	2.391	3.372
Hourly Means	2.8102	2.8217	2.8271	2.8325	2.8322	2.8259	2.8123	2.7963	2.7832	2.7790	2.7757	2.7719	



BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.401	2.395	2.417	2.414	2.392	2.360	2.308	2.290	—	—	—	—	2.4575
2.207	2.209	2.195	2.197	2.180	2.200	2.204	2.202	2.202	2.204	2.205	2.215	2.2222
2.298	2.311	2.324	2.340	2.346	2.349	2.320	2.333	2.337	2.318	2.310	2.310	2.2955
2.392	2.407	2.441	2.445	2.457	2.461	2.464	2.469	2.470	2.481	2.493	2.508	2.3860
2.551	2.569	2.593	2.611	2.617	2.631	2.638	2.657	2.670	2.656	2.651	2.675	2.5798
2.506	2.500	2.462	2.448	2.432	2.386	—	—	—	—	—	—	—
—	—	—	—	—	—	2.625	2.640	2.646	2.654	2.669	2.682	2.5945
2.728	2.717	2.705	2.685	2.672	2.654	2.625	2.591	2.565	2.536	2.520	2.485	2.6900
2.539	2.551	2.569	2.571	2.576	2.578	2.591	2.584	2.594	2.595	2.601	2.632	2.5408
2.729	2.734	2.756	2.761	2.766	2.779	2.773	2.786	2.787	2.789	2.799	2.824	2.7134
2.863	2.877	2.893	2.910	2.922	2.924	2.942	2.943	2.943	2.949	2.952	2.982	2.8887
2.947	2.938	2.692	2.913	2.895	2.892	2.883	2.875	2.851	2.818	2.802	2.776	2.9361
2.320	2.298	2.300	2.296	2.300	2.313	—	—	—	—	—	—	—
—	—	—	—	—	—	2.497	2.495	2.488	2.478	2.470	2.454	2.4988
2.563	2.572	2.606	2.622	2.628	2.642	2.643	2.663	2.664	2.670	2.705	2.737	2.5571
2.795	2.795	2.802	2.792	2.784	2.795	2.785	2.801	2.803	2.792	2.798	2.800	2.8072
2.521	2.509	2.509	2.512	2.500	2.498	2.500	2.480	2.452	2.442	2.434	2.438	2.5885
2.468	2.485	2.504	2.520	2.529	2.540	2.547	2.558	2.562	2.575	2.581	2.587	2.4818
2.510	2.522	2.527	2.514	2.486	2.458	2.443	2.429	2.399	2.391	2.383	2.355	2.5187
2.242	2.276	2.279	2.290	2.296	2.300	—	—	—	—	—	—	—
—	—	—	—	—	—	2.619	2.627	2.636	2.646	2.656	2.669	2.3545
2.656	2.665	2.661	2.647	2.641	2.625	2.607	2.605	2.599	2.557	2.552	2.530	2.6572
2.334	2.342	2.344	2.357	2.365	2.357	2.359	2.359	2.375	2.393	2.425	2.468	2.3909
2.755	2.773	2.785	2.787	2.789	2.777	2.777	2.771	2.755	2.750	2.748	2.742	2.7039
2.621	2.631	2.632	2.624	2.620	2.614	2.603	2.585	2.575	2.562	2.558	2.542	2.6466
2.499	2.527	2.555	2.561	2.582	2.589	2.600	2.616	2.624	2.645	2.664	2.697	2.5438
2.769	2.777	2.781	2.764	2.767	2.765	—	—	—	—	—	—	—
—	—	—	—	—	—	2.657	2.652	2.640	2.636	2.636	2.624	2.7374
2.481	2.474	2.466	2.461	2.451	2.441	2.427	2.429	2.405	2.391	2.380	2.363	2.4990
2.242	2.244	2.272	2.273	2.278	2.276	2.278	2.276	2.284	2.284	2.285	2.289	2.2815
2.5360	2.5422	2.5502	2.5506	2.5489	2.5463	2.5660	2.5660	2.5730	2.5685	2.5711	2.5754	2.5611
2.447	2.477	2.501	2.520	2.549	2.551	2.552	2.580	2.593	2.619	2.644	2.656	2.4524
2.639	2.655	2.651	2.651	2.641	2.641	2.637	2.628	2.622	2.636	2.636	2.679	2.6647
2.868	2.880	2.880	2.876	2.872	2.872	2.862	2.867	2.855	2.837	2.837	2.825	2.8438
2.543	2.521	2.493	2.490	2.466	2.466	—	—	—	—	—	—	—
—	—	—	—	—	—	2.836	2.864	2.872	2.873	2.890	2.908	2.6887
2.882	2.890	2.898	2.906	2.879	2.863	2.839	2.832	2.819	2.813	2.801	2.790	2.8888
2.747	2.759	2.777	2.763	2.753	2.761	2.771	2.755	2.771	2.770	2.776	2.776	2.7728
2.540	2.512	2.492	2.452	2.426	2.410	2.396	2.386	2.374	2.368	2.364	2.374	2.5617
2.591	2.604	2.612	2.604	2.604	2.606	2.601	2.625	2.613	2.609	2.591	2.588	2.5522
2.396	2.390	2.384	2.379	2.379	2.367	2.363	2.360	2.364	2.368	2.370	2.404	2.4455
2.437	2.435	2.417	2.363	2.355	2.336	—	—	—	—	—	—	—
—	—	—	—	—	—	2.536	2.554	2.576	2.609	2.633	2.661	2.4768
2.748	2.745	2.743	2.745	2.745	2.726	2.720	2.712	2.707	2.698	2.690	2.702	2.7389
2.930	2.948	2.943	2.958	2.954	2.962	2.971	2.973	2.975	2.978	2.991	3.006	2.9070
3.112	3.118	3.124	3.133	3.137	3.148	3.142	3.158	3.168	3.170	3.172	3.174	3.1085
3.033	3.020	3.014	3.020	3.036	3.037	3.027	3.018	3.009	3.004	3.004	3.004	3.0824
2.879	2.886	2.897	2.885	2.885	2.885	2.875	2.868	2.867	2.858	2.862	2.858	2.9170
2.692	2.685	2.677	2.653	2.633	2.625	—	—	—	—	—	—	—
—	—	—	—	—	—	2.876	2.876	2.878	2.895	2.909	2.913	2.7926
3.014	3.040	3.057	3.078	3.101	3.098	3.099	3.102	3.110	3.111	3.121	3.148	3.0194
3.209	3.206	3.206	3.209	3.205	3.205	3.200	3.213	3.219	3.215	3.223	3.230	3.2044
3.108	3.094	3.098	3.090	3.091	3.065	3.056	3.052	3.026	3.018	3.014	3.015	3.1275
2.883	2.867	2.869	2.864	2.870	2.870	2.868	2.868	2.862	2.861	2.861	2.879	2.9155
2.917	2.919	2.929	2.936	2.937	2.938	2.946	2.947	2.945	2.939	2.949	2.949	2.9194
2.951	2.943	2.947	2.947	2.945	2.946	—	—	—	—	—	—	—
—	—	—	—	—	—	2.878	2.878	2.869	2.873	2.873	2.891	2.9375
2.855	2.860	2.873	2.881	2.875	2.874	2.874	2.872	2.874	2.876	2.876	2.878	2.8819
2.800	2.832	2.801	2.803	2.801	2.800	2.795	2.793	2.794	2.788	2.787	2.775	2.8261
2.578	2.564	2.566	2.574	2.572	2.563	2.557	2.567	2.578	2.572	2.578	2.582	2.6221
2.717	2.717	2.724	2.724	2.718	2.696	2.691	2.681	2.669	2.657	2.651	2.631	2.6671
2.378	2.350	2.344	2.343	2.336	2.338	2.346	2.354	2.365	2.365	2.366	2.368	2.4307
2.7739	2.7747	2.7747	2.7721	2.7691	2.7648	2.7894	2.7920	2.7916	2.7919	2.7951	2.8024	2.7941



BAROMETRIC PRESSURE.													
Barometer at 32° = 27 English inches + the numbers in the Table.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	2.394	2.396	2.395	2.375	2.357	2.341	2.321	2.305	2.283	2.286	2.294	2.302
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	2.079	2.081	2.085	2.078	2.082	2.082	2.087	2.094	2.109	2.139	2.162	2.178
	4	2.306	2.318	2.336	2.342	2.357	2.363	2.353	2.349	2.348	2.353	2.365	2.391
	5	2.279	2.275	2.275	2.277	2.267	2.267	2.259	2.267	2.263	2.283	2.287	2.295
	6	2.275	2.291	2.289	2.291	2.285	2.285	2.289	2.286	2.301	2.332	2.362	2.411
	7	2.619	2.637	2.637	2.621	2.619	2.605	2.575	2.557	2.534	2.524	2.510	2.496
	8	2.327	2.341	2.346	2.362	2.370	2.391	2.400	2.400	2.406	2.423	2.433	2.453
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	2.333	2.340	2.352	2.384	2.389	2.388	2.375	2.370	2.362	2.360	2.363	2.378
	11	2.483	2.501	2.527	2.551	2.567	2.567	2.555	2.555	2.559	2.579	2.591	2.613
	12	2.685	2.708	2.734	2.756	2.764	2.768	2.757	2.723	2.715	2.717	2.709	2.721
	13	2.690	2.688	2.690	2.675	2.658	2.618	2.578	2.537	2.510	2.499	2.468	2.468
	14	2.397	2.404	2.404	2.392	2.398	2.354	2.345	2.358	2.383	2.409	2.450	2.482
	15	2.674	2.699	2.717	2.721	2.732	2.714	2.675	2.657	2.611	2.597	2.589	2.551
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	2.504	2.508	2.522	2.528	2.538	2.530	2.513	2.503	2.503	2.499	2.505	2.511
	18	2.498	2.493	2.493	2.505	2.505	2.449	2.427	2.393	2.377	2.357	2.327	2.319
	19	2.283	2.300	2.314	2.315	2.322	2.326	2.318	2.312	2.317	2.325	2.327	2.345
	20	2.210	2.200	2.201	2.178	2.170	2.157	2.123	2.104	2.076	2.062	2.053	2.104
	21	2.254	2.274	2.305	2.316	2.324	2.328	2.324	2.314	2.330	2.354	2.378	2.406
	22	2.567	2.579	2.591	2.606	2.603	2.595	2.576	2.573	2.541	2.511	2.491	2.475
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	2.771	2.802	2.836	2.853	2.871	2.847	2.845	2.840	2.840	2.856	2.860	2.890
	25	2.757	2.729	2.691	2.661	2.671	2.670	2.663	2.666	2.679	2.699	2.723	2.748
	26	3.003	3.006	3.008	2.987	2.971	2.943	2.913	2.877	2.850	2.814	2.791	2.752
	27	2.458	2.463	2.450	2.447	2.447	2.441	2.432	2.412	2.412	2.437	2.451	2.477
	28	2.661	2.708	2.712	2.735	2.771	2.777	2.766	2.776	2.782	2.792	2.815	2.835
	29	3.044	3.062	3.098	3.112	3.126	3.129	3.107	3.097	3.080	3.084	3.082	3.078
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	2.5020	2.5121	2.5203	2.5227	2.5266	2.5174	2.5030	2.4930	2.4868	2.4916	2.4954	2.5072
DECEMBER.	1	2.770	2.755	2.729	2.670	2.658	2.634	2.603	2.563	2.538	2.530	2.551	2.546
	2	2.718	2.755	2.784	2.810	2.833	2.824	2.815	2.807	2.809	2.826	2.840	2.852
	3	2.960	2.962	2.971	2.957	2.963	2.949	2.926	2.898	2.882	2.868	2.840	2.832
	4	2.546	2.536	2.522	2.500	2.478	2.454	2.445	2.438	2.417	2.421	2.414	2.387
	5	2.346	2.366	2.388	2.412	2.424	2.442	2.454	2.488	2.505	2.523	2.548	2.594
	6	2.899	2.915	2.933	2.947	2.965	2.966	2.953	2.945	2.945	2.945	2.965	2.981
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	2.681	2.669	2.660	2.644	2.621	2.579	2.542	2.531	2.498	2.481	2.467	2.443
	9	2.303	2.317	2.312	2.298	2.302	2.293	2.259	2.242	2.228	2.234	2.234	2.246
	10	2.547	2.573	2.597	2.614	2.619	2.605	2.595	2.583	2.579	2.581	2.598	2.600
	11	2.868	2.904	2.946	2.962	2.993	2.995	2.985	2.989	2.996	3.012	3.022	3.042
	12	3.178	3.188	3.204	3.210	3.215	3.214	3.203	3.194	3.182	3.181	3.195	3.184
	13	3.059	3.041	3.023	3.011	3.009	2.994	2.955	2.933	2.894	2.880	2.864	2.826
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	2.526	2.518	2.514	2.502	2.519	2.501	2.487	2.466	2.446	2.458	2.476	2.494
	16	2.651	2.668	2.678	2.672	2.682	2.674	2.644	2.640	2.645	2.672	2.684	2.669
	17	2.599	2.599	2.604	2.610	2.572	2.566	2.524	2.468	2.422	2.403	2.396	2.382
	18	2.355	2.374	2.393	2.400	2.410	2.398	2.362	2.351	2.327	2.313	2.304	2.288
	19	2.384	2.385	2.375	2.372	2.374	2.379	2.381	2.394	2.401	2.435	2.450	2.483
	20	2.682	2.694	2.711	2.716	2.710	2.688	2.677	2.674	2.667	2.667	2.666	2.683
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	2.600	2.606	2.609	2.607	2.621	2.632	2.624	2.637	2.635	2.653	2.682	2.708
	23	2.846	2.856	2.860	2.872	2.894	2.898	2.893	2.875	2.876	2.890	2.906	2.917
	24	2.945	2.947	2.969	2.986	2.978	2.967	2.938	2.916	2.909	2.912	2.906	2.900
	25 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	26	2.942	2.974	3.004	3.018	3.061	3.065	3.046	3.022	3.009	3.003	3.012	3.023
	27	2.864	2.856	2.838	2.813	2.787	2.732	2.691	2.638	2.582	2.578	2.579	2.579
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	2.416	2.426	2.430	2.427	2.424	2.416	2.391	2.363	2.382	2.388	2.411	2.427
	30	2.557	2.571	2.589	2.615	2.652	2.649	2.637	2.638	2.648	2.680	2.700	2.701
	31	2.980	2.988	2.996	3.008	3.040	3.005	2.992	2.963	2.960	2.968	2.959	2.949
Hourly Means	2.7008	2.7093	2.7169	2.7174	2.7232	2.7123	2.6932	2.6798	2.6685	2.6732	2.6796	2.6822	

<sup>a</sup> Christmas-day.

BAROMETRIC PRESSURE.												
Barometer at 32° = 27 English inches + the numbers in the Table.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
2.314	2.316	2.313	2.297	2.299	2.290	—	—	—	—	—	—	2.2916
2.189	2.199	2.211	2.220	2.237	2.238	2.269	2.223	2.220	2.163	2.152	2.094	2.1733
2.374	2.374	2.374	2.370	2.356	2.346	2.338	2.320	2.317	2.311	2.303	2.291	2.3440
2.307	2.311	2.315	2.321	2.319	2.315	2.311	2.299	2.294	2.289	2.270	2.275	2.2883
2.460	2.499	2.512	2.535	2.553	2.567	2.569	2.595	2.595	2.595	2.601	2.615	2.4330
2.496	2.486	2.463	2.445	2.435	2.415	2.391	2.381	2.371	2.357	2.351	2.325	2.4938
2.467	2.479	2.487	2.451	2.450	2.446	—	—	—	—	—	—	2.3985
—	—	—	—	—	—	2.364	2.356	2.359	2.349	2.354	2.351	—
2.446	2.412	2.434	2.441	2.449	2.433	2.443	2.431	2.451	2.451	2.461	2.467	2.4047
2.625	2.629	2.639	2.649	2.657	2.658	2.658	2.656	2.657	2.662	2.672	2.672	2.6034
2.727	2.714	2.728	2.728	2.728	2.724	2.724	2.710	2.710	2.702	2.696	2.696	2.7227
2.469	2.459	2.438	2.411	2.402	2.398	2.383	2.407	2.411	2.409	2.401	2.381	2.5020
2.504	2.536	2.566	2.570	2.596	2.598	2.612	2.622	2.631	2.655	2.689	2.676	2.5013
2.545	2.539	2.495	2.453	2.428	2.400	—	—	—	—	—	—	—
—	—	—	—	—	—	2.477	2.491	2.497	2.498	2.498	2.500	2.5732
2.511	2.513	2.508	2.510	2.507	2.511	2.508	2.512	2.513	2.507	2.504	2.498	2.5111
2.290	2.241	2.193	2.164	2.176	2.176	2.162	2.186	2.214	2.245	2.255	2.277	2.3217
2.356	2.351	2.355	2.325	2.317	2.317	2.303	2.297	2.273	2.271	2.261	2.235	2.3110
2.120	2.122	2.110	2.128	2.129	2.131	2.149	2.155	2.178	2.193	2.209	2.229	2.1455
2.428	2.436	2.450	2.458	2.463	2.477	2.485	2.495	2.521	2.522	2.541	2.560	2.4060
2.424	2.336	2.287	2.242	2.206	2.170	—	—	—	—	—	—	—
—	—	—	—	—	—	2.622	2.640	2.654	2.682	2.704	2.736	2.5171
2.876	2.884	2.888	2.884	2.883	2.887	2.885	2.861	2.851	2.835	2.820	2.793	2.8524
2.779	2.801	2.836	2.844	2.872	2.896	2.908	2.928	2.934	2.958	2.968	2.989	2.7946
2.714	2.673	2.624	2.600	2.602	2.589	2.562	2.532	2.522	2.500	2.484	2.476	2.7414
2.483	2.511	2.531	2.540	2.543	2.540	2.544	2.555	2.579	2.607	2.617	2.638	2.5006
2.864	2.890	2.922	2.936	2.944	2.966	2.970	2.983	2.989	2.999	3.019	3.025	2.8599
3.068	3.075	3.075	3.061	3.060	3.048	—	—	—	—	—	—	—
—	—	—	—	—	—	2.888	2.862	2.839	2.822	2.795	2.786	3.0199
2.5134	2.5114	2.5102	2.5033	2.5044	2.5014	2.5105	2.5099	2.5139	2.5143	2.5162	2.5153	2.5084
2.563	2.557	2.565	2.569	2.579	2.583	2.590	2.598	2.605	2.632	2.649	2.682	2.6133
2.866	2.874	2.892	2.911	2.913	2.927	2.937	2.943	2.962	2.978	2.982	2.964	2.8676
2.830	2.820	2.814	2.747	2.743	2.725	2.710	2.664	2.642	2.623	2.583	2.564	2.8114
2.386	2.368	2.353	2.342	2.326	2.290	2.266	2.246	2.230	2.252	2.281	2.296	2.3831
2.631	2.674	2.698	2.716	2.731	2.750	2.762	2.771	2.816	2.839	2.865	2.883	2.6094
2.991	3.022	3.047	3.049	3.065	3.082	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	2.740	2.738	2.734	2.687	2.9325
2.434	2.421	2.389	2.397	2.402	2.390	2.387	2.351	2.359	2.363	2.333	2.345	2.4745
2.250	2.246	2.243	2.233	2.272	2.296	2.340	2.387	2.440	2.472	2.491	2.515	2.3105
2.590	2.603	2.611	2.641	2.661	2.692	2.710	2.737	2.747	2.787	2.813	2.838	2.6467
3.052	3.058	3.068	3.074	3.088	3.096	3.103	3.115	3.127	3.139	3.153	3.163	3.0396
3.184	3.190	3.182	3.162	3.152	3.152	3.137	3.121	3.117	3.111	3.100	3.067	3.1676
2.804	2.780	2.768	2.748	2.720	2.700	—	—	—	—	—	—	—
—	—	—	—	—	—	2.544	2.540	2.538	2.534	2.517	2.508	2.7996
2.524	2.548	2.554	2.576	2.577	2.582	2.592	2.586	2.599	2.601	2.607	2.631	2.5368
2.681	2.693	2.694	2.700	2.708	2.675	2.676	2.670	2.653	2.645	2.612	2.609	2.6665
2.393	2.386	2.361	2.354	2.350	2.326	2.318	2.318	2.327	2.351	2.347	2.359	2.4306
2.286	2.278	2.265	2.229	2.217	2.259	2.238	2.312	2.337	2.380	2.381	2.376	2.3264
2.509	2.538	2.544	2.571	2.583	2.603	2.613	2.618	2.640	2.646	2.654	2.668	2.5000
2.683	2.683	2.673	2.654	2.651	2.645	—	—	—	—	—	—	—
—	—	—	—	—	—	2.586	2.592	2.600	2.586	2.587	2.593	2.6570
2.724	2.740	2.756	2.762	2.780	2.796	2.800	2.802	2.812	2.813	2.819	2.823	2.7100
2.933	2.948	2.948	2.953	2.955	2.976	2.973	2.941	2.951	2.949	2.949	2.938	2.9165
2.898	2.892	2.876	2.866	2.864	2.841	—	—	—	—	—	—	—
—	—	—	—	—	—	2.871	2.878	2.900	2.902	2.910	2.924	2.9123
3.026	2.999	3.011	3.002	2.988	2.973	2.952	2.932	2.911	2.903	2.881	2.882	2.9850
2.589	2.587	2.575	2.566	2.566	2.572	—	—	—	—	—	—	—
—	—	—	—	—	—	2.400	2.384	2.391	2.399	2.391	2.407	2.5985
2.443	2.466	2.484	2.486	2.486	2.494	2.494	2.520	2.546	2.546	2.532	2.541	2.4566
2.737	2.765	2.783	2.813	2.823	2.839	2.838	2.864	2.904	2.916	2.940	2.963	2.7426
2.946	2.922	2.922	2.885	2.857	2.842	2.832	2.820	2.793	2.768	2.748	2.726	2.9112
2.6905	2.6945	2.6952	2.6925	2.6945	2.6964	2.6668	2.6684	2.6803	2.6874	2.6830	2.6905	2.6918

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	39.0	38.0	37.7	37.4	38.4	39.4	40.2	40.4	38.8	38.6	35.8	34.8
	2	28.0	28.0	28.0	29.0	30.8	31.8	34.2	33.8	31.4	30.5	30.2	28.4
	3	33.6	33.2	34.8	35.8	36.4	36.7	37.4	37.4	38.0	38.6	40.4	39.8
	4	34.7	33.7	33.2	34.6	35.0	37.4	38.6	38.6	39.6	39.2	36.6	35.4
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	18.2	17.8	17.6	17.8	17.6	18.0	18.3	20.0	20.8	20.6	20.0	19.3
	7	22.6	24.4	25.4	19.6	21.6	21.2	22.2	22.4	24.5	24.6	27.5	27.6
	8	24.4	25.0	25.4	26.4	27.9	29.4	30.4	31.3	31.2	31.7	28.4	29.8
	9	33.4	34.2	32.8	35.2	37.7	38.3	38.7	37.2	38.4	38.8	38.6	38.2
	10	28.8	29.7	29.2	29.8	31.4	31.6	31.8	32.8	34.2	32.4	31.7	30.8
	11	25.0	25.0	25.0	25.9	27.6	29.0	30.0	30.2	30.6	30.0	29.4	28.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	23.9	18.8	18.8	17.6	18.2	18.8	18.0	19.0	19.6	20.6	20.2	19.6
	14	16.6	15.6	14.8	15.4	15.4	15.4	16.4	17.9	18.2	18.8	18.4	17.0
	15	23.0	23.2	24.0	25.2	27.2	29.1	30.8	32.0	32.6	32.6	31.8	31.2
	16	30.7	30.2	29.2	28.4	28.0	27.6	27.2	26.2	26.4	26.0	25.6	24.4
	17	19.6	20.4	20.3	20.7	20.4	21.5	22.0	22.8	23.2	22.6	21.2	19.6
	18	20.6	19.4	19.5	20.6	21.5	21.3	21.6	20.4	20.8	19.6	18.0	15.8
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	21.4	21.4	21.6	22.2	24.0	25.2	26.4	27.8	29.3	29.5	29.6	28.8
	21	29.2	29.4	30.4	29.8	29.5	29.9	30.9	32.2	33.6	33.4	32.2	32.2
	22	31.6	31.2	31.3	31.3	32.6	34.4	34.8	35.6	36.4	35.6	37.2	31.8
	23	18.6	18.3	22.8	30.4	32.2	33.1	35.6	34.8	34.6	35.0	35.0	35.0
	24	35.0	35.4	35.4	36.2	36.8	37.0	37.2	37.8	37.4	37.0	36.2	34.9
	25	27.6	25.2	24.4	23.7	23.0	25.6	27.4	27.9	29.8	29.5	28.2	25.8
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	20.4	21.0	22.4	25.2	31.2	36.1	37.0	37.2	37.3	37.4	37.2	36.0
	28	36.7	35.8	36.5	37.4	38.2	39.0	38.8	39.0	38.2	39.5	38.6	40.0
	29	29.6	28.8	28.2	28.8	30.4	31.6	31.6	31.2	29.8	27.9	27.4	25.6
	30	16.3	16.0	14.7	15.4	18.0	18.8	19.8	21.0	21.3	20.4	19.4	18.2
	31	15.4	12.6	12.8	13.6	13.8	12.8	13.0	12.4	12.7	13.5	11.9	10.0
Hourly Means	26.07	25.62	25.79	26.42	27.59	28.52	29.27	29.60	29.91	29.77	29.14	28.08	
FEBRUARY.	1	-2.0	-1.6	-1.4	0.6	3.1	5.2	7.9	8.8	10.3	11.4	11.8	10.4
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	17.8	17.7	17.8	20.3	18.4	18.9	20.4	22.2	21.8	21.5	21.8	21.4
	4	23.2	23.6	24.0	24.2	25.2	26.0	26.0	20.2	19.4	17.8	16.6	15.2
	5	12.0	11.2	12.0	13.2	14.8	15.4	16.2	17.4	16.4	16.4	16.2	16.0
	6	4.6	3.4	3.6	5.2	6.4	7.2	10.4	11.9	12.5	12.1	11.9	11.6
	7	13.8	12.6	13.8	16.2	17.9	19.9	21.6	23.5	25.0	25.6	25.6	23.8
	8	10.2	8.2	8.5	11.2	13.2	16.4	17.8	19.4	21.0	20.5	21.0	17.8
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	25.6	25.6	25.9	27.8	30.6	30.6	31.2	32.0	32.2	32.4	32.2	32.0
	11	26.2	25.6	25.8	27.4	29.8	32.2	34.0	34.2	34.2	33.8	33.3	32.6
	12	37.0	36.6	35.0	33.4	31.2	27.1	23.7	22.2	21.4	19.2	17.9	15.2
	13	-2.4	-3.4	-2.0	1.4	3.1	5.2	7.9	8.2	8.4	9.6	10.1	10.0
	14	13.3	13.9	16.2	17.0	18.2	20.3	22.8	24.6	27.2	28.0	28.6	29.2
	15	35.0	35.2	36.1	36.6	37.4	37.6	38.0	38.5	39.2	38.6	38.1	38.2
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	32.6	32.6	33.2	34.2	35.2	36.0	37.0	38.2	38.0	38.2	36.4	35.7
	18	33.0	32.8	33.0	33.6	34.4	35.2	35.8	35.2	35.0	35.7	35.3	34.4
	19	32.7	33.0	33.3	34.0	34.2	35.7	37.1	36.7	36.3	35.8	36.6	35.2
	20	33.8	35.2	36.8	39.4	41.0	42.6	41.8	41.4	42.2	40.1	40.0	40.0
	21	33.2	33.8	34.6	36.4	38.6	41.2	41.8	43.8	43.2	43.8	44.0	43.2
	22	35.4	35.6	36.4	38.9	39.9	40.6	42.4	41.8	41.8	40.8	40.4	38.6
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	35.1	34.2	36.2	38.7	40.8	40.5	41.3	41.9	42.3	42.4	41.0	39.7
	25	34.9	35.2	38.2	43.4	43.8	46.4	47.0	47.1	47.3	47.1	46.5	45.3
	26	34.4	35.5	36.1	37.4	38.1	38.2	38.5	37.6	37.5	37.5	36.8	36.4
	27	26.2	25.2	28.0	32.6	35.8	36.3	37.4	37.2	39.6	36.9	35.9	33.3
	28	25.4	24.8	25.2	26.5	27.7	30.0	31.3	31.8	32.5	32.6	32.0	31.2
Hourly Means	23.79	23.60	24.48	26.24	27.45	28.53	29.55	29.83	30.19	29.95	29.58	28.60	

STANDARD THERMOMETER. -												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
34.7	34.6	34.6	34.2	33.6	32.7	31.8	31.3	31.0	30.6	29.6	28.4	35.23
29.0	28.8	29.6	30.2	31.0	31.6	31.8	31.8	32.4	32.8	33.0	33.8	30.83
42.0	43.4	41.8	40.0	38.0	37.0	36.6	36.6	36.4	36.3	36.4	35.3	37.58
34.4	33.8	34.3	35.6	36.2	36.6	—	—	—	—	—	—	31.88
—	—	—	—	—	—	22.2	21.6	19.5	18.7	18.4	17.2	—
18.2	17.6	16.8	16.6	16.8	17.5	18.3	19.6	20.6	20.2	20.4	21.4	18.75
27.0	26.2	24.8	25.4	26.0	26.6	25.0	24.0	22.6	22.9	26.3	23.6	24.33
28.2	30.6	28.8	30.4	30.7	30.0	30.0	31.4	32.8	33.0	33.4	33.8	29.77
36.6	33.2	31.4	27.6	26.0	25.6	26.0	25.4	26.0	25.6	24.0	27.4	32.35
30.4	30.0	29.6	29.2	29.0	26.0	23.0	23.8	25.6	25.7	25.2	25.0	29.03
28.0	27.6	27.2	25.8	23.6	20.8	—	—	—	—	—	—	—
—	—	—	—	—	—	17.2	17.2	18.8	22.3	23.4	23.4	25.47
17.8	12.8	12.9	14.0	14.0	16.8	18.0	17.7	17.0	15.3	18.4	17.4	17.72
17.6	20.6	19.0	18.0	18.4	18.2	19.6	20.2	22.4	21.8	21.6	22.4	18.32
31.0	31.0	31.8	31.6	31.6	32.0	31.6	31.4	31.0	31.2	30.8	31.2	29.95
24.0	23.4	22.8	22.4	21.8	21.6	22.0	22.0	21.9	21.3	20.8	20.3	24.76
19.0	18.9	19.6	19.3	19.3	19.8	19.7	20.5	20.6	19.8	19.3	19.8	20.41
13.9	12.0	10.4	9.7	7.8	3.6	—	—	—	—	—	—	—
—	—	—	—	—	—	21.4	21.0	21.0	21.4	21.4	21.4	17.67
28.8	28.8	28.6	28.8	29.4	29.6	29.6	29.6	28.8	28.8	28.8	28.4	27.30
31.7	32.4	31.8	32.0	30.0	31.2	31.6	31.6	31.6	31.4	30.8	30.8	31.23
27.6	25.2	22.2	20.6	19.5	18.7	18.8	18.8	19.0	17.8	14.2	14.8	26.71
35.0	35.4	35.6	35.6	34.9	35.8	36.1	36.0	35.3	34.8	34.8	34.6	32.89
35.0	35.3	35.2	35.0	35.4	35.6	35.6	35.1	34.8	33.4	30.8	29.2	35.28
24.8	24.0	23.6	23.6	22.5	21.5	—	—	—	—	—	—	—
—	—	—	—	—	—	20.2	21.0	22.2	21.0	21.0	19.4	24.29
35.4	35.2	35.1	35.4	35.6	35.4	35.4	35.5	35.4	35.4	36.0	36.8	33.54
38.0	37.0	36.0	34.2	33.4	33.4	33.4	33.1	32.0	30.6	30.2	29.8	35.78
25.0	24.3	24.0	22.7	21.8	21.0	20.4	19.4	19.0	19.7	19.0	17.4	25.19
16.2	18.2	17.6	17.0	16.0	16.8	14.6	13.4	11.9	12.8	14.8	15.4	16.83
8.4	7.6	5.6	4.0	2.8	1.4	0.2	-1.0	-1.4	-2.0	-1.6	-1.8	7.36
27.32	26.96	26.33	25.89	25.37	25.07	24.82	24.74	24.75	24.58	24.49	24.32	26.68
8.2	6.5	4.4	4.2	5.2	7.4	—	—	—	—	—	—	8.23
—	—	—	—	—	—	16.6	16.4	15.8	15.0	15.4	17.2	—
19.2	19.6	22.4	22.6	22.4	22.8	23.2	24.7	23.2	23.6	23.3	23.4	21.27
14.0	14.2	12.8	12.0	12.2	12.2	11.6	12.0	12.4	13.4	14.2	13.0	17.32
16.6	16.2	15.4	14.7	13.4	12.4	11.7	10.9	10.4	9.6	8.2	6.0	13.45
12.6	14.0	15.8	16.8	18.6	19.0	18.2	17.6	16.8	16.0	15.8	14.8	12.37
21.8	19.8	19.0	18.4	13.4	18.4	17.4	16.0	15.7	11.8	9.2	11.5	18.19
12.8	9.0	6.0	11.4	10.6	13.8	—	—	—	—	—	—	—
—	—	—	—	—	—	23.2	23.8	24.0	24.2	24.8	24.7	16.40
32.0	32.4	32.5	31.0	31.6	30.8	28.8	29.2	29.0	28.2	27.4	26.6	29.90
32.6	32.4	31.2	31.2	30.8	30.4	31.1	31.0	31.4	31.5	32.5	28.2	30.98
13.6	12.7	12.2	12.4	11.0	8.2	6.4	4.8	3.0	1.6	-0.6	-2.2	16.79
9.6	9.0	9.2	10.4	11.8	16.4	16.6	10.4	10.6	11.3	10.9	11.4	8.07
29.6	30.2	31.0	31.8	32.4	33.0	33.5	33.8	34.2	35.2	34.6	34.8	27.22
38.4	38.2	37.2	35.5	35.4	37.2	—	—	—	—	—	—	—
—	—	—	—	—	—	33.6	33.0	33.6	33.0	32.6	32.6	36.20
36.4	34.9	32.5	34.4	34.8	34.0	34.4	34.6	34.6	33.8	33.9	33.4	34.96
32.6	31.4	31.6	31.1	27.8	27.6	28.2	31.0	32.0	32.2	32.8	32.6	32.68
34.0	34.8	35.2	36.6	38.0	36.4	36.2	36.4	35.4	35.2	33.6	32.8	35.22
40.2	40.4	40.4	39.8	39.4	38.6	38.0	39.2	37.0	35.8	34.8	32.4	38.76
42.8	43.0	42.6	39.6	37.6	37.8	39.8	38.0	38.2	37.2	36.4	36.4	39.46
38.4	38.5	38.3	37.5	37.0	37.0	—	—	—	—	—	—	—
—	—	—	—	—	—	38.1	37.6	35.9	33.6	32.9	33.6	37.96
38.3	39.1	36.9	35.1	35.5	38.3	38.7	37.1	35.3	35.5	35.4	34.6	38.10
45.0	46.5	42.8	45.5	47.3	45.8	43.5	42.0	40.3	37.9	35.6	34.3	42.86
35.4	33.9	33.1	31.5	32.0	31.3	30.1	29.5	29.5	28.7	27.5	27.4	33.91
31.4	30.6	29.4	28.4	28.5	28.5	27.6	27.7	27.4	27.2	26.8	26.8	31.03
32.2	32.0	32.3	32.3	31.5	31.5	32.0	32.3	32.3	25.6	30.1	32.3	30.35
27.82	27.47	26.84	26.84	26.80	27.03	27.44	27.04	26.58	25.71	25.34	24.94	27.15

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	33.6	33.9	34.9	37.7	38.1	39.1	40.4	42.1	43.1	43.5	43.3	39.4
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	33.7	32.7	31.8	31.2	30.6	30.4	31.5	32.2	31.3	31.9	32.0	32.1
	4	25.0	28.7	32.7	34.7	36.4	38.1	38.3	40.2	41.3	38.8	37.0	36.6
	5	31.8	33.4	33.5	33.8	35.0	36.4	37.1	39.4	40.4	43.3	45.1	44.6
	6	26.7	27.7	31.5	33.6	35.6	36.3	37.4	37.2	38.9	38.6	37.9	35.5
	7	32.3	34.4	36.3	38.2	40.2	40.9	40.5	40.5	39.7	40.0	40.2	39.5
	8	39.4	40.3	45.9	45.9	50.6	52.2	54.0	54.3	53.5	53.5	52.0	49.7
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	26.8	27.2	28.6	30.7	33.3	34.9	36.7	37.9	36.5	35.9	35.7	34.3
	11	28.8	28.6	30.3	33.6	36.1	35.7	36.3	36.6	36.7	36.9	36.1	34.9
	12	33.3	34.1	35.1	40.0	38.7	38.7	38.9	39.1	44.7	41.9	40.6	39.6
	13	29.7	31.0	32.0	36.1	38.7	40.6	41.1	43.3	43.3	43.1	41.2	40.6
	14	35.5	36.7	37.4	38.5	39.1	40.3	42.5	43.1	41.9	36.6	34.5	34.4
	15	18.0	18.6	19.2	20.6	22.0	22.1	22.1	23.5	23.5	23.5	22.9	23.1
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	24.9	25.7	27.0	29.9	28.7	29.6	31.5	32.2	33.9	33.4	33.6	33.4
	18	25.0	24.9	24.7	25.9	27.5	28.7	28.9	26.5	27.2	26.0	26.1	25.4
	19	19.6	20.7	21.7	23.7	24.1	24.5	25.9	26.8	27.5	24.1	24.8	23.9
	20	25.4	26.4	27.5	28.4	30.4	31.0	31.6	32.5	31.8	32.1	32.2	31.0
	21 <sup>a</sup>	—	—	—	—	—	—	—	—	—	—	—	—
	22	27.9	30.1	32.3	34.9	39.3	39.6	40.3	40.9	42.4	42.3	42.6	39.6
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	35.9	36.2	37.2	37.1	38.2	38.6	39.6	41.1	40.7	40.9	40.5	39.3
	25	32.7	32.7	35.5	39.7	42.3	42.9	44.7	45.7	46.3	45.4	45.4	45.1
	26	33.9	35.6	38.5	41.2	41.9	44.4	47.9	45.4	48.4	48.9	48.4	47.9
	27	38.7	38.9	46.9	51.0	54.5	54.0	54.3	58.0	56.2	51.7	48.7	46.6
	28	39.7	42.3	43.7	45.7	47.7	52.2	52.2	50.4	52.2	50.2	50.8	48.3
	29	33.4	35.9	42.6	45.6	49.1	52.6	56.2	59.0	61.1	61.5	61.5	58.7
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	44.3	49.1	52.7	55.3	56.6	58.5	61.4	59.8	60.3	59.8	62.5	59.0
Hourly Means	31.04	32.23	34.38	36.52	38.19	39.29	40.45	41.11	41.71	40.55	40.62	39.30	
APRIL.	1	49.1	45.5	41.7	40.9	39.2	38.7	39.4	40.3	40.5	40.6	40.4	39.7
	2	37.2	38.4	41.7	46.5	48.5	50.0	44.9	46.3	44.6	44.9	43.2	43.2
	3	26.2	27.9	29.2	31.0	32.6	34.7	36.4	38.2	39.5	39.3	37.1	36.5
	4	38.3	39.5	40.2	41.1	41.6	43.4	43.4	43.1	41.3	42.4	40.5	39.2
	5	24.6	26.2	27.0	31.7	32.3	34.3	34.9	33.9	34.2	31.5	29.6	29.3
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	24.1	24.1	25.6	26.2	26.7	28.2	30.8	33.7	32.3	32.0	32.0	30.7
	8	19.4	20.9	23.0	24.3	26.2	26.8	28.2	30.1	31.3	32.9	32.9	33.9
	9	21.0	24.0	28.7	33.9	35.6	37.5	39.3	39.5	41.2	40.5	41.2	39.5
	10	34.9	40.0	45.7	50.0	50.2	50.5	48.9	46.4	44.1	43.5	43.7	42.9
	11	33.5	33.9	34.1	35.5	37.3	40.3	41.5	42.7	44.1	44.9	44.1	42.3
	12	30.4	35.1	39.1	42.6	45.4	47.3	45.4	46.3	47.7	47.7	46.3	45.4
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	39.1	42.2	46.3	49.6	52.9	54.8	56.0	55.4	56.4	57.4	56.8	61.4
	15	33.1	41.3	49.5	56.8	58.6	57.6	57.7	58.6	58.2	61.1	60.1	60.1
	16	45.9	45.6	45.7	46.3	47.6	47.9	46.7	45.7	44.9	44.5	44.7	44.5
	17	39.4	40.0	40.2	40.4	40.7	40.7	42.1	42.5	43.3	44.3	43.9	44.1
	18	41.3	42.3	41.0	42.1	42.9	43.4	43.9	45.3	45.3	45.5	46.6	45.9
	19	45.7	43.9	43.2	43.1	44.7	44.3	44.1	43.7	44.1	44.7	44.9	45.1
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	42.3	43.3	44.7	44.9	46.1	45.2	46.2	46.3	47.5	48.9	48.5	47.3
	22	39.3	44.3	46.1	48.5	50.4	50.8	50.4	51.4	51.3	50.7	52.4	52.6
	23	49.2	53.0	54.6	56.7	60.1	63.0	63.7	65.8	63.1	62.1	60.3	58.7
	24	50.3	52.0	55.0	59.0	61.3	65.1	66.4	66.5	66.7	66.7	63.3	60.3
	25	43.9	44.1	43.6	43.5	46.0	44.9	46.5	45.1	47.3	48.9	44.9	43.9
	26	41.5	42.4	44.9	44.9	45.9	49.5	54.0	52.8	53.2	53.8	56.3	57.4
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	43.5	46.9	50.7	53.3	55.7	58.0	60.6	61.9	61.7	62.1	59.4	56.4
	29	50.2	53.8	56.3	59.4	59.6	58.8	58.6	58.6	59.0	57.5	58.0	58.7
	30	46.9	45.5	47.1	51.3	52.8	53.5	55.5	58.0	60.5	59.8	60.1	57.6
Hourly Means	38.09	39.85	41.73	43.98	45.42	46.51	47.13	47.62	47.82	48.01	47.35	46.79	

<sup>a</sup> Good Friday.

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
35.6	34.9	35.9	35.4	34.9	35.7	—	—	—	—	—	—	37.02
—	—	—	—	—	—	35.4	35.3	33.9	34.3	34.3	33.9	30.07
31.0	29.3	28.6	29.3	29.8	28.8	29.6	29.2	27.5	26.1	26.2	24.8	30.07
36.6	36.7	37.9	37.9	37.9	37.7	37.7	35.1	35.1	33.9	34.1	33.5	35.91
42.1	39.7	38.2	36.3	34.3	32.6	32.3	31.3	30.1	30.1	28.5	27.7	35.71
33.5	33.1	33.4	33.1	33.3	33.1	33.2	33.6	33.0	33.6	33.0	31.8	33.94
39.1	39.6	40.6	40.3	39.4	39.2	39.1	38.9	38.3	37.9	38.2	39.2	38.85
47.4	45.9	44.6	43.4	42.1	40.6	—	—	—	—	—	—	42.65
—	—	—	—	—	—	28.5	28.2	28.2	28.0	28.4	27.0	32.60
33.7	33.9	33.9	33.4	33.2	32.3	31.9	30.3	30.1	30.1	30.6	30.4	32.60
32.4	33.5	32.9	32.0	31.0	30.5	31.0	31.2	31.7	32.3	32.4	32.9	33.10
39.1	38.5	37.7	35.9	35.1	32.0	30.5	29.9	29.1	30.3	32.0	30.8	36.07
37.9	37.3	36.7	36.4	34.9	35.3	34.4	33.4	34.4	34.7	33.9	34.3	36.85
31.8	29.7	26.7	24.7	24.0	23.1	22.5	21.9	21.2	20.4	19.2	18.6	31.01
22.7	19.8	18.7	17.7	13.0	11.2	—	—	—	—	—	—	21.40
—	—	—	—	—	—	25.7	25.3	25.1	24.8	25.4	25.0	29.42
32.7	31.7	30.6	29.3	28.5	28.7	28.0	27.7	27.4	26.7	26.0	25.0	29.42
24.6	23.5	22.3	21.4	21.1	20.8	21.1	21.4	21.4	21.4	20.9	20.4	24.05
22.7	21.9	20.4	19.8	19.6	20.6	20.6	20.6	21.7	21.2	21.1	24.5	22.58
31.2	31.0	31.0	30.6	29.8	28.4	—	—	—	—	—	—	29.97
—	—	—	—	—	—	—	—	29.1	29.1	29.3	29.3	29.97
36.3	34.7	34.4	33.9	32.4	30.6	—	—	—	—	—	—	36.20
—	—	—	—	—	—	35.9	35.7	35.6	35.5	35.7	35.9	36.20
36.9	36.7	37.3	36.5	35.7	34.8	34.1	33.4	32.9	32.9	31.0	32.5	33.33
40.6	40.0	38.6	35.9	34.1	32.4	32.9	32.7	33.3	33.2	30.1	31.4	38.07
46.7	45.1	44.9	43.6	42.0	49.2	47.9	48.3	48.9	47.7	44.3	43.4	45.18
45.1	44.9	42.3	39.3	40.0	40.3	40.3	39.7	40.2	39.3	38.4	37.2	45.27
45.2	42.9	42.3	41.1	40.0	40.3	40.5	40.2	38.6	37.6	34.9	33.9	43.87
58.7	55.0	49.4	50.4	47.7	47.7	—	—	—	—	—	—	49.26
—	—	—	—	—	—	44.2	43.4	41.7	41.4	41.4	44.1	49.26
57.2	56.0	57.0	54.8	54.8	52.3	50.3	50.4	50.8	51.0	51.0	52.2	54.88
37.63	36.61	35.85	34.90	34.34	33.53	33.65	33.21	32.77	32.54	32.01	31.99	36.04
39.3	38.1	35.7	30.8	29.3	29.1	28.2	27.4	27.4	27.8	33.2	35.4	56.57
41.3	39.7	37.5	32.2	30.5	36.7	34.9	36.2	28.0	27.4	27.4	26.8	38.67
33.3	33.3	33.1	32.9	33.3	33.4	33.4	32.9	32.8	32.9	32.3	35.3	33.65
38.3	36.9	33.9	32.3	31.7	31.0	30.4	29.7	28.2	27.0	25.7	24.7	36.00
28.5	26.6	25.0	22.9	23.3	22.9	—	—	—	—	—	—	26.50
—	—	—	—	—	—	17.5	17.5	15.7	19.6	22.7	24.3	26.50
27.6	25.2	23.3	22.5	21.6	21.1	20.9	19.8	20.0	20.0	21.2	19.4	25.37
32.0	29.1	27.6	25.4	24.1	23.7	22.7	21.9	20.9	20.8	19.4	19.4	25.70
38.1	37.5	37.3	35.9	34.3	33.5	33.5	33.9	36.5	36.7	36.3	34.7	35.42
41.3	40.3	39.4	38.9	38.3	37.9	36.5	35.9	35.4	35.7	34.9	32.9	41.18
39.1	35.9	34.3	33.1	30.4	28.3	28.2	26.4	27.2	27.6	28.4	27.8	35.04
43.1	41.1	39.4	39.3	39.1	38.9	—	—	—	—	—	—	41.78
—	—	—	—	—	—	42.5	41.9	40.5	40.5	39.5	38.3	41.78
59.5	58.0	50.7	47.5	45.9	41.1	37.1	36.5	36.1	37.9	36.5	32.9	47.83
56.2	49.5	46.1	43.9	43.3	48.3	51.2	50.5	46.3	42.9	44.1	45.3	50.85
43.9	41.3	41.1	40.2	40.1	40.3	40.2	40.4	40.3	40.0	40.0	40.0	43.24
43.5	42.9	42.9	43.2	42.9	42.5	41.9	41.5	41.9	41.9	41.5	41.5	42.07
45.7	46.1	46.3	45.5	45.1	44.7	44.7	44.9	45.5	44.4	45.2	45.1	44.53
45.3	45.1	45.7	44.7	43.9	43.5	—	—	—	—	—	—	43.82
—	—	—	—	—	—	42.4	42.3	42.2	41.9	41.7	41.6	43.82
45.3	44.2	42.7	39.7	37.3	39.3	37.3	35.4	34.9	35.5	34.1	35.3	42.18
48.7	46.9	47.3	46.5	47.6	47.4	47.3	47.9	46.7	46.7	46.3	47.3	48.12
58.0	50.5	54.0	51.0	49.5	49.1	50.4	54.0	54.2	53.2	51.2	50.4	55.66
58.0	57.2	56.8	56.2	56.0	56.2	54.3	49.5	46.1	45.3	44.1	43.6	56.50
44.9	42.4	42.9	42.1	41.7	42.2	42.3	41.4	40.9	40.9	40.9	41.1	43.60
57.6	51.8	51.0	51.0	53.0	54.2	—	—	—	—	—	—	48.27
—	—	—	—	—	—	44.9	41.7	41.3	38.7	38.1	38.6	48.27
57.6	55.0	50.5	54.5	53.4	52.8	51.0	49.7	48.3	43.9	44.6	46.9	53.27
55.3	53.0	52.0	50.8	50.0	48.7	47.6	47.9	47.7	47.2	46.4	45.7	53.37
54.2	53.7	54.7	55.2	55.4	52.2	52.2	54.6	53.6	54.6	50.6	50.0	53.73
45.22	43.13	41.97	40.70	40.04	39.96	38.98	38.53	37.64	37.35	37.17	37.09	42.45

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	5	3	4	5	
MAY.	1	51.0	57.0	58.5	59.6	62.3	63.3	64.8	65.8	66.7	67.1	66.6	62.8
	2	42.3	43.9	44.5	45.6	47.4	50.0	52.3	53.7	55.2	56.5	57.6	57.6
	3	46.9	50.5	51.7	55.3	58.5	60.3	62.1	60.1	57.8	58.2	56.4	57.4
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	35.9	37.4	39.5	42.1	44.5	45.9	49.1	48.4	50.3	50.8	52.0	49.4
	6	39.5	45.1	47.7	50.2	53.2	—	—	—	—	54.5	56.0	54.7
	7	45.2	42.1	40.5	40.8	43.5	44.8	45.1	45.5	47.5	48.2	48.8	47.0
	8	33.4	37.7	40.1	43.6	44.5	44.8	47.3	50.0	50.3	49.6	46.6	47.4
	9	44.8	49.4	51.7	52.6	52.4	53.0	52.4	52.8	54.6	54.8	56.2	56.8
	10	46.4	48.0	50.4	52.8	52.8	57.6	57.4	56.2	57.2	57.0	58.5	61.0
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	57.8	64.4	68.4	69.4	70.6	73.4	74.6	76.6	77.1	74.9	73.6	73.9
	13	55.3	59.2	62.3	70.3	73.5	73.1	73.7	74.4	73.9	71.0	70.6	66.8
	14	58.3	61.2	60.5	61.3	63.8	65.4	62.5	64.6	65.0	65.0	64.1	65.0
	15	43.8	40.5	38.9	37.7	39.9	41.0	43.3	45.8	48.4	48.4	49.4	48.8
	16	34.5	37.7	38.5	40.8	44.2	45.2	45.8	45.6	46.8	46.8	48.0	50.3
	17	39.9	47.2	51.0	56.3	57.4	57.5	57.1	57.8	59.2	59.1	59.8	59.1
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	54.2	58.8	61.7	64.6	67.2	67.4	67.0	65.6	61.0	61.8	60.8	60.2
	20	43.8	45.4	47.0	49.2	50.8	52.6	54.5	54.1	54.8	55.4	55.6	54.4
	21	43.2	45.8	49.1	51.0	54.8	55.8	56.4	58.4	60.0	61.0	62.4	61.3
	22	43.2	45.3	47.5	50.2	52.0	51.8	49.4	48.8	47.6	47.3	47.7	47.3
	23	40.1	45.6	49.2	54.2	56.5	56.3	57.0	58.4	59.4	58.8	60.3	61.0
	24	40.2	41.8	43.0	45.3	48.2	49.5	50.0	51.2	51.6	50.4	49.3	50.0
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	51.9	53.5	60.2	62.8	68.0	71.1	73.1	74.7	75.6	76.0	75.6	74.4
	27	53.0	55.2	58.8	63.4	65.5	67.4	69.8	71.3	70.5	67.6	67.4	65.9
	28	56.7	58.2	60.6	60.4	63.3	57.8	59.2	60.5	61.8	68.3	69.8	69.0
	29	36.4	35.7	36.1	36.9	37.7	39.6	42.8	41.9	43.0	42.5	42.3	43.1
	30	35.9	38.9	42.0	41.8	48.2	48.7	48.3	49.8	51.1	52.8	54.7	54.4
	31	42.8	48.0	52.4	54.2	57.6	59.0	60.8	63.0	63.4	64.5	64.6	62.6
Hourly Means	45.05	47.91	50.07	52.42	54.75	55.86	56.76	57.50	58.00	58.09	58.32	57.84	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	53.1	54.8	56.6	62.2	66.2	64.8	63.8	68.2	68.4	71.1	70.0	71.3
	3	60.8	62.5	62.5	62.8	65.0	70.9	73.9	73.4	71.8	70.9	71.4	70.0
	4	59.8	66.1	68.6	65.0	67.2	71.4	75.5	73.4	67.3	66.3	70.4	70.3
	5	53.5	54.2	55.0	56.3	59.2	59.8	61.3	63.1	65.3	66.6	64.8	63.8
	6	50.8	53.3	54.4	57.2	59.0	57.5	56.3	55.4	55.3	54.4	55.0	54.6
	7	50.2	55.3	52.3	51.1	54.2	56.1	58.4	58.8	59.3	58.8	62.3	61.6
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	68.7	70.7	71.7	74.3	77.0	79.6	80.6	82.2	83.2	83.2	84.0	83.4
	10	60.8	67.6	71.4	68.3	71.4	74.1	76.2	78.5	76.3	72.9	71.8	69.8
	11	60.5	61.3	63.8	64.9	66.5	67.8	71.1	71.6	71.9	72.1	70.6	69.0
	12	59.2	59.0	59.3	60.1	64.8	68.8	71.3	69.2	70.1	69.2	73.7	75.0
	13	60.1	61.7	64.0	66.3	69.1	68.1	71.6	69.6	71.4	71.0	69.4	72.7
	14	53.3	55.1	58.1	61.4	64.0	64.4	66.0	66.0	66.4	64.4	66.2	66.3
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	52.4	54.6	55.8	58.8	57.8	59.4	58.8	59.3	58.0	57.2	56.0	55.3
	17	46.4	50.3	53.2	55.4	56.2	58.3	59.7	61.0	61.8	63.2	64.0	65.2
	18	50.3	54.7	58.0	60.9	61.5	64.8	66.0	65.7	65.4	67.0	66.6	64.4
	19	53.3	56.8	62.4	64.3	66.5	67.5	68.3	69.3	69.9	71.2	72.0	72.0
	20	53.7	57.5	62.3	65.0	67.8	70.1	69.6	70.1	71.0	69.3	68.9	66.8
	21	61.8	63.0	65.4	66.8	68.5	69.9	70.5	71.4	72.0	72.0	71.5	70.4
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	57.6	61.3	64.9	68.3	71.8	72.4	71.6	79.0	80.7	81.0	81.0	81.0
	24	64.5	68.6	71.7	73.4	74.4	76.2	77.0	75.8	73.6	80.3	78.4	78.9
	25	57.0	59.9	61.2	63.8	64.6	64.8	65.0	65.0	65.3	65.1	67.2	68.6
	26	51.2	55.8	60.8	65.3	65.7	65.5	67.6	70.1	69.8	70.1	71.1	71.0
	27	56.6	62.2	66.2	67.9	68.2	68.3	68.5	71.3	72.5	74.0	74.6	74.8
	28	58.1	56.9	57.2	59.2	61.1	61.3	62.5	60.6	61.3	59.5	61.5	62.8
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	56.2	59.0	60.1	58.8	59.2	58.1	59.5	58.5	58.8	58.8	58.8	59.4
Hourly Means	56.40	59.29	61.48	63.11	65.08	66.40	67.62	68.26	68.27	68.38	68.85	68.74	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
60.9	58.6	57.8	52.6	50.6	49.7	47.9	47.7	47.3	45.1	42.7	40.9	56.14
57.6	51.8	48.3	45.6	45.9	45.9	44.3	42.9	45.1	43.3	42.3	44.1	48.49
58.3	58.0	57.6	56.0	55.0	55.0	—	—	—	—	—	—	51.95
—	—	—	—	—	—	43.4	41.9	39.6	37.1	35.4	34.2	41.19
47.6	44.9	40.9	39.6	37.1	34.0	34.9	33.7	32.2	32.6	32.3	32.5	45.31
50.0	45.4	41.2	39.6	40.2	41.0	40.8	39.1	40.4	42.4	42.6	42.6	40.28
45.6	41.8	39.9	38.1	37.1	35.9	34.7	32.8	31.7	30.3	30.1	29.7	43.15
44.8	43.6	43.9	44.6	44.3	43.2	43.0	41.8	38.3	38.3	36.5	37.9	48.40
54.6	52.0	46.5	43.3	43.2	42.2	40.6	40.3	40.3	41.5	42.3	43.2	54.08
61.2	57.3	52.8	50.0	48.6	47.1	—	—	—	—	—	—	65.26
—	—	—	—	—	—	57.0	56.0	54.6	53.3	52.6	52.1	63.08
69.6	66.8	63.8	60.4	60.0	58.6	58.4	56.4	54.8	53.8	54.8	54.1	59.15
63.6	62.4	62.4	60.0	56.6	56.4	56.6	55.4	54.3	52.4	54.8	54.8	40.71
66.0	59.8	60.6	59.1	56.3	59.3	57.8	54.1	50.5	48.2	46.1	45.0	41.50
47.4	44.6	41.8	40.2	39.1	37.4	35.4	34.3	34.3	33.6	32.3	30.7	54.09
50.2	47.4	43.8	40.3	39.4	37.6	36.9	36.2	36.7	35.2	34.7	35.3	56.93
59.8	57.3	51.6	49.3	48.0	49.0	—	—	—	—	—	—	47.49
—	—	—	—	—	—	54.6	53.6	55.2	54.4	53.0	50.9	50.90
62.3	60.2	61.8	54.6	50.8	49.0	48.0	47.4	47.1	46.3	45.2	43.2	43.68
55.0	51.2	47.4	45.5	44.2	41.0	41.8	40.8	39.7	39.7	37.9	37.9	51.23
61.0	56.3	54.4	49.3	46.2	45.4	44.3	43.3	41.8	40.5	39.5	40.5	47.04
47.4	47.6	44.2	40.8	39.2	38.1	37.2	38.0	35.5	34.3	34.1	33.7	62.73
61.8	59.0	55.8	52.8	50.6	48.6	46.6	43.2	41.4	38.9	37.5	36.6	61.11
48.4	48.0	44.2	41.2	39.7	38.1	—	—	—	—	—	—	53.27
—	—	—	—	—	—	49.2	50.4	49.3	49.0	49.6	51.4	37.53
72.7	68.2	58.4	55.3	55.1	57.1	56.2	56.4	54.4	53.4	51.3	50.2	44.16
66.8	64.0	57.4	55.6	53.3	51.8	50.4	—	—	—	53.3	55.0	53.77
61.2	52.5	47.7	45.5	45.3	43.8	42.8	41.5	39.5	38.5	37.7	36.9	—
43.0	40.2	38.3	36.7	36.5	35.5	34.7	33.2	32.2	31.1	30.3	31.1	—
51.6	47.5	45.4	44.4	41.9	38.9	36.6	37.9	39.5	36.5	34.7	35.4	—
59.6	57.0	54.2	51.4	49.0	46.3	47.5	47.3	47.3	45.9	45.2	46.8	—
56.59	53.46	50.45	47.84	46.41	45.44	45.24	44.06	43.19	42.14	41.81	41.73	50.45
—	—	—	—	—	—	—	—	—	—	—	—	62.78
70.9	67.0	64.8	61.7	60.8	60.3	60.8	58.5	59.2	57.8	57.3	57.0	63.42
69.0	68.1	61.8	59.8	61.0	57.6	57.5	57.1	55.2	52.8	52.8	53.4	64.69
68.3	66.2	62.2	60.1	59.8	59.6	60.1	60.6	60.6	59.6	59.8	54.4	56.96
60.0	58.6	58.1	55.3	54.4	54.0	53.4	52.2	52.3	49.4	48.8	47.6	52.20
55.4	54.4	52.8	51.8	50.0	48.3	46.4	45.9	45.0	46.1	46.5	47.0	59.76
59.5	57.0	55.8	54.9	55.0	54.2	—	—	—	—	—	—	70.06
—	—	—	—	—	—	71.9	72.3	71.4	49.7	67.9	66.2	66.93
74.9	71.1	67.7	64.8	63.5	63.0	60.3	57.4	56.2	55.9	53.4	54.6	63.99
67.6	66.5	65.2	64.6	63.6	64.2	63.2	58.6	58.0	58.4	58.0	59.2	65.63
67.3	66.0	61.6	59.0	58.6	58.4	58.8	58.6	58.6	59.0	59.7	59.1	63.58
73.9	71.9	67.0	64.2	64.1	63.5	65.3	64.8	63.3	60.3	58.8	58.3	57.78
69.1	67.3	63.6	61.8	60.6	58.8	57.2	56.0	55.4	54.6	53.4	53.2	53.03
64.7	61.1	53.6	49.4	47.5	46.4	—	—	—	—	—	—	54.55
—	—	—	—	—	—	54.6	54.5	52.6	51.3	49.6	49.9	58.05
54.8	54.3	54.6	55.5	52.8	52.6	49.5	46.2	44.2	42.7	41.1	41.1	60.00
64.4	62.8	59.3	54.6	52.9	53.0	50.5	46.6	44.2	42.6	41.3	42.2	64.40
61.2	58.8	56.8	58.2	56.8	54.6	55.3	54.7	49.5	48.8	46.8	46.3	62.60
70.2	67.3	59.3	55.0	52.4	51.3	50.4	50.6	49.2	46.8	45.6	48.4	69.08
64.8	64.0	63.8	63.3	64.4	64.7	62.5	61.4	61.0	60.9	60.8	61.8	69.36
66.8	65.3	60.9	58.2	55.0	54.6	—	—	—	—	—	—	58.03
—	—	—	—	—	—	56.1	55.4	54.6	51.0	50.5	50.7	60.60
78.2	75.0	71.3	70.7	66.8	64.3	63.1	60.6	59.3	58.4	59.4	60.1	64.15
76.8	72.6	69.6	67.8	66.5	65.0	63.2	61.3	60.1	58.5	56.0	54.4	58.25
66.9	63.9	57.0	54.8	53.8	49.9	48.5	45.6	45.3	47.8	45.2	43.6	55.07
74.5	68.7	64.3	58.8	54.0	51.6	50.3	48.1	48.5	48.9	51.4	51.4	—
72.0	69.0	62.1	60.6	58.0	56.4	56.5	56.6	56.6	56.0	55.0	55.8	—
62.5	61.8	59.4	56.4	55.9	56.0	—	—	—	—	—	—	—
—	—	—	—	—	—	56.0	55.3	54.1	53.0	52.5	53.2	—
57.2	54.6	53.4	52.8	53.0	51.6	48.6	48.6	48.6	49.2	49.2	49.6	—
66.84	64.53	61.04	58.96	57.65	56.56	56.80	55.50	54.64	53.58	52.83	52.74	61.40



STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	51.2	54.5	57.4	59.6	59.4	59.6	59.1	58.4	55.6	55.3	55.6	57.6
	2	58.7	57.6	59.5	60.9	61.8	65.6	64.8	66.1	65.6	63.3	63.2	62.2
	3	50.9	54.3	56.4	59.1	60.4	62.5	63.9	62.8	65.8	65.8	66.3	65.3
	4	53.1	54.0	56.8	57.0	60.7	61.7	64.3	66.1	65.8	66.8	66.8	67.3
	5	52.6	56.6	61.9	67.1	67.8	69.6	70.4	71.2	72.4	73.7	71.4	71.4
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	65.8	71.7	76.0	77.8	80.7	82.0	83.6	83.4	82.2	82.6	81.2	80.0
	8	59.5	65.8	71.0	76.4	74.6	76.4	79.5	81.0	81.9	83.7	83.7	83.4
	9	62.2	65.5	68.4	69.7	70.1	69.9	70.3	73.2	75.2	74.5	76.3	75.7
	10	53.8	61.3	69.0	73.5	75.0	76.9	79.9	76.8	79.0	79.5	78.2	76.8
	11	59.3	68.3	72.7	78.0	80.3	83.5	86.3	86.8	88.0	89.3	89.0	83.6
	12	66.2	74.2	77.0	80.3	84.2	90.2	92.0	92.8	94.6	95.0	94.5	94.2
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	73.0	76.8	77.3	83.6	82.2	84.9	86.6	86.5	88.1	88.4	89.0	87.3
	15	69.8	74.4	76.2	79.7	82.1	84.3	84.0	85.7	87.0	88.0	88.1	87.0
	16	64.1	74.6	77.6	79.4	81.9	84.5	87.5	88.2	84.7	86.4	85.0	84.3
	17	71.8	73.7	75.9	79.0	80.4	81.7	83.2	85.2	86.5	86.8	86.5	83.2
	18	62.2	65.3	67.6	70.4	72.4	74.3	76.0	77.6	74.2	78.6	78.6	79.6
	19	61.2	62.3	64.4	63.8	64.8	71.4	71.7	71.0	72.5	75.4	73.0	72.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	70.1	74.2	74.8	78.2	79.8	83.5	82.4	84.3	86.0	86.4	87.5	84.8
	22	63.3	66.1	70.2	74.3	76.8	78.3	76.5	77.2	78.3	78.0	73.0	73.3
	23	59.0	60.3	62.2	62.2	64.3	66.8	67.0	67.3	68.0	68.0	66.6	67.6
	24	57.8	57.3	57.6	58.2	59.8	60.1	62.8	66.3	68.3	70.1	70.7	69.3
	25	56.6	63.5	68.5	70.7	73.8	73.6	75.3	75.2	76.2	75.8	76.5	74.0
	26	56.4	62.3	69.0	69.3	72.5	72.5	75.2	76.8	78.0	79.0	78.2	76.7
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	62.5	62.6	65.3	69.2	69.6	70.8	69.3	70.3	72.7	73.5	73.8	73.0
	29	58.0	59.6	59.3	60.2	61.8	62.8	63.8	65.4	68.0	70.5	67.5	65.3
	30	57.3	57.6	57.6	58.0	58.4	58.2	59.9	61.8	59.4	59.4	61.3	58.3
	31	51.4	55.2	60.1	63.2	65.2	64.6	66.4	66.4	67.9	68.3	68.5	68.3
Hourly Means	60.29	64.06	67.03	69.59	71.14	72.97	74.13	74.96	75.63	76.37	75.89	74.87	
AUGUST.	1	56.2	59.8	63.7	66.5	67.0	70.7	69.5	73.0	72.7	67.6	67.6	67.5
	2	49.3	58.3	64.0	66.3	68.5	69.5	69.9	66.4	71.5	71.8	72.5	69.8
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	56.0	64.8	68.8	71.0	74.1	78.0	76.0	78.0	80.8	79.2	78.2	75.4
	5	59.1	66.2	71.0	72.6	74.4	77.3	79.6	81.0	80.4	80.2	78.2	76.7
	6	61.2	67.5	71.0	76.5	77.0	77.5	79.4	80.5	79.8	78.0	76.5	78.3
	7	58.4	68.6	72.4	76.4	77.4	78.5	79.8	81.9	83.7	83.5	84.8	79.5
	8	67.0	66.2	66.9	67.5	69.3	71.4	76.6	76.8	78.5	76.2	76.3	74.6
	9	65.0	70.6	74.8	78.2	78.6	79.6	79.6	81.0	81.8	82.4	82.8	81.6
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	66.3	67.3	68.6	69.0	72.1	76.1	77.2	71.2	72.0	72.7	74.4	77.3
	12	61.8	65.8	69.6	71.8	74.4	79.2	73.8	72.6	75.7	78.2	77.9	79.4
	13	57.8	61.5	63.3	64.1	65.0	65.6	65.0	66.2	68.6	67.0	70.4	68.8
	14	58.4	62.0	65.5	68.2	71.2	71.9	72.8	73.0	73.4	75.0	75.0	72.7
	15	57.3	64.0	69.2	72.0	72.5	74.0	73.5	73.8	74.2	74.3	74.7	74.2
	16	60.7	67.8	72.2	74.7	77.2	76.7	76.6	78.6	78.8	78.0	78.2	77.6
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	68.5	69.6	70.5	72.8	75.0	77.6	75.6	73.2	77.0	80.4	82.2	80.7
	19	66.9	66.7	66.7	68.1	68.6	71.0	72.4	72.7	73.8	73.0	74.5	73.8
	20	62.6	66.6	69.6	74.5	76.2	77.4	78.5	79.5	79.0	79.4	77.0	75.5
	21	63.8	71.0	73.8	76.7	78.0	79.5	79.5	79.0	81.2	81.5	79.0	78.0
	22	63.2	67.0	70.6	73.0	73.4	76.0	78.4	77.6	78.8	79.8	80.2	77.0
	23	61.9	65.0	73.2	77.2	78.4	80.6	79.4	80.8	80.6	80.8	78.7	78.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	55.8	61.8	68.8	71.4	74.0	77.2	76.2	76.2	77.8	78.8	77.5	78.0
	26	63.2	66.6	70.2	72.8	75.0	74.8	74.2	75.0	75.0	75.0	74.5	74.7
	27	61.7	61.9	61.4	61.3	61.5	63.3	64.3	66.2	66.4	66.0	65.6	65.4
	28	55.3	58.0	61.8	63.2	64.7	65.0	67.0	66.6	67.4	67.2	67.4	68.1
	29	58.5	65.0	67.4	70.7	71.8	74.6	74.6	73.0	75.5	78.4	77.4	75.5
	30	66.8	67.4	67.0	69.2	72.0	73.0	74.5	75.6	76.7	77.7	74.8	73.5
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	60.87	65.27	68.54	70.99	72.59	74.35	74.77	75.17	76.22	76.23	76.01	75.09	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
57.4	57.8	57.8	57.2	57.0	57.1	57.3	55.8	56.1	56.0	55.6	55.5	56.83
59.9	59.3	57.8	58.0	58.6	58.1	56.0	50.8	47.9	46.1	45.9	49.4	58.21
64.1	60.4	57.0	55.8	55.1	54.2	53.8	52.4	51.2	50.1	50.0	49.3	57.79
66.1	63.4	57.2	55.4	53.2	53.4	52.3	52.0	49.1	46.5	45.6	46.3	57.54
68.1	66.2	63.2	60.5	60.2	60.8	—	—	—	—	—	—	—
—	—	—	—	—	—	63.4	61.4	61.0	60.6	59.9	61.8	64.72
79.8	75.2	71.7	68.6	67.2	62.8	62.2	59.4	56.3	55.6	56.2	56.8	71.62
80.4	76.4	72.0	70.7	68.8	67.3	63.7	62.0	58.4	58.0	54.4	56.0	71.04
73.1	67.3	59.4	56.3	54.6	54.0	55.0	50.7	49.5	48.7	48.0	48.3	63.16
75.2	68.9	62.9	58.5	57.4	57.4	57.2	54.8	54.6	53.8	52.5	51.3	66.01
80.7	76.6	71.6	68.1	66.1	65.8	65.2	64.0	63.0	61.8	62.3	60.1	73.72
92.7	88.7	80.6	77.5	79.0	79.0	—	—	—	—	—	—	—
—	—	—	—	—	—	74.4	74.0	76.1	74.6	72.0	71.9	82.32
84.4	80.0	75.5	73.0	70.0	67.7	65.6	64.2	63.5	63.7	62.3	62.4	76.50
84.0	78.0	70.2	67.4	68.7	66.6	64.5	63.6	65.4	63.4	60.7	62.5	75.05
85.3	81.2	77.5	74.2	72.0	70.5	71.2	71.3	71.2	70.1	69.9	69.1	77.57
83.6	79.8	73.4	67.4	71.2	68.3	66.7	64.6	60.9	57.2	55.7	56.8	74.15
78.0	74.0	64.9	60.6	57.2	56.1	55.0	54.0	54.7	54.6	56.3	57.2	66.64
69.6	67.2	65.2	62.9	61.8	63.0	—	—	—	—	—	—	—
—	—	—	—	—	—	73.2	71.2	69.5	69.2	67.2	64.9	67.85
69.9	75.0	69.0	68.0	71.5	68.2	67.8	63.6	62.6	58.7	58.8	60.1	73.55
72.0	70.6	68.6	64.8	62.7	60.4	59.6	59.9	58.8	58.1	57.5	57.0	68.14
67.0	65.2	63.2	62.8	61.1	59.4	56.3	58.3	57.0	58.3	57.8	57.4	62.63
71.0	64.7	58.4	58.9	59.6	57.0	55.0	52.6	54.2	54.0	53.5	54.2	60.48
72.0	68.2	63.7	61.5	58.2	55.6	56.0	54.5	55.1	55.0	55.1	51.4	65.25
74.2	67.9	66.8	67.1	67.0	66.9	—	—	—	—	—	—	—
—	—	—	—	—	—	61.2	60.1	60.3	60.9	60.2	61.0	68.31
69.9	67.0	63.3	61.9	55.0	52.4	51.3	53.0	54.2	54.8	54.8	56.0	63.59
66.1	64.2	64.1	63.3	61.6	61.2	59.9	57.2	56.1	59.0	59.8	58.8	62.23
58.0	57.8	56.2	55.1	54.3	53.3	52.5	52.0	50.9	50.4	48.3	47.2	55.97
65.4	62.2	58.2	57.5	56.5	55.1	53.3	50.7	48.8	50.7	51.5	52.4	59.48
72.89	69.75	65.53	63.44	62.43	61.17	60.35	58.82	58.01	57.40	56.73	56.86	66.68
64.3	62.3	59.5	54.8	53.0	51.6	53.5	47.6	46.5	44.7	44.9	44.8	59.55
69.4	63.0	58.5	59.2	56.0	57.0	—	—	—	—	—	—	—
—	—	—	—	—	—	58.8	57.8	56.0	55.0	54.4	52.0	62.29
76.4	72.4	69.2	63.8	60.7	58.6	57.0	55.6	55.0	54.2	54.6	52.6	67.10
77.3	72.8	67.8	64.3	62.2	62.4	60.5	57.8	57.3	57.3	56.3	56.6	68.72
76.7	72.7	66.2	63.8	61.2	60.6	59.8	58.8	58.1	57.2	56.6	56.3	68.80
75.7	73.7	68.8	66.5	65.8	65.6	66.1	66.4	66.1	64.4	64.3	69.6	72.41
74.8	72.0	69.2	66.9	65.5	65.3	65.3	65.8	65.3	64.9	64.9	63.4	69.61
78.6	72.6	69.2	67.4	65.9	65.6	—	—	—	—	—	—	—
—	—	—	—	—	—	67.1	67.3	66.1	66.3	66.2	66.3	73.11
76.5	71.6	69.3	68.3	67.2	66.7	64.9	63.3	63.1	62.8	61.3	60.1	69.14
75.6	72.2	67.2	60.5	57.3	57.3	56.8	55.2	54.6	54.1	54.0	53.5	66.48
68.6	65.8	64.8	62.4	62.0	63.7	62.4	60.4	58.6	55.2	58.8	58.2	63.51
71.7	65.9	60.9	58.4	56.0	56.1	55.8	56.8	57.8	56.5	57.2	57.3	64.56
71.0	68.2	65.1	62.6	61.4	61.4	60.3	59.9	60.3	60.2	60.1	58.8	66.79
76.5	67.5	64.6	64.0	62.2	60.4	—	—	—	—	—	—	—
—	—	—	—	—	—	67.3	67.5	67.6	68.0	68.0	67.8	70.77
76.2	75.0	72.7	71.1	69.9	68.2	69.0	68.3	68.1	65.9	65.5	65.9	72.66
70.0	66.6	64.6	65.3	62.6	62.6	63.0	63.4	63.0	62.7	62.9	62.8	67.40
74.0	71.7	69.2	68.2	67.0	65.6	65.0	64.1	64.2	63.2	62.1	61.9	70.50
76.8	73.0	72.4	72.5	71.3	70.4	68.2	66.2	65.3	64.9	64.4	63.0	72.89
75.0	69.2	65.5	62.7	61.3	59.6	59.4	61.4	61.4	60.4	60.3	61.3	68.85
76.5	72.2	69.5	74.3	72.0	70.3	—	—	—	—	—	—	—
—	—	—	—	—	—	57.4	60.6	60.5	58.3	53.4	53.5	70.58
75.5	73.0	71.7	70.5	69.9	65.0	62.2	60.2	60.9	60.9	60.4	59.3	69.29
71.6	68.6	64.0	63.8	63.4	62.0	61.8	61.6	61.4	61.3	61.8	61.9	68.09
65.2	65.2	63.4	62.3	60.1	57.5	56.7	55.8	54.2	55.0	55.2	55.2	61.28
66.0	63.2	63.0	62.9	62.9	63.4	63.3	62.5	62.2	61.1	56.4	56.1	63.11
74.4	73.2	73.0	70.4	68.6	69.0	68.8	68.6	66.6	66.0	66.0	66.3	70.55
69.9	66.1	64.2	62.4	60.5	59.9	—	—	—	—	—	—	—
—	—	—	—	—	—	53.5	52.4	52.2	51.4	51.6	52.3	65.19
73.24	69.60	66.67	64.97	63.30	62.53	61.69	60.97	60.48	59.69	59.29	59.11	67.82

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	54.4	56.8	62.8	64.5	67.6	69.4	69.7	67.8	68.5	66.8	65.9	64.7
	2	62.4	65.5	68.0	68.8	69.3	70.3	72.0	72.8	73.8	72.8	72.7	70.3
	3	57.1	61.6	65.1	69.1	72.0	74.2	76.6	76.4	77.6	78.6	79.2	79.0
	4	61.1	62.2	65.2	67.3	70.1	72.6	75.1	77.6	78.4	77.3	76.0	72.9
	5	55.2	58.6	61.3	62.6	65.6	68.5	70.2	69.7	61.2	63.7	64.8	61.3
	6	46.1	53.5	54.5	57.4	60.3	65.6	63.7	65.2	66.8	64.3	64.7	65.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	42.3	47.5	51.2	54.3	55.8	57.3	58.0	58.0	58.8	58.8	59.2	58.2
	9	49.3	51.3	52.8	58.1	61.4	64.0	65.5	66.6	66.2	66.3	65.7	63.8
	10	50.2	54.1	56.5	59.3	62.2	59.2	55.3	59.6	61.5	63.4	62.2	61.4
	11	41.6	49.8	52.9	56.4	58.8	60.9	60.3	61.8	59.0	62.7	60.1	60.2
	12	41.6	48.2	51.1	56.2	56.2	56.3	57.0	57.3	57.3	58.1	57.8	56.2
	13	53.6	54.2	55.2	57.0	57.6	58.0	56.5	56.4	56.4	57.4	59.1	61.1
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	52.6	56.0	58.6	61.9	66.4	68.3	69.6	69.6	69.2	69.0	67.2	64.7
	16	38.8	44.6	49.6	53.0	55.8	56.8	57.0	56.3	57.2	57.8	58.8	57.3
	17	39.7	43.8	48.2	53.6	57.8	58.9	61.0	62.5	63.8	63.3	65.2	63.3
	18	61.3	62.6	62.6	66.2	69.9	71.3	71.6	72.0	74.7	73.8	69.9	67.1
	19	46.2	50.1	52.2	57.2	58.3	59.3	59.5	60.1	61.1	61.6	62.4	58.4
	20	53.3	53.8	54.8	57.0	56.2	55.0	55.2	57.0	57.8	56.0	55.6	55.3
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	35.0	40.0	44.0	48.3	50.9	53.2	51.8	50.7	54.8	52.8	54.0	51.3
	23	49.3	49.6	50.5	50.1	50.1	49.7	50.1	50.4	51.3	52.2	52.5	52.4
	24	48.1	49.2	50.2	50.1	51.3	51.8	52.3	52.8	51.8	51.8	51.5	51.2
	25	42.3	45.0	47.8	51.4	55.2	56.4	58.6	56.9	56.9	57.5	56.3	53.2
	26	47.6	50.9	52.3	53.1	53.4	51.0	52.0	53.0	57.0	59.0	58.2	57.8
	27	38.4	42.5	48.6	52.2	54.6	55.0	56.6	57.0	56.8	55.0	54.1	52.0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	56.4	59.6	64.3	65.5	66.6	69.0	69.6	69.2	68.2	66.6	67.0	65.2
	30	59.0	58.8	58.8	59.2	59.8	60.9	62.3	65.3	63.5	63.8	60.9	60.4
	Hourly Means	49.34	52.68	55.35	58.07	60.12	61.27	61.81	62.38	62.68	62.71	62.35	60.91
OCTOBER.	1	52.1	52.2	51.9	57.7	57.7	59.1	59.0	58.7	58.9	56.9	55.0	53.9
	2	47.4	49.0	51.5	53.5	56.1	57.2	57.5	58.7	57.5	58.9	58.1	57.2
	3	56.3	54.4	53.5	53.5	54.1	54.7	55.1	55.8	56.3	56.3	55.2	54.1
	4	50.4	49.6	49.9	51.4	53.2	53.6	56.7	56.6	57.2	58.1	57.0	56.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	33.2	37.8	42.0	46.0	48.5	50.1	50.2	50.4	50.4	50.0	49.5	47.3
	7	38.4	39.9	46.6	51.7	54.1	54.5	55.1	54.3	54.1	54.1	53.5	52.9
	8	47.6	49.1	51.7	53.5	56.5	58.1	58.3	57.3	56.1	54.9	54.5	54.6
	9	57.7	57.9	60.2	59.7	62.7	61.1	62.2	62.5	62.9	63.1	62.7	60.8
	10	51.9	53.3	56.5	57.1	57.5	59.5	59.7	59.3	59.1	58.9	58.6	58.3
	11	56.2	56.2	55.4	55.1	54.9	54.2	54.8	56.0	55.7	55.5	55.1	54.6
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	38.1	38.4	42.7	45.5	48.2	51.2	52.0	52.9	53.8	53.4	53.3	51.9
	14	50.8	47.2	46.0	45.6	46.3	47.8	49.4	48.6	48.4	46.8	46.4	43.0
	15	27.7	28.6	34.6	38.1	38.9	41.1	40.6	43.3	42.8	40.9	40.3	38.8
	16	33.5	33.5	37.3	41.7	43.4	44.8	45.0	46.0	45.3	45.8	45.4	43.3
	17	34.6	36.4	39.7	42.7	48.0	49.8	51.2	50.9	51.7	52.1	50.9	48.3
	18	35.4	36.3	42.2	49.8	50.8	52.6	55.1	56.5	57.5	57.9	55.0	52.3
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	38.9	38.9	38.7	39.1	39.9	42.2	40.8	41.2	40.8	38.9	37.3	36.3
	21	24.6	26.9	29.5	31.8	33.4	33.1	34.9	35.1	34.3	33.2	32.7	31.0
	22	21.7	22.5	28.7	35.3	37.2	37.9	38.5	39.3	39.3	40.5	41.3	38.2
	23	23.8	24.6	31.3	37.6	43.0	43.5	44.8	47.4	48.7	49.2	48.9	44.5
	24	42.4	42.5	44.8	47.9	50.9	53.9	52.7	52.5	51.9	51.9	50.2	45.3
	25	41.0	42.5	44.0	47.2	48.6	50.2	50.8	50.5	49.5	48.4	47.5	46.7
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	37.7	37.6	43.5	50.6	52.9	55.7	57.5	58.7	60.0	60.2	59.5	55.3
	28	44.1	45.5	48.3	52.7	55.2	57.3	58.4	59.0	59.8	59.8	58.3	55.9
	29	36.7	37.3	40.8	49.3	52.7	55.0	57.1	59.8	59.8	60.3	61.8	58.7
	30	55.8	57.2	58.2	59.1	58.3	59.0	60.8	54.9	53.1	52.4	52.3	50.0
	31	49.4	50.0	50.8	50.8	52.7	53.7	54.1	54.1	56.5	55.1	55.4	54.6
Hourly Means	41.75	42.42	45.19	48.29	50.21	51.51	52.31	52.60	52.64	52.35	51.65	49.77	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
64.1	63.1	63.4	63.3	63.3	62.7	62.7	63.7	—	—	—	—	64.25
67.0	65.2	63.6	62.4	60.1	60.1	60.1	59.6	58.5	58.2	57.4	55.0	65.25
76.7	70.3	64.8	62.3	64.4	64.7	63.0	58.8	55.8	57.8	56.8	60.2	67.59
69.9	66.2	64.0	61.2	59.0	57.3	55.2	55.2	55.0	55.2	54.8	54.4	65.13
60.8	59.0	57.4	53.8	51.8	53.2	53.4	53.0	51.0	51.2	50.3	49.6	58.63
64.4	63.3	63.6	63.4	63.1	63.0	—	—	—	—	—	—	57.19
—	—	—	—	—	—	48.3	46.5	45.5	42.9	39.9	41.5	52.30
55.8	48.4	46.2	46.8	47.0	46.8	49.8	54.6	53.0	51.2	48.3	48.0	57.32
62.5	60.6	58.3	55.2	54.3	54.0	52.2	50.7	49.9	48.6	49.2	49.2	53.83
59.4	57.0	54.6	49.9	48.9	49.2	48.3	45.3	45.1	46.6	41.4	41.2	51.87
57.0	52.3	51.2	50.5	45.8	45.4	45.4	43.4	43.8	42.6	41.6	41.4	52.25
53.8	49.9	48.5	47.2	46.8	44.8	49.2	47.3	52.6	53.6	53.5	53.4	55.89
61.6	62.4	62.1	62.0	52.2	51.8	—	—	—	—	—	—	57.53
—	—	—	—	—	—	50.1	49.8	52.2	51.8	51.4	51.5	48.90
60.9	57.5	55.3	52.3	50.5	50.1	49.7	49.0	47.9	47.3	46.7	40.3	58.99
54.2	49.4	47.6	45.8	44.8	43.3	42.2	41.4	41.4	42.4	39.7	38.4	60.72
62.4	62.0	61.2	62.8	61.0	61.9	60.7	62.0	60.4	61.4	59.6	59.3	55.25
63.5	59.4	57.8	55.0	52.8	52.2	51.4	50.9	50.1	48.2	46.8	46.2	50.20
57.5	52.8	52.8	53.2	52.8	52.8	52.8	52.4	53.2	53.1	53.3	53.0	49.24
55.5	52.8	52.3	50.4	49.9	49.5	—	—	—	—	—	—	49.67
—	—	—	—	—	—	39.4	38.6	38.3	38.2	37.6	35.4	48.16
50.3	49.3	50.6	51.2	51.5	50.1	49.2	48.5	48.0	48.3	48.1	49.9	50.33
50.9	48.8	49.1	49.3	49.5	49.4	47.1	48.7	48.5	48.5	47.6	46.5	50.07
50.1	47.6	47.0	46.2	45.0	45.8	45.8	44.8	44.3	44.0	43.0	40.2	52.62
50.7	47.8	48.0	47.9	47.2	47.0	48.4	45.8	46.6	46.5	47.7	46.8	63.98
54.8	52.6	49.0	49.3	48.5	47.8	47.3	44.8	42.0	40.6	40.4	39.2	58.09
51.2	50.7	48.3	47.8	49.2	48.0	—	—	—	—	—	—	55.92
—	—	—	—	—	—	57.0	56.0	58.5	58.1	57.8	57.4	63.98
64.5	64.2	64.7	64.4	63.8	63.6	61.8	62.7	60.5	59.8	59.2	59.0	58.09
58.6	58.6	56.6	56.3	55.8	54.8	55.8	53.9	52.3	53.4	52.7	52.7	55.92
59.16	56.58	55.31	54.22	53.04	52.67	51.78	51.05	50.18	49.98	48.99	48.39	55.92
52.3	49.4	47.2	46.2	44.6	43.5	42.8	42.0	42.8	42.5	45.5	46.7	50.78
56.7	56.2	55.3	54.8	54.6	54.6	52.7	54.7	55.7	56.4	56.1	55.9	55.26
52.9	52.1	51.7	51.9	51.7	51.5	51.4	51.2	51.3	51.2	51.2	50.4	53.24
54.9	54.2	52.3	51.3	51.1	51.3	—	—	—	—	—	—	48.41
—	—	—	—	—	—	34.5	33.3	32.3	32.2	32.7	32.0	41.73
41.2	38.7	37.5	37.5	36.9	37.3	35.7	35.7	35.6	36.9	36.2	36.8	50.20
51.7	51.1	51.5	50.4	50.0	50.1	50.4	48.4	48.2	47.7	47.6	48.6	55.39
55.0	55.5	55.3	55.4	55.5	55.7	55.8	56.7	57.2	58.5	58.7	57.9	55.86
54.5	51.7	49.8	50.6	52.7	52.3	52.1	50.2	48.5	47.6	46.2	50.9	57.55
58.5	59.0	59.4	59.5	59.3	58.9	58.3	56.3	55.9	55.5	55.1	55.7	49.92
53.9	53.7	53.3	51.8	51.2	49.2	—	—	—	—	—	—	50.53
—	—	—	—	—	—	38.1	36.7	35.3	33.9	37.9	39.4	42.05
51.5	51.5	51.7	51.5	52.4	52.9	53.2	53.2	53.6	53.4	53.3	53.2	35.13
41.3	40.5	40.5	40.2	40.1	40.1	36.7	35.2	34.4	33.1	31.7	29.1	38.35
36.8	35.7	32.9	32.3	31.0	31.4	30.5	30.4	30.5	30.4	32.3	33.3	41.63
36.5	37.3	34.7	34.4	36.3	36.3	35.5	31.8	31.4	33.5	33.7	33.9	47.90
42.6	41.4	44.1	41.6	36.9	35.1	34.4	33.9	33.4	32.9	32.9	33.6	33.60
51.1	50.4	49.1	48.7	47.7	45.8	—	—	—	—	—	—	28.99
—	—	—	—	—	—	44.3	44.1	44.0	43.2	40.8	39.1	31.18
34.2	33.1	32.2	31.4	29.9	27.4	24.7	25.2	24.6	24.7	23.1	23.0	41.85
29.9	27.6	27.2	28.5	28.5	28.0	25.7	24.5	25.6	24.6	24.3	20.8	44.78
36.5	30.3	28.4	27.4	27.2	27.6	25.9	26.0	25.2	24.8	24.3	24.3	44.90
44.7	45.1	45.5	45.6	44.3	41.6	41.8	41.2	41.5	42.2	41.7	42.0	48.30
41.2	40.4	40.8	42.3	41.4	40.6	40.1	40.2	40.7	40.7	39.9	39.5	49.44
45.8	45.8	45.5	44.9	44.9	44.5	—	—	—	—	—	—	54.54
—	—	—	—	—	—	41.1	40.8	40.8	39.7	38.7	38.3	52.47
51.1	50.4	46.4	45.0	44.3	43.6	43.4	42.4	42.1	41.5	40.1	40.8	53.14
50.9	46.7	44.9	48.2	49.0	49.1	46.0	43.9	40.4	38.1	37.1	37.9	46.56
56.7	54.1	52.9	51.1	50.6	57.2	61.2	60.4	60.4	58.4	58.9	57.7	52.47
49.4	49.1	48.9	48.3	48.7	48.9	48.8	48.9	48.9	49.3	49.7	49.2	53.14
55.1	54.0	54.1	53.6	54.2	54.9	53.0	56.1	53.6	51.9	49.1	48.6	46.56
47.66	46.48	45.67	45.35	45.00	44.79	42.89	42.35	41.99	41.66	41.44	41.43	46.56

STANDARD THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	47.5	47.3	47.2	50.9	53.2	52.7	55.5	54.7	59.2	57.7	56.9	52.1
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	38.3	37.9	38.9	39.9	40.8	48.9	48.5	49.1	48.2	46.1	44.0	42.8
	4	39.0	39.2	39.7	41.6	43.7	43.5	44.2	44.4	44.4	44.2	43.4	42.3
	5	39.7	39.3	39.4	40.0	40.5	43.6	44.6	44.4	42.5	42.5	42.7	43.5
	6	41.8	41.8	42.8	43.7	45.3	43.9	43.6	44.4	44.2	45.0	44.2	43.0
	7	38.1	38.1	37.7	39.1	40.1	40.3	41.3	41.8	42.3	41.9	41.7	40.9
	8	36.5	36.5	36.7	36.3	35.9	35.0	34.3	34.2	34.2	34.4	34.1	34.1
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	34.7	36.2	38.7	39.7	41.1	43.2	45.1	45.5	46.7	45.5	45.5	40.1
	11	37.3	37.3	37.4	37.4	37.9	39.1	41.4	41.4	42.5	42.5	41.9	40.1
	12	30.1	30.4	33.2	37.7	39.5	40.1	41.1	41.5	41.3	40.2	40.2	37.6
	13	36.1	36.1	37.5	43.4	45.8	49.2	49.2	50.0	49.7	50.0	48.9	47.0
	14	38.2	40.2	41.2	43.2	43.5	47.8	51.2	51.5	51.5	49.2	48.2	45.8
	15	30.7	31.2	32.5	35.3	38.8	42.0	40.7	42.0	43.0	43.2	42.2	41.1
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	37.5	39.6	41.1	42.9	44.0	45.1	45.7	45.5	45.6	46.2	46.8	47.0
	18	47.1	47.1	48.0	48.8	49.3	52.1	51.5	52.4	51.7	52.0	52.0	52.0
	19	45.4	44.7	43.6	44.4	44.0	44.0	44.2	44.4	43.5	43.0	42.5	40.7
	20	37.5	37.5	38.9	44.3	49.1	52.2	53.2	52.9	52.3	51.1	49.3	51.2
	21	35.0	33.9	34.5	36.1	36.5	38.7	38.4	37.2	37.7	36.5	34.6	33.8
	22	30.3	31.4	32.4	33.3	34.1	34.6	35.5	36.1	36.8	35.9	35.7	35.4
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	23.3	21.9	22.5	25.5	27.4	28.8	29.1	28.0	28.5	27.4	25.8	24.0
	25	32.2	32.3	34.5	37.5	38.7	39.9	40.1	40.5	40.1	38.6	37.7	36.3
	26	32.9	32.7	32.5	32.3	32.3	32.2	32.3	32.5	32.7	32.9	32.7	32.4
	27	23.1	22.5	21.9	20.6	19.8	19.8	22.0	22.8	23.3	22.5	21.8	22.1
	28	9.1	9.1	9.4	12.1	13.4	15.8	17.8	18.0	18.6	20.1	17.1	16.7
	29	15.2	16.3	17.1	18.1	20.4	21.7	22.5	22.3	21.7	21.6	22.1	23.5
	30	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	34.26	34.42	35.17	36.96	38.20	39.73	40.52	40.70	40.89	40.41	39.28	38.62	
DECEMBER.	1	19.4	19.6	19.4	20.0	20.8	21.4	22.3	22.9	22.7	22.8	22.1	21.4
	2	10.9	10.7	12.0	13.0	15.7	16.3	16.8	17.8	18.2	18.2	16.5	11.1
	3	10.4	11.4	12.5	14.9	15.5	15.9	17.0	19.4	19.6	19.9	22.0	22.5
	4	27.0	27.5	27.9	28.8	30.4	31.5	28.8	28.8	29.7	29.7	28.7	27.6
	5	22.3	22.1	22.6	23.0	24.9	25.2	26.0	26.6	26.6	25.4	24.6	23.7
	6	22.6	22.4	23.9	24.6	25.6	26.4	26.4	27.2	26.9	26.8	25.6	24.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	25.2	25.2	25.8	27.3	28.2	30.3	31.0	31.4	31.8	32.3	31.8	30.5
	9	30.1	30.7	30.5	31.2	31.8	31.7	32.2	32.4	33.2	32.9	32.3	31.8
	10	16.5	15.9	14.4	16.8	17.8	18.2	17.9	17.3	17.9	18.7	17.1	16.9
	11	5.9	5.3	4.6	4.0	5.6	7.3	8.9	10.2	11.1	10.3	10.0	9.4
	12	3.7	3.3	1.9	6.7	11.2	13.3	15.0	17.5	20.2	20.6	20.4	19.9
	13	16.7	14.2	16.7	25.5	29.4	30.2	30.1	30.2	30.7	30.7	30.4	31.0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	32.2	31.5	32.9	33.3	33.6	33.9	32.3	31.1	31.1	31.8	31.6	30.4
	16	23.1	22.6	25.8	27.6	30.1	32.3	33.9	34.3	34.5	34.7	33.7	31.8
	17	23.9	30.3	30.7	32.6	34.5	34.7	36.2	37.4	37.1	37.3	37.6	37.7
	18	34.3	33.1	33.4	33.9	35.3	35.3	35.7	35.6	35.9	34.9	34.1	33.7
	19	6.9	8.6	10.2	12.1	14.6	14.8	14.3	13.6	13.6	13.0	13.0	13.0
	20	9.5	10.0	10.6	11.5	12.1	14.0	14.4	15.5	16.3	16.2	15.7	14.9
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	11.3	11.8	11.8	13.5	16.5	18.4	19.8	20.0	20.6	21.0	20.6	17.4
	23	14.4	16.7	17.7	18.5	21.1	23.5	25.4	26.2	25.5	25.0	24.6	22.1
	24	19.9	19.5	19.2	20.4	22.5	25.0	26.8	27.5	28.6	28.2	27.5	26.6
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	17.2	16.2	15.0	15.7	17.2	17.3	19.1	20.9	21.7	22.3	21.2	15.1
	27	17.1	16.8	16.6	19.6	22.9	25.6	27.6	28.4	29.3	29.1	28.7	27.6
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	33.1	33.1	33.9	34.7	35.2	35.5	36.1	36.6	36.9	35.9	36.3	34.9
	30	29.1	28.2	27.8	28.5	28.2	28.7	29.1	29.1	28.4	27.6	25.2	24.1
	31	11.8	11.1	12.1	13.0	15.6	19.0	21.0	22.3	24.2	24.4	23.4	23.7
Hourly Means	19.02	19.15	19.61	21.18	22.93	24.07	24.77	25.39	25.83	25.76	25.18	23.95	

STANDARD THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
51.1	48.6	41.5	42.1	39.7	39.7	—	—	—	—	—	—	46.65
—	—	—	—	—	—	36.6	35.3	35.1	38.5	38.2	38.3	41.76
42.3	42.8	41.8	41.0	41.1	40.7	40.0	38.1	36.5	37.5	38.5	38.5	41.58
41.1	41.3	41.6	40.8	40.6	40.6	40.6	40.6	40.3	40.3	40.3	40.2	41.79
42.5	41.6	40.4	40.4	40.4	40.4	41.8	42.2	42.1	41.7	42.3	42.4	41.93
41.5	41.3	40.8	39.9	40.2	40.1	40.2	40.5	40.1	40.0	39.9	38.1	39.90
40.6	40.4	40.4	40.2	40.2	40.2	40.0	39.7	39.4	38.7	37.5	36.9	34.82
33.7	33.1	33.2	33.5	33.8	33.9	—	—	—	—	—	—	39.43
—	—	—	—	—	—	35.5	35.1	34.7	35.3	36.3	35.4	38.07
36.7	34.5	33.8	38.3	38.5	38.7	37.3	38.5	37.3	36.9	36.9	37.0	36.08
39.9	38.7	38.1	38.2	37.7	37.1	36.4	35.9	35.9	34.4	34.4	30.7	44.61
36.9	35.2	33.9	33.9	31.2	32.0	35.3	35.3	34.6	33.4	35.3	36.1	42.00
45.3	44.7	44.7	44.8	45.6	48.2	48.0	44.9	44.5	40.6	37.6	38.9	38.99
44.2	43.2	42.8	41.5	38.6	38.1	37.0	36.1	34.5	35.1	34.5	32.8	45.88
40.8	40.3	46.3	41.2	42.2	42.3	—	—	—	—	—	—	50.21
—	—	—	—	—	—	37.5	37.3	36.4	36.3	36.4	36.1	39.91
47.1	46.7	47.2	47.7	48.7	48.3	48.9	48.6	48.6	47.5	47.8	47.2	44.08
52.7	53.3	52.9	53.4	52.2	50.0	49.3	50.1	49.1	46.7	45.9	45.4	33.40
41.3	41.4	38.9	33.6	31.6	31.0	31.8	33.7	36.9	36.7	38.3	38.3	32.45
46.3	44.2	44.2	43.4	42.9	40.7	40.5	38.3	37.1	37.1	37.3	36.3	25.36
32.9	32.7	32.0	30.6	27.6	30.4	30.4	30.8	31.3	31.2	29.8	29.0	35.02
35.7	36.3	36.9	37.6	37.9	38.1	—	—	—	—	—	—	31.22
—	—	—	—	—	—	25.2	24.6	24.4	24.4	22.9	23.3	18.47
22.8	21.9	24.0	25.4	24.6	24.0	21.6	21.6	23.8	29.9	25.6	31.2	14.88
36.9	36.7	36.1	36.6	33.9	31.8	29.2	29.0	29.0	29.7	30.4	32.7	20.34
32.3	32.3	32.2	32.2	32.1	31.6	31.0	28.9	27.7	27.8	26.2	24.6	37.74
21.9	19.1	18.4	16.1	15.1	14.4	14.1	12.9	13.6	12.9	11.8	10.7	36.74
17.5	17.8	19.6	17.8	15.5	13.0	11.2	13.0	13.6	13.1	13.1	14.6	22.28
23.5	23.8	23.8	21.8	21.4	21.7	—	—	—	—	—	—	32.28
—	—	—	—	—	—	15.9	17.1	18.9	19.0	19.4	19.3	32.28
37.90	37.28	37.02	36.48	35.73	35.54	34.23	33.92	33.80	33.81	33.47	33.36	36.74
20.9	19.9	19.3	17.1	17.1	17.3	17.8	17.8	17.6	17.8	17.6	14.0	19.54
4.3	3.7	2.3	2.5	2.5	7.1	5.0	2.7	2.1	3.7	7.8	10.3	9.63
22.8	22.9	23.6	24.3	24.1	24.8	25.6	26.7	27.2	27.0	27.4	27.4	21.03
27.2	26.4	25.2	26.0	25.8	25.4	24.6	24.6	23.7	21.7	21.4	23.1	26.73
22.9	22.7	21.4	20.5	21.8	22.7	21.2	23.3	24.3	24.3	23.9	23.0	23.51
23.7	22.9	22.6	20.7	20.8	22.0	—	—	—	—	—	—	24.28
—	—	—	—	—	—	—	—	24.4	24.6	24.8	25.4	29.45
30.5	30.0	29.5	30.1	30.1	30.1	30.1	28.9	28.7	28.2	30.4	29.3	29.07
31.7	31.1	30.9	30.3	30.1	29.3	27.8	25.0	22.8	21.0	19.2	17.6	15.09
16.9	16.0	15.7	16.5	16.0	15.0	14.9	15.3	10.3	7.3	5.8	7.0	6.73
8.6	8.2	8.2	7.8	8.0	5.8	4.5	4.6	3.7	4.5	2.9	2.0	16.35
19.9	19.3	18.6	18.7	19.9	19.6	19.4	20.2	20.0	20.8	21.6	20.6	29.81
31.6	32.0	31.6	32.8	32.6	32.3	—	—	—	—	—	—	29.60
—	—	—	—	—	—	34.7	34.9	34.9	34.1	34.1	34.1	28.67
29.8	30.1	29.0	28.5	27.8	27.8	27.2	25.2	24.6	25.0	25.2	24.6	34.91
30.8	30.6	29.3	28.6	28.6	27.2	26.5	25.6	21.8	20.6	26.9	27.2	28.75
34.9	35.3	35.9	36.3	36.3	36.7	36.4	36.2	35.9	34.9	34.7	34.4	11.29
33.3	33.9	33.9	32.9	31.7	26.4	26.6	16.8	13.0	10.1	8.5	7.6	12.84
12.9	12.9	12.2	11.6	11.5	10.7	10.1	8.9	8.6	8.2	7.7	7.9	15.15
14.7	14.9	14.1	11.5	11.2	11.4	—	—	—	—	—	—	21.39
—	—	—	—	—	—	12.0	11.8	10.9	12.2	11.5	11.3	22.37
14.6	13.0	12.9	13.6	13.8	14.1	13.1	14.1	14.4	13.7	10.4	13.1	15.88
21.7	22.0	21.6	21.4	21.0	20.9	21.4	21.2	20.8	20.2	20.2	20.2	27.30
26.2	26.2	26.2	26.0	25.7	25.7	—	—	—	—	—	—	33.76
—	—	—	—	—	—	14.6	13.4	12.9	14.6	16.5	17.1	23.82
14.2	11.2	9.8	10.6	15.3	13.6	13.0	13.4	10.6	15.9	17.5	17.0	22.45
27.4	27.7	27.9	28.5	28.7	28.6	—	—	—	—	—	—	32.28
—	—	—	—	—	—	33.1	32.9	32.5	32.4	33.3	33.0	32.28
33.9	32.9	33.7	33.5	33.2	33.5	33.1	32.0	31.8	30.4	30.1	29.9	32.28
24.1	23.8	23.8	23.7	23.4	23.6	22.2	20.0	16.1	14.9	10.7	11.3	22.45
24.1	24.7	24.5	25.4	26.4	27.2	27.2	27.2	27.4	27.6	27.8	27.6	22.28
23.22	22.86	22.45	22.28	22.44	22.26	21.68	20.91	20.04	19.83	19.92	19.85	32.28

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
	18	19	20	21	22	23	0	1	2	3	4	5	
JANUARY.	1	35.0	34.6	34.6	35.8	34.2	35.8	35.6	36.0	34.3	34.8	33.0	31.2
	2	26.0	25.8	26.0	26.8	28.4	29.1	31.2	31.4	29.6	27.6	28.0	27.2
	3	32.3	32.6	33.6	35.0	35.4	36.2	37.0	37.0	37.6	38.4	40.2	39.7
	4	31.2	31.2	30.0	31.4	31.8	33.4	34.0	33.0	34.0	33.8	34.6	34.6
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	17.0	16.6	16.4	16.4	16.5	17.0	17.2	19.2	19.8	19.6	19.0	18.0
	7	21.8	23.9	25.0	19.0	20.8	21.0	22.2	22.3	24.3	24.2	25.6	25.4
	8	22.4	23.2	23.4	25.1	26.6	28.2	29.6	29.5	29.5	29.8	25.4	27.0
	9	32.4	32.6	32.0	34.1	36.4	35.7	36.6	35.6	35.8	35.4	35.4	34.0
	10	27.0	27.2	27.3	28.0	29.8	29.4	29.6	30.2	31.6	30.0	29.2	28.6
	11	23.8	24.0	23.7	25.0	26.9	27.8	28.4	28.4	28.8	27.6	27.0	26.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	23.4	18.4	18.4	17.0	17.6	17.0	17.8	18.2	18.3	18.8	18.6	18.2
	14	15.0	14.0	13.8	14.8	14.6	14.3	15.3	17.0	16.7	17.2	16.6	15.2
	15	22.2	22.4	22.6	24.4	26.6	28.3	30.2	31.0	31.6	31.6	30.4	29.8
	16	29.8	29.0	28.0	27.5	27.0	27.3	26.6	26.0	26.2	25.3	25.0	23.8
	17	19.0	19.5	19.4	19.8	18.2	21.2	21.8	22.4	23.0	22.0	20.6	18.6
	18	18.7	17.5	18.3	19.6	19.8	20.0	20.6	19.6	19.0	17.4	16.2	14.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	20.4	20.2	20.6	21.2	23.0	24.4	25.6	27.1	28.2	28.2	28.2	27.6
	21	28.3	28.3	29.6	29.2	29.0	29.2	30.4	31.8	32.5	32.4	31.6	32.0
	22	28.7	28.8	29.0	29.5	31.2	32.0	32.1	32.5	33.4	32.4	32.0	31.8
	23	18.0	17.6	21.8	29.8	31.6	31.7	32.1	32.4	32.6	33.0	32.6	32.8
	24	34.2	34.8	34.7	36.0	36.2	36.3	36.8	37.2	36.7	36.4	35.2	33.8
	25	26.8	23.6	22.4	21.8	22.0	23.4	25.2	24.8	26.2	26.2	25.3	23.7
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	19.8	20.5	21.8	24.6	30.2	32.2	33.0	34.4	34.3	34.3	34.2	33.3
	28	36.0	34.2	34.7	35.2	37.0	37.6	37.6	38.2	37.6	38.6	37.7	38.6
	29	26.6	26.7	26.8	27.2	28.7	29.6	29.0	29.6	26.8	25.0	23.0	22.8
	30	14.5	14.0	13.2	13.4	17.0	17.6	18.6	20.0	20.3	18.6	17.5	16.0
	31	14.4	11.4	11.4	13.0	13.2	11.5	11.3	10.2	10.4	11.4	9.7	8.3
Hourly Means	24.62	24.17	24.39	25.21	26.29	26.95	27.61	27.96	28.11	27.78	27.10	26.37	
FEBRUARY.	1	+3.0	-2.6	-2.1	0.3	2.9	4.8	5.5	7.4	9.0	10.0	10.5	8.8
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	16.3	16.5	16.6	19.0	17.5	17.6	20.0	21.4	20.6	21.0	20.6	20.8
	4	22.3	22.8	23.2	23.6	24.6	25.6	25.8	19.6	18.8	17.8	15.4	13.8
	5	10.4	9.8	10.6	11.6	13.0	13.8	14.4	15.3	15.0	14.2	14.6	14.7
	6	3.2	2.4	2.6	4.8	5.8	6.7	9.5	10.4	10.8	10.5	10.2	9.6
	7	12.0	10.8	11.8	15.4	16.4	18.5	19.9	21.4	23.0	23.7	23.7	21.9
	8	8.2	6.5	7.2	10.4	12.6	15.6	16.0	17.4	19.6	19.5	20.0	16.5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	23.6	23.4	24.0	27.0	30.0	29.6	30.0	31.0	30.8	30.4	29.8	29.6
	11	25.3	24.6	25.2	26.8	29.0	31.0	32.6	32.8	33.2	32.0	31.6	30.5
	12	32.4	32.4	31.6	29.0	28.0	24.4	21.6	20.5	18.6	16.4	15.6	12.6
	13	-3.6	-4.7	-2.7	0.4	2.2	4.1	5.3	6.6	7.0	8.4	8.8	8.4
	14	12.0	12.5	15.2	15.8	17.0	19.2	21.6	23.3	25.6	26.6	27.0	27.6
	15	33.0	33.4	34.2	34.9	35.8	36.2	36.6	37.3	37.6	36.8	36.4	36.6
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	31.6	31.8	32.4	33.6	35.0	32.4	34.0	35.2	34.2	34.4	34.0	33.8
	18	30.0	29.6	30.6	31.2	32.6	33.2	34.3	33.1	33.0	34.2	33.3	32.2
	19	31.2	31.4	31.5	32.2	32.7	34.6	35.2	34.8	34.6	34.0	34.4	32.8
	20	31.6	33.0	34.7	36.7	37.9	39.2	38.4	38.2	38.8	37.6	37.6	37.2
	21	32.0	32.2	33.4	35.4	37.4	40.0	40.2	41.0	39.6	39.6	40.4	39.4
	22	33.4	33.4	34.2	36.8	—	—	41.4	40.3	40.3	40.3	39.9	35.2
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	32.5	32.2	34.2	36.1	37.5	38.1	38.4	38.5	39.0	39.0	37.9	37.0
	25	32.7	34.2	37.0	40.7	40.7	42.6	43.4	42.9	42.8	42.4	41.8	41.5
	26	31.6	31.7	32.2	33.4	33.9	33.0	33.2	32.7	32.9	32.8	32.9	32.0
	27	25.0	24.2	26.6	31.3	32.9	34.3	35.2	35.1	37.2	34.7	33.6	31.8
	28	24.1	23.6	24.6	25.5	24.0	29.6	29.8	31.0	31.6	32.4	28.6	29.3
Hourly Means	21.98	21.88	22.97	24.66	25.19	26.27	27.60	27.80	28.07	27.86	27.44	26.40	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
30.5	30.3	31.4	33.0	30.4	30.4	29.8	29.4	29.0	28.6	27.2	25.2	32.09
27.6	27.5	28.0	28.8	29.4	30.0	30.3	30.2	30.2	30.4	30.8	32.2	28.85
41.6	43.0	38.6	37.0	36.2	35.0	34.4	34.6	34.4	34.4	34.0	32.2	36.27
33.6	31.8	31.8	31.4	31.6	31.8	—	—	—	—	—	—	28.92
—	—	—	—	—	—	21.4	19.4	17.8	17.0	17.0	16.6	—
17.0	16.3	15.4	15.3	15.7	16.4	17.6	19.2	20.0	19.8	20.2	20.2	17.74
24.8	24.0	23.2	23.8	24.8	24.6	22.8	22.2	21.2	22.0	24.4	21.8	23.13
26.4	28.4	27.2	28.2	28.8	28.8	29.7	30.6	31.4	31.8	32.0	32.4	28.14
33.9	32.2	28.2	25.8	24.6	23.8	24.4	24.0	24.6	24.2	22.9	25.2	30.41
28.0	27.6	27.4	27.2	27.2	24.3	21.8	22.6	24.2	24.2	23.8	23.8	27.08
25.8	25.6	25.0	23.2	21.8	19.2	—	—	—	—	—	—	24.05
—	—	—	—	—	—	16.8	16.6	18.3	22.0	22.6	22.8	—
16.7	12.0	12.3	13.6	12.5	16.0	17.2	17.2	16.0	14.3	16.8	15.8	16.75
16.0	19.7	18.0	17.4	17.8	17.7	18.8	19.6	21.8	21.2	21.0	21.8	17.30
30.0	30.0	30.8	30.8	30.6	30.8	30.8	30.3	29.8	29.8	29.6	30.2	28.94
23.0	22.4	21.8	21.4	20.6	20.8	21.2	21.2	21.0	20.5	19.8	19.6	23.95
17.8	17.5	18.0	17.9	17.9	18.2	18.2	18.8	19.2	18.2	17.6	18.2	19.29
12.7	10.7	9.2	8.4	6.8	2.9	—	—	—	—	—	—	16.40
—	—	—	—	—	—	20.8	20.1	20.0	20.3	20.6	20.4	—
27.8	27.8	27.8	27.8	28.4	28.6	28.8	28.8	28.2	28.0	28.2	27.6	26.35
31.4	30.0	29.7	30.2	29.8	29.6	30.6	30.4	30.6	30.3	29.6	29.0	30.23
26.0	23.8	21.2	19.4	18.6	18.0	18.3	18.2	18.5	17.4	13.6	14.2	25.02
33.2	33.3	33.7	33.8	33.5	33.7	33.9	34.3	34.2	33.8	34.0	34.0	31.31
33.9	34.0	34.2	33.8	33.6	34.0	33.8	33.2	32.4	31.6	29.3	27.4	34.17
23.0	22.6	21.6	21.5	20.6	19.6	—	—	—	—	—	—	—
—	—	—	—	—	—	19.6	20.4	21.6	20.2	20.2	18.6	22.54
33.2	33.0	33.0	33.4	33.6	33.4	33.4	33.7	33.8	33.6	34.3	34.4	31.48
37.4	35.0	33.8	33.0	32.6	32.6	32.3	30.2	28.4	27.9	27.5	27.0	34.20
21.8	21.6	21.2	20.2	19.2	18.8	18.6	17.8	17.2	17.4	16.8	15.2	22.82
15.8	17.0	16.2	15.3	14.4	14.8	14.8	13.0	11.8	10.6	11.4	13.4	15.35
7.2	5.4	4.4	2.6	1.6	0.3	-0.6	-2.0	-2.0	-3.0	-3.0	-3.0	6.00
25.78	25.28	24.56	24.23	23.80	23.49	23.62	23.44	23.42	23.23	23.11	22.84	25.14
6.6	5.4	3.8	3.2	3.0	6.0	—	—	—	—	—	—	7.13
—	—	—	—	—	—	15.3	15.2	14.4	14.0	14.0	16.3	—
18.6	18.8	21.0	21.0	20.8	21.4	21.8	22.2	22.6	22.5	22.4	22.4	20.14
12.6	12.6	11.6	10.8	11.0	11.0	10.2	10.7	11.3	12.0	12.6	12.2	16.33
14.4	14.2	13.8	13.2	11.8	10.6	10.4	10.2	9.4	8.8	7.0	5.2	11.93
10.6	12.0	13.8	15.4	17.0	17.2	16.6	15.8	15.0	14.6	13.6	12.6	10.86
20.0	18.6	17.7	17.0	15.6	16.0	14.8	14.0	14.0	9.3	7.7	9.2	16.35
10.8	7.6	4.6	8.4	8.8	11.6	—	—	—	—	—	—	—
—	—	—	—	—	—	21.8	22.2	22.5	22.8	23.2	23.0	14.87
29.8	30.4	30.6	29.4	30.2	29.2	27.4	27.6	27.6	27.0	26.3	25.4	28.34
31.0	31.4	29.7	29.7	29.5	29.1	29.6	29.5	30.0	30.4	31.2	31.9	29.90
11.4	10.6	10.2	10.4	9.3	6.5	4.6	3.2	1.4	0.0	-2.0	-3.0	14.40
8.0	7.5	7.7	9.4	10.6	15.0	15.0	9.2	9.4	10.2	9.8	10.2	6.76
27.8	28.4	28.8	29.6	30.4	31.2	31.4	31.4	31.8	32.6	32.6	33.0	25.52
36.7	36.8	35.8	34.3	33.9	35.3	—	—	—	—	—	—	—
—	—	—	—	—	—	31.6	31.0	31.4	31.5	31.6	31.6	34.60
33.2	32.5	30.8	31.6	31.8	31.6	31.6	31.3	31.2	31.0	30.6	30.2	32.49
31.6	29.6	30.0	29.6	27.2	27.2	27.0	29.8	30.8	30.8	31.2	31.2	30.97
31.6	31.8	32.1	33.0	34.2	33.4	33.2	33.3	33.0	32.8	31.4	31.2	32.93
37.6	37.6	37.6	37.0	36.5	36.2	35.8	36.8	35.2	34.2	33.2	31.8	36.27
39.0	39.4	37.8	37.0	34.0	35.0	36.4	35.2	35.2	35.0	34.0	34.0	36.77
35.0	35.0	35.0	34.4	34.6	34.4	—	—	—	—	—	—	—
—	—	—	—	—	—	37.8	37.3	35.6	33.4	32.5	32.7	36.04
35.8	35.8	34.7	34.1	33.9	35.8	36.0	35.1	33.9	34.3	34.1	33.4	35.72
41.1	41.7	39.8	40.4	40.5	41.4	38.9	37.0	36.0	34.2	32.2	32.0	39.08
32.2	31.5	31.0	29.3	30.0	29.1	28.4	29.8	28.6	27.9	26.1	25.8	30.92
30.4	29.8	28.6	27.9	28.0	27.3	26.4	25.8	26.1	25.5	25.4	25.4	29.52
30.8	30.2	29.8	30.0	30.2	30.6	31.4	32.2	32.5	25.0	28.9	30.8	29.02
25.69	25.38	24.85	24.84	24.70	25.09	25.56	25.24	24.95	24.16	23.73	23.69	25.25



WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MARCH.	1	31.5	32.0	32.0	34.2	34.1	34.9	35.3	36.4	36.9	38.3	37.0	35.8
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	31.7	31.5	30.2	29.6	27.6	27.3	29.8	31.3	30.5	31.0	29.1	30.5
	4	24.4	28.1	31.4	32.2	33.9	35.4	35.3	36.8	37.7	35.8	34.1	32.9
	5	33.5	32.7	33.1	34.0	34.0	34.9	35.3	37.0	37.6	39.1	39.2	38.8
	6	25.7	26.5	29.5	32.4	32.4	33.3	34.1	34.3	35.6	34.9	35.5	33.3
	7	31.4	32.2	34.4	35.6	37.6	37.9	38.1	38.1	37.3	37.1	37.1	36.7
	8	38.3	38.3	45.2	45.4	44.8	43.8	44.1	42.0	41.7	42.1	41.0	39.5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	24.8	24.9	25.5	27.1	29.3	30.2	31.4	33.3	32.9	32.4	33.3	34.1
	11	26.6	26.9	29.3	28.1	32.4	34.3	31.5	31.2	32.2	32.2	32.4	32.0
	12	32.2	32.0	32.5	36.5	35.6	36.2	36.5	36.7	39.7	38.1	37.3	37.2
	13	27.9	29.6	30.2	34.1	35.3	36.3	35.4	37.4	36.5	36.4	35.6	35.3
	14	34.3	35.3	36.4	37.0	37.4	38.7	40.1	40.2	38.9	34.1	33.3	32.3
	15	16.3	16.4	17.3	17.5	20.5	19.3	18.9	21.0	21.9	22.4	22.0	20.5
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	24.0	24.7	25.6	27.9	26.8	27.7	28.8	30.3	30.6	29.8	30.5	29.7
	18	24.0	24.7	23.7	24.6	23.5	24.2	24.7	24.0	24.2	23.6	23.6	23.7
	19	18.1	18.3	19.0	21.0	20.3	20.3	21.7	21.4	23.1	21.8	21.6	21.2
	20	22.9	23.6	24.4	24.8	27.6	29.8	27.8	32.7	28.5	28.5	28.5	29.1
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	26.6	26.6	28.4	30.0	33.1	34.4	34.9	35.3	36.9	36.2	37.4	35.8
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	32.5	33.1	33.3	33.4	34.5	34.6	34.2	34.5	31.6	33.4	33.1	33.1
	25	28.1	28.1	31.6	32.2	37.8	36.6	38.1	36.2	36.4	35.4	36.4	35.7
	26	32.3	32.5	36.3	37.4	38.1	39.5	41.3	39.5	41.3	41.6	41.6	41.8
	27	35.6	36.2	42.6	44.7	46.2	45.7	45.2	47.6	46.0	44.5	41.8	41.0
	28	37.0	38.8	39.5	40.9	42.4	45.8	45.8	44.0	45.4	44.5	44.8	43.9
	29	32.7	35.3	40.9	42.9	45.2	46.1	49.2	50.4	51.1	49.9	50.4	49.6
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	43.0	45.7	48.0	50.4	51.3	52.3	52.6	52.4	52.5	52.3	53.6	50.7
Hourly Means	29.42	30.16	32.01	33.36	34.47	35.18	35.60	36.16	36.40	35.81	35.61	34.97	
APRIL.	1	46.4	42.2	37.9	37.0	34.9	34.5	35.1	35.8	35.4	35.4	35.1	34.4
	2	35.1	36.9	40.0	42.9	42.2	42.9	41.9	38.9	37.0	37.0	36.0	34.7
	3	24.8	24.0	26.6	26.9	28.1	29.6	31.5	32.3	34.1	33.7	32.9	32.6
	4	34.3	34.9	34.3	35.2	35.1	36.1	35.1	35.6	33.5	34.1	32.7	32.0
	5	21.4	22.2	22.6	27.1	27.5	30.0	28.9	32.0	27.9	29.3	27.8	28.5
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	23.1	22.9	23.6	22.6	23.7	26.8	30.3	33.2	32.2	30.5	31.8	30.2
	8	18.2	19.8	22.1	23.3	25.4	25.7	24.2	26.4	28.1	29.6	30.4	32.3
	9	20.0	22.9	27.0	30.6	31.5	32.2	32.9	33.6	35.5	35.5	34.9	34.3
	10	31.8	34.6	38.8	40.8	41.0	41.1	39.9	40.0	37.4	37.2	36.4	36.0
	11	30.2	30.0	31.4	32.4	33.4	34.7	34.7	35.1	35.4	34.4	34.6	33.5
	12	28.9	32.5	34.1	35.2	37.3	39.5	37.6	38.4	39.4	39.4	39.4	38.8
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	32.7	35.1	38.1	39.7	42.4	42.2	44.6	44.8	44.7	45.8	45.8	44.1
	15	29.4	32.9	39.3	43.8	46.9	46.4	45.7	47.2	46.2	48.2	47.4	47.8
	16	37.9	37.9	38.0	39.5	39.2	39.3	38.3	39.7	39.7	39.9	40.5	40.2
	17	38.5	38.9	39.1	39.1	39.7	39.7	40.9	41.2	41.8	42.6	42.4	42.2
	18	40.9	41.3	39.5	41.1	41.4	41.4	41.9	43.1	43.2	43.0	43.8	43.4
	19	45.2	43.4	42.4	42.2	43.9	43.8	43.4	43.1	43.4	43.8	44.3	44.0
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	41.3	42.0	42.8	43.6	44.5	43.0	43.8	43.9	44.3	45.5	44.6	43.7
	22	38.2	42.1	42.9	45.8	45.7	46.2	45.8	46.8	46.0	46.2	47.6	47.2
	23	46.2	48.0	49.0	50.6	53.2	55.2	55.1	55.6	54.5	52.8	52.5	51.3
	24	49.8	51.4	54.2	57.6	59.1	61.7	62.3	62.2	62.1	61.9	59.8	56.0
	25	41.4	41.2	40.9	40.5	42.1	41.4	42.4	41.1	42.6	43.7	42.0	42.4
	26	39.7	42.0	44.5	44.1	44.7	47.2	50.9	49.5	49.7	49.7	50.9	52.5
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	40.9	44.1	48.6	50.4	51.6	53.7	55.4	55.6	54.5	54.4	53.4	51.3
	29	42.4	44.7	46.7	47.4	48.0	50.0	52.3	50.9	51.0	48.7	50.8	50.8
	30	41.6	43.2	44.7	47.7	48.2	49.7	50.7	51.9	55.1	54.2	54.3	51.9
Hourly Means	35.40	36.58	38.04	39.50	40.41	41.31	41.75	42.23	42.10	42.17	42.00	41.39	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
33.4	32.5	33.4	33.5	32.9	33.4	—	—	—	—	—	—	33.96
30.2	28.6	28.0	28.5	27.1	27.1	34.4	32.9	32.6	32.6	32.7	32.4	28.71
31.7	32.3	34.4	34.9	35.1	35.8	27.7	28.1	27.1	26.1	26.1	24.4	33.66
36.7	35.5	33.7	31.6	30.6	29.8	35.6	34.5	34.7	33.6	33.7	33.6	33.04
31.2	31.2	31.4	32.0	31.8	31.5	29.6	29.6	29.4	27.6	27.1	26.4	31.90
36.6	36.8	37.6	38.2	38.4	37.6	31.7	32.4	32.2	32.0	31.0	29.8	36.87
37.9	36.4	36.8	36.0	34.9	34.1	37.9	37.6	37.2	37.3	37.6	38.5	36.73
—	—	—	—	—	—	—	—	—	—	—	—	30.13
30.6	31.7	32.0	31.8	31.7	31.2	28.1	27.3	26.1	26.1	26.5	25.2	30.56
30.8	31.8	30.5	30.6	30.0	28.7	30.2	29.4	29.3	29.3	28.7	28.1	33.74
36.7	36.3	36.2	34.4	33.4	30.8	29.4	29.8	30.2	30.5	30.6	31.5	33.39
32.9	32.2	32.9	33.4	32.4	33.1	29.3	28.1	28.1	28.6	29.4	27.9	28.99
28.1	28.9	25.4	23.9	20.7	20.3	32.7	32.0	32.0	32.7	32.2	32.6	19.70
20.3	18.6	17.4	16.7	12.1	7.9	32.0	32.0	32.3	32.7	32.2	32.6	27.14
—	—	—	—	—	—	19.6	19.6	18.9	18.4	17.2	16.8	21.92
29.3	28.7	27.7	26.6	26.1	26.6	—	—	—	—	—	—	20.37
20.9	20.1	19.9	19.2	18.8	19.0	25.4	24.4	24.0	23.6	24.7	23.8	27.61
21.2	20.2	19.1	19.0	19.0	19.6	25.9	25.8	25.0	24.6	24.4	24.2	33.13
30.1	27.7	29.1	29.6	26.1	24.2	19.6	18.8	21.4	21.0	20.8	22.7	32.09
—	—	—	—	—	—	—	—	—	—	—	—	33.21
33.7	32.4	32.0	32.7	29.4	28.9	—	—	28.9	28.9	27.6	27.1	39.76
—	—	—	—	—	—	35.6	33.3	35.1	35.3	35.4	35.8	40.39
32.4	32.3	32.6	32.4	32.0	31.5	30.8	29.5	29.1	28.1	27.1	28.1	40.11
36.3	33.9	33.9	32.0	31.2	30.5	31.0	31.0	32.2	32.2	29.6	30.6	44.35
40.9	40.0	40.0	40.3	42.4	43.3	41.6	41.6	41.8	41.2	39.7	38.3	49.57
39.9	39.7	38.7	37.0	37.8	38.1	38.1	36.9	37.1	36.7	36.7	35.5	32.86
41.1	39.3	38.9	38.1	37.0	38.1	38.3	38.0	37.6	36.3	34.1	33.2	33.75
48.7	48.0	43.7	45.2	43.4	43.8	—	—	—	—	—	—	34.10
—	—	—	—	—	—	42.2	41.6	40.7	40.3	40.5	42.7	31.13
49.7	49.2	51.0	49.4	49.4	47.5	46.4	48.2	48.2	48.8	48.2	49.0	30.61
33.65	32.97	32.63	32.28	31.35	30.90	31.65	31.27	31.12	30.86	30.42	30.29	24.28
34.6	32.9	32.3	27.8	27.9	27.8	27.5	26.7	26.6	27.3	31.8	33.1	23.88
33.4	33.1	32.5	29.1	27.6	33.1	33.1	31.7	26.1	24.6	23.9	24.8	23.47
32.6	32.5	32.5	32.0	32.5	32.6	32.7	32.4	32.4	32.4	31.9	33.5	31.73
31.5	31.3	30.2	29.1	28.2	28.3	27.5	26.7	24.0	22.8	21.4	20.7	35.25
27.9	25.9	22.7	22.2	20.0	20.0	—	—	—	—	—	—	30.04
—	—	—	—	—	—	17.5	17.5	17.0	20.7	22.9	23.3	36.07
23.3	21.6	20.5	20.3	19.9	19.4	19.6	19.6	19.8	20.0	20.3	17.9	38.10
29.1	27.3	23.8	21.4	20.3	21.0	20.1	19.6	19.1	19.2	18.2	18.8	41.47
33.1	32.7	33.4	34.9	32.3	32.0	32.2	31.0	32.2	32.4	32.5	32.0	38.99
35.4	34.4	33.5	34.1	33.3	33.3	32.0	32.2	31.5	31.6	30.5	29.1	41.02
30.3	28.1	28.3	27.3	28.1	26.3	26.5	23.6	24.8	25.2	26.3	26.4	42.92
37.9	37.9	36.3	36.9	36.4	36.6	—	—	—	—	—	—	42.73
—	—	—	—	—	—	34.9	35.6	33.7	33.5	33.1	32.4	40.43
43.0	40.5	39.3	37.0	36.6	33.1	31.2	30.5	30.5	31.8	31.8	29.1	44.72
46.0	43.2	39.5	37.9	37.6	39.5	39.9	40.0	38.7	37.6	36.9	37.3	51.13
39.3	39.5	39.2	38.5	38.5	39.0	38.9	38.9	39.0	38.1	38.2	38.5	53.60
42.0	41.8	42.2	42.4	42.1	41.6	41.0	40.9	41.4	41.1	40.7	41.1	41.42
43.1	44.0	44.1	43.6	43.0	43.0	43.0	44.1	44.8	43.9	44.7	44.7	45.45
44.6	44.0	44.1	42.2	41.6	41.3	—	—	—	—	—	—	47.98
—	—	—	—	—	—	41.3	41.0	40.5	40.5	40.7	40.9	46.22
42.4	41.8	41.0	37.8	36.6	38.2	36.9	34.9	34.4	34.7	33.8	34.9	50.67
45.2	43.8	44.3	43.6	43.8	44.3	44.2	44.7	45.2	44.7	44.3	44.8	38.49
52.9	48.6	52.6	49.5	48.2	47.6	49.2	52.7	52.2	50.9	49.4	49.2	42.73
54.8	54.2	54.1	52.8	52.8	52.5	49.4	46.4	43.9	43.9	42.2	41.3	47.98
43.4	41.0	41.4	40.9	40.7	40.7	41.1	41.0	40.5	40.5	40.5	40.7	46.22
51.7	48.6	47.8	48.2	49.5	51.1	—	—	—	—	—	—	50.67
—	—	—	—	—	—	40.9	39.5	38.5	36.7	36.3	36.5	38.49
52.1	49.2	47.5	45.2	44.7	44.1	42.8	41.2	40.0	39.5	40.0	41.3	—
46.2	46.4	44.7	45.4	44.3	43.6	42.8	42.8	42.9	42.7	42.1	41.6	—
52.6	51.9	53.9	54.2	54.2	49.8	51.4	53.1	50.9	51.7	50.2	49.0	—
40.32	39.08	38.53	37.84	36.95	36.92	36.06	35.70	35.02	34.93	34.79	34.73	—

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
MAY.	1	50.6	55.6	55.8	52.8	55.0	55.6	56.3	54.5	53.2	53.0	52.8	51.5
	2	37.8	39.0	38.1	38.7	39.2	42.0	42.9	44.3	44.5	45.4	46.2	45.0
	3	45.0	46.2	47.2	49.9	51.2	52.3	54.8	52.6	50.8	49.6	49.0	49.2
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	32.9	33.7	34.0	35.4	37.2	37.9	39.9	42.4	43.2	43.8	44.7	43.8
	6	37.9	41.6	43.2	45.5	45.0	—	—	—	—	47.7	48.2	46.9
	7	41.4	38.6	37.1	37.9	38.2	39.5	39.4	39.4	41.2	40.3	40.7	38.1
	8	27.4	32.2	32.6	37.3	38.4	38.7	40.7	42.3	43.3	43.5	41.8	41.4
	9	42.3	44.5	46.7	46.4	45.6	47.6	46.7	47.3	48.9	48.9	48.9	49.1
	10	42.9	44.0	44.8	48.1	47.5	51.8	52.2	51.0	51.8	50.1	50.1	51.3
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	55.7	58.9	60.3	62.8	63.4	65.2	66.0	64.4	64.1	64.1	62.2	65.3
	13	54.6	58.0	60.1	62.3	65.5	65.5	66.5	65.7	65.5	61.1	61.4	59.1
	14	56.4	58.5	58.0	58.0	61.0	62.1	61.5	63.0	63.0	63.3	63.0	62.9
	15	42.3	39.4	37.6	36.7	37.5	37.9	39.2	40.6	42.6	41.8	42.6	41.0
	16	31.5	33.4	33.7	35.6	40.6	41.4	42.8	42.3	42.3	43.8	44.2	44.8
	17	37.8	42.4	44.0	50.3	50.9	50.8	52.2	52.6	52.8	52.6	51.7	50.1
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	50.8	55.3	58.0	59.5	60.6	60.2	58.5	58.5	54.8	58.2	56.7	55.8
	20	40.1	41.8	43.0	43.6	45.4	47.0	51.0	50.6	50.9	51.6	51.7	51.0
	21	39.5	42.1	44.7	45.8	51.0	51.9	51.8	53.3	54.2	54.9	56.4	55.5
	22	39.6	39.9	41.1	43.6	44.7	46.9	45.3	46.4	46.2	46.2	46.6	46.8
	23	39.4	44.2	46.5	51.9	53.8	52.7	53.2	53.1	53.1	51.8	54.3	53.4
	24	35.2	36.0	36.7	38.5	41.2	42.0	42.4	42.3	42.5	41.1	41.2	40.8
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	45.8	47.7	51.4	53.5	56.5	58.7	60.1	60.9	62.3	64.5	64.8	63.1
	27	49.6	52.2	54.4	56.6	59.3	60.9	62.9	62.9	60.1	57.8	57.4	56.0
	28	53.7	55.0	57.0	58.4	61.3	58.8	58.4	59.3	60.5	65.1	65.3	64.0
	29	32.9	32.3	32.2	33.1	33.8	35.1	37.8	35.9	37.2	36.6	37.2	39.3
	30	33.3	34.3	36.7	38.3	43.2	44.3	43.6	44.0	45.4	46.3	48.8	47.5
	31	40.6	45.0	48.3	49.8	52.7	53.3	54.3	55.5	56.0	55.5	56.3	53.8
	32	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	42.11	44.14	45.30	47.05	48.88	49.93	50.78	50.97	51.17	51.06	51.26	50.61	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	50.1	51.5	53.7	58.2	61.9	59.7	59.0	63.3	63.5	65.7	64.9	66.3
	3	58.5	59.8	59.2	59.9	61.7	66.7	68.3	67.5	66.0	65.9	66.4	64.3
	4	57.8	62.3	64.3	60.7	64.1	67.0	71.4	68.2	63.3	63.4	66.0	66.0
	5	49.7	49.3	49.6	50.2	52.9	52.8	54.0	54.5	55.5	55.5	59.3	58.5
	6	47.7	48.5	48.7	50.4	54.8	53.4	52.6	51.9	53.5	52.8	53.6	52.9
	7	49.7	53.6	51.2	50.4	53.3	55.2	56.5	56.8	57.2	56.4	58.8	59.2
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	61.7	62.1	63.0	66.1	62.3	65.3	64.1	63.8	69.4	65.3	65.7	69.9
	10	58.4	61.3	62.8	63.0	65.5	67.8	68.8	69.1	67.5	65.1	63.9	63.2
	11	58.6	58.9	60.4	60.9	62.3	64.0	66.1	66.8	67.3	67.2	66.2	64.4
	12	58.5	58.5	58.5	59.3	63.5	67.1	69.3	66.7	66.8	66.7	67.8	68.7
	13	57.4	57.6	58.2	59.8	64.6	64.6	64.5	63.8	65.7	65.5	65.5	60.2
	14	49.6	49.0	50.6	51.6	56.7	59.4	54.0	53.6	53.2	53.0	52.3	52.8
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	50.0	50.8	53.2	55.1	54.6	56.3	56.1	55.0	55.0	54.4	54.0	53.6
	17	44.8	46.1	46.3	47.7	47.8	48.9	49.4	50.7	51.3	50.7	51.3	51.3
	18	48.9	51.5	55.2	56.8	56.8	58.9	58.9	58.7	58.3	59.3	59.9	57.9
	19	50.2	52.9	57.8	58.7	61.2	62.3	61.8	61.7	61.4	62.4	62.8	64.0
	20	52.0	54.5	58.7	60.3	63.8	65.9	66.1	65.0	65.3	64.3	64.5	63.2
	21	60.3	59.9	60.3	60.4	61.4	59.2	60.3	58.5	61.4	64.0	63.6	60.0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	55.5	57.2	61.3	64.0	66.9	67.0	66.9	67.2	65.9	64.5	65.8	65.3
	24	62.6	65.0	67.0	68.2	68.9	69.7	69.4	70.6	67.5	69.1	69.6	70.7
	25	51.5	52.5	52.4	55.2	56.1	58.6	59.2	58.2	57.9	58.3	61.1	53.2
	26	48.6	51.0	54.0	61.2	61.9	57.9	58.9	62.2	62.5	63.3	64.2	65.5
	27	53.6	57.3	61.5	63.8	63.1	62.7	62.3	63.1	65.0	66.2	67.5	67.7
	28	53.8	54.9	55.9	57.5	59.0	58.5	59.7	57.1	58.7	57.8	58.5	59.7
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	53.6	54.6	55.4	55.0	55.9	54.7	54.5	54.0	53.6	54.7	54.0	54.6
Hourly Means	53.72	55.22	56.77	58.18	60.04	60.98	61.28	61.12	61.31	61.26	61.89	61.32	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
52.1	49.2	49.2	45.6	45.4	44.3	45.0	45.0	44.1	40.5	38.7	37.2	49.29
46.8	44.5	45.2	43.2	42.4	42.9	41.4	41.1	40.5	39.5	39.1	41.6	42.14
50.0	49.7	49.7	49.2	48.6	48.6	—	—	—	—	—	—	45.45
—	—	—	—	—	—	35.8	34.6	33.9	31.5	30.5	30.8	37.08
42.9	41.4	38.5	37.3	35.7	33.6	34.1	32.6	32.0	30.8	30.6	31.5	37.08
44.6	41.3	39.2	37.1	37.9	37.4	39.5	37.9	39.2	41.4	41.6	41.9	41.75
37.1	33.5	32.2	31.6	30.8	30.4	29.8	29.6	30.7	28.6	25.4	25.1	34.86
41.1	40.2	41.8	42.2	42.8	39.3	39.3	38.9	36.6	36.8	35.5	36.7	38.78
46.8	46.3	41.6	40.8	40.3	39.3	38.8	38.7	38.5	39.5	40.5	40.4	43.93
52.2	52.1	49.2	48.1	46.5	45.3	—	—	—	—	—	—	49.68
—	—	—	—	—	—	55.0	53.6	52.4	51.0	50.6	50.6	49.68
63.1	59.8	58.4	56.4	56.4	55.6	55.7	54.6	53.6	52.4	53.6	52.9	59.37
57.0	57.5	58.5	56.8	54.6	54.2	55.0	54.3	52.9	51.7	53.3	53.5	58.53
63.3	58.2	58.6	57.0	54.9	58.0	55.5	51.8	48.3	45.8	44.3	43.1	57.06
39.9	38.1	36.9	35.4	36.6	34.2	33.3	31.7	31.4	30.5	29.7	28.6	36.90
44.7	43.1	40.6	38.3	37.6	36.1	35.4	34.3	33.9	32.8	32.6	34.3	38.34
50.1	49.4	46.8	46.8	45.8	44.7	—	—	—	—	—	—	48.76
—	—	—	—	—	—	50.6	50.2	50.9	49.9	49.0	47.9	48.76
56.8	55.8	55.7	53.2	47.9	45.1	44.6	43.8	43.6	42.6	41.6	40.0	52.40
48.8	44.7	42.4	41.2	41.8	39.7	39.2	39.0	37.8	38.0	36.5	36.5	43.89
55.3	51.2	47.8	43.6	41.6	40.0	39.1	38.5	38.9	38.2	37.8	39.0	46.34
46.8	46.3	42.9	39.9	38.4	37.6	36.9	37.7	35.0	34.1	34.0	33.3	41.51
51.2	47.7	46.8	44.4	43.6	41.8	39.9	37.2	37.2	35.9	34.8	33.3	45.88
39.9	39.3	36.7	35.9	35.1	34.5	—	—	—	—	—	—	40.54
—	—	—	—	—	—	44.2	45.0	45.4	45.9	45.4	45.8	40.54
58.6	58.2	53.3	50.6	48.5	48.3	47.5	46.9	46.3	48.5	47.5	46.8	53.76
57.7	56.5	52.9	51.9	50.5	49.2	48.3	—	—	—	51.2	52.2	55.26
57.7	50.3	45.0	43.7	43.2	41.2	40.2	38.7	36.7	35.5	35.1	33.9	50.67
37.0	34.6	33.1	32.2	31.9	31.4	31.2	30.4	29.8	29.5	29.1	29.6	33.47
45.8	43.9	42.0	42.0	40.2	37.8	35.6	35.9	37.6	35.7	34.1	34.1	40.43
53.1	50.6	49.2	48.3	46.5	44.3	—	—	—	—	—	—	49.25
—	—	—	—	—	—	45.3	44.8	44.8	44.4	44.2	45.4	49.25
49.64	47.53	45.71	44.17	43.17	42.02	42.08	41.03	40.46	39.65	39.49	39.48	45.73
—	—	—	—	—	—	—	—	—	—	—	—	59.45
65.7	62.4	60.9	59.2	58.4	58.7	59.2	57.6	58.0	57.0	56.2	55.6	59.45
63.5	63.3	59.9	58.3	59.5	57.0	56.7	56.5	54.6	53.6	53.6	52.0	60.53
64.4	63.3	60.1	58.5	58.5	58.7	58.7	59.3	59.1	58.4	55.8	51.9	61.72
55.6	54.5	52.4	49.4	49.4	49.0	50.9	48.6	49.8	47.8	46.6	45.8	51.73
53.7	52.7	51.2	51.1	49.1	47.5	46.1	45.3	44.8	45.8	46.1	46.5	50.03
57.0	55.3	54.4	53.8	53.6	53.1	—	—	—	—	—	—	56.50
—	—	—	—	—	—	66.0	62.2	61.2	60.9	60.3	59.9	56.50
68.3	65.1	62.7	60.7	59.8	59.6	57.0	55.5	54.5	54.7	52.6	53.4	61.78
63.3	64.3	63.6	63.5	62.6	62.8	62.3	57.6	56.4	56.8	56.6	57.6	62.66
63.9	63.0	60.3	57.8	57.8	57.6	57.8	58.4	58.2	58.5	59.7	58.5	61.44
65.7	65.5	63.3	61.9	61.5	61.7	62.6	60.8	59.2	58.2	57.2	56.2	62.72
59.9	59.5	56.5	56.1	55.9	56.4	53.5	53.9	53.6	51.5	48.9	49.3	58.43
51.6	49.5	48.9	45.5	43.9	44.0	—	—	—	—	—	—	50.83
—	—	—	—	—	—	53.6	51.5	50.4	48.8	47.8	48.7	50.83
53.8	53.2	53.0	51.7	48.5	48.8	46.3	44.3	43.0	41.7	39.8	39.7	50.54
51.7	52.5	52.0	51.7	50.3	49.2	47.3	45.6	43.3	41.9	40.8	41.4	48.06
56.0	55.0	53.5	52.6	52.0	51.0	50.4	49.4	46.8	46.8	45.5	44.8	53.54
64.3	62.4	56.4	53.0	51.3	49.6	49.0	48.9	47.8	46.0	44.8	47.9	55.78
61.3	61.2	61.2	60.2	61.8	62.0	60.4	60.2	60.2	59.9	59.9	59.7	61.32
57.1	56.9	56.5	54.9	52.4	52.4	—	—	—	—	—	—	56.73
—	—	—	—	—	—	52.3	51.7	51.1	49.0	48.6	49.3	56.73
65.0	67.1	65.3	64.0	61.9	61.3	39.9	58.5	57.9	56.9	58.3	58.3	62.58
66.0	63.6	62.6	61.5	60.4	60.4	59.4	57.7	56.4	56.4	53.0	51.0	63.61
52.2	52.7	49.0	50.6	49.4	46.8	46.1	43.3	44.7	45.0	43.9	42.5	51.68
59.3	56.3	52.3	52.0	49.6	48.6	47.0	46.0	45.0	45.4	49.5	49.2	54.64
66.5	63.8	58.4	57.1	55.9	53.2	54.0	53.7	54.3	54.5	53.1	53.4	59.65
59.7	58.7	57.6	55.3	54.8	55.1	—	—	—	—	—	—	56.13
—	—	—	—	—	—	53.8	53.3	53.0	51.8	51.2	51.6	56.13
52.8	51.5	50.6	51.2	51.7	50.7	47.7	47.7	47.8	48.5	48.6	48.3	52.15
59.93	58.91	56.90	55.66	54.80	54.21	54.32	53.10	52.44	51.83	51.14	50.90	56.97

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
JULY.	1	50.7	53.3	54.7	55.9	56.3	56.1	55.4	55.2	54.2	54.4	54.6	56.6
	2	54.6	54.7	56.3	57.3	58.5	62.2	61.6	62.0	62.4	60.0	60.0	60.4
	3	47.5	50.1	51.2	52.2	52.7	56.7	58.4	58.5	56.4	55.2	55.9	54.3
	4	50.8	50.9	53.3	53.2	54.9	55.1	59.5	61.6	60.2	61.3	60.3	61.8
	5	51.1	53.5	58.3	62.6	63.3	63.9	62.1	63.9	64.0	67.2	63.6	62.9
	6	—	—	—	—	—	—	—	—	—	—	—	—
	7	62.6	67.5	69.1	70.0	71.4	72.3	72.1	70.7	68.3	71.0	68.6	68.7
	8	58.6	62.9	66.7	70.5	68.6	69.4	71.1	72.0	68.6	70.8	72.6	67.1
	9	56.5	57.3	55.5	56.9	57.4	57.6	59.4	62.1	62.0	60.4	62.6	64.3
	10	51.2	55.9	59.2	62.0	62.1	62.4	62.6	60.2	63.1	64.5	65.9	64.8
	11	56.9	62.1	63.6	68.9	68.9	71.8	74.3	74.1	75.3	77.3	75.3	74.1
	12	61.6	68.0	70.0	73.0	75.3	77.8	80.3	74.1	77.1	73.5	74.5	73.8
	13	—	—	—	—	—	—	—	—	—	—	—	—
	14	69.3	69.8	70.7	74.3	74.1	73.8	74.7	74.7	75.0	75.6	76.1	75.3
	15	64.7	66.1	65.7	64.5	66.0	64.7	68.2	70.1	72.3	73.3	73.4	73.4
	16	61.3	69.7	69.7	71.8	74.9	77.3	78.3	77.9	78.0	74.3	75.6	76.5
	17	69.9	70.6	71.8	70.6	69.2	70.3	69.4	70.9	70.2	67.5	67.5	66.7
	18	56.2	58.1	58.5	59.0	59.4	58.9	62.8	68.5	65.9	68.3	68.9	69.6
	19	57.9	58.7	61.4	61.1	62.1	65.1	65.9	65.5	66.3	67.7	64.8	66.2
	20	—	—	—	—	—	—	—	—	—	—	—	—
	21	69.0	72.5	72.7	73.7	74.9	76.0	76.3	76.8	75.3	74.8	76.8	75.6
	22	58.4	60.1	62.9	64.0	64.0	64.9	64.4	62.8	63.6	64.5	61.3	62.4
	23	54.9	54.3	54.1	53.4	55.1	54.7	54.5	57.7	61.2	61.4	60.2	56.7
	24	54.0	54.0	54.2	53.5	54.9	54.9	55.8	57.2	58.6	59.0	59.7	59.5
	25	53.7	58.7	61.6	58.9	63.5	62.8	63.9	63.6	64.5	63.6	63.6	62.1
	26	54.4	58.1	62.2	63.1	65.2	65.0	66.4	65.5	68.5	65.7	66.5	65.8
	27	—	—	—	—	—	—	—	—	—	—	—	—
	28	57.1	57.1	57.4	58.4	58.4	59.3	57.7	57.2	57.2	57.4	58.4	57.1
	29	54.5	56.1	57.5	59.5	60.3	61.8	63.4	63.8	66.5	67.5	66.5	64.4
	30	54.2	54.5	53.7	54.2	53.8	53.5	54.4	56.1	54.9	55.3	55.1	52.8
	31	49.0	52.2	54.7	57.1	57.2	56.7	57.3	57.2	56.4	57.9	57.9	58.1
Hourly Means	57.03	59.51	60.97	62.20	63.03	63.87	64.80	65.13	65.40	65.53	65.40	64.83	
AUGUST.	1	54.4	56.1	58.9	61.1	60.2	63.3	61.2	62.6	64.5	62.1	62.4	61.6
	2	44.0	54.9	58.7	59.6	61.1	59.5	60.3	58.5	61.1	61.6	63.0	60.0
	3	—	—	—	—	—	—	—	—	—	—	—	—
	4	54.3	61.1	63.1	63.4	66.5	66.8	67.3	67.1	67.5	67.9	67.7	66.9
	5	56.9	61.6	64.0	64.8	66.3	67.8	69.6	70.2	71.7	70.0	69.8	69.6
	6	59.2	64.2	65.3	70.1	69.9	69.7	63.4	68.9	67.5	68.5	67.3	67.3
	7	57.1	64.9	67.1	69.6	70.1	71.3	72.1	72.1	74.2	72.7	72.8	71.1
	8	65.0	65.5	66.5	66.3	67.1	68.5	70.3	70.0	70.5	69.4	70.4	70.0
	9	64.3	68.0	71.3	73.5	73.1	73.8	74.1	75.1	74.9	74.8	75.9	75.9
	10	—	—	—	—	—	—	—	—	—	—	—	—
	11	65.9	67.1	67.5	67.7	69.8	71.9	72.3	69.9	70.1	70.2	70.5	71.9
	12	59.0	61.4	67.7	70.4	62.4	68.1	66.7	65.4	66.5	60.0	63.1	65.0
	13	55.1	58.3	59.1	61.1	62.6	63.8	63.8	64.3	66.0	65.7	63.5	67.0
	14	56.9	59.2	60.4	60.0	65.0	65.1	64.8	64.5	61.6	63.0	64.0	63.8
	15	55.7	58.7	62.8	63.2	63.9	62.1	62.6	62.3	63.8	63.9	64.2	62.6
	16	56.1	60.3	62.1	66.1	66.8	67.2	67.2	68.8	68.3	67.4	68.1	69.4
	17	—	—	—	—	—	—	—	—	—	—	—	—
	18	67.3	68.2	69.6	70.8	73.1	73.1	71.0	73.1	72.6	73.8	75.3	74.8
	19	64.9	63.8	64.1	64.5	65.3	66.8	68.1	68.3	68.9	68.0	68.7	69.4
	20	62.1	65.9	68.9	71.2	71.8	72.7	73.2	73.3	72.9	73.3	71.0	70.8
	21	63.2	69.2	70.3	71.7	71.9	72.1	72.9	72.9	72.6	72.4	71.0	70.9
	22	60.0	62.9	64.8	65.0	65.8	66.8	70.3	71.5	72.3	71.1	70.7	70.9
	23	59.5	61.6	66.5	70.2	70.7	71.7	71.6	71.5	72.3	73.1	71.3	71.8
	24	—	—	—	—	—	—	—	—	—	—	—	—
	25	53.6	58.5	62.6	62.2	61.6	67.1	66.3	65.2	65.9	65.9	66.5	67.0
	26	61.1	63.4	64.5	65.2	66.4	65.8	65.7	67.2	67.8	67.5	66.0	66.5
	27	59.7	60.4	60.3	59.9	59.2	60.0	60.2	62.1	61.8	63.2	61.9	62.3
	28	52.3	53.8	56.4	58.2	60.0	60.1	62.2	62.1	61.7	61.1	60.1	61.3
	29	57.7	62.6	64.5	67.1	67.7	69.6	69.8	69.4	70.6	71.3	71.5	70.8
	30	65.7	66.3	66.3	67.4	67.5	65.3	65.7	65.9	65.7	66.5	64.8	63.6
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	58.88	62.23	64.36	65.78	66.38	67.31	67.64	67.78	68.20	67.86	67.94	67.78	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
56.9	57.1	57.3	56.9	56.6	56.6	56.9	55.3	55.4	54.7	53.8	54.6	55.40
58.4	58.1	57.4	56.6	57.1	56.2	52.7	49.1	46.9	44.7	44.6	46.8	55.78
54.3	51.4	50.7	50.5	50.8	51.0	50.6	49.7	49.3	48.3	48.3	48.0	52.15
62.1	58.5	55.1	52.8	51.4	50.8	49.8	49.0	47.9	45.6	45.1	45.8	54.03
61.3	59.8	58.5	58.1	57.6	57.5	—	—	—	—	—	—	—
—	—	—	—	—	—	60.0	59.0	58.7	59.0	59.0	59.2	60.15
68.9	67.5	66.3	64.0	63.8	60.2	60.1	58.4	54.4	54.4	55.3	56.5	65.05
61.6	62.8	61.1	61.7	58.8	58.4	58.6	57.7	54.2	53.6	50.8	52.3	62.90
63.6	59.1	53.8	52.2	50.5	50.5	50.3	48.8	47.9	47.0	46.4	47.1	55.35
64.4	60.0	57.3	55.6	54.6	53.5	53.4	52.3	52.1	51.3	51.1	50.5	57.90
69.2	67.3	66.2	64.5	62.8	62.6	62.4	61.6	61.3	59.7	60.0	56.3	66.50
77.1	72.1	70.5	68.0	70.3	70.2	—	—	—	—	—	—	—
—	—	—	—	—	—	70.9	70.6	70.7	70.5	69.4	68.9	72.00
73.5	73.1	71.3	70.6	68.5	66.3	64.5	62.8	62.2	61.6	60.4	60.2	69.90
73.1	70.7	65.9	63.8	64.0	63.8	61.4	60.0	61.5	61.3	58.7	61.2	66.15
74.1	74.8	73.3	71.5	69.8	68.9	69.7	69.0	70.2	69.4	69.0	67.5	72.15
66.7	65.0	64.0	60.2	62.8	62.1	59.9	58.5	56.7	54.0	53.5	53.2	64.55
69.1	67.3	61.6	56.5	53.8	53.2	52.5	51.4	51.7	51.7	52.5	54.4	59.55
64.1	63.0	62.6	61.1	59.8	61.9	—	—	—	—	—	—	—
—	—	—	—	—	—	71.5	70.7	69.1	68.8	66.5	64.3	64.40
68.0	72.3	67.8	67.5	64.5	62.4	62.1	59.3	58.5	56.3	55.9	56.1	68.50
61.2	60.3	60.3	58.9	58.5	57.1	56.9	57.1	57.4	56.2	55.9	54.9	60.30
54.6	56.3	54.9	58.5	54.0	53.9	53.0	51.5	52.0	52.0	52.7	52.0	55.15
60.2	59.7	55.4	54.7	56.4	54.5	53.0	51.0	52.2	52.0	51.0	51.2	55.25
63.1	62.4	59.1	57.7	55.4	54.0	53.5	52.5	52.4	52.4	52.2	50.0	58.55
66.2	64.0	62.8	62.3	59.1	58.7	—	—	—	—	—	—	—
—	—	—	—	—	—	55.5	55.1	55.7	56.3	57.1	55.6	61.45
56.9	55.5	54.2	54.2	51.7	49.8	49.0	49.9	50.7	52.7	52.7	53.0	55.10
64.7	63.1	63.5	62.8	61.4	60.0	58.5	55.9	55.0	57.3	57.7	57.0	60.75
53.0	52.4	51.0	50.1	49.5	48.8	48.3	48.3	48.3	47.5	46.9	46.6	51.80
56.9	56.9	55.1	54.0	54.4	53.5	51.7	49.6	48.1	50.0	51.1	51.8	54.35
63.80	62.60	60.60	59.43	58.43	57.63	57.27	56.07	55.57	55.10	54.70	54.60	60.58
60.0	59.5	57.4	54.0	52.4	51.1	52.0	45.8	45.6	43.9	44.3	44.6	55.79
61.1	56.5	54.0	54.6	52.2	52.4	—	—	—	—	—	—	—
—	—	—	—	—	—	57.9	56.3	54.7	53.7	53.5	51.0	56.67
68.9	66.8	63.3	58.9	58.6	55.4	54.2	52.5	53.1	52.7	52.7	51.7	61.18
70.2	68.1	65.1	62.1	60.3	60.0	58.3	56.3	56.5	56.5	55.4	55.2	63.60
68.9	67.5	63.4	61.1	59.1	58.7	57.7	57.4	56.7	55.7	55.5	55.2	63.51
70.1	67.8	64.7	64.0	62.6	62.4	63.1	63.2	63.6	62.2	62.3	64.5	66.90
69.9	69.0	67.5	66.0	64.7	64.3	64.3	64.5	64.3	64.0	64.3	62.6	66.87
72.5	69.4	67.1	65.3	64.0	63.9	—	—	—	—	—	—	—
—	—	—	—	—	—	66.4	66.5	65.8	65.9	65.5	66.0	69.71
66.2	60.4	59.0	58.5	59.5	60.4	59.7	56.9	59.5	58.4	56.6	57.5	64.47
61.1	57.7	56.2	54.7	53.3	52.8	52.8	52.8	52.3	51.8	51.6	51.4	59.34
66.0	62.9	62.6	60.4	60.4	62.3	60.0	58.9	57.7	54.6	57.5	56.6	61.47
60.3	59.7	58.5	54.6	52.6	53.4	53.0	54.7	54.5	54.4	54.7	54.0	58.86
62.7	59.5	58.3	57.7	56.6	56.4	55.7	54.0	54.1	54.2	54.4	54.4	59.32
68.3	62.4	60.4	59.5	58.7	57.7	—	—	—	—	—	—	—
—	—	—	—	—	—	66.0	66.5	67.1	67.7	67.7	67.6	64.89
73.1	68.3	67.2	66.7	66.2	65.7	65.5	65.0	64.8	63.7	63.1	63.8	68.99
66.8	65.0	63.6	63.6	62.0	62.2	62.6	62.8	62.2	62.0	62.2	63.4	64.97
69.8	67.9	65.3	66.0	65.3	64.7	64.3	63.2	63.4	62.7	61.6	60.0	67.55
70.1	69.0	69.0	69.1	67.2	64.5	61.6	60.4	60.1	61.5	61.2	61.2	67.75
69.2	67.5	64.3	61.6	59.3	58.5	58.4	59.7	60.2	59.0	58.7	58.6	64.46
70.7	66.7	65.0	67.0	65.0	64.0	—	—	—	—	—	—	—
—	—	—	—	—	—	53.5	55.6	56.1	54.6	52.3	51.6	64.75
68.5	68.8	68.5	65.8	66.1	62.3	61.4	58.9	59.3	58.3	58.3	58.2	63.20
65.7	64.8	62.4	62.1	61.9	60.3	61.1	60.2	61.1	60.4	62.2	59.3	63.69
62.6	61.7	59.9	60.6	58.5	56.6	55.9	55.3	53.8	54.4	54.7	52.5	59.06
59.2	56.9	56.6	56.1	57.1	57.3	58.1	58.5	58.6	58.2	54.9	54.9	58.15
69.9	68.9	64.5	66.9	67.0	67.7	67.5	67.1	65.1	64.9	65.1	65.3	67.35
60.3	58.7	58.4	57.1	55.9	55.7	—	—	—	—	—	—	—
—	—	—	—	—	—	52.8	51.6	51.6	50.8	50.7	51.5	60.24
66.62	64.28	62.55	61.31	60.25	59.64	59.38	58.64	58.53	57.93	57.73	57.41	63.18

WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
SEPTEMBER.	1	53.8	55.9	60.0	62.0	63.4	65.4	65.5	64.1	64.0	64.0	63.0	62.3
	2	62.1	64.3	65.9	64.5	60.4	63.4	65.7	65.1	68.2	68.2	65.5	64.1
	3	55.7	59.9	61.8	63.4	63.8	65.1	66.3	67.1	67.3	67.5	67.9	70.6
	4	60.1	60.3	60.0	62.8	65.7	66.9	68.1	65.7	65.3	68.4	65.8	63.8
	5	52.8	55.7	57.5	58.7	59.7	60.0	61.6	61.1	58.9	59.5	57.9	57.4
	6	45.5	52.0	52.8	53.4	55.9	59.9	58.0	58.7	59.4	57.9	59.5	59.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	41.0	44.8	46.3	47.8	49.5	50.5	51.7	51.0	52.4	52.2	53.4	52.2
	9	48.3	50.3	52.0	55.9	58.4	59.7	56.9	57.7	62.9	59.4	58.1	56.5
	10	48.1	51.0	53.0	53.8	56.7	53.5	51.8	54.3	54.0	54.5	54.0	53.9
	11	41.1	47.5	49.5	52.7	53.6	53.7	52.8	56.3	54.7	57.9	55.4	50.8
	12	39.6	44.4	46.9	50.9	50.3	50.8	51.6	50.5	50.7	49.9	50.3	50.5
	13	49.7	50.7	51.0	52.0	52.5	54.0	54.0	54.7	55.5	56.9	58.5	59.9
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	51.4	54.4	55.9	58.3	59.7	65.4	64.0	55.5	55.1	55.9	53.2	54.0
	16	37.8	43.3	45.7	45.9	47.7	48.1	50.9	50.4	51.0	49.6	52.5	53.7
	17	39.4	43.1	46.7	52.3	55.3	56.4	57.5	56.5	55.9	56.5	61.1	60.0
	18	59.7	61.3	61.6	64.7	66.5	67.8	67.2	66.0	63.1	63.1	59.7	61.9
	19	44.8	48.3	49.8	53.7	54.5	54.7	54.5	54.6	55.7	55.9	57.2	55.0
	20	52.5	52.8	54.2	56.3	55.3	54.0	54.3	55.9	57.4	55.1	55.1	54.8
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	34.5	38.0	41.9	44.9	47.8	48.6	48.0	47.3	50.1	48.1	49.8	48.3
	23	48.4	48.7	49.5	49.3	48.7	48.1	48.3	49.3	50.5	51.0	51.4	51.4
	24	47.1	48.1	48.8	48.1	49.1	49.1	49.3	48.8	47.7	48.1	48.1	47.3
	25	40.6	43.1	45.6	48.5	49.9	50.8	51.0	51.3	50.3	52.5	51.2	50.9
	26	46.9	48.2	49.6	50.3	50.5	50.0	51.4	52.4	55.5	56.9	56.3	56.4
	27	38.0	42.2	47.9	51.4	53.6	53.0	54.5	54.7	54.7	53.0	52.5	51.1
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	55.9	58.5	61.3	62.3	62.4	65.1	64.2	63.5	62.3	62.1	61.6	60.4
	30	58.2	58.1	58.4	58.6	59.1	59.0	60.2	61.6	61.1	60.2	58.5	57.9
	Hourly Means	48.15	50.96	52.83	54.71	55.77	56.65	56.90	56.70	57.07	57.09	56.83	56.31
OCTOBER.	1	50.5	50.5	50.1	53.9	51.6	53.3	52.2	52.6	52.5	55.2	54.8	53.6
	2	46.6	47.3	48.5	50.8	52.4	53.2	54.4	54.6	54.6	56.8	55.8	54.2
	3	53.2	52.2	51.1	50.5	50.9	50.7	51.3	51.7	52.5	53.2	51.9	51.2
	4	49.8	48.8	48.7	50.0	51.2	52.8	54.8	54.4	55.2	56.5	55.6	54.9
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	32.4	35.7	38.8	40.0	41.1	41.4	43.5	44.3	44.8	45.1	45.2	43.5
	7	37.3	39.2	45.4	49.1	50.8	52.2	52.6	52.2	51.3	51.6	51.9	51.3
	8	47.2	48.8	50.7	52.0	54.7	54.8	54.6	54.8	55.0	54.4	54.2	54.8
	9	56.3	56.8	58.8	57.6	59.5	57.4	57.8	57.1	57.6	57.9	56.9	56.4
	10	51.8	53.2	54.8	55.2	54.2	56.0	56.2	56.7	56.5	56.4	56.5	55.8
	11	55.8	54.8	53.0	52.6	52.0	52.2	52.7	53.4	54.2	54.4	54.2	53.9
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	37.4	37.5	41.2	42.7	43.2	46.9	47.5	48.9	50.0	49.7	48.1	47.1
	14	47.0	45.6	44.9	43.7	43.7	43.9	44.4	43.1	40.9	39.6	38.6	37.5
	15	26.9	28.1	32.2	34.9	35.7	36.4	36.5	36.9	37.8	35.4	35.8	34.4
	16	31.8	32.0	34.7	36.9	37.6	39.5	39.5	40.3	39.3	40.3	40.0	39.3
	17	31.0	34.4	35.7	38.7	43.9	44.9	44.7	44.7	46.6	47.0	46.4	46.0
	18	34.8	35.8	40.5	47.0	48.2	50.5	52.2	52.8	52.7	53.2	50.8	48.3
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	37.7	37.9	37.6	38.2	38.5	40.5	39.5	39.8	39.6	35.4	33.9	32.8
	21	22.8	24.8	27.1	29.3	31.2	28.1	30.8	32.0	32.4	29.1	29.7	28.5
	22	20.6	21.3	26.6	31.4	32.4	32.7	34.3	35.1	35.6	36.6	36.5	35.6
	23	22.9	23.7	30.2	32.7	40.8	39.2	42.7	44.7	44.9	45.1	45.3	42.3
	24	40.9	41.2	42.2	44.7	46.6	47.1	48.2	48.7	47.2	47.2	48.1	43.5
	25	39.8	41.3	42.4	46.1	46.9	48.9	48.9	48.7	48.1	47.1	47.0	47.2
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	37.5	37.4	42.8	49.5	50.0	51.5	53.2	54.2	54.5	53.2	51.7	51.2
	28	43.1	44.1	46.4	50.0	51.4	53.2	53.5	53.7	54.2	53.6	51.8	50.5
	29	35.3	35.8	40.0	46.6	48.5	51.0	51.7	52.9	52.5	52.6	53.4	51.2
	30	53.8	54.6	55.1	55.9	56.2	56.5	57.2	52.9	51.8	51.2	51.0	48.5
	31	48.0	48.5	49.9	50.1	51.0	51.9	52.7	52.4	53.7	53.6	53.8	53.4
Hourly Means	40.45	41.16	43.31	45.56	46.82	47.66	48.43	48.65	48.74	48.53	48.11	46.92	

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
61.6	61.4	62.8	62.7	62.7	61.9	61.9	62.8	—	—	—	—	62.06
63.4	63.0	62.4	61.4	59.3	59.0	58.8	58.5	57.4	56.7	56.4	52.3	61.92
69.0	62.6	61.1	58.4	58.7	59.1	58.7	56.9	54.7	56.4	55.5	58.9	61.93
61.8	59.3	58.2	56.6	54.9	53.5	50.8	53.0	53.2	53.0	52.8	52.4	59.68
57.3	55.9	54.7	52.3	50.9	51.0	51.4	51.1	49.7	50.3	49.2	49.1	55.15
57.3	59.9	60.2	61.2	61.5	62.1	—	—	—	—	—	—	53.87
—	—	—	—	—	—	49.0	44.4	43.5	41.9	39.3	40.6	48.39
50.8	45.9	44.4	44.4	44.2	44.0	47.3	51.4	51.4	49.7	47.7	47.3	53.41
54.9	53.5	52.9	52.5	51.0	51.0	49.8	49.3	48.3	47.3	47.6	47.6	49.64
52.2	51.0	49.8	47.3	46.3	46.3	46.0	44.0	44.0	44.6	40.6	40.6	47.73
47.5	45.3	45.4	46.0	43.6	43.2	43.1	41.7	42.1	41.1	40.8	39.7	47.78
49.1	45.4	45.1	44.9	44.4	43.1	46.7	45.8	47.7	48.9	49.6	49.7	54.31
61.4	62.3	61.7	60.2	51.0	52.8	—	—	—	—	—	—	51.65
—	—	—	—	—	—	49.7	49.5	52.2	51.2	51.2	50.8	45.68
50.7	49.4	45.8	48.1	46.2	45.7	44.5	46.6	47.6	46.8	46.1	39.3	56.15
50.9	48.3	46.7	45.3	43.9	42.7	41.5	41.2	40.8	41.7	39.0	37.8	56.51
59.7	59.1	58.0	59.1	58.3	60.2	58.9	59.3	58.5	59.1	58.1	58.5	52.79
55.3	53.0	51.5	51.1	50.2	49.6	48.8	48.3	47.1	47.3	45.8	45.7	48.90
54.6	51.6	51.4	52.0	52.2	52.2	52.2	52.2	52.6	52.6	52.5	52.2	46.66
54.9	50.3	50.3	49.1	47.7	46.0	—	—	—	—	—	—	48.57
—	—	—	—	—	—	37.7	36.6	36.6	36.3	36.1	34.3	46.17
47.2	46.1	47.3	47.8	48.3	49.2	48.6	47.5	46.8	47.4	47.0	49.3	47.69
49.5	47.7	47.8	48.3	48.7	48.7	46.3	47.7	47.6	47.0	46.2	45.6	48.97
47.3	46.0	45.9	45.5	44.0	44.1	44.3	43.5	43.2	42.7	41.9	40.1	51.61
48.7	46.1	46.9	47.5	46.8	46.6	47.0	45.3	45.5	46.0	46.7	45.7	60.36
54.2	51.7	48.5	48.8	48.1	47.5	46.8	44.4	41.7	40.6	40.4	39.1	56.71
50.3	49.8	47.2	47.5	48.7	47.5	—	—	—	—	—	—	52.80
—	—	—	—	—	—	56.7	55.5	57.6	57.2	57.3	56.7	47.8
60.2	60.0	59.7	59.7	59.5	59.1	58.7	58.3	58.5	58.5	58.3	58.6	47.34
58.3	58.3	55.1	55.3	54.9	54.2	55.1	52.7	51.2	52.6	51.0	51.5	47.88
54.93	53.19	52.34	52.04	51.00	50.78	50.01	49.52	48.78	48.68	47.88	47.34	48.37
47.8	46.9	45.5	45.8	43.3	43.0	42.0	40.8	42.2	42.0	44.6	46.1	52.78
53.4	53.7	52.7	51.4	51.7	52.0	51.2	53.6	54.2	54.6	54.5	54.4	51.35
51.2	51.2	51.0	51.2	51.1	50.9	51.0	51.2	51.0	51.0	51.2	50.0	47.57
54.2	54.2	52.2	51.3	51.2	51.3	—	—	—	—	—	—	38.86
—	—	—	—	—	—	34.3	32.7	32.1	31.8	32.2	31.4	49.03
40.5	38.2	37.0	36.4	36.3	36.6	35.5	33.2	34.2	36.7	36.0	36.3	54.76
51.0	50.5	50.2	49.9	50.0	50.0	50.3	48.2	48.5	47.5	47.9	47.8	53.82
55.2	55.5	55.5	55.7	56.0	56.0	56.2	56.8	57.6	58.2	58.7	56.8	55.84
53.4	51.4	49.5	50.4	52.1	51.6	50.6	49.7	48.2	47.5	46.4	50.7	48.68
52.6	56.7	57.2	58.2	58.2	58.2	57.6	56.0	55.8	55.4	55.1	55.8	38.8
53.2	52.9	52.8	50.0	49.0	47.7	—	—	—	—	—	—	50.5
—	—	—	—	—	—	37.4	36.4	35.5	33.9	37.4	38.8	28.3
47.7	47.9	47.9	47.5	48.3	49.7	48.3	49.4	50.2	50.0	50.4	50.5	31.8
36.9	36.7	36.6	36.0	36.3	36.7	34.8	34.0	32.6	31.5	31.0	28.3	32.23
33.4	30.0	31.0	30.4	29.6	29.7	29.9	28.7	28.8	28.7	30.6	31.8	34.65
34.3	33.8	32.2	32.4	32.2	32.4	32.4	30.4	28.9	30.4	30.2	30.7	38.95
41.3	40.0	41.9	39.6	35.7	34.6	33.7	33.3	32.9	32.4	32.4	33.1	45.13
47.1	47.0	46.6	47.0	46.6	44.7	—	—	—	—	—	—	31.49
—	—	—	—	—	—	40.8	40.0	40.0	39.2	39.3	38.0	26.50
30.9	29.1	28.3	27.5	26.6	25.4	23.7	23.0	22.6	22.8	22.3	22.1	28.95
27.6	25.8	25.8	26.6	27.1	25.5	23.2	22.3	23.2	22.3	22.0	18.7	39.70
34.1	28.6	27.6	27.5	26.3	26.5	25.3	25.3	24.4	23.6	23.7	23.2	42.02
43.7	43.8	44.2	42.1	41.6	39.6	40.2	39.9	40.3	41.0	41.0	40.8	44.26
39.6	38.1	37.3	38.1	39.0	38.5	38.2	38.2	39.3	39.6	38.8	38.2	45.85
45.8	45.9	45.3	45.1	45.0	44.7	—	—	—	—	—	—	46.15
—	—	—	—	—	—	40.8	40.8	40.6	39.3	38.4	38.1	50.14
48.5	48.6	44.3	43.9	42.7	42.0	41.7	41.4	40.8	40.6	39.0	40.1	50.49
47.1	45.1	43.3	46.1	44.8	44.9	43.2	41.0	38.1	36.6	35.5	36.3	51.72
50.7	49.8	49.2	49.1	48.7	53.0	55.4	54.9	55.2	55.4	55.5	55.0	44.26
48.1	47.0	46.6	46.8	46.8	46.6	46.6	47.9	47.6	47.5	47.7	47.8	45.85
53.4	53.4	53.0	52.7	53.5	54.4	52.7	52.8	51.2	50.2	47.7	47.2	46.15
45.29	44.51	43.88	43.66	43.32	43.19	41.37	40.81	40.59	40.36	40.35	40.30	46.15



WET THERMOMETER.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
NOVEMBER.	1	45.8	45.5	46.4	48.3	51.2	50.3	51.4	50.9	49.2	47.0	46.3	45.1
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	37.2	37.4	38.2	39.3	40.5	47.5	47.3	48.0	46.0	44.2	42.7	41.4
	4	38.2	38.3	38.5	40.8	41.7	40.8	41.9	41.4	41.3	41.3	40.5	40.6
	5	38.4	37.8	38.0	37.8	38.5	41.2	41.4	41.4	39.5	39.6	40.2	40.0
	6	39.8	39.6	40.8	41.7	42.4	43.2	42.9	43.9	43.7	44.1	43.1	41.7
	7	36.4	36.3	35.9	37.4	38.1	38.2	39.0	38.5	39.3	39.3	39.2	39.0
	8	35.9	35.9	35.7	35.4	34.9	34.0	33.1	33.3	32.6	33.1	32.9	32.4
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	32.9	34.1	36.1	37.0	38.1	39.9	40.8	41.9	43.4	42.3	42.2	39.4
	11	36.1	36.1	36.3	35.4	35.6	36.3	37.9	38.1	39.6	39.6	39.6	38.2
	12	28.7	29.6	32.2	35.1	35.6	37.3	36.3	37.5	37.6	36.9	36.5	35.1
	13	34.4	35.1	36.8	41.9	43.7	46.4	46.2	46.9	46.8	47.5	46.0	45.1
	14	37.0	38.6	39.8	41.5	41.5	44.4	43.7	43.7	43.9	42.1	42.2	41.2
	15	30.2	30.4	31.9	34.3	36.7	39.8	38.8	39.3	40.3	41.2	40.2	38.8
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	37.1	38.8	40.0	41.7	42.7	44.3	45.6	45.3	45.6	47.0	47.4	47.0
	18	46.9	47.1	47.8	47.7	48.8	51.6	51.0	51.4	50.5	50.7	50.8	50.8
	19	43.0	40.6	40.0	40.1	40.2	39.8	40.2	40.3	39.9	39.3	38.7	38.6
	20	36.6	36.3	37.9	42.2	45.0	46.8	48.2	47.6	48.0	47.1	45.3	46.4
	21	31.2	29.9	30.7	31.7	31.9	33.6	32.7	31.5	32.0	32.2	30.5	32.4
	22	28.5	29.6	30.7	31.4	32.2	32.2	32.2	32.4	32.7	32.8	33.2	32.7
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	20.8	20.6	20.6	22.1	24.2	25.2	25.4	24.8	25.7	23.6	22.5	21.5
	25	31.9	31.8	32.6	34.1	33.3	35.5	35.3	34.6	34.7	34.0	33.1	32.2
	26	31.2	31.2	31.0	30.2	30.2	30.0	30.2	30.6	30.9	31.2	31.7	31.2
	27	21.6	20.7	19.6	18.9	18.5	18.5	20.4	20.8	21.0	20.6	19.8	20.3
	28	6.9	6.5	6.5	9.5	11.2	13.7	15.2	15.7	16.5	17.6	15.8	15.2
	29	13.9	14.9	15.8	16.5	17.5	18.8	20.8	20.9	20.9	20.9	20.4	22.3
	30	—	—	—	—	—	—	—	—	—	—	—	—
	Hourly Means	32.82	32.91	33.59	34.88	35.77	37.17	37.52	37.63	37.66	37.40	36.84	36.34
DECEMBER.	1	18.5	18.5	18.5	19.0	19.8	19.7	20.6	21.6	20.6	20.9	19.4	19.4
	2	10.1	8.9	10.6	11.5	14.7	15.3	15.6	16.5	17.0	17.0	15.1	9.7
	3	8.9	9.4	10.8	13.1	13.7	14.2	15.1	17.0	17.9	18.0	19.6	20.4
	4	26.1	26.1	27.1	27.9	29.9	30.7	27.6	27.6	28.7	28.8	27.6	26.5
	5	20.1	19.7	19.9	20.8	22.9	23.2	24.0	24.8	24.6	22.5	22.1	21.5
	6	21.1	20.6	22.5	23.7	24.6	24.6	24.4	24.7	24.4	24.4	23.5	21.7
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	24.4	24.4	25.0	26.3	27.3	29.6	30.3	30.7	31.2	31.9	31.2	29.7
	9	29.3	29.1	29.9	30.4	30.3	30.8	30.7	31.2	31.6	31.3	30.9	31.1
	10	14.9	14.9	12.9	15.6	15.0	15.7	15.6	15.4	16.0	16.2	15.4	15.1
	11	4.1	3.4	2.5	1.9	4.0	5.4	6.9	8.3	9.5	8.7	7.1	6.2
	12	-2.3	-1.9	-1.1	4.7	9.5	12.1	13.9	16.0	18.7	19.4	18.9	18.3
	13	15.8	13.1	15.4	23.6	27.1	27.8	27.9	28.5	29.7	29.9	29.7	30.4
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	32.2	31.4	32.0	32.3	31.2	31.2	29.7	28.9	29.6	28.3	29.7	29.5
	16	22.2	21.3	24.2	25.7	28.2	29.7	31.2	32.0	32.4	32.5	32.4	30.6
	17	22.9	29.1	29.8	31.4	32.4	32.4	32.2	34.1	34.4	34.7	35.1	35.1
	18	31.4	30.2	31.2	31.6	31.7	31.6	31.6	31.4	32.4	31.6	31.0	30.7
	19	4.7	6.3	7.5	10.3	12.2	12.4	12.2	12.0	11.8	11.4	11.3	12.1
	20	7.3	7.9	8.6	9.1	10.3	12.1	12.7	13.9	14.5	14.0	14.0	14.0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	10.1	10.2	10.5	12.1	15.4	17.2	18.7	17.9	18.7	19.2	19.0	16.0
	23	12.9	14.9	15.8	16.7	18.8	21.5	22.5	24.6	23.6	23.6	22.8	19.9
	24	18.9	17.9	18.3	19.2	21.1	23.0	25.2	25.5	26.6	26.1	25.6	25.2
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	15.6	14.7	13.2	14.1	15.3	15.3	16.0	19.3	19.8	20.4	19.6	14.2
	27	15.7	15.5	15.3	18.7	20.8	22.7	24.8	25.9	27.1	26.1	25.9	25.4
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	32.9	33.0	33.8	33.9	33.7	34.3	34.9	34.7	34.9	38.4	34.3	32.6
	30	27.5	26.3	26.5	26.9	25.4	25.6	27.3	26.1	27.1	26.5	24.5	22.3
	31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means	17.81	17.80	18.43	20.02	21.41	22.32	22.86	23.54	24.11	24.11	23.43	22.30	

\* Wet Thermometer put up for comparison with Standard Thermometer.

WET THERMOMETER.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
44.2	42.7	38.2	38.7	37.3	37.3	—	—	—	—	—	—	43.06
—	—	—	—	—	—	35.6	35.1	35.0	37.4	37.5	37.0	40.78
41.3	41.6	40.8	40.4	40.6	40.2	39.7	36.8	35.7	36.7	37.5	37.7	40.29
40.2	39.2	39.2	38.5	38.2	37.9	37.5	37.2	37.2	37.4	37.5	37.6	39.48
40.6	39.8	38.8	38.5	38.2	39.3	39.6	39.7	39.6	39.8	39.8	40.0	40.40
39.8	39.5	38.8	38.3	38.7	39.3	39.8	38.8	38.8	37.9	37.1	36.0	38.38
39.4	39.3	39.2	39.2	39.2	39.1	39.2	39.0	38.8	38.4	37.1	36.6	33.51
32.1	32.1	32.1	32.6	33.4	32.8	—	—	—	—	—	—	37.18
—	—	—	—	—	—	33.3	32.5	32.5	33.5	34.1	34.0	36.28
36.3	33.4	32.4	35.3	35.5	35.9	35.6	36.3	35.9	35.9	35.5	36.1	33.66
38.4	37.6	36.6	37.4	35.7	35.5	35.6	34.3	34.5	33.1	33.3	29.8	42.13
33.9	32.7	31.2	31.7	29.3	30.4	33.3	33.5	33.4	32.4	33.5	34.2	39.00
44.2	43.2	42.5	42.2	42.5	43.2	42.8	41.2	40.8	38.1	36.3	37.2	37.39
40.2	40.8	40.8	39.0	36.8	36.8	35.7	34.5	33.1	33.5	33.1	32.2	45.71
39.4	39.8	40.2	39.2	40.2	40.8	—	—	—	—	—	—	48.92
—	—	—	—	—	—	36.1	36.2	36.1	36.1	35.7	35.6	37.08
47.0	46.8	47.1	47.9	49.0	48.5	49.0	48.5	48.6	47.5	47.7	47.0	40.92
51.2	51.4	51.0	50.5	50.0	48.5	48.5	47.8	46.0	45.2	44.4	44.5	30.50
36.8	37.3	36.4	32.4	30.6	29.6	31.2	32.4	34.7	34.6	36.7	36.6	30.32
41.4	40.6	40.5	39.9	39.9	38.2	38.2	36.6	35.7	35.7	35.5	32.4	22.97
32.6	32.4	29.6	26.3	26.3	27.9	29.3	28.6	28.8	28.8	27.9	27.4	31.88
33.7	34.9	35.3	35.7	36.1	36.5	—	—	—	—	—	—	29.59
—	—	—	—	—	—	24.7	22.5	22.7	22.9	20.8	21.3	16.61
20.6	20.2	22.0	23.2	22.6	22.5	20.4	20.6	22.6	24.2	24.2	31.2	12.98
32.3	32.1	31.2	31.2	30.2	31.9	27.5	27.7	27.9	28.8	29.9	31.4	18.97
30.6	30.3	30.2	30.4	30.5	30.5	29.9	27.5	26.5	26.5	24.7	22.9	34.68
19.9	18.5	17.8	14.9	13.9	12.0	11.0	10.4	11.3	10.4	9.4	8.4	29.59
16.0	16.7	17.5	16.2	13.9	11.3	9.9	11.6	11.8	11.5	11.8	12.9	16.61
21.9	22.3	22.5	20.8	20.6	21.0	—	—	—	—	—	—	12.98
—	—	—	—	—	—	14.7	15.8	17.7	18.0	18.1	18.2	18.97
35.76	35.41	34.98	34.55	33.97	33.88	32.72	32.20	32.23	32.17	31.96	31.93	34.68
18.8	17.7	17.5	15.1	15.6	16.0	16.5	16.2	16.4	16.6	16.2	12.1	17.97
2.9	2.1	0.5	2.0	0.4	5.9	3.6	2.2	1.0	2.9	6.2	8.3	7.90
20.6	21.0	22.3	22.5	22.7	23.4	24.0	25.2	26.1	25.9	26.5	26.1	19.35
26.1	25.5	24.5	25.2	25.2	24.4	23.8	23.9	23.1	21.1	20.6	22.5	25.85
21.5	21.3	20.2	19.3	20.8	21.5	20.2	22.1	22.8	22.7	22.6	22.1	21.80
21.8	21.3	22.3	19.4	19.4	19.9	—	—	—	—	—	—	22.73
—	—	—	—	—	—	—	—	23.2	23.7	24.3	24.6	28.66
29.6	29.3	28.8	28.9	28.8	29.1	29.2	28.5	27.9	27.2	29.6	28.9	27.79
31.1	30.5	30.2	29.6	28.5	26.6	25.9	23.4	21.1	19.4	18.0	16.0	13.36
15.1	14.5	14.2	14.9	14.7	13.7	13.4	14.1	8.9	5.5	4.3	4.6	4.55
5.8	5.3	5.6	5.5	5.7	3.7	2.5	2.0	1.5	1.8	0.8	1.0	14.45
18.3	17.5	17.0	16.9	18.2	17.9	17.9	18.8	18.7	19.5	20.6	19.2	28.44
30.2	30.2	30.0	30.2	30.8	30.7	—	—	—	—	—	—	28.21
—	—	—	—	—	—	33.7	33.9	33.9	33.3	33.6	33.1	27.19
29.1	28.6	28.2	27.3	25.6	25.9	25.5	24.8	20.4	23.9	24.2	23.9	33.18
29.3	29.1	27.9	27.3	27.6	26.1	25.4	25.4	20.7	19.9	25.5	25.9	25.92
34.3	34.3	34.6	33.6	34.9	34.4	34.3	35.5	35.3	34.8	34.9	31.8	9.18
30.4	30.7	30.7	30.2	31.0	24.9	23.8	14.4	10.1	7.6	6.4	5.4	11.11
10.8	10.3	9.9	9.4	9.4	8.9	7.9	6.5	6.2	5.8	5.6	5.5	13.68
13.7	13.6	12.5	10.1	8.5	9.2	—	—	—	—	—	—	19.94
—	—	—	—	—	—	10.3	10.3	9.2	10.8	9.9	10.1	20.96
13.0	91.6	11.2	12.2	12.4	12.3	11.8	12.9	13.1	12.6	8.5	11.8	14.22
20.6	20.7	20.4	20.6	20.2	20.0	20.1	20.1	20.2	19.4	19.4	19.2	25.63
24.8	25.0	25.7	24.4	24.0	24.2	—	—	—	—	—	—	32.53
—	—	—	—	—	—	13.2	12.3	11.9	13.5	15.4	16.0	22.10
13.1	9.0	7.4	8.5	13.9	12.5	12.0	12.7	8.6	14.7	15.6	15.7	—
25.2	26.1	26.9	26.7	26.2	26.9	—	—	—	—	—	—	—
—	—	—	—	—	—	32.5	32.2	31.9	31.7	32.4	32.5	—
31.7	31.1	32.3	31.9	32.2	32.2	31.2	29.2	29.3	28.6	29.9	29.6	—
22.1	21.7	21.7	21.6	21.6	22.0	20.7	18.9	15.4	13.9	8.9	9.9	—
—	—	—	—	—	—	—	—	—	—	—	—	—
21.56	21.12	20.90	20.37	20.73	20.49	19.98	19.20	18.34	18.27	18.40	18.23	20.66

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	JANUARY.	1	66	71	72	68	64	70	62	64	61	67	73	69	
		2	79	76	79	77	77	74	73	78	82	71	78	87	
		3	88	95	89	93	91	96	96	96	96	98	98	99	
		4	69	78	72	72	73	64	61	52	53	54	82	93	
		5	—	—	—	—	—	—	—	—	—	—	—	—	—
		6	82	82	82	81	84	85	85	89	87	87	86	82	
		7	89	94	95	93	90	97	100	98	97	95	79	76	
		8	76	79	77	85	86	88	92	82	83	81	68	72	
		9	91	86	93	90	88	78	81	86	78	71	73	63	
		10	81	76	80	81	84	79	79	77	76	79	77	78	
		11	85	88	84	89	92	88	84	82	82	77	76	77	
		12	—	—	—	—	—	—	—	—	—	—	—	—	—
		13	94	94	94	92	92	75	97	89	82	77	80	82	
		14	78	77	84	91	87	83	84	87	80	80	75	74	
		15	89	89	84	90	94	91	95	91	91	91	98	88	
		16	91	88	88	90	89	97	94	98	98	92	93	93	
		17	92	88	88	88	71	96	97	94	97	92	93	86	
		18	75	74	83	87	79	83	87	89	77	71	75	73	
		19	—	—	—	—	—	—	—	—	—	—	—	—	—
		20	87	84	87	88	87	90	90	93	89	87	87	88	
		21	90	89	92	95	96	94	96	96	90	91	95	99	
		22	72	77	79	82	88	78	75	73	72	73	58	100	
		23	92	91	87	95	95	88	70	78	81	80	78	79	
		24	93	95	94	98	95	98	96	95	94	95	91	90	
		25	91	82	76	77	87	75	76	67	65	68	69	76	
		26	—	—	—	—	—	—	—	—	—	—	—	—	—
		27	92	95	92	93	90	67	65	75	73	72	73	74	
		28	94	85	83	80	89	88	90	93	95	93	92	89	
		29	70	78	86	84	83	81	75	84	70	69	54	68	
		30	73	70	77	69	85	83	83	87	87	76	74	69	
		31	84	79	79	90	90	79	72	63	63	66	62	70	
		Hourly Means		84	84	84	86	86	84	83	84	81	80	79	81
Tension of the Vapour.	JANUARY.	1	In. .153	In. .156	In. .159	In. .185	In. .143	In. .163	In. .151	In. .156	In. .140	In. .153	In. .151	In. .135	
		2	.119	.116	.119	.121	.130	.128	.140	.148	.142	.119	.128	.133	
		3	.164	.175	.173	.189	.189	.201	.208	.208	.213	.221	.237	.234	
		4	.135	.146	.133	.141	.144	.141	.138	.119	.125	.126	.171	.185	
		5	—	—	—	—	—	—	—	—	—	—	—	—	—
		6	.084	.082	.081	.080	.082	.086	.086	.097	.097	.097	.094	.086	
		7	.108	.122	.128	.098	.105	.113	.119	.118	.127	.125	.117	.113	
		8	.100	.106	.105	.119	.130	.139	.152	.140	.141	.142	.158	.117	
		9	.169	.166	.167	.175	.175	.173	.184	.185	.173	.163	.166	.140	
		10	.126	.121	.126	.132	.146	.136	.138	.139	.146	.140	.132	.132	
		11	.114	.117	.113	.123	.136	.137	.138	.135	.136	.125	.121	.117	
		12	—	—	—	—	—	—	—	—	—	—	—	—	—
		13	.121	.097	.097	.090	.093	.078	.097	.092	.087	.085	.087	.087	
		14	.073	.070	.075	.081	.079	.074	.078	.087	.080	.082	.076	.071	
		15	.111	.112	.108	.122	.137	.143	.159	.158	.162	.162	.153	.148	
		16	.152	.143	.138	.137	.134	.142	.138	.137	.138	.126	.126	.120	
		17	.098	.097	.097	.098	.078	.112	.114	.116	.121	.111	.106	.092	
		18	.083	.079	.088	.097	.090	.095	.102	.099	.086	.076	.074	.067	
		19	—	—	—	—	—	—	—	—	—	—	—	—	—
		20	.101	.097	.102	.105	.113	.122	.128	.137	.140	.138	.138	.136	
		21	.142	.140	.152	.150	.151	.149	.162	.170	.168	.169	.166	.173	
		22	.125	.131	.133	.140	.157	.152	.148	.148	.151	.148	.124	.174	
		23	.093	.092	.106	.155	.166	.159	.141	.156	.161	.159	.158	.159	
		24	.181	.189	.186	.202	.199	.208	.206	.207	.201	.200	.188	.174	
		25	.136	.111	.100	.097	.107	.103	.111	.101	.106	.109	.105	.105	
		26	—	—	—	—	—	—	—	—	—	—	—	—	—
		27	.101	.107	.110	.125	.155	.138	.136	.160	.155	.154	.155	.153	
		28	.197	.172	.173	.175	.198	.203	.205	.213	.211	.216	.208	.211	
		29	.113	.122	.130	.130	.137	.140	.129	.145	.113	.103	.080	.094	
		30	.068	.065	.068	.063	.086	.087	.090	.098	.099	.084	.079	.069	
		31	.076	.065	.063	.075	.076	.063	.058	.050	.050	.055	.048	.049	
		Hourly Means		.120	.118	.120	.126	.131	.133	.135	.138	.136	.133	.131	.129

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
64	63	72	89	72	80	81	81	80	80	76	67	71
87	87	84	87	84	84	85	85	80	80	78	86	81
97	97	74	74	84	82	79	82	82	83	78	73	88
93	81	76	64	61	60	—	—	—	—	—	—	73
—	—	—	—	—	—	90	72	78	77	81	91	84
82	81	81	81	84	84	91	94	92	94	97	84	86
75	75	82	82	86	78	74	78	84	88	78	78	86
81	78	84	78	81	88	97	93	88	89	88	88	83
75	91	70	80	85	79	82	84	85	85	86	76	82
77	77	77	79	81	80	85	85	85	83	84	85	80
76	79	76	71	78	80	—	—	—	—	—	—	80
—	—	—	—	—	—	93	91	94	95	89	92	84
84	86	91	93	78	88	89	94	85	84	79	78	87
79	88	86	92	92	94	89	92	92	94	93	92	86
90	90	91	93	91	85	93	90	88	88	88	90	90
87	87	87	88	85	90	90	90	89	90	87	91	91
83	82	80	82	82	80	81	78	82	80	78	80	85
80	78	78	76	81	84	—	—	—	—	—	—	82
—	—	—	—	—	—	93	99	87	86	—	87	90
89	89	91	89	90	90	92	92	94	91	94	91	90
97	79	80	83	98	84	91	86	91	90	88	82	90
83	84	88	83	88	91	94	92	94	94	90	91	83
82	79	82	83	88	80	79	84	90	91	93	95	85
90	88	91	89	83	85	83	81	78	83	85	81	89
79	84	76	76	77	76	—	—	—	—	—	—	80
—	—	—	—	—	—	92	93	92	90	90	89	80
78	78	79	81	81	81	81	83	85	83	84	78	81
95	82	79	89	93	93	90	94	67	73	73	72	86
64	68	68	70	68	72	76	80	76	71	70	68	73
93	83	81	76	77	71	76	75	78	79	80	80	78
77	58	75	71	72	73	80	72	87	70	63	65	73
83	81	81	81	82	82	86	86	85	85	84	83	83
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.126	.123	.140	.168	.135	.144	.141	.139	.135	.134	.122	.102	.144
.135	.133	.135	.141	.143	.148	.150	.150	.143	.143	.145	.162	.136
.249	.260	.191	.179	.186	.176	.167	.172	.170	.171	.160	.146	.193
.178	.154	.148	.131	.128	.127	—	—	—	—	—	—	—
—	—	—	—	—	—	.108	.084	.082	.079	.083	.088	.129
.084	.079	.077	.076	.080	.082	.092	.101	.102	.103	.107	.097	.089
.109	.105	.109	.111	.119	.111	.100	.101	.102	.108	.111	.098	.112
.123	.131	.130	.129	.135	.142	.157	.159	.158	.162	.162	.166	.138
.157	.167	.121	.120	.118	.108	.115	.114	.118	.116	.111	.111	.146
.127	.125	.124	.125	.127	.112	.104	.109	.116	.115	.113	.114	.126
.116	.116	.110	.098	.098	.090	—	—	—	—	—	—	—
—	—	—	—	—	—	.091	.088	.096	.114	.113	.111	.115
.083	.070	.073	.080	.066	.083	.089	.093	.081	.075	.080	.076	.085
.076	.098	.089	.092	.093	.095	.095	.101	.110	.109	.108	.110	.088
.153	.153	.157	.159	.157	.155	.159	.154	.149	.148	.148	.155	.147
.113	.110	.106	.106	.100	.105	.107	.107	.105	.103	.097	.100	.120
.087	.085	.084	.086	.086	.085	.086	.086	.092	.085	.082	.085	.095
.068	.060	.057	.054	.053	.045	—	—	—	—	—	—	—
—	—	—	—	—	—	.107	.091	.098	.098	.104	.101	.082
.139	.139	.141	.139	.143	.144	.146	.146	.145	.142	.145	.140	.132
.168	.140	.139	.147	.159	.145	.157	.152	.157	.154	.148	.137	.154
.124	.113	.105	.094	.093	.092	.096	.094	.097	.094	.078	.079	.120
.163	.159	.165	.166	.171	.162	.161	.170	.177	.175	.179	.181	.156
.174	.173	.178	.173	.166	.170	.166	.162	.156	.154	.142	.128	.178
.105	.108	.096	.095	.093	.088	—	—	—	—	—	—	—
—	—	—	—	—	—	.101	.105	.110	.101	.101	.094	.104
.158	.156	.157	.163	.164	.163	.163	.166	.169	.166	.170	.165	.150
.209	.175	.161	.168	.173	.173	.166	.158	.118	.122	.119	.116	.177
.085	.089	.087	.085	.079	.081	.084	.084	.079	.076	.073	.067	.100
.087	.084	.079	.072	.071	.067	.066	.062	.060	.063	.070	.072	.075
.051	.038	.044	.048	.038	.036	.037	.033	.037	.030	.027	.028	.049
.128	.124	.119	.119	.117	.116	.119	.118	.117	.116	.115	.112	.124

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	FEBRUARY.	1	72	72	85	92	95	90	57	76	77	77	78	74
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	79	82	83	83	88	82	95	90	85	92	85	93
		4	88	90	90	90	93	96	98	92	91	100	82	80
		5	75	76	78	76	73	77	74	70	79	68	78	83
		6	71	78	78	90	88	90	83	77	73	75	72	65
		7	72	71	70	88	80	80	79	75	77	79	79	77
		8	64	69	76	85	90	89	75	74	83	87	87	82
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	78	75	79	91	95	90	89	92	88	81	79	78
		11	89	88	93	94	92	89	89	88	91	83	84	80
		12	60	63	71	61	70	71	75	80	65	63	68	61
		13	67	63	84	76	80	77	53	72	75	78	77	74
		14	79	79	85	83	83	86	85	84	74	86	84	84
		15	81	83	83	85	86	88	88	89	87	84	85	86
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	91	93	93	94	98	67	73	74	68	68	79	82
		18	73	71	78	78	82	81	87	80	81	86	81	78
		19	87	86	83	82	86	90	83	83	85	83	80	78
		20	79	79	81	77	74	74	74	74	74	80	80	77
		21	89	85	89	91	90	90	87	79	72	68	73	71
		22	81	79	80	82	—	—	92	88	87	96	96	71
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	76	80	79	78	73	80	76	74	74	74	74	78
		25	78	91	89	79	76	73	74	71	69	67	66	72
		26	75	69	64	65	64	55	55	57	60	59	66	65
		27	86	88	85	88	73	82	80	81	80	80	79	86
		28	85	86	93	89	62	96	85	94	92	89	69	82
Hourly Means		78	79	82	83	79	79	79	82	79	79	78	77	
Tension of the Vapour.	FEBRUARY.	1	In. .033	In. .033	In. .138	In. .045	In. .052	In. .055	In. .039	In. .053	In. .057	In. .059	In. .062	In. .055
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	.081	.085	.085	.094	.091	.088	.109	.111	.103	.110	.103	.110
		4	.114	.117	.119	.123	.129	.136	.140	.105	.099	.102	.080	.073
		5	.060	.058	.062	.064	.066	.071	.071	.071	.078	.066	.075	.078
		6	.042	.043	.044	.055	.056	.058	.063	.062	.060	.060	.057	.052
		7	.062	.058	.060	.084	.082	.092	.095	.098	.106	.111	.111	.102
		8	.048	.047	.053	.066	.077	.085	.077	.080	.098	.100	.103	.084
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	.110	.107	.113	.141	.161	.155	.155	.164	.158	.150	.143	.141
		11	.130	.125	.133	.142	.153	.162	.170	.169	.178	.163	.161	.149
		12	.133	.135	.146	.118	.122	.106	.099	.098	.078	.069	.070	.057
		13	.030	.026	.036	.038	.043	.046	.035	.049	.051	.057	.057	.054
		14	.067	.069	.083	.082	.087	.097	.108	.115	.125	.132	.134	.137
		15	.166	.169	.176	.183	.191	.196	.199	.204	.206	.196	.194	.197
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	.161	.171	.175	.185	.201	.144	.162	.171	.155	.157	.169	.172
		18	.137	.134	.147	.152	.165	.166	.181	.163	.164	.181	.167	.156
		19	.060	.161	.159	.161	.169	.187	.183	.180	.181	.175	.174	.159
		20	.155	.161	.176	.185	.191	.200	.193	.191	.197	.197	.197	.189
		21	.169	.164	.176	.193	.208	.231	.229	.223	.202	.195	.209	.197
		22	.167	.164	.172	.193	—	—	.247	.231	.231	.242	.238	.167
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	.156	.159	.170	.181	.185	.200	.198	.194	.199	.198	.191	.188
		25	.161	.186	.204	.221	.217	.226	.237	.226	.222	.215	.208	.215
		26	.149	.141	.138	.146	.148	.129	.130	.130	.135	.133	.143	.139
		27	.126	.122	.133	.162	.154	.175	.179	.180	.193	.175	.165	.164
		28	.119	.118	.129	.130	.095	.161	.151	.165	.168	.170	.126	.144
Hourly Means		.110	.115	.126	.131	.127	.138	.144	.143	.144	.142	.139	.132	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
72	79	86	79	54	73	—	—	—	—	—	—	78
—	—	—	—	—	—	81	82	80	85	78	87	85
80	90	82	81	82	83	84	72	95	86	88	87	85
80	76	80	79	79	79	77	79	80	77	76	87	85
68	71	77	76	76	71	78	88	81	85	78	85	77
67	69	70	80	80	76	80	75	74	80	67	66	76
78	84	82	82	62	67	63	71	74	60	74	61	74
68	75	74	50	69	66	—	—	—	—	—	—	77
—	—	—	—	—	—	84	81	82	83	82	80	85
80	81	82	84	87	84	86	84	86	88	88	87	86
83	91	85	86	88	88	86	86	87	90	88	50	67
66	53	66	67	71	70	65	69	65	64	65	80	75
73	74	73	81	79	80	78	78	79	80	80	79	81
82	82	79	80	81	83	80	78	78	75	80	83	85
85	87	88	89	87	83	—	—	—	—	—	—	85
—	—	—	—	—	—	81	81	79	86	91	91	78
71	77	84	75	73	78	75	71	71	74	70	71	84
91	83	86	85	94	96	88	89	89	87	86	88	79
78	74	72	68	68	73	73	72	78	78	79	86	80
79	77	77	77	75	79	80	79	84	86	85	95	78
71	72	63	78	69	76	72	76	73	80	78	79	85
71	70	71	73	79	78	—	—	—	—	—	—	80
—	—	—	—	—	—	97	96	97	98	96	91	71
79	72	80	91	86	79	77	82	87	90	88	89	72
72	65	75	63	52	68	65	62	65	68	69	78	85
71	78	80	79	81	80	83	—	91	93	85	84	85
91	93	92	96	95	88	87	78	86	82	85	85	87
88	83	78	79	88	92	95	98	—	93	88	87	87
77	77	78	78	77	79	80	79	81	82	81	81	79
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·049	·051	·050	·045	·033	·049	—	—	—	—	—	—	·064
—	—	—	—	—	—	·079	·079	·075	·077	·074	·087	·101
·090	·099	·102	·101	·101	·105	·107	·098	·118	·113	·114	·113	·089
·070	·068	·067	·064	·065	·064	·060	·963	·067	·066	·068	·073	·066
·067	·061	·071	·068	·065	·058	·062	·067	·061	·062	·053	·053	·063
·056	·060	·066	·078	·084	·081	·082	·076	·073	·077	·063	·061	·079
·095	·094	·088	·086	·065	·071	·064	·067	·070	·047	·053	·048	·078
·056	·053	·045	·039	·052	·057	—	—	—	—	—	—	·110
—	—	—	—	—	—	·107	·107	·109	·111	·112	·110	·142
·144	·151	·152	·149	·154	·147	·136	·137	·138	·137	·133	·128	·152
·155	·166	·151	·151	·152	·148	·151	·150	·153	·159	·161	·119	·074
·056	·066	·054	·055	·054	·047	·040	·040	·036	·033	·031	·035	·052
·053	·053	·052	·061	·064	·078	·076	·059	·059	·063	·061	·062	·126
·135	·138	·138	·143	·150	·156	·154	·152	·155	·156	·162	·166	·182
·196	·201	·193	·184	·178	·184	—	—	—	—	—	—	·158
—	—	—	—	—	—	·157	·153	·154	·162	·167	·167	·156
·152	·156	·155	·149	·149	·154	·150	·142	·141	·144	·138	·136	·161
·168	·147	·152	·150	·144	·146	·137	·154	·160	·159	·159	·159	·185
·153	·149	·149	·147	·155	·156	·156	·155	·160	·159	·154	·159	·188
·195	·193	·193	·187	·182	·187	·184	·191	·184	·180	·171	·173	·193
·193	·200	·171	·188	·156	·173	·175	·175	·171	·178	·168	·169	·174
·166	·165	·166	·165	·172	·171	—	—	—	—	—	—	·182
—	—	—	—	—	—	·222	·217	·203	·187	·178	·174	·196
·182	·171	·176	·184	·177	·182	·181	·183	·179	·185	·184	·176	·140
·211	·205	·210	·192	·174	·209	·182	·162	·163	·157	·144	·159	·150
·146	·153	·153	·139	·147	·140	·139	·	·149	·146	·130	·127	·147
·160	·158	·150	·149	·149	·138	·133	·119	·131	·123	·126	·126	·129
·159	·150	·142	·144	·155	·162	·168	·180	·	·132	·148	·158	·129
·129	·129	·127	·126	·124	·128	·129	·127	·126	·125	·123	·122	·129

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	MARCH.	1	80	82	74	70	66	65	60	56	53	61	53	70
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	80	89	86	85	71	70	84	92	93	92	73	86
		4	93	95	88	77	78	77	74	72	71	74	74	67
		5	—	94	96	—	91	88	84	78	77	68	58	57
		6	89	87	81	89	70	73	72	75	72	69	79	71
		7	92	78	83	78	79	75	80	80	79	76	74	76
		8	91	83	94	89	62	48	42	29	30	33	34	35
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	79	76	61	66	65	60	58	60	68	68	78	98
		11	77	82	91	53	66	87	61	56	60	59	65	74
		12	90	80	76	71	73	79	79	79	62	71	73	79
		13	82	86	83	82	71	65	55	55	49	50	66	57
		14	89	87	91	86	86	87	81	78	76	78	89	79
		15	77	71	75	60	83	66	62	71	81	86	88	70
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	89	88	85	80	80	81	75	82	70	69	72	67
		18	88	98	88	86	58	55	58	74	68	73	73	80
		19	81	71	67	72	60	53	55	43	55	74	64	68
		20	73	70	67	64	73	89	65	—	69	68	66	82
		21	—	—	—	—	—	—	—	—	—	—	—	—
		22	87	67	64	59	49	58	57	56	58	54	62	69
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	69	72	66	67	69	66	56	48	52	41	41	49
		25	59	59	68	39	65	52	53	34	32	31	37	34
		26	85	71	80	70	71	63	55	78	53	51	55	59
		27	73	77	70	60	51	50	46	43	43	55	53	61
		28	78	71	68	65	63	60	60	58	57	62	62	69
		29	94	95	86	80	73	60	60	54	48	89	43	51
		30	—	—	—	—	—	—	—	—	—	—	—	—
		31	90	77	71	71	69	65	54	60	58	60	54	55
		Hourly Means		82	80	78	69	70	68	63	63	61	64	63
Tension of the Vapour.	MARCH.	1	In. .156	In. .162	In. .153	In. .159	In. .152	In. .156	In. .149	In. .149	In. .148	In. .172	In. .147	In. .169
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	.159	.165	.153	.150	.123	.120	.150	.166	.163	.164	.132	.155
		4	.127	.149	.163	.154	.167	.175	.171	.178	.184	.174	.164	.145
		5	—	.178	.183	—	.185	.186	.185	.188	.193	.191	.171	.168
		6	.131	.133	.145	.170	.146	.155	.160	.165	.169	.160	.179	.153
		7	.167	.156	.177	.177	.194	.194	.200	.200	.194	.186	.184	.184
		8	.217	.208	.289	.283	.227	.188	.174	.126	.128	.136	.130	.127
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	.116	.115	.109	.114	.124	.123	.125	.138	.147	.145	.162	.194
		11	.124	.132	.153	.102	.141	.183	.129	.121	.131	.128	.141	.152
		12	.170	.160	.155	.174	.171	.185	.186	.188	.186	.184	.183	.192
		13	.136	.151	.150	.174	.166	.164	.140	.154	.137	.137	.144	.145
		14	.185	.190	.202	.201	.202	.216	.219	.215	.202	.170	.176	.160
		15	.080	.075	.081	.070	.101	.081	.076	.092	.105	.112	.112	.091
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	.122	.125	.127	.134	.129	.134	.134	.151	.139	.132	.139	.130
		18	.121	.133	.120	.122	.091	.089	.095	.108	.103	.107	.106	.113
		19	.089	.082	.081	.094	.077	.073	.080	.067	.084	.100	.089	.090
		20	.101	.100	.103	.102	.124	.154	.115	—	.124	.122	.121	.142
		21	—	—	—	—	—	—	—	—	—	—	—	—
		22	.133	.112	.117	.118	.118	.141	.141	.142	.155	.144	.164	.165
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	.146	.153	.146	.149	.159	.155	.137	.125	.132	.106	.104	.118
		25	.110	.110	.138	.096	.175	.143	.152	.103	.100	.092	.110	.100
		26	.165	.148	.187	.178	.184	.184	.183	.174	.177	.177	.183	.193
		27	.171	.182	.222	.221	.214	.206	.193	.207	.192	.208	.183	.199
		28	.187	.189	.193	.199	.208	.231	.210	.212	.221	.221	.225	.233
		29	.178	.199	.233	.242	.253	.233	.265	.264	.255	.337	.235	.246
		30	—	—	—	—	—	—	—	—	—	—	—	—
		31	.259	.264	.277	.305	.311	.315	.289	.303	.300	.301	.304	.271
		Hourly Means		.148	.147	.162	.162	.166	.167	.164	.164	.163	.160	.160

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
78	77	78	82	81	79	—	—	—	—	—	—	74
—	—	—	—	—	—	91	78	88	94	85	86	87
93	94	94	92	73	81	81	89	96	100	99	95	79
60	61	70	74	76	83	81	94	96	97	96	—	75
58	66	62	62	68	74	76	82	77	71	78	80	81
78	82	81	90	86	86	86	89	93	86	81	81	83
79	76	75	82	92	87	90	89	90	94	95	94	—
36	37	43	46	45	48	—	—	—	—	—	—	59
—	—	—	—	—	—	96	90	78	80	80	80	77
72	79	82	86	85	90	84	91	92	93	81	79	77
86	84	78	88	91	82	84	88	86	83	83	88	77
79	80	86	87	84	89	89	82	90	83	77	72	80
57	55	66	73	77	79	84	88	79	81	83	83	71
36	93	86	90	63	67	65	73	71	74	74	76	78
72	69	82	86	85	44	—	—	—	—	—	—	78
—	—	—	—	—	—	97	89	87	96	92	85	78
74	72	72	73	75	78	76	80	75	78	83	90	78
59	62	71	73	72	77	81	85	89	84	83	90	76
82	80	83	89	92	88	72	77	95	97	96	79	75
90	70	81	91	64	57	—	—	—	—	—	—	76
—	—	—	—	—	—	—	—	98	98	82	78	74
77	78	78	89	73	83	—	—	—	—	—	—	74
—	—	—	—	—	—	97	78	96	98	97	99	61
60	61	59	63	70	71	70	66	66	57	64	60	62
65	51	60	68	74	82	82	85	90	91	95	93	64
59	63	64	75	74	60	57	55	52	55	66	62	67
62	62	72	81	82	82	82	77	74	78	85	85	72
70	72	74	76	75	82	82	82	92	88	93	94	73
45	59	62	66	70	72	—	—	—	—	—	—	69
—	—	—	—	—	—	84	86	92	91	93	89	—
58	61	65	68	68	70	74	85	83	85	82	79	63
67	70	71	78	76	76	82	82	85	85	85	83	63
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.163	.156	.162	.170	.164	.164	—	—	—	—	—	—	.162
—	—	—	—	—	—	.188	.160	.171	.178	.168	.167	.146
.160	.151	.148	.148	.122	.132	.134	.144	.145	.144	.143	.130	.168
.131	.133	.161	.169	.173	.187	.183	.193	.196	.188	.188	—	.158
.155	.157	.143	.132	.135	.139	.138	.145	.128	.119	.124	.123	.158
.151	.156	.156	.170	.164	.162	.164	.170	.173	.166	.153	.146	.195
.187	.185	.190	.204	.219	.206	.212	.209	.207	.214	.218	.224	.156
.120	.110	.128	.127	.122	.123	—	—	—	—	—	—	.144
—	—	—	—	—	—	.151	.141	.123	.125	.126	.121	.145
.141	.157	.162	.164	.163	.163	.151	.155	.155	.155	.140	.133	.169
.157	.162	.147	.158	.157	.141	.149	.153	.153	.152	.153	.164	.152
.188	.187	.195	.182	.174	.160	.151	.137	.145	.141	.138	.125	.151
.131	.124	.143	.156	.156	.162	.166	.168	.158	.163	.162	.166	.127
.119	.153	.127	.123	.084	.086	.082	.089	.084	.184	.079	.080	.138
.091	.120	.087	.088	.071	.034	—	—	—	—	—	—	.127
—	—	—	—	—	—	.137	.124	.120	.118	.128	.117	.101
.131	.129	.124	.119	.120	.125	.120	.123	.114	.114	.119	.124	.088
.080	.080	.088	.086	.084	.089	.096	.101	.106	.100	.098	.103	.127
.103	.097	.095	.099	.101	.101	.082	.088	.116	.114	.114	.107	.156
.156	.121	.142	.155	.106	.091	—	—	—	—	—	—	.156
—	—	—	—	—	—	—	—	.158	.158	.136	.127	.132
.164	.158	.157	.172	.134	.144	—	—	—	—	—	—	.136
—	—	—	—	—	—	.203	.163	.200	.203	.202	.207	.185
.134	.134	.133	.137	.144	.144	.139	.126	.123	.108	.111	.112	.196
.164	.126	.141	.141	.145	.151	.154	.156	.170	.171	.160	.163	.200
.187	.188	.189	.211	.227	.210	.189	.183	.182	.182	.191	.173	.158
.186	.184	.196	.192	.200	.202	.202	.186	.183	.186	.196	.187	.127
.208	.198	.196	.193	.184	.202	.204	.202	.212	.198	.188	.181	.156
.224	.251	.216	.238	.229	.237	—	—	—	—	—	—	.159
—	—	—	—	—	—	.243	.239	.240	.235	.240	.256	.291
.267	.269	.302	.287	.287	.269	.267	.307	.305	.315	.301	.308	.159
.156	.155	.157	.161	.155	.153	.163	.161	.163	.165	.159	.150	.159



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time. }		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time. }		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	APRIL.	1	81	75	70	69	65	65	65	63	59	59	58	58
		2	81	87	86	74	58	53	77	49	46	44	46	38
		3	84	61	74	62	60	56	60	49	56	54	63	65
		4	66	62	53	54	50	46	39	44	39	38	38	47
		5	63	56	55	59	56	63	49	82	46	80	82	92
		6	—	—	—	—	—	—	—	—	—	—	—	—
		7	87	85	78	61	67	85	96	96	99	86	98	96
		8	85	86	88	88	91	88	59	64	71	71	78	85
		9	86	86	82	70	65	55	47	51	55	60	51	58
		10	73	57	52	41	42	40	91	56	51	53	46	48
		11	70	65	75	71	67	55	48	44	37	27	33	35
		12	84	74	58	44	43	47	45	46	44	44	52	54
		13	—	—	—	—	—	—	—	—	—	—	—	—
		14	46	46	43	37	37	29	36	40	35	37	39	16
		15	67	35	34	29	38	39	35	39	35	35	35	37
		16	45	44	46	53	43	43	43	57	62	66	69	68
		17	93	91	91	89	93	93	90	90	88	87	88	85
		18	97	92	87	92	89	84	84	83	84	82	79	82
		19	96	96	94	93	93	96	94	94	94	93	94	91
		20	—	—	—	—	—	—	—	—	—	—	—	—
		21	92	90	85	90	88	83	83	82	77	77	73	77
		22	91	83	77	81	69	70	69	70	67	71	70	67
		23	79	69	66	65	62	60	56	51	56	52	58	59
		24	96	96	94	91	88	82	80	78	76	75	81	77
		25	81	78	79	77	71	74	72	71	67	65	78	88
		26	85	97	96	94	90	84	81	79	78	74	68	78
		27	—	—	—	—	—	—	—	—	—	—	—	—
		28	80	80	85	82	76	76	72	66	62	59	66	70
		29	49	46	45	36	39	53	65	58	57	51	60	57
		30	64	82	82	77	71	76	71	66	70	69	68	67
		Hourly Means		78	74	72	66	66	65	66	64	62	62	64
Tension of the Vapour.	APRIL.	1	In. .281	In. .229	In. .183	In. .175	In. .155	In. .153	In. .157	In. .159	In. .149	In. .148	In. .146	In. .142
		2	.181	.201	.225	.233	.196	.194	.229	.152	.133	.130	.131	.105
		3	.122	.093	.120	.108	.111	.115	.128	.115	.136	.130	.140	.141
		4	.151	.151	.133	.140	.132	.131	.112	.123	.104	.104	.099	.112
		5	.088	.083	.083	.106	.104	.126	.101	.162	.088	.141	.135	.149
		6	—	—	—	—	—	—	—	—	—	—	—	—
		7	.116	.113	.110	.090	.101	.134	.164	.183	.180	.156	.177	.163
		8	.093	.101	.113	.118	.132	.130	.092	.108	.124	.133	.146	.165
		9	.102	.114	.132	.139	.130	.121	.114	.125	.142	.150	.132	.140
		10	.149	.140	.158	.150	.152	.150	.144	.173	.147	.150	.132	.134
		11	.136	.129	.149	.149	.147	.138	.124	.119	.109	.080	.093	.092
		12	.146	.154	.139	.120	.129	.153	.136	.142	.146	.146	.162	.160
		13	—	—	—	—	—	—	—	—	—	—	—	—
		14	.113	.125	.135	.131	.149	.124	.163	.174	.161	.173	.179	.090
		15	.128	.091	.124	.135	.185	.181	.166	.192	.172	.186	.179	.189
		16	.140	.137	.142	.165	.143	.142	.135	.177	.184	.192	.203	.199
		17	.222	.222	.224	.222	.232	.232	.239	.241	.244	.250	.251	.244
		18	.248	.245	.224	.243	.241	.235	.240	.249	.251	.246	.250	.249
		19	.290	.273	.259	.256	.274	.276	.269	.268	.271	.272	.287	.271
		20	—	—	—	—	—	—	—	—	—	—	—	—
		21	.245	.251	.250	.264	.271	.248	.255	.255	.250	.261	.246	.240
		22	.216	.239	.236	.272	.249	.256	.252	.264	.249	.258	.271	.259
		23	.274	.273	.279	.295	.322	.339	.328	.358	.319	.287	.300	.289
		24	.346	.365	.403	.450	.464	.498	.502	.497	.492	.485	.463	.390
		25	.230	.223	.222	.216	.221	.219	.222	.210	.217	.224	.232	.251
		26	.221	.256	.284	.276	.278	.294	.331	.311	.311	.304	.306	.331
		27	—	—	—	—	—	—	—	—	—	—	—	—
		28	.223	.253	.313	.325	.322	.357	.372	.362	.335	.327	.332	.314
		29	.179	.191	.205	.186	.198	.256	.314	.279	.277	.240	.284	.276
		30	.202	.249	.265	.286	.281	.307	.309	.311	.364	.349	.347	.315
		Hourly Means		.186	.188	.197	.202	.205	.212	.215	.220	.214	.212	.216

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
61	55	69	73	87	87	93	93	91	94	88	79	71
39	46	57	72	72	68	83	64	80	71	64	79	64
94	94	94	92	93	94	94	95	96	96	96	83	78
47	55	68	71	68	74	72	71	57	56	54	56	55
95	92	75	80	62	66	—	—	—	—	—	—	73
—	—	—	—	—	—	100	100	—	—	—	88	81
56	60	68	74	79	79	83	97	97	100	89	81	88
73	81	61	56	60	68	71	73	78	81	83	91	76
57	58	67	91	80	87	88	74	62	62	66	74	68
54	54	52	60	57	60	64	66	67	67	62	66	57
35	37	49	49	79	79	82	70	75	76	78	85	59
61	74	74	80	77	80	—	—	—	—	—	—	57
—	—	—	—	—	—	43	52	47	45	47	49	39
17	10	29	30	35	37	53	52	54	53	62	66	43
43	58	53	55	57	41	30	35	47	60	48	43	69
66	85	84	86	87	89	88	87	89	84	85	88	91
88	91	94	93	93	93	93	95	96	93	93	97	88
82	84	83	86	84	87	87	93	94	95	96	96	91
94	99	88	81	82	83	—	—	—	—	—	—	87
—	—	—	—	—	—	91	90	86	88	91	94	77
79	83	87	84	94	91	96	95	95	93	97	96	74
76	77	78	79	73	77	77	78	88	85	85	82	83
71	87	90	89	91	89	91	91	87	85	88	91	84
82	82	84	80	81	78	70	79	83	89	85	83	81
88	89	88	90	92	87	90	97	97	97	97	96	65
67	80	80	81	78	81	—	—	—	—	—	—	57
—	—	—	—	—	—	70	82	77	82	84	81	81
69	66	80	45	48	47	48	45	45	67	66	61	65
47	59	54	65	62	65	66	64	66	69	69	71	57
90	88	95	93	92	84	96	90	83	82	97	93	81
67	71	73	74	75	76	78	78	77	79	79	80	71
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.147	.129	.145	.126	.140	.140	.144	.140	.138	.144	.166	.162	.158
.102	.113	.128	.131	.123	.148	.167	.135	.125	.107	.097	.116	.150
.177	.176	.176	.172	.175	.177	.178	.178	.179	.180	.176	.170	.149
.111	.121	.132	.130	.122	.128	.122	.119	.091	.084	.078	.076	.115
.148	.136	.102	.106	.081	.084	—	—	—	—	—	—	.111
—	—	—	—	—	—	.100	.100	—	—	—	.118	.119
.087	.086	.087	.092	.095	.092	.098	.109	.109	.113	.105	.088	.109
.132	.132	.092	.079	.076	.089	.090	.088	.090	.093	.092	.100	.139
.131	.131	.147	.191	.160	.167	.167	.144	.134	.135	.143	.156	.141
.140	.133	.125	.142	.133	.138	.138	.140	.139	.138	.128	.124	.116
.084	.079	.097	.094	.132	.124	.129	.102	.113	.116	.123	.131	.147
.169	.190	.177	.191	.168	.188	—	—	—	—	—	—	.125
—	—	—	—	—	—	.118	.136	.116	.112	.115	.117	.157
.088	.053	.111	.100	.109	.097	.117	.112	.116	.120	.134	.124	.188
.191	.205	.166	.159	.159	.142	.116	.128	.149	.164	.138	.131	.242
.187	.220	.216	.212	.214	.221	.220	.218	.221	.206	.208	.215	.255
.247	.248	.258	.258	.256	.249	.244	.246	.252	.246	.243	.250	.231
.248	.259	.259	.257	.249	.254	.254	.276	.285	.277	.286	.287	.259
.283	.271	.267	.238	.233	.231	—	—	—	—	—	—	.231
—	—	—	—	—	—	.244	.239	.230	.234	.239	.245	.254
.235	.234	.234	.204	.207	.216	.213	.197	.194	.192	.190	.198	.321
.257	.247	.254	.246	.239	.252	.251	.256	.279	.270	.265	.266	.380
.335	.316	.373	.331	.317	.308	.330	.375	.361	.339	.326	.330	.234
.385	.379	.380	.353	.355	.345	.291	.276	.257	.266	.244	.230	.273
.260	.238	.241	.239	.240	.234	.241	.249	.245	.245	.245	.245	.265
.310	.302	.292	.301	.309	.334	—	—	—	—	—	—	.230
—	—	—	—	—	—	.208	.215	.200	.193	.192	.190	.265
.320	.278	.289	.191	.194	.187	.179	.159	.151	.192	.192	.193	.230
.205	.236	.209	.236	.222	.224	.216	.214	.218	.220	.217	.213	.331
.370	.358	.399	.401	.398	.325	.364	.379	.335	.344	.353	.333	.201
.206	.203	.206	.199	.196	.196	.190	.190	.189	.189	.188	.185	.201

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	MAY.	1	97	92	84	63	63	61	58	47	38	36	36	42
		2	65	63	53	51	44	48	43	44	39	38	38	32
		3	86	71	72	68	60	57	62	59	61	53	58	54
		4	—	—	—	—	—	—	—	—	—	—	—	—
		5	72	67	55	49	47	44	40	59	54	55	54	63
		6	87	75	69	69	50	—	—	—	—	60	55	54
		7	72	73	72	76	61	62	58	57	57	47	47	39
		8	48	53	40	53	56	56	54	50	50	55	60	58
		9	82	67	68	61	58	67	64	64	66	65	64	58
		10	74	72	63	71	67	67	70	70	70	69	62	54
		11	—	—	—	—	—	—	—	—	—	—	—	—
		12	87	72	62	69	67	64	63	63	50	48	55	52
		13	96	92	88	62	66	66	68	62	62	63	56	59
		14	88	85	86	82	85	82	94	92	92	89	91	94
		15	89	91	89	91	80	74	68	63	60	60	55	55
		16	73	63	59	59	73	72	78	76	80	78	78	73
		17	82	66	55	66	63	62	72	70	70	64	64	56
		18	—	—	—	—	—	—	—	—	—	—	—	—
		19	79	80	80	75	68	65	59	66	67	81	78	76
		20	72	73	72	62	65	65	79	78	76	77	76	79
		21	71	73	73	66	77	76	73	71	68	67	69	68
		22	72	61	56	57	54	68	73	83	91	92	92	95
		23	94	90	81	86	84	79	78	70	65	62	67	60
		24	60	55	53	52	53	50	51	44	43	41	47	41
		25	—	—	—	—	—	—	—	—	—	—	—	—
		26	62	64	53	53	47	46	45	43	46	53	55	53
		27	79	82	75	65	69	69	69	62	53	54	53	53
		28	82	82	80	88	89	95	95	93	92	85	79	75
		29	69	69	64	66	66	63	61	55	56	55	61	71
		30	76	62	59	54	66	69	67	61	63	60	65	59
		31	82	79	75	73	72	67	65	61	62	55	59	55
		32	—	—	—	—	—	—	—	—	—	—	—	—
		Hourly Means		79	73	68	66	65	65	66	64	62	61	61
Tension of the Vapour.	MAY.	1	In. .358	In. .417	In. .405	In. .314	In. .343	In. .347	In. .347	In. .288	In. .246	In. .237	In. .236	In. .241
		2	.176	.180	.155	.156	.145	.173	.166	.181	.166	.173	.180	.153
		3	.273	.260	.270	.292	.287	.294	.340	.304	.286	.252	.259	.252
		4	—	—	—	—	—	—	—	—	—	—	—	—
		5	.152	.150	.133	.130	.137	.136	.140	.198	.196	.203	.209	.219
		6	.209	.220	.226	.247	.202	—	—	—	—	.251	.245	.229
		7	.215	.194	.181	.195	.170	.184	.175	.175	.185	.160	.160	.129
		8	.092	.119	.101	.150	.163	.166	.177	.180	.198	.210	.207	.191
		9	.239	.233	.258	.241	.224	.263	.249	.258	.275	.273	.259	.258
		10	.233	.238	.229	.277	.263	.311	.325	.309	.316	.279	.261	.262
		11	—	—	—	—	—	—	—	—	—	—	—	—
		12	.410	.424	.420	.482	.486	.510	.524	.450	.435	.461	.417	.508
		13	.410	.457	.482	.457	.521	.525	.551	.519	.516	.414	.427	.403
		14	.423	.451	.444	.435	.493	.507	.519	.543	.539	.545	.548	.535
		15	.250	.227	.209	.204	.196	.191	.192	.192	.203	.186	.192	.166
		16	.147	.141	.137	.148	.210	.214	.237	.229	.236	.247	.242	.231
		17	.201	.210	.205	.292	.292	.289	.328	.330	.319	.314	.284	.254
		18	—	—	—	—	—	—	—	—	—	—	—	—
		19	.327	.389	.430	.440	.442	.430	.385	.402	.353	.435	.404	.387
		20	.204	.221	.229	.216	.237	.255	.328	.324	.322	.332	.332	.329
		21	.198	.222	.246	.245	.323	.335	.327	.342	.346	.355	.377	.365
		22	.202	.183	.182	.204	.209	.261	.251	.284	.294	.295	.301	.310
		23	.232	.270	.281	.352	.376	.350	.354	.339	.325	.299	.346	.315
		24	.148	.145	.145	.155	.177	.179	.181	.166	.165	.149	.164	.148
		25	—	—	—	—	—	—	—	—	—	—	—	—
		26	.236	.262	.275	.295	.318	.346	.363	.368	.399	.462	.477	.435
		27	.311	.351	.365	.370	.425	.449	.482	.464	.387	.359	.350	.327
		28	.372	.389	.414	.457	.506	.440	.470	.480	.500	.565	.557	.524
		29	.148	.145	.138	.145	.150	.155	.169	.151	.154	.148	.163	.195
		30	.160	.146	.155	.155	.219	.237	.225	.217	.233	.234	.271	.246
		31	.224	.260	.286	.302	.333	.333	.338	.346	.354	.329	.349	.308
		32	—	—	—	—	—	—	—	—	—	—	—	—
		Hourly Means		.243	.256	.259	.272	.291	.303	.314	.309	.306	.302	.304

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
54	49	53	57	66	64	80	80	76	67	69	70	63
41	54	78	82	75	78	78	86	67	71	75	81	59
54	54	56	61	62	62	—	—	—	—	—	—	59
—	—	—	—	—	—	44	44	53	36	58	70	59
67	74	81	80	88	88	93	90	98	83	85	91	70
64	71	84	79	82	71	89	91	90	92	91	94	76
40	37	38	50	50	54	58	72	91	83	56	56	59
72	74	83	82	89	70	71	77	85	86	91	89	67
54	63	65	81	78	77	85	87	85	84	85	78	71
53	70	77	87	85	87	—	—	—	—	—	—	74
—	—	—	—	—	—	88	85	86	85	87	90	74
70	66	72	78	80	86	84	89	92	90	92	92	73
66	74	78	82	88	86	91	93	91	96	90	92	78
86	91	88	87	91	92	87	85	85	84	87	85	88
48	53	62	61	79	72	80	76	74	72	77	79	71
63	70	76	83	85	87	87	83	75	78	80	91	75
49	56	69	83	84	71	—	—	—	—	—	—	68
—	—	—	—	—	—	76	79	74	73	75	80	68
77	76	67	91	81	73	77	75	75	73	73	75	74
64	59	65	69	83	89	81	85	84	86	87	87	75
68	71	61	62	67	61	62	64	77	81	86	88	71
95	90	90	93	93	95	97	97	95	98	99	96	85
56	40	49	48	55	54	53	54	66	74	77	71	67
44	41	45	59	62	70	—	—	—	—	—	—	55
—	—	—	—	—	—	67	65	73	78	71	64	55
78	53	71	72	61	51	52	47	52	69	75	78	57
57	62	74	77	83	83	85	—	—	—	86	82	70
81	86	80	87	84	80	80	78	76	74	78	73	83
55	55	56	60	63	65	70	74	80	85	89	85	66
63	75	75	83	86	91	91	82	84	93	95	88	74
64	63	70	80	83	85	—	—	—	—	—	—	74
—	—	—	—	—	—	84	82	82	89	93	89	74
62	64	69	75	77	76	77	78	79	80	82	82	70
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·284	·238	·245	·222	·240	·226	·263	·264	·249	·199	·189	·179	·274
·195	·208	·261	·249	·229	·239	·226	·234	·198	·198	·201	·231	·195
·262	·257	·262	·267	·265	·265	—	—	—	—	—	—	·238
—	—	—	—	—	—	·123	·118	·130	·123	·122	·139	·176
·220	·218	·205	·194	·192	·177	·188	·172	·179	·153	·155	·167	·176
·231	·211	·216	·192	·201	·182	·226	·213	·224	·247	·247	·255	·224
·122	·097	·095	·114	·110	·117	·118	·134	·162	·141	·094	·093	·147
·212	·210	·237	·239	·255	·195	·196	·202	·195	·200	·195	·202	·187
·228	·244	·202	·224	·215	·206	·214	·216	·211	·218	·229	·215	·236
·282	·324	·303	·309	·288	·276	—	—	—	—	—	—	·302
—	—	—	—	—	—	·401	·377	·360	·340	·340	·346	·423
·488	·423	·418	·399	·404	·387	·403	·397	·390	·370	·390	·379	·423
·379	·408	·437	·415	·396	·387	·406	·400	·377	·368	·382	·387	·434
·535	·457	·460	·430	·407	·456	·405	·352	·308	·277	·267	·253	·441
·159	·154	·162	·151	·187	·161	·166	·153	·147	·139	·141	·137	·178
·230	·227	·214	·207	·203	·194	·189	·177	·163	·159	·161	·187	·197
·247	·258	·261	·288	·277	·244	—	—	—	—	—	—	·281
—	—	—	—	—	—	·318	·320	·318	·303	·297	·296	·345
·389	·387	·366	·381	·297	·251	·253	·242	·240	·227	·219	·209	·345
·273	·218	·211	·208	·234	·228	·209	·215	·204	·209	·198	·198	·247
·363	·313	·253	·215	·209	·184	·179	·178	·203	·202	·206	·219	·267
·309	·294	·258	·234	·222	·218	·214	·221	·197	·194	·194	·185	·238
·251	·199	·214	·193	·200	·183	·168	·152	·173	·175	·171	·152	·253
·147	·141	·131	·153	·153	·159	—	—	—	—	—	—	·179
—	—	—	—	—	—	·229	·234	·254	·270	·251	·241	·179
·434	·363	·339	·310	·262	·235	·239	·210	·218	·280	·281	·278	·320
·366	·362	·343	·338	·331	·315	·322	—	—	—	·347	·353	·367
·424	·334	·265	·260	·252	·227	·218	·202	·185	·173	·175	·161	·356
·151	·136	·129	·131	·135	·135	·140	·142	·144	·150	·149	·151	·148
·236	·242	·225	·237	·227	·213	·195	·187	·202	·199	·190	·182	·210
·322	·291	·286	·297	·284	·264	—	—	—	—	—	—	·297
—	—	—	—	—	—	·271	·265	·265	·271	·275	·283	·297
·287	·267	·259	·254	·247	·234	·240	·230	·227	·223	·225	·225	·265

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5
Humidity of the Air. JUNE.	1	—	—	—	—	—	—	—	—	—	—	—
	2	81	80	83	78	78	74	75	76	76	75	76
	3	87	85	82	84	83	80	75	73	73	76	77
	4	88	80	79	78	84	79	81	77	80	85	79
	5	78	75	68	65	65	62	61	56	53	47	72
	6	80	70	66	62	77	71	78	79	89	90	91
	7	96	89	93	96	94	95	88	88	87	87	81
	8	—	—	—	—	—	—	—	—	—	—	—
	9	67	61	61	64	42	45	39	34	49	36	36
	10	86	70	62	74	73	72	68	61	63	66	65
	11	89	88	82	79	78	81	77	77	78	77	79
	12	96	96	95	95	93	91	90	88	84	88	73
	13	87	77	70	68	78	83	67	72	73	74	81
	14	77	64	58	49	63	74	43	42	40	45	36
	15	—	—	—	—	—	—	—	—	—	—	—
	16	84	77	85	78	81	82	84	76	82	83	88
	17	88	71	58	56	53	49	45	46	47	39	39
	18	90	81	83	77	75	70	65	66	65	62	67
	19	81	77	75	72	72	75	69	64	61	60	59
	20	89	82	81	76	80	80	83	76	73	75	78
	21	91	83	74	70	66	53	54	44	54	64	64
	22	—	—	—	—	—	—	—	—	—	—	—
	23	87	77	81	79	77	75	78	53	44	39	44
	24	90	83	78	77	75	72	68	77	73	56	64
	25	68	60	54	56	57	70	71	67	63	67	71
	26	83	71	64	78	80	62	59	63	66	68	68
	27	82	74	76	80	76	73	71	63	66	66	68
	28	76	88	92	90	88	84	84	80	86	89	83
	29	—	—	—	—	—	—	—	—	—	—	—
	30	84	75	74	78	81	81	71	75	71	77	73
	Hourly Means	84	77	75	74	75	73	70	67	68	68	68
Tension of the Vapour. JUNE.	1	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
	2	.323	.337	.373	.430	.492	.442	.433	.509	.514	.555	.541
	3	.454	.471	.455	.472	.499	.587	.609	.587	.555	.563	.551
	4	.446	.504	.538	.469	.547	.592	.699	.612	.520	.536	.572
	5	.311	.301	.288	.290	.322	.312	.327	.318	.320	.305	.432
	6	.291	.281	.274	.284	.374	.353	.346	.339	.381	.373	.388
	7	.344	.384	.357	.353	.389	.416	.424	.428	.434	.417	.446
	8	—	—	—	—	—	—	—	—	—	—	—
	9	.458	.447	.463	.530	.381	.446	.393	.368	.344	.404	.409
	10	.453	.457	.459	.499	.544	.588	.599	.583	.555	.513	.489
	11	.460	.459	.475	.476	.501	.537	.565	.583	.597	.590	.572
	12	.473	.475	.472	.485	.555	.624	.673	.608	.601	.608	.593
	13	.338	.420	.409	.429	.542	.553	.511	.510	.552	.550	.667
	14	.308	.274	.279	.265	.362	.439	.274	.265	.249	.266	.228
	15	—	—	—	—	—	—	—	—	—	—	—
	16	.327	.321	.368	.383	.382	.408	.409	.376	.391	.383	.387
	17	.275	.259	.232	.240	.234	.234	.231	.247	.253	.228	.228
	18	.325	.338	.394	.404	.397	.418	.406	.405	.397	.406	.428
	19	.322	.348	.417	.420	.464	.488	.464	.450	.433	.449	.453
	20	.361	.281	.443	.459	.531	.573	.584	.543	.541	.527	.541
	21	.495	.469	.455	.441	.450	.372	.397	.337	.411	.488	.484
	22	—	—	—	—	—	—	—	—	—	—	—
	23	.408	.412	.488	.531	.583	.580	.586	.514	.453	.405	.448
	24	.531	.560	.588	.612	.623	.630	.611	.668	.586	.564	.602
	25	.312	.303	.287	.328	.342	.413	.426	.397	.386	.400	.457
	26	.308	.313	.333	.481	.497	.384	.389	.456	.468	.488	.505
	27	.370	.404	.478	.529	.505	.492	.478	.469	.515	.338	.574
	28	.359	.400	.422	.445	.464	.450	.469	.417	.458	.450	.447
	29	—	—	—	—	—	—	—	—	—	—	—
	30	.374	.369	.377	.381	.401	.382	.359	.360	.346	.374	.356
	Hourly Means	.377	.383	.405	.425	.455	.469	.466	.454	.450	.447	.472

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
—	—	—	—	—	—	—	—	—	—	—	—	—
76	76	79	87	86	91	91	94	92	95	93	91	82
73	76	89	91	91	96	95	96	96	—	—	91	77
80	85	88	91	92	94	92	92	92	92	78	85	85
75	76	67	66	70	70	85	77	84	89	84	87	71
89	89	90	96	94	94	97	95	98	97	96	95	86
86	90	92	93	91	93	—	—	—	—	—	—	—
—	—	—	—	—	—	73	56	55	60	64	69	83
72	72	75	79	80	82	81	88	90	92	95	92	66
79	89	92	94	94	92	95	93	91	91	92	91	72
83	84	92	92	94	95	93	98	97	97	100	96	87
64	71	81	88	87	90	86	79	78	87	91	87	85
58	62	64	69	75	87	78	87	89	81	72	75	74
37	40	71	73	75	82	—	—	—	—	—	—	—
—	—	—	—	—	—	93	81	86	84	88	91	64
93	93	90	77	73	76	79	85	90	92	89	89	84
39	46	60	82	83	76	79	90	93	94	97	93	65
72	78	80	68	72	78	71	69	81	81	90	89	75
72	76	83	88	93	88	90	88	91	94	93	96	78
81	85	86	84	86	86	89	93	95	94	95	88	84
54	58	76	81	85	86	—	—	—	—	—	—	—
—	—	—	—	—	—	77	77	79	86	87	90	71
48	66	72	69	75	85	82	87	91	91	93	89	72
56	60	68	70	71	76	80	81	79	87	81	79	74
33	45	56	74	74	79	83	83	75	80	90	91	67
38	44	42	62	73	80	78	85	76	76	86	85	69
74	75	80	80	88	81	85	83	85	91	88	85	77
84	83	89	93	93	95	—	—	—	—	—	—	—
—	—	—	—	—	—	86	88	93	92	90	90	87
74	81	82	90	91	94	94	94	95	95	96	91	83
68	72	78	81	83	86	85	86	87	88	89	88	77
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·558	·496	·477	·464	·452	·466	·474	·456	·457	·445	·428	·417	·463
·508	·511	·482	·460	·480	·447	·441	·439	·412	—	—	·365	·494
·544	·515	·484	·463	·466	·474	·468	·479	·473	·465	·391	·351	·507
·384	·370	·322	·279	·290	·290	·338	·300	·324	·310	·282	·282	·322
·386	·370	·352	·363	·333	·315	·304	·290	·290	·299	·302	·306	·332
·426	·408	·399	·394	·388	·383	—	—	—	—	—	—	—
—	—	—	—	—	—	·554	·431	·412	·423	·427	·433	·414
·596	·534	·496	·474	·460	·461	·417	·409	·397	·406	·379	·386	·442
·517	·559	·554	·557	·541	·541	·536	·455	·426	·433	·431	·448	·509
·540	·527	·497	·456	·460	·457	·457	·476	·470	·475	·500	·474	·501
·524	·539	·524	·514	·502	·516	·523	·474	·446	·451	·440	·417	·527
·401	·410	·367	·375	·384	·418	·360	·388	·384	·339	·299	·303	·428
·227	·218	·288	·256	·242	·257	—	—	—	—	—	—	—
—	—	—	—	—	—	·392	·341	·335	·309	·307	·325	·289
·395	·384	·376	·333	·288	·297	·278	·265	·260	·249	·228	·227	·338
·232	·259	·299	·343	·327	·300	·284	·287	·266	·255	·246	·249	·259
·380	·380	·363	·325	·326	·326	·305	·289	·285	·283	·285	·276	·356
·516	·491	·411	·371	·359	·329	·331	·321	·312	·307	·284	·323	·398
·489	·496	·496	·575	·509	·511	·489	·496	·501	·493	·494	·476	·497
·317	·359	·397	·386	·558	·560	—	—	—	—	—	—	—
—	—	—	—	—	—	·343	·335	·330	·319	·317	·330	·406
·452	·556	·539	·504	·484	·495	·468	·457	·454	·436	·464	·457	·483
·500	·471	·475	·461	·445	·462	·453	·427	·408	·420	·361	·329	·518
·217	·263	·252	·316	·298	·281	·280	·250	·252	·264	·268	·255	·311
·323	·304	·250	·303	·300	·304	·281	·281	·255	·259	·326	·318	·354
·570	·518	·337	·417	·413	·361	·382	·373	·387	·399	·374	·373	·443
·469	·449	·462	·415	·408	·415	—	—	—	—	—	—	—
—	—	—	—	—	—	·381	·376	·381	·364	·357	·357	·420
·343	·339	·332	·352	·361	·354	·317	·317	·319	·328	·331	·318	·352
·433	·429	·409	·406	·403	·401	·394	·376	·369	·364	·355	·352	·414

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5
Humidity of the Air.  JULY.	1	96	92	84	79	82	80	78	81	91	94	94
	2	76	83	81	80	82	82	83	79	83	82	82
	3	78	74	70	62	58	69	72	77	55	50	51
	4	86	81	79	78	68	64	76	77	72	73	69
	5	90	81	81	78	78	72	62	66	63	71	65
	6	—	—	—	—	—	—	—	—	—	—	—
	7	84	80	73	66	63	62	56	53	48	56	52
	8	94	85	80	74	73	70	65	64	50	52	58
	9	69	59	42	44	44	46	51	52	47	42	45
	10	85	71	55	51	85	42	66	36	40	43	51
	11	86	70	60	62	55	56	55	54	55	57	55
	12	76	72	70	71	66	57	59	40	45	35	38
	13	—	—	—	—	—	—	—	—	—	—	—
	14	83	70	72	63	68	59	57	58	54	55	54
	15	76	64	57	42	41	33	43	45	48	49	49
	16	86	78	67	68	72	72	66	62	74	55	64
	17	90	86	81	65	56	57	49	46	44	35	36
	18	68	64	57	49	45	38	47	63	64	59	61
	19	82	81	84	86	86	72	73	74	72	67	64
	20	—	—	—	—	—	—	—	—	—	—	—
	21	95	92	90	91	79	70	75	70	60	58	60
	22	75	71	67	56	86	47	51	44	43	47	50
	23	76	67	58	55	55	44	42	56	68	68	69
	24	78	77	80	73	73	72	64	56	55	51	51
	25	83	76	67	48	56	54	53	52	52	50	48
	26	88	77	68	72	67	65	63	54	61	48	53
	27	—	—	—	—	—	—	—	—	—	—	—
	28	72	71	61	51	50	50	49	43	36	34	37
	29	80	80	89	96	91	94	98	92	92	85	95
	30	82	82	77	78	74	73	69	69	75	76	66
	31	84	82	70	69	61	61	57	56	47	53	52
	Hourly Means	82	77	71	67	67	62	62	60	59	57	58
Tension of the Vapour.  JULY.	1	In. .358	In. .385	In. .389	In. .394	In. .408	In. .400	In. .389	In. .390	In. .395	In. .401	In. .407
	2	.372	.388	.407	.420	.444	.508	.496	.495	.511	.469	.468
	3	.286	.310	.312	.306	.304	.384	.417	.433	.337	.307	.320
	4	.338	.331	.360	.354	.357	.350	.443	.483	.447	.466	.438
	5	.352	.360	.436	.502	.515	.513	.450	.495	.482	.572	.484
	6	—	—	—	—	—	—	—	—	—	—	—
	7	.517	.607	.622	.624	.641	.657	.632	.585	.516	.606	.537
	8	.472	.526	.587	.655	.612	.617	.644	.658	.529	.585	.449
	9	.386	.367	.286	.308	.318	.327	.373	.417	.392	.354	.398
	10	.341	.375	.381	.412	.511	.383	.470	.322	.383	.422	.481
	11	.426	.474	.469	.582	.557	.623	.684	.671	.704	.781	.704
	12	.482	.598	.633	.704	.743	.782	.868	.605	.702	.559	.603
	13	—	—	—	—	—	—	—	—	—	—	—
	14	.653	.628	.654	.715	.723	.683	.699	.700	.691	.713	.725
	15	.539	.530	.498	.420	.437	.375	.493	.538	.600	.627	.630
	16	.497	.647	.615	.670	.758	.825	.834	.807	.851	.684	.750
	17	.686	.690	.709	.630	.566	.590	.541	.541	.533	.437	.441
	18	.374	.392	.378	.359	.349	.312	.308	.574	.525	.555	.575
	19	.432	.443	.495	.495	.513	.530	.553	.549	.558	.568	.504
	20	—	—	—	—	—	—	—	—	—	—	—
	21	.674	.752	.753	.755	.778	.782	.809	.805	.727	.704	.770
	22	.423	.442	.477	.463	.434	.448	.452	.396	.406	.439	.397
	23	.377	.346	.319	.301	.321	.283	.275	.357	.449	.455	.437
	24	.367	.426	.374	.349	.367	.365	.357	.355	.372	.364	.375
	25	.373	.430	.457	.354	.454	.436	.450	.442	.458	.433	.426
	26	.388	.426	.469	.494	.522	.516	.532	.483	.569	.467	.501
	27	—	—	—	—	—	—	—	—	—	—	—
	28	.395	.394	.374	.358	.353	.366	.338	.310	.285	.283	.308
	29	.377	.400	.442	.489	.495	.526	.562	.568	.616	.620	.620
	30	.377	.381	.361	.369	.355	.349	.353	.375	.373	.382	.356
	31	.315	.351	.359	.388	.367	.361	.359	.354	.315	.353	.350
	Hourly Means	.429	.459	.467	.477	.489	.492	.510	.508	.508	.504	.498

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
96	96	96	97	97	96	98	96	96	92	89	94	91
91	92	97	92	91	88	80	88	94	90	90	81	86
52	52	64	69	74	80	80	82	87	88	88	91	70
79	75	87	84	88	84	84	80	91	93	96	95	80
68	68	76	86	86	81	—	—	—	—	—	—	78
—	—	—	—	—	—	82	87	87	91	95	87	—
57	66	75	77	83	87	88	94	89	92	95	98	73
32	45	53	59	53	58	74	77	76	75	78	78	65
59	61	69	75	76	79	72	86	89	89	89	91	64
55	58	74	83	83	77	78	85	85	90	94	95	68
55	60	75	83	83	83	86	87	90	88	88	57	69
48	44	60	60	64	64	—	—	—	—	—	—	—
—	—	—	—	—	—	84	85	76	82	88	85	63
59	71	81	89	92	92	94	92	93	88	90	88	74
59	69	80	82	77	85	84	81	80	88	89	93	65
58	74	81	87	89	92	92	89	95	97	96	92	78
40	44	59	65	62	71	66	70	77	81	86	79	62
63	70	84	78	80	82	85	83	81	82	77	84	68
73	79	87	90	89	94	—	—	—	—	—	—	—
—	—	—	—	—	—	92	97	98	98	97	97	83
91	87	93	98	68	72	73	78	78	86	83	78	79
53	54	61	70	77	82	85	85	92	88	91	88	67
43	57	58	77	62	69	81	63	71	65	71	69	62
52	74	83	76	82	85	88	90	87	87	85	83	68
60	72	76	79	83	90	85	88	84	85	82	90	69
65	81	80	76	62	60	—	—	—	—	—	—	—
—	—	—	—	—	—	68	72	75	75	82	70	68
44	46	54	60	80	84	85	80	79	87	87	81	61
93	94	97	98	99	93	91	92	93	90	88	89	92
72	69	70	70	72	72	74	76	84	81	89	95	75
58	72	82	79	87	90	90	92	95	95	97	96	74
62	68	76	79	79	81	83	84	86	87	88	86	72
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.448	.448	.454	.449	.443	.442	.445	.423	.422	.405	.386	.408	.413
.462	.459	.457	.431	.438	.419	.353	.323	.306	.277	.276	.287	.415
.303	.272	.293	.302	.317	.331	.328	.319	.324	.312	.314	.315	.322
.499	.425	.400	.562	.352	.335	.324	.307	.315	.291	.290	.297	.385
.451	.429	.428	.446	.439	.426	—	—	—	—	—	—	—
—	—	—	—	—	—	.468	.461	.458	.470	.478	.463	.460
.562	.566	.565	.530	.538	.480	.483	.467	.393	.401	.418	.442	.539
.321	.403	.403	.434	.372	.378	.424	.419	.366	.355	.324	.343	.474
.465	.397	.344	.338	.316	.322	.306	.319	.311	.298	.293	.305	.350
.466	.405	.402	.400	.386	.357	.356	.357	.344	.353	.353	.352	.395
.563	.544	.565	.550	.520	.517	.518	.508	.510	.475	.479	.344	.561
.724	.577	.609	.558	.621	.618	—	—	—	—	—	—	—
—	—	—	—	—	—	.695	.687	.668	.676	.668	.651	.651
.677	.712	.697	.697	.662	.612	.577	.541	.530	.510	.491	.485	.645
.666	.646	.571	.536	.527	.545	.495	.466	.487	.505	.462	.512	.531
.688	.762	.748	.717	.681	.667	.688	.660	.704	.688	.677	.636	.710
.446	.433	.473	.430	.462	.474	.426	.413	.403	.374	.361	.357	.494
.590	.573	.495	.400	.368	.364	.359	.344	.342	.343	.343	.382	.425
.520	.514	.524	.504	.479	.527	—	—	—	—	—	—	—
—	—	—	—	—	—	.728	.722	.685	.678	.624	.578	.553
.643	.756	.645	.648	.512	.482	.478	.446	.435	.417	.405	.394	.638
.406	.396	.419	.419	.434	.419	.422	.423	.446	.419	.419	.398	.426
.279	.343	.329	.433	.330	.346	.358	.299	.324	.310	.333	.320	.352
.389	.443	.396	.372	.408	.388	.371	.349	.361	.358	.339	.425	.377
.464	.482	.438	.420	.398	.392	.374	.365	.356	.360	.361	.339	.411
.536	.535	.512	.492	.402	.393	—	—	—	—	—	—	—
—	—	—	—	—	—	.367	.368	.383	.391	.421	.372	.460
.320	.303	.311	.327	.340	.324	.315	.318	.325	.366	.366	.361	.334
.577	.549	.563	.551	.527	.492	.465	.422	.411	.440	.444	.433	.507
.337	.325	.309	.299	.293	.289	.287	.292	.304	.292	.301	.244	.330
.356	.393	.390	.371	.390	.384	.358	.336	.323	.347	.364	.371	.359
.487	.485	.472	.467	.443	.434	.436	.421	.416	.412	.407	.401	.464



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	AUGUST.	1	89	79	75	73	67	66	62	55	64	73	75	71
		2	65	81	73	67	65	54	56	62	54	55	58	55
		3	—	—	—	—	—	—	—	—	—	—	—	—
		4	89	80	73	65	67	55	63	55	49	55	57	63
		5	87	76	68	66	65	60	59	58	65	59	65	70
		6	89	83	73	72	69	67	59	55	52	61	61	55
		7	92	82	75	70	68	70	68	61	63	59	59	65
		8	90	96	98	93	89	86	73	70	67	71	75	80
		9	96	87	84	80	76	75	76	75	72	70	72	76
		10	—	—	—	—	—	—	—	—	—	—	—	—
		11	98	99	94	93	89	81	78	94	90	88	82	76
		12	84	77	90	93	49	66	69	68	61	31	42	45
		13	84	82	77	84	87	91	93	90	87	93	91	91
		14	91	84	74	61	72	70	65	63	50	51	54	61
		15	91	72	70	61	62	50	53	91	56	56	56	51
		16	76	64	56	63	57	60	60	60	59	57	59	66
		17	—	—	—	—	—	—	—	—	—	—	—	—
		18	93	93	96	91	91	81	79	78	81	72	72	76
		19	96	85	86	83	84	80	80	80	78	77	74	80
		20	96	97	97	85	80	80	77	75	75	75	74	79
		21	96	91	84	78	74	69	72	75	66	64	67	70
		22	82	80	73	66	66	61	66	84	72	65	62	74
		23	87	82	70	71	67	64	67	63	66	69	69	71
		24	—	—	—	—	—	—	—	—	—	—	—	—
		25	86	82	71	59	58	59	55	52	53	49	55	55
		26	88	84	73	65	63	62	63	67	68	67	63	64
		27	89	91	94	92	87	83	79	78	76	85	81	84
		28	82	76	71	75	76	75	76	77	72	71	64	68
		29	95	87	86	83	80	77	78	83	78	70	75	79
		30	94	94	97	91	79	66	62	60	55	55	57	57
		31	—	—	—	—	—	—	—	—	—	—	—	—
Hourly Means		89	84	80	76	73	70	69	70	67	65	66	69	
Tension of the Vapour.	AUGUST.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
		1	.393	.396	.432	.463	.433	.481	.433	.435	.497	.481	.489	.465
		2	.224	.384	.426	.422	.440	.384	.402	.391	.406	.416	.453	.395
		3	—	—	—	—	—	—	—	—	—	—	—	—
		4	.393	.483	.497	.481	.546	.512	.550	.520	.503	.533	.539	.542
		5	.427	.481	.500	.509	.536	.551	.586	.594	.655	.595	.610	.620
		6	.469	.545	.441	.641	.629	.616	.581	.554	.516	.568	.545	.525
		7	.411	.357	.584	.623	.631	.665	.676	.651	.706	.656	.647	.644
		8	.576	.602	.627	.615	.618	.643	.646	.633	.631	.619	.655	.659
		9	.577	.635	.704	.746	.727	.742	.752	.776	.757	.748	.785	.798
		10	—	—	—	—	—	—	—	—	—	—	—	—
		11	.614	.641	.641	.643	.680	.712	.710	.694	.697	.689	.678	.697
		12	.456	.481	.636	.704	.412	.577	.555	.529	.529	.301	.395	.439
		13	.394	.441	.442	.492	.526	.551	.562	.563	.591	.601	.654	.620
		14	.436	.460	.456	.417	.530	.524	.506	.493	.399	.424	.454	.475
		15	.416	.425	.484	.465	.480	.409	.429	.329	.457	.460	.464	.422
		16	.387	.427	.429	.524	.520	.537	.539	.571	.553	.532	.552	.604
		17	—	—	—	—	—	—	—	—	—	—	—	—
		18	.636	.654	.690	.708	.767	.739	.685	.732	.726	.733	.768	.766
		19	.538	.543	.552	.549	.568	.591	.620	.623	.629	.608	.614	.647
		20	.538	.611	.672	.702	.706	.725	.731	.723	.716	.725	.668	.678
		21	.557	.671	.682	.694	.689	.678	.709	.716	.676	.667	.647	.654
		22	.470	.514	.531	.510	.531	.534	.625	.679	.692	.641	.621	.666
		23	.470	.496	.556	.637	.641	.652	.663	.641	.672	.704	.661	.676
		24	—	—	—	—	—	—	—	—	—	—	—	—
		25	.378	.443	.483	.441	.529	.516	.478	.486	.482	.470	.508	.517
		26	.501	.530	.525	.518	.532	.516	.519	.558	.578	.569	.524	.539
		27	.477	.495	.499	.488	.465	.469	.463	.498	.486	.532	.499	.512
		28	.351	.359	.382	.416	.452	.451	.491	.493	.470	.456	.425	.451
		29	.458	.526	.557	.603	.612	.643	.651	.657	.669	.664	.679	.678
		30	.603	.615	.620	.630	.604	.520	.518	.510	.492	.506	.484	.461
31	—	—	—	—	—	—	—	—	—	—	—	—		
Hourly Means		.468	.508	.540	.563	.569	.575	.580	.579	.584	.573	.578	.583	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
78	85	87	95	96	96	90	87	93	93	95	98	81
62	66	75	74	77	73	—	—	—	—	—	—	72
—	—	—	—	—	—	94	91	92	92	94	93	73
68	74	72	73	88	81	83	81	88	90	88	94	77
70	79	87	88	89	87	87	91	95	95	95	91	76
67	76	86	86	88	89	87	91	92	91	93	93	75
75	73	81	87	84	84	85	84	87	88	89	75	76
78	86	91	96	96	95	95	93	95	95	97	95	88
75	85	89	90	89	91	—	—	—	—	—	—	85
—	—	—	—	—	—	97	97	99	98	97	98	79
58	51	53	54	63	98	74	66	81	76	75	85	68
42	40	49	68	77	74	76	86	86	86	85	87	89
87	85	88	89	91	92	87	92	94	96	92	91	73
50	69	86	78	80	84	82	87	80	87	86	80	67
63	60	66	74	74	73	74	67	66	67	68	75	74
65	75	79	77	81	87	—	—	—	—	—	—	83
—	—	—	—	—	—	93	95	97	99	99	99	88
86	71	74	80	82	88	83	84	84	88	88	89	87
84	92	94	91	96	97	98	97	96	96	96	—	87
80	82	81	89	91	96	96	95	95	98	97	89	77
71	81	84	84	81	72	68	71	74	82	84	90	81
74	91	93	94	89	94	94	90	93	91	94	85	73
75	74	79	67	67	71	—	—	—	—	—	—	70
—	—	—	—	—	—	77	72	76	78	93	87	88
70	80	85	78	82	86	95	92	91	86	87	93	74
72	81	91	90	92	90	96	92	98	95	—	87	70
87	82	81	90	91	95	95	97	97	96	96	84	88
67	68	66	65	69	69	73	78	81	84	91	92	74
80	80	80	84	92	93	93	92	92	94	96	95	85
56	64	70	72	75	77	—	—	—	—	—	—	77
—	—	—	—	—	—	96	95	96	96	94	95	71
71	75	80	81	84	86	87	87	89	90	91	90	79
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.462	.465	.437	.401	.379	.363	.364	.282	.291	.274	.280	.288	.404
.431	.372	.359	.362	.340	.333	—	—	—	—	—	—	.399
—	—	—	—	—	—	.460	.426	.405	.590	.392	.356	.469
.600	.575	.498	.428	.459	.393	.381	.351	.374	.373	.368	.366	.523
.636	.614	.570	.518	.490	.484	.451	.426	.437	.437	.420	.410	.501
.398	.596	.536	.494	.465	.462	.444	.446	.434	.417	.418	.413	.576
.650	.592	.649	.551	.517	.508	.529	.528	.444	.520	.524	.534	.610
.652	.654	.634	.611	.585	.574	.574	.575	.574	.569	.578	.544	.672
.704	.660	.619	.581	.560	.558	—	—	—	—	—	—	.558
—	—	—	—	—	—	.622	.623	.613	.616	.603	.617	.423
.511	.387	.573	.372	.411	.511	.443	.381	.457	.450	.395	.435	.512
.363	.305	.314	.354	.354	.341	.346	.364	.358	.351	.348	.349	.426
.592	.527	.527	.490	.495	.531	.476	.470	.457	.412	.449	.430	.409
.383	.430	.454	.374	.349	.369	.363	.395	.378	.390	.392	.372	.536
.461	.399	.400	.411	.393	.387	.383	.343	.341	.345	.350	.365	.660
.579	.491	.467	.447	.444	.436	—	—	—	—	—	—	.572
—	—	—	—	—	—	.606	.620	.638	.656	.656	.652	.627
.753	.597	.784	.586	.584	.588	.598	.563	.560	.548	.535	.551	.608
.602	.582	.560	.552	.536	.540	.548	.550	.536	.534	.537	—	.548
.659	.619	.562	.595	.586	.584	.577	.554	.558	.548	.526	.484	.549
.637	.642	.649	.652	.599	.522	.458	.447	.450	.493	.491	.506	.504
.627	.635	.571	.520	.471	.468	.467	.480	.496	.472	.472	.451	.525
.662	.573	.550	.559	.520	.509	—	—	—	—	—	—	.466
—	—	—	—	—	—	.460	.376	.390	.376	.372	.353	.419
.597	.635	.640	.568	.580	.516	.521	.471	.475	.448	.452	.462	.613
.549	.554	.530	.524	.523	.492	.517	.493	.521	.503	—	.464	.464
.524	.497	.465	.496	.463	.438	.429	.421	.402	.407	.413	.356	.466
.415	.380	.375	.362	.389	.391	.414	.435	.441	.442	.406	.409	.419
.658	.637	.627	.600	.623	.642	.639	.628	.484	.585	.591	.594	.613
.404	.401	.413	.397	.386	.387	—	—	—	—	—	—	.464
—	—	—	—	—	—	.383	.366	.368	.358	.354	.364	.522
558	.532	.529	.493	.481	.474	.479	.462	.457	.465	.453	.445	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	SEPTEMBER.	1	96	95	85	87	79	81	80	81	78	86	85	87	
		2	98	93	89	79	59	68	72	65	75	79	68	71	
		3	91	90	83	72	63	60	58	60	58	55	55	66	
		4	94	89	74	78	79	73	70	52	48	63	58	60	
		5	85	83	79	78	71	60	60	60	60	87	78	65	78
		6	95	90	89	77	75	71	70	68	68	64	68	74	70
		7	—	—	—	—	—	—	—	—	—	—	—	—	—
		8	90	80	68	61	64	61	65	61	61	64	64	67	66
		9	93	93	95	87	83	78	57	58	58	84	66	63	63
		10	85	81	79	69	70	68	79	70	70	60	55	57	60
		11	97	84	79	78	71	62	59	70	70	76	74	74	50
		12	84	73	73	69	66	67	69	61	62	62	54	58	66
		13	75	78	75	70	70	77	85	90	90	95	96	96	93
		14	—	—	—	—	—	—	—	—	—	—	—	—	—
		15	92	90	84	81	67	86	73	38	38	38	42	36	48
		16	92	90	73	56	53	51	65	65	63	63	54	65	79
		17	98	94	89	91	86	86	81	68	60	60	65	78	83
		18	91	93	94	92	84	83	79	73	51	55	54	54	74
		19	89	88	84	69	78	75	71	69	70	70	70	73	81
		20	95	93	96	95	96	93	94	93	97	97	95	96	97
		21	—	—	—	—	—	—	—	—	—	—	—	—	—
		22	94	83	83	77	80	72	76	78	72	72	71	74	80
		23	94	94	93	94	90	89	88	92	92	95	94	93	93
		24	93	92	90	86	85	82	80	75	73	73	76	78	74
		25	86	86	84	81	68	67	58	68	62	62	70	70	86
		26	88	82	82	82	82	93	96	96	91	91	87	88	91
		27	96	98	95	95	93	88	87	87	87	87	88	90	94
		28	—	—	—	—	—	—	—	—	—	—	—	—	—
		29	97	94	84	83	79	81	75	72	71	71	77	73	76
		30	95	96	97	96	96	90	88	81	87	87	81	86	86
		Hourly Means		92	89	84	80	76	75	74	71	72	72	72	76
Tension of the Vapour.	SEPTEMBER.	1	In. .400	In. .427	In. .475	In. .514	In. .522	In. .563	In. .564	In. .541	In. .529	In. .548	In. .529	In. .522	
		2	.540	.572	.594	.542	.415	.488	.546	.514	.608	.619	.531	.513	
		3	.418	.468	.501	.503	.484	.500	.510	.537	.534	.526	.536	.631	
		4	.496	.491	.449	.507	.567	.575	.589	.484	.460	.575	.505	.475	
		5	.364	.402	.421	.440	.433	.410	.435	.428	.459	.452	.392	.418	
		6	.293	.364	.372	.355	.374	.439	.407	.410	.412	.397	.439	.421	
		7	—	—	—	—	—	—	—	—	—	—	—	—	
		8	.239	.262	.253	.255	.277	.284	.305	.289	.314	.309	.335	.317	
		9	.322	.348	.372	.412	.445	.452	.356	.368	.522	.418	.388	.364	
		10	.306	.332	.355	.345	.388	.337	.339	.353	.325	.315	.317	.323	
		11	.249	.297	.309	.348	.345	.324	.306	.380	.371	.414	.376	.258	
		12	.219	.245	.270	.306	.291	.302	.313	.284	.288	.260	.273	.297	
		13	.306	.324	.321	.324	.329	.365	.382	.400	.421	.446	.474	.490	
		14	—	—	—	—	—	—	—	—	—	—	—	—	
		15	.359	.396	.407	.437	.425	.576	.516	.272	.267	.290	.240	.290	
		16	.214	.262	.257	.225	.235	.233	.298	.293	.295	.256	.316	.364	
		17	.236	.267	.298	.370	.400	.416	.425	.379	.347	.369	.479	.470	
		18	.482	.513	.522	.576	.594	.620	.597	.554	.434	.441	.585	.482	
		19	.277	.312	.325	.366	.373	.368	.359	.356	.373	.373	.400	.387	
		20	.378	.380	.405	.433	.435	.398	.403	.424	.457	.415	.419	.415	
		21	—	—	—	—	—	—	—	—	—	—	—	—	
		22	.194	.204	.239	.255	.292	.286	.286	.282	.303	.278	.305	.300	
		23	.325	.329	.336	.337	.323	.313	.313	.333	.353	.353	.363	.362	
		24	.307	.318	.323	.308	.317	.312	.312	.295	.281	.288	.292	.277	
		25	.232	.253	.275	.303	.294	.302	.281	.309	.284	.330	.314	.339	
		26	.285	.301	.319	.328	.330	.343	.367	.379	.414	.431	.422	.428	
		27	.222	.262	.320	.364	.392	.371	.391	.393	.395	.371	.369	.359	
		28	—	—	—	—	—	—	—	—	—	—	—	—	
		29	.431	.468	.494	.511	.501	.557	.522	.505	.481	.494	.472	.458	
		30	.467	.465	.474	.475	.482	.467	.486	.492	.499	.470	.455	.443	
		Hourly Means		.329	.356	.372	.390	.395	.408	.408	.394	.401	.401	.405	.400

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
87	90	97	98	96	95	95	95	—	—	—	—	88
82	88	92	94	95	94	92	94	93	91	94	83	84
67	65	80	78	71	72	77	88	93	92	92	92	74
63	66	70	75	76	78	73	86	89	86	88	87	74
80	82	84	90	94	86	87	87	91	94	92	96	81
64	82	82	88	91	95	—	—	—	—	—	—	81
—	—	—	—	—	—	—	84	85	92	94	93	81
71	83	87	82	80	79	84	80	90	90	95	95	76
61	62	69	84	80	81	84	90	89	90	89	89	79
61	66	71	82	82	80	84	90	91	85	94	95	76
46	57	63	70	83	83	82	87	87	88	93	86	75
72	70	77	83	82	87	83	89	69	71	75	77	72
99	99	97	90	92	—	—	—	—	—	—	—	90
—	—	—	—	—	—	97	97	100	96	98	96	90
46	55	45	74	71	70	65	84	97	95	94	92	69
80	92	94	95	93	95	94	98	95	94	94	95	80
85	84	82	80	85	90	89	85	88	87	91	95	84
58	64	65	76	84	83	83	83	80	94	92	95	78
83	92	90	92	96	96	96	98	96	96	95	95	85
96	85	87	91	86	77	—	—	—	—	—	—	91
—	—	—	—	—	—	86	82	85	83	86	90	91
79	78	79	79	79	94	96	93	91	94	92	96	83
90	92	91	93	94	95	93	93	94	89	89	93	92
81	89	91	94	92	87	89	90	91	90	91	99	86
86	88	92	96	96	96	89	89	91	95	93	91	83
96	94	96	96	97	97	95	96	97	100	100	99	92
94	94	92	97	96	95	—	—	—	—	—	—	93
—	—	—	—	—	—	98	96	94	94	96	96	93
78	78	74	76	78	77	83	76	88	92	94	97	81
97	97	91	94	95	96	96	92	93	95	89	92	92
77	80	82	86	87	87	88	89	90	91	92	93	82
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·507	·512	·550	·550	·547	·531	·531	·547	—	—	—	—	·520
·528	·536	·534	·518	·485	·475	·470	·468	·449	·433	·433	·355	·507
·602	·467	·484	·435	·420	·428	·436	·431	·407	·428	·416	·471	·482
·447	·418	·409	·396	·376	·359	·316	·369	·378	·370	·369	·363	·448
·421	·402	·389	·366	·356	·341	·350	·347	·335	·349	·331	·337	·391
·380	·466	·472	·499	·513	·534	—	—	—	—	—	—	·382
—	—	—	—	—	—	—	·263	·255	·251	·232	·241	·382
·308	·277	·267	·261	·255	·253	·293	·337	·355	·334	·320	·313	·292
·338	·323	·332	·362	·334	·334	·324	·330	·315	·306	·307	·307	·362
·303	·300	·297	·291	·280	·276	·279	·269	·271	·269	·242	·243	·307
·216	·218	·231	·255	·253	·250	·248	·240	·246	·238	·243	·223	·285
·289	·247	·257	·278	·261	·255	·287	·287	·270	·287	·305	·308	·278
·527	·546	·531	·490	·356	—	—	—	—	—	—	—	·352
—	—	—	—	—	—	·345	·344	·384	·363	·367	·357	·352
·249	·256	·196	·284	·260	·253	·232	·287	·321	·310	·300	·227	·319
·328	·320	·305	·290	·273	·264	·251	·253	·245	·252	·228	·219	·270
·469	·558	·435	·448	·446	·490	·465	·464	·460	·472	·456	·472	·416
·336	·323	·303	·326	·328	·320	·311	·304	·285	·311	·292	·296	·442
·386	·361	·357	·367	·377	·377	·377	·381	·382	·382	·378	·375	·365
·416	·332	·337	·328	·306	·267	—	—	—	—	—	—	·338
—	—	—	—	—	—	·205	·192	·195	·191	·195	·186	·338
·285	·272	·284	·290	·297	·334	·331	·312	·302	·312	·305	·339	·287
·333	·315	·314	·322	·330	·331	·300	·316	·315	·301	·292	·291	·325
·289	·288	·292	·292	·272	·265	·270	·263	·263	·255	·250	·245	·286
·316	·287	·304	·319	·311	·309	·303	·291	·287	·300	·303	·289	·297
·405	·366	·330	·333	·326	·320	·309	·283	·256	·251	·249	·235	·334
·349	·342	·307	·320	·333	·318	—	—	—	—	—	—	·369
—	—	—	—	—	—	·446	·425	·456	·448	·453	·442	·369
·462	·460	·443	·447	·449	·440	·449	·428	·459	·466	·467	·447	·471
·473	·473	·408	·417	·413	·405	·417	·376	·357	·379	·349	·360	·438
·383	·368	·360	·365	·352	·349	·342	·339	·330	·330	·323	·318	·368

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.													
Hours of Mean Göttingen Time.	0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.	18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air. OCTOBER.	1	90	90	88	78	66	67	62	66	64	90	90	97
	2	94	88	80	83	78	77	82	77	83	88	87	83
	3	81	86	85	81	80	76	77	76	77	81	80	82
	4	95	94	92	90	87	95	88	86	88	91	91	83
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	93	81	75	57	50	44	56	61	63	67	71	73
	7	90	94	90	83	80	85	85	86	82	85	90	90
	8	96	97	93	90	89	81	78	86	93	96	97	—
	9	91	93	91	87	82	80	76	72	72	73	69	76
	10	99	100	90	88	81	80	80	85	85	86	87	86
	11	97	91	85	85	82	87	88	84	90	93	94	96
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	94	93	89	79	66	72	72	75	81	71	68	68
	14	75	88	90	86	82	72	66	62	49	50	46	59
	15	91	95	77	72	73	63	66	52	62	56	63	63
	16	85	87	79	62	56	62	60	59	57	60	61	69
	17	69	82	67	69	71	67	59	60	67	68	71	84
	18	95	95	86	81	84	86	82	78	72	73	75	75
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	90	91	91	93	88	86	89	88	90	70	70	68
	21	79	78	77	78	79	56	65	73	81	63	72	77
	22	87	85	78	66	58	55	65	66	69	68	62	78
	23	88	89	90	57	82	68	84	80	74	72	75	83
	24	88	90	81	77	72	59	72	76	70	70	85	87
	25	90	90	88	92	89	91	87	88	90	90	95	—
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	98	98	94	92	82	75	75	75	69	62	62	75
	28	92	89	87	83	77	76	72	70	69	66	64	68
	29	87	87	93	81	74	76	69	62	60	58	56	58
	30	88	85	82	82	87	86	80	88	91	92	91	90
	31	90	90	94	95	89	88	90	89	83	91	90	92
	Hourly Means	89	90	86	80	77	74	75	75	75	75	77	79
Tension of the Vapour. OCTOBER.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	
	1	.344	.344	.333	.365	.308	.334	.308	.321	.315	.407	.418	.400
	2	.305	.301	.302	.334	.343	.352	.378	.371	.386	.427	.409	.378
	3	.361	.358	.342	.328	.329	.318	.328	.326	.343	.361	.342	.337
	4	.345	.331	.325	.338	.347	.382	.399	.388	.403	.428	.417	.410
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	.175	.183	.198	.177	.170	.156	.201	.218	.229	.239	.247	.234
	7	.208	.230	.284	.313	.327	.357	.360	.359	.340	.347	.361	.354
	8	.315	.336	.352	.364	.399	.384	.375	.393	.411	.408	.408	—
	9	.426	.438	.469	.443	.461	.421	.420	.394	.406	.412	.387	.395
	10	.376	.397	.402	.404	.375	.399	.403	.421	.417	.417	.421	.409
	11	.431	.405	.368	.361	.349	.362	.366	.371	.395	.402	.402	.400
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	.214	.213	.239	.238	.219	.269	.274	.296	.321	.286	.273	.264
	14	.274	.283	.281	.259	.251	.238	.230	.212	.168	.161	.145	.160
	15	.140	.149	.155	.166	.171	.159	.166	.145	.168	.141	.158	.149
	16	.163	.167	.172	.162	.157	.181	.178	.182	.171	.185	.183	.193
	17	.138	.176	.162	.188	.236	.237	.219	.221	.256	.260	.260	.279
	18	.196	.202	.230	.286	.302	.337	.360	.350	.334	.344	.318	.288
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	.211	.215	.211	.219	.216	.230	.226	.227	.228	.166	.156	.146
	21	.107	.115	.126	.139	.152	.105	.131	.150	.162	.120	.136	.133
	22	.104	.106	.125	.137	.128	.127	.151	.157	.164	.170	.159	.177
	23	.116	.121	.157	.129	.226	.189	.246	.261	.250	.249	.256	.270
	24	.236	.241	.236	.255	.265	.241	.281	.295	.266	.266	.306	.257
	25	.229	.243	.250	.294	.298	.326	.319	.318	.315	.304	.311	—
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	.220	.219	.264	.335	.322	.326	.348	.361	.353	.318	.298	.323
	28	.263	.269	.285	.324	.329	.350	.345	.345	.348	.328	.304	.301
	29	.189	.192	.236	.283	.290	.322	.315	.315	.305	.302	.305	.286
	30	.384	.388	.390	.401	.417	.418	.418	.370	.363	.356	.352	.320
	31	.314	.320	.343	.348	.348	.358	.374	.366	.374	.387	.389	.386
Hourly Means	.251	.257	.268	.281	.286	.292	.301	.301	.303	.303	.301	.290	

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
72	83	87	96	90	95	94	90	95	96	93	94	85
80	85	85	80	82	83	90	93	90	89	91	91	85
89	94	96	96	96	96	97	100	97	98	100	97	88
96	100	99	100	—	100	—	—	—	—	—	—	90
—	—	—	—	—	—	98	95	98	96	95	94	79
94	95	95	90	95	94	98	78	87	98	98	95	91
96	96	91	96	100	99	99	98	—	98	—	94	92
—	100	—	—	—	—	—	—	—	97	100	93	88
93	97	97	98	96	96	90	96	97	99	—	98	89
66	86	87	92	93	96	96	98	99	99	100	—	91
96	95	96	88	85	90	—	—	—	—	—	—	77
—	—	—	—	—	—	94	97	—	100	95	93	73
75	77	76	74	74	79	79	76	79	79	82	83	75
65	69	63	65	69	72	83	89	82	86	94	92	70
70	53	82	82	86	84	94	83	83	83	84	87	80
80	70	77	80	63	64	71	87	77	72	69	71	81
90	88	83	84	89	95	94	95	95	95	95	95	80
74	78	83	88	92	91	—	—	—	—	—	—	80
—	—	—	—	—	—	73	69	70	69	88	91	81
71	64	65	63	69	79	88	75	77	78	90	88	80
77	81	85	80	85	75	73	74	74	73	98	73	76
79	83	92	—	90	88	94	91	91	87	93	87	79
92	90	90	74	80	84	87	89	90	90	94	90	83
87	81	72	68	81	82	84	83	88	91	91	89	80
100	—	98	—	—	—	—	—	—	—	—	—	93
—	—	—	—	—	—	97	100	98	97	97	98	84
83	88	84	91	88	88	87	92	89	93	91	94	79
75	88	88	85	72	72	79	78	81	87	86	86	74
65	74	77	86	87	77	68	69	72	82	81	84	87
91	85	84	89	87	84	85	92	90	88	86	90	91
89	96	93	94	96	96	97	80	85	89	90	89	83
82	84	86	82	82	86	88	87	87	89	91	87	83
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
.279	.290	.280	.298	.262	.268	.263	.238	.358	.258	.281	.300	.316
.363	.377	.360	.336	.344	.351	.352	.391	.395	.397	.398	.398	.365
.351	.360	.359	.362	.362	.359	.362	.370	.363	.367	.370	.350	.350
.404	.412	.382	.372	—	.372	—	—	—	—	—	—	.327
—	—	—	—	—	—	.196	.179	.179	.175	.176	.170	.204
.242	.222	.213	.200	.206	.207	.203	.161	.182	.213	.208	.207	.273
.359	.354	.343	.347	.355	.354	.358	.329	—	.321	—	.320	.398
—	.424	—	—	—	—	—	—	—	.471	.484	.439	.390
.387	.369	.344	.358	.376	.368	.346	.344	.328	.322	—	.361	.417
.323	.424	.432	.460	.462	.467	.458	.435	.434	.429	.425	—	.339
.389	.384	.385	.335	.317	.310	—	—	—	—	—	—	.280
—	—	—	—	—	—	.214	.209	—	.195	.216	.228	.195
.281	.288	.285	.279	.287	.313	.277	.303	.319	.317	.329	.331	.152
.168	.172	.170	.163	.169	.177	.180	.182	.164	.162	.166	.147	.161
.152	.111	.154	.151	.152	.149	.160	.142	.143	.142	.154	.165	.210
.172	.154	.154	.161	.135	.139	.148	.156	.136	.139	.134	.140	.271
.242	.228	.237	.219	.194	.194	.185	.183	.181	.178	.178	.182	.160
.274	.290	.286	.299	.301	.279	—	—	—	—	—	—	.122
—	—	—	—	—	—	.212	.197	.199	.192	.222	.214	.138
.140	.121	.117	.112	.114	.120	.120	.104	.104	.106	.115	.113	.222
.129	.124	.128	.127	.136	.116	.103	.101	.104	.100	.099	.085	.276
.170	.141	.144	—	.135	.134	.133	.133	.126	.118	.124	.116	.313
.241	.267	.271	.225	.228	.219	.229	.229	.234	.240	.246	.238	.222
.224	.201	.181	.180	.209	.208	.207	.206	.222	.229	.221	.215	.235
.303	—	.294	—	—	—	—	—	—	—	—	—	.276
—	—	—	—	—	—	.248	.252	.248	.234	.227	.225	.282
.306	.317	.262	.270	.252	.246	.240	.246	.237	.241	.223	.238	.276
.275	.278	.259	.282	.245	.246	.244	.221	.201	.198	.188	.195	.313
.297	.304	.303	.320	.318	.348	.364	.361	.368	.396	.393	.393	.341
.316	.293	.287	.299	.294	.287	.288	.317	.310	.303	.304	.312	.362
.380	.393	.381	.380	.394	.408	.386	.355	.344	.339	.310	.304	—
.276	.281	.270	.272	.260	.266	.249	.244	.245	.251	.248	.246	.273

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.														
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11	
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5	
Humidity of the Air.	NOVEMBER.	1	89	87	93	83	87	85	75	77	46	42	41	57
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	90	95	94	94	97	89	91	92	84	86	90	89
		4	93	93	90	93	84	79	82	77	76	78	78	86
		5	89	88	89	82	83	82	76	77	76	77	81	73
		6	84	82	84	84	78	94	94	95	95	93	91	90
		7	85	84	84	86	83	82	81	71	76	81	81	84
		8	94	94	91	92	91	91	89	92	85	88	89	83
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	83	81	79	78	75	74	69	74	75	75	76	94
		11	89	89	90	82	80	76	72	74	77	77	82	84
		12	85	92	91	79	67	77	62	68	70	72	69	79
		13	85	91	94	89	84	80	79	79	81	84	80	86
		14	89	87	89	87	84	76	52	53	52	53	59	67
		15	95	93	95	91	81	81	85	79	79	84	84	81
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	96	94	91	90	90	93	99	98	100	—	—	100
		18	98	100	98	92	96	96	97	93	92	91	92	91
		19	82	70	72	75	71	69	70	76	72	71	71	82
		20	92	89	92	83	72	66	68	67	73	74	73	68
		21	68	65	67	64	63	57	51	55	55	62	64	87
		22	82	83	84	82	81	77	70	66	63	71	78	74
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	72	84	78	63	64	64	63	67	72	61	64	71
		25	97	95	81	71	55	64	61	53	57	61	60	63
		26	84	87	86	80	80	79	80	82	82	85	90	89
		27	81	79	73	80	82	82	79	77	72	78	76	90
		28	60	52	48	60	66	69	66	68	72	69	81	80
		29	80	80	81	82	63	64	80	84	89	91	81	97
		30	—	—	—	—	—	—	—	—	—	—	—	—
		Hourly Means		86	85	85	82	78	78	76	76	75	75	76
Tension of the Vapour.	NOVEMBER.	1	In. .288	In. .280	In. .302	In. .304	In. .348	In. .333	In. .327	In. .323	In. .233	In. .198	In. .190	In. .218
		2	—	—	—	—	—	—	—	—	—	—	—	—
		3	.207	.216	.221	.232	.246	.308	.307	.317	.281	.265	.255	.242
		4	.220	.220	.218	.243	.238	.222	.237	.224	.222	.225	.218	.233
		5	.216	.209	.213	.201	.210	.230	.222	.225	.207	.210	.220	.206
		6	.221	.217	.230	.238	.217	.268	.265	.277	.275	.275	.262	.245
		7	.194	.192	.189	.203	.205	.204	.209	.209	.205	.209	.210	.215
		8	.203	.203	.196	.196	.191	.184	.174	.180	.167	.173	.173	.165
		9	—	—	—	—	—	—	—	—	—	—	—	—
		10	.167	.173	.184	.189	.193	.207	.204	.223	.240	.229	.231	.232
		11	.198	.198	.200	.183	.180	.182	.188	.191	.210	.210	.215	.207
		12	.145	.157	.171	.176	.163	.189	.158	.178	.181	.180	.171	.177
		13	.180	.193	.209	.246	.256	.280	.274	.282	.284	.297	.274	.275
		14	.205	.215	.227	.241	.236	.250	.197	.198	.198	.186	.199	.204
		15	.163	.162	.174	.188	.191	.216	.213	.208	.217	.233	.222	.208
		16	—	—	—	—	—	—	—	—	—	—	—	—
		17	.214	.226	.232	.246	.255	.278	.301	.294	.301	—	—	.318
		18	.314	.319	.328	.315	.333	.368	.361	.361	.348	.349	.351	.349
		19	.248	.205	.205	.209	.204	.196	.202	.213	.204	.197	.191	.209
		20	.205	.199	.216	.242	.250	.256	.276	.267	.283	.275	.253	.257
		21	.137	.127	.134	.136	.136	.136	.122	.123	.127	.134	.131	.168
		22	.139	.147	.154	.157	.160	.155	.145	.142	.140	.151	.162	.156
		23	—	—	—	—	—	—	—	—	—	—	—	—
		24	.092	.102	.097	.089	.098	.104	.102	.104	.113	.091	.092	.095
		25	.177	.174	.163	.159	.129	.155	.151	.134	.140	.144	.136	.136
		26	.158	.160	.159	.146	.147	.145	.147	.152	.154	.158	.168	.162
		27	.105	.098	.089	.090	.092	.092	.097	.098	.094	.098	.093	.106
		28	.042	.037	.035	.048	.055	.065	.067	.070	.076	.077	.081	.077
		29	.073	.077	.081	.082	.071	.077	.099	.103	.107	.108	.098	.111
		30	—	—	—	—	—	—	—	—	—	—	—	—
		Hourly Means		.180	.180	.185	.190	.192	.204	.202	.203	.200	.195	.191

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
56	60	74	74	80	80	—	—	—	—	—	—	77
—	—	—	—	—	—	91	98	99	91	94	88	92
92	90	92	95	95	96	97	88	93	93	92	93	82
93	83	81	81	81	78	74	72	74	76	77	80	82
84	85	87	84	82	81	80	81	83	81	80	81	87
86	85	84	87	88	93	97	87	89	82	76	81	87
90	91	90	92	92	91	93	94	87	97	96	97	87
85	91	90	92	96	90	—	—	—	—	—	—	88
—	—	—	—	—	—	79	77	78	83	80	87	81
96	90	87	74	74	76	85	80	87	91	87	92	85
88	91	87	93	82	86	93	86	87	88	90	92	79
73	78	75	79	82	86	81	83	89	91	83	83	80
91	52	83	80	77	65	64	72	75	80	88	85	76
70	51	84	81	84	88	88	86	87	86	87	94	87
88	96	57	84	84	88	—	—	—	—	—	—	97
—	—	—	—	—	—	87	90	97	98	94	95	97
99	—	—	—	—	—	—	99	100	100	99	98	97
90	87	87	82	86	89	94	85	79	89	89	93	97
64	66	79	89	91	86	—	88	80	81	86	85	77
65	75	72	73	76	80	81	85	87	87	84	64	77
96	97	92	90	86	77	90	79	77	77	81	84	74
82	87	86	83	84	86	—	—	—	—	—	—	79
—	—	—	—	—	—	94	76	80	83	77	76	74
75	80	76	75	77	83	85	88	86	46	84	100	72
59	62	59	56	68	—	83	87	89	91	95	88	84
84	81	81	83	86	90	90	86	87	86	84	80	75
76	92	92	83	81	64	52	62	67	62	60	60	71
80	85	73	79	77	75	78	79	73	76	80	68	83
81	83	84	88	91	91	—	—	—	—	—	—	83
—	—	—	—	—	—	83	81	84	87	82	85	81
82	81	81	82	83	83	84	84	85	84	85	85	81
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·210	·205	·192	·196	·195	·195	—	—	—	—	—	—	·240
—	—	—	—	—	—	·195	·202	·203	·209	·215	·204	·242
·245	·245	·240	·242	·224	·241	·239	·202	·199	·207	·211	·216	·213
·237	·215	·212	·206	·203	·196	·188	·182	·185	·190	·192	·195	·215
·230	·223	·217	·211	·204	·212	·213	·217	·218	·216	·215	·219	·232
·225	·221	·212	·212	·217	·230	·238	·216	·220	·203	·188	·186	·213
·226	·226	·224	·226	·226	·224	·229	·228	·217	·227	·216	·211	·177
·165	·171	·170	·175	·186	·173	—	—	—	—	—	—	·196
—	—	—	—	—	—	·165	·156	·160	·171	·172	·180	·193
·208	·178	·168	·172	·173	·179	·189	·188	·194	·199	·190	·202	·167
·214	·211	·198	·213	·185	·188	·191	·181	·184	·173	·177	·158	·237
·160	·158	·147	·156	·144	·155	·167	·170	·177	·173	·170	·176	·203
·275	·190	·243	·237	·233	·219	·215	·215	·215	·201	·198	·200	·205
·202	·225	·229	·208	·196	·202	·193	·182	·172	·173	·172	·175	·290
·224	·237	·179	·216	·225	·235	—	—	—	—	—	—	·328
—	—	—	—	—	—	·195	·199	·208	·209	·200	·201	·192
·318	—	—	—	—	—	—	·355	·338	·324	·327	·318	·222
·354	·353	·346	·330	·342	·320	·327	·302	·273	·279	·271	·279	·141
·167	·174	·186	·170	·161	·152	—	·169	·176	·177	·198	·196	·149
·203	·211	·208	·205	·210	·202	·203	·196	·192	·192	·186	·140	·103
·181	·180	·172	·155	·131	·131	·152	·137	·136	·137	·135	·136	·145
·171	·187	·188	·189	·192	·197	—	—	—	—	—	—	·148
—	—	—	—	—	—	·130	·104	·107	·112	·096	·098	·081
·093	·097	·100	·105	·104	·109	·102	·105	·113	·076	·119	·174	·066
·132	·133	·125	·121	·131	—	·135	·140	·143	·151	·162	·163	·094
·155	·149	·148	·152	·155	·159	·155	·137	·133	·132	·121	·110	—
·093	·099	·096	·079	·074	·057	·047	·051	·057	·051	·047	·046	—
·081	·087	·079	·081	·071	·062	·060	·066	·063	·064	·067	·078	—
·106	·109	·111	·107	·107	·109	—	—	—	—	—	—	—
—	—	—	—	—	—	·078	·081	·089	·093	·090	·093	—
·195	·187	·183	·182	·179	·181	·174	·175	·175	·174	·173	·174	·186



HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.															
Hours of Mean Göttingen Time.		0	1	2	3	4	5	6	7	8	9	10	11		
Hours of Mean Toronto Time.		18	19	20	21	22	23	0	1	2	3	4	5		
Humidity of the Air.	DECEMBER.	1	88	85	88	88	88	80	80	84	76	77	67	75	
		2	85	69	77	77	85	85	82	82	84	83	80	76	
		3	75	65	73	73	73	76	73	69	78	75	72	76	
		4	90	85	91	91	95	94	89	89	90	91	89	88	
		5	74	72	68	75	77	77	78	80	86	67	72	74	
		6	82	79	83	89	88	80	79	74	74	74	76	96	
		7	—	—	—	—	—	—	—	—	—	—	—	—	
		8	90	90	90	89	90	94	94	94	94	94	96	94	93
		9	92	95	94	95	87	92	87	89	86	86	86	87	94
		10	78	85	78	82	62	67	68	74	74	68	77	74	
		11	64	61	55	54	69	65	63	67	74	74	49	43	
		12	62	63	85	61	70	80	83	80	81	84	82	80	
		13	87	83	81	78	77	77	78	83	91	92	94	87	
		14	—	—	—	—	—	—	—	—	—	—	—	—	
		15	100	99	92	91	78	75	77	79	86	68	82	91	
		16	88	84	82	80	81	77	75	78	79	78	88	89	
		17	87	88	92	89	79	77	64	72	77	78	79	78	
		18	74	74	79	78	70	70	66	65	68	73	72	73	
		19	58	40	53	70	64	64	67	76	73	76	74	85	
		20	61	62	63	61	70	70	74	77	74	68	75	78	
		21	—	—	—	—	—	—	—	—	—	—	—	—	
		22	78	75	78	78	84	84	85	73	75	78	81	80	
		23	77	74	73	76	72	76	67	83	78	84	79	74	
		24	87	80	88	84	82	77	73	79	80	79	80	84	
		25	—	—	—	—	—	—	—	—	—	—	—	—	
		26	79	79	74	77	71	72	58	81	77	77	81	79	
		27	80	81	81	88	77	67	71	75	78	70	72	77	
		28	—	—	—	—	—	—	—	—	—	—	—	—	
		29	98	99	99	93	86	90	89	83	82	—	82	78	
		30	84	80	86	84	72	69	81	70	73	88	92	79	
		Hourly Means		81	78	80	80	78	77	76	78	80	78	79	80
Tension of the Vapour.	DECEMBER.	1	In. .096	In. .094	In. .096	In. .098	In. .102	In. .095	In. .099	In. .106	In. .094	In. .097	In. .082	In. .089	
		2	.066	.052	.062	.065	.080	.082	.081	.084	.087	.087	.087	.058	
		3	.056	.051	.060	.066	.068	.071	.072	.075	.086	.084	.088	.093	
		4	.134	.130	.141	.145	.162	.164	.140	.140	.149	.151	.141	.134	
		5	.092	.089	.086	.095	.106	.108	.112	.118	.123	.095	.098	.097	
		6	.102	.097	.110	.121	.125	.117	.114	.111	.110	.110	.108	.075	
		7	—	—	—	—	—	—	—	—	—	—	—	—	
		8	.126	.126	.130	.134	.141	.158	.162	.164	.168	.176	.168	.158	
		9	.155	.155	.160	.164	.155	.163	.157	.162	.163	.160	.158	.167	
		10	.076	.081	.070	.081	.064	.069	.070	.074	.076	.072	.075	.073	
		11	.039	.037	.033	.030	.042	.043	.044	.050	.057	.054	.036	.031	
		12	.029	.030	.038	.038	.055	.068	.075	.081	.092	.097	.093	.089	
		13	.085	.073	.079	.110	.126	.130	.132	.140	.156	.159	.159	.156	
		14	—	—	—	—	—	—	—	—	—	—	—	—	
		15	.182	.175	.172	.172	.151	.147	.141	.139	.151	.122	.148	.156	
		16	.113	.105	.117	.122	.136	.140	.147	.158	.160	.158	.169	.159	
		17	.115	.149	.157	.164	.160	.157	.137	.160	.169	.172	.178	.176	
		18	.148	.140	.153	.155	.144	.143	.138	.136	.145	.146	.143	.142	
		19	.037	.063	.040	.057	.059	.060	.061	.065	.062	.063	.061	.071	
		20	.044	.046	.048	.047	.056	.061	.066	.071	.071	.065	.070	.069	
		21	—	—	—	—	—	—	—	—	—	—	—	—	
		22	.062	.059	.062	.067	.081	.088	.095	.081	.085	.090	.092	.081	
		23	.069	.073	.075	.080	.084	.099	.095	.120	.110	.117	.107	.090	
		24	.097	.087	.095	.096	.103	.106	.124	.120	.126	.124	.122	.125	
		25	—	—	—	—	—	—	—	—	—	—	—	—	
		26	.078	.076	.068	.072	.073	.072	.064	.093	.093	.095	.096	.089	
		27	.080	.080	.079	.097	.096	.095	.109	.119	.127	.114	.116	.118	
		28	—	—	—	—	—	—	—	—	—	—	—	—	
		29	.184	.187	.191	.186	.176	.185	.189	.180	.180	—	.177	.160	
		30	.136	.125	.132	.133	.113	.110	.132	.115	.122	.134	.127	.105	
		Hourly Means		.096	.095	.098	.104	.106	.109	.110	.114	.119	.114	.116	.111

HUMIDITY OF THE AIR, AND TENSION OF THE ATMOSPHERIC VAPOUR.												
12	13	14	15	16	17	18	19	20	21	22	23	Daily and Monthly Means.
6	7	8	9	10	11	12	13	14	15	16	17	
74	71	76	72	80	81	82	79	83	84	80	71	79
70	67	57	91	51	77	73	89	72	82	72	64	76
75	77	84	79	82	84	82	83	88	88	90	86	78
88	90	92	90	93	88	90	92	93	92	90	92	91
83	82	85	84	89	84	88	84	82	82	84	88	80
77	81	95	83	83	75	—	—	—	—	—	—	83
—	—	—	—	—	—	—	—	85	89	94	90	83
91	94	94	89	88	90	91	96	92	89	92	96	92
95	95	94	94	84	73	80	82	79	81	84	79	88
74	79	79	78	81	80	77	82	77	66	70	53	74
40	47	51	57	58	57	57	43	51	41	52	77	57
80	76	80	76	79	78	81	82	82	83	88	82	78
87	83	86	76	74	86	—	—	—	—	—	—	78
—	—	—	—	—	—	91	91	91	93	95	91	85
94	85	93	88	77	80	82	95	93	87	88	92	86
85	85	86	87	89	88	88	98	87	91	85	86	85
95	91	88	76	87	79	81	94	94	99	—	76	83
74	71	71	75	94	84	70	66	53	58	62	59	68
66	59	62	63	64	69	61	58	56	56	60	57	64
85	80	76	77	54	63	—	—	—	—	—	—	64
—	—	—	—	—	—	72	76	71	77	75	79	72
77	77	95	78	78	61	80	81	80	82	67	80	78
87	84	85	90	90	89	84	86	92	90	90	87	82
84	86	95	83	80	84	—	—	—	—	—	—	82
—	—	—	—	—	—	78	82	84	83	84	84	83
83	63	58	64	78	82	83	88	65	82	73	85	75
77	84	89	81	75	82	—	—	—	—	—	—	75
—	—	—	—	—	—	94	97	94	94	92	96	82
79	74	86	86	91	88	82	92	78	82	79	97	87
76	75	75	75	78	81	82	86	90	84	69	77	79
80	78	81	80	79	79	80	83	80	81	77	81	79
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
·085	·079	·082	·071	·079	·082	·084	·081	·085	·085	·082	·061	·088
·041	·037	·031	·040	·027	·050	·043	·040	·034	·046	·048	·049	·057
·093	·097	·110	·106	·110	·115	·116	·124	·132	·132	·136	·131	·095
·132	·131	·127	·131	·133	·124	·122	·124	·120	·111	·107	·118	·134
·105	·104	·101	·096	·107	·106	·103	·110	·110	·110	·111	·113	·104
·101	·103	·120	·096	·096	·092	—	—	—	—	—	—	·109
—	—	—	—	—	—	—	—	·115	·121	·128	·127	·109
·156	·156	·153	·149	·147	·151	·153	·153	·146	·140	·157	·156	·151
·168	·164	·161	·158	·142	·120	·125	·114	·100	·094	·091	·080	·143
·073	·074	·074	·076	·077	·073	·070	·075	·057	·044	·043	·034	·069
·034	·032	·035	·039	·039	·035	·034	·026	·029	·024	·028	·040	·037
·089	·082	·084	·081	·088	·086	·088	·093	·093	·097	·105	·094	·078
·154	·150	·152	·143	·143	·156	—	—	—	—	—	—	·146
—	—	—	—	—	—	·181	·183	·183	·181	·186	·176	·146
·154	·144	·147	·138	·118	·124	·123	·132	·125	·120	·122	·124	·143
·148	·146	·140	·137	·142	·133	·129	·137	·105	·105	·126	·130	·136
·191	·188	·185	·162	·187	·174	·176	·198	·198	·200	—	·153	·169
·142	·140	·140	·142	·166	·123	·103	·067	·046	·043	·044	·041	·122
·055	·049	·050	·049	·050	·052	·045	·041	·039	·038	·040	·039	·052
·076	·072	·067	·060	·042	·049	—	—	—	—	—	—	·061
—	—	—	—	—	—	·058	·060	·054	·062	·058	·061	·061
·069	·065	·074	·067	·068	·072	·067	·072	·071	·072	·050	·067	·073
·104	·103	·102	·107	·105	·104	·100	·102	·107	·101	·101	·098	·098
·122	·124	·136	·119	·115	·120	—	—	—	—	—	—	·105
—	—	—	—	—	—	·071	·070	·070	·074	·081	·084	·105
·073	·048	·042	·048	·073	·071	·070	·076	·049	·078	·074	·083	·073
·117	·129	·138	·129	·120	·132	—	—	—	—	—	—	·127
—	—	—	—	—	—	·177	·178	·174	·174	·174	·180	·127
·157	·147	·167	·165	·171	·167	·155	·154	·139	·140	·144	·162	·168
·102	·098	·098	·099	·102	·106	·102	·096	·085	·076	·052	·059	·107
·110	·106	·109	·104	·106	·105	·104	·104	·099	·099	·095	·098	·106



**TORONTO, 1845.**

---

**DIRECTION AND FORCE OF THE WIND.**

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
JANUARY.	1	W. N. W.	0.5	W. N. W.	0.2	W. N. W.	0.2	N. W.	1.0	N. W.	1.5	N. W.	2.5
	2	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2	—	0.0
	3	E.	1.5	E.	1.5	E.	2.0	E.	1.5	E. by N.	1.0	E.	1.0
	4	W.	0.5	W.	0.5	W. by S.	0.5	S. W.	2.0	S. W.	1.0	S. W.	2.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	0.0	N. by E.	0.2	N. by E.	0.2	—	0.0	N. N. E.	0.2	N. by E.	0.2
	7	N. N. E.	0.5	N. N. E.	0.5	—	0.0	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.5
	8	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2
	9	S. W. by W.	1.5	S. W. by W.	1.0	—	0.0	S. W.	0.2	S. W.	0.2	S. W.	2.5
	10	W.	0.2	W.	0.2	W by S.	0.2	W.	0.5	W. by N.	0.2	W. N. W.	0.2
	11	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	E. S. E.	2.0	E. N. E.	1.5	N. E. by E.	2.0	N. N. E.	2.0	E. N. E.	1.0	E. N. E.	1.0
	14	N. by E.	0.2	—	0.0	—	0.0	N. by E.	0.2	N.	0.2	N.	0.5
	15	—	0.0	N. by E.	0.2	—	0.0	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2
	16	N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	N. E.	0.5	E. N. E.	0.5	E. by N.	1.0
	17	E. N. E.	0.5	N. E. by N.	1.0	N. N. E.	1.0	N. N. E.	1.0	N. N. E.	1.0	N. N. E.	0.2
	18	N. W.	2.0	W.	1.0	N. W.	1.0	N. N. W.	0.5	N. W. by N.	1.5	N. by E.	0.5
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	0.0	—	0.0	—	0.0	N. by E.	0.2	—	0.0	—	0.0
	21	—	0.0	—	0.0	N. E.	0.2	N. E.	0.2	N. N. E.	0.2	N. N. W.	0.2
	22	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	23	—	0.0	—	0.0	—	0.0	E. by N.	0.2	E. by S.	0.2	E.	0.2
	24	—	0.0	—	0.0	E. S. E.	0.2	—	0.0	—	0.0	—	0.0
	25	N.	4.0	N. by W.	4.0	N. by W.	4.0	N. by W.	4.0	N. by W.	4.0	N. by W.	4.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	—	0.0	—	0.0	—	0.0	E. N. E.	0.2	N. E.	0.2	E.	0.2
	28	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	E. by S.	0.2	E.	0.2
	29	W. S. W.	0.5	S. W. by W.	0.5	S. W. by W.	2.0	W. S. W.	2.0	W. S. W.	2.5	W. S. W.	3.0
	30	N. W.	0.5	N. W.	0.5	N. W.	0.5	N. E.	0.2	W.	0.2	S. W. by W.	0.2
	31	—	0.0	N. N. E.	0.2	N. N. E.	0.2	—	0.0	N. N. E.	0.2	N. N. E.	0.5
JANUARY.	12 <sup>h</sup> .		13 <sup>h</sup> .		14 <sup>h</sup> .		15 <sup>h</sup> .		16 <sup>h</sup> .		17 <sup>h</sup> .		
	1	N. W.	0.5	N. W.	2.5	N. N. W.	0.5	N. W.	0.5	—	0.0	—	0.0
	2	—	0.0	E.	0.2	E.	0.2	E.	0.5	E.	0.5	E.	0.5
	3	—	0.0	W.	2.0	W.	3.0	W. by N.	4.0	W.	3.5	W.	2.0
	4	S. W.	1.0	S. W. by S.	0.5	S. W. by W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	E. N. E.	2.0	E. N. E.	1.0	N. N. E.	1.0	N. by E.	0.5	N. by E.	0.5	N. N. E.	0.5
	7	W. by N.	2.5	W. by N.	0.2	W. by S.	0.2	W. S. W.	0.2	W. S. W.	0.5	W. by S.	0.5
	8	S. W. by W.	0.5	S. W.	2.5	S. W.	2.0	S. S. W.	2.5	S. S. W.	2.0	S. S. W.	2.0
	9	W. N. W.	3.5	W.	2.5	W.	3.5	W.	2.0	W. by S.	1.0	W. S. W.	1.0
	10	W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	N. W.	0.2
	11	W. S. W.	0.2	—	0.0	W. S. W.	0.2	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	N. by W.	0.2	N. N. W.	0.2	W. by S.	0.2	—	0.0	—	0.0	W. by N.	0.2
	14	—	0.0	E. by S.	0.2	N. E. by N.	0.2	N.	0.2	—	0.0	—	0.0
	15	—	0.0	—	0.0	N. E.	0.2	—	0.0	—	0.0	—	0.0
	16	E. N. E.	1.0	E. N. E.	1.0	E. N. E.	1.0	N. by E.	1.0	E. by N.	1.0	E. by N.	1.0
	17	E. N. E.	1.5	N.	2.0	E. N. E.	2.0	N. N. W.	2.5	N. N. W.	2.0	N. by W.	2.0
	18	N. by W.	0.5	N. by W.	0.5	N.	0.2	N.	0.2	—	0.0	—	0.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	N. E.	0.2	N. E. by N.	0.2	N. E. by N.	0.2	—	0.0	—	0.0	—	0.0
	21	—	0.0	N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0
	22	—	0.0	—	0.0	N. E.	0.2	—	0.0	—	0.0	N. E.	0.2
	23	E.	1.0	E. N. E.	1.0	E. N. E.	0.2	E. by S.	0.2	S. E.	0.2	S. S. E.	0.2
	24	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N.	0.5	N.	0.5
	25	N. N. W.	4.0	N. by W.	3.5	N. by W.	5.0	N. by W.	5.0	N. by W.	4.0	N. by W.	3.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	28	—	0.0	W. by S.	0.2	W.	1.0	—	0.0	—	0.0	W. by S.	0.2
	29	W.	1.5	W.	1.5	W. N. W.	2.0	W. N. W.	2.0	W. N. W.	1.5	W.	1.0
	30	N. by E.	0.2	W.	0.2	W.	0.2	W. by N.	0.2	W.	0.2	W.	0.5
31	N. W. by N.	0.5	N.	0.2	N. by W.	0.5	—	0.0	—	0.0	—	0.0	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
W.	2.0	N. N. W.	2.0	N. N. W.	1.0	N. W.	2.5	N. W.	2.0	N. W.	2.5	1
S. E. by S.	0.2	E. S. E.	0.5	E. S. E.	0.5	E. by S.	0.2	E.	0.2	—	0.0	2
E.	0.5	E.	0.5	E.	0.2	E. by S.	0.2	—	0.0	—	0.0	3
S. W.	2.0	W. S. W.	2.5	W. S. W.	3.0	W. S. W.	2.5	W. S. W.	0.5	S. W.	0.5	4
—	—	—	—	—	—	—	—	—	—	—	—	5
N. by E.	0.2	N. by E.	0.2	E. by N.	1.0	E. N. E.	2.0	E. N. E.	2.0	E. N. E.	2.0	6
N. W.	0.2	W. N. W.	0.2	—	0.0	—	0.0	W. by S.	0.2	W. by N.	0.2	7
W.	2.5	W.	1.5	W.	0.5	W. S. W.	0.2	W. S. W.	0.2	W. S. W.	0.2	8
S. W. by W.	3.0	S. W.	0.5	S. S. W.	0.2	S. W. by S.	2.5	S. W. by W.	1.0	W. N. W.	1.0	9
W. by N.	0.2	W.	1.0	W.	0.5	W.	0.5	W.	0.5	—	0.0	10
N. N. W.	0.2	—	0.0	W. S. W.	0.2	—	0.0	—	0.0	—	0.0	11
—	—	—	—	—	—	—	—	—	—	—	—	12
N. by E.	1.0	N. E. by E.	0.5	N. E. by E.	0.2	N. E.	0.5	N. E.	0.2	N. N. W.	0.2	13
N.	0.2	N.	0.2	N. E.	0.2	N. E.	0.2	E. by N.	0.2	—	0.0	14
N. E.	0.2	N.	0.2	N.	0.2	—	0.0	—	0.0	—	0.0	15
E. N. E.	1.0	E. N. E.	1.0	E. by N.	1.0	E. N. E.	1.0	E.	1.0	E. by N.	1.0	16
N. N. E.	0.2	N. N. E.	0.2	N. by E.	0.2	N.	0.2	N. N. E.	0.5	N. N. E.	1.0	17
N. by E.	0.5	N. by W.	0.5	N.	1.0	N. by W.	1.0	N. N. W.	0.5	N.	0.5	18
—	—	—	—	—	—	—	—	—	—	—	—	19
N. by E.	0.2	—	0.0	N. N. E.	0.2	E. by N.	0.2	N. E.	0.2	N. E.	0.2	20
N. by W.	0.2	N. by W.	0.2	—	0.0	S. E. by S.	0.2	—	0.0	—	0.0	21
N.	0.2	N.	0.2	N.	0.2	N.	0.2	—	0.0	—	0.0	22
E. N. E.	1.0	E.	2.5	E.	2.5	E. N. E.	1.0	E.	1.0	E.	1.0	23
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. by E.	0.2	24
N. by W.	4.0	N.	4.0	N.	3.0	N. by W.	2.5	N. N. W.	3.5	N. N. W.	4.0	25
—	—	—	—	—	—	—	—	—	—	—	—	26
E. by S.	0.2	E. by S.	0.2	E.	0.2	E. by S.	0.2	E. by N.	0.2	—	0.0	27
—	0.0	—	0.0	—	0.0	W. S. W.	0.2	W. S. W.	0.2	W. N. W.	0.2	28
N. W.	3.5	W. by N.	3.5	N. W. by W.	2.5	W. by N.	2.5	W. by N.	2.5	W. N. W.	1.0	29
—	0.0	S. W. by S.	0.2	—	0.0	—	0.0	—	0.0	E. by N.	0.2	30
N. E.	0.5	N. N. E.	1.5	N. N. W.	2.0	N. N. W.	1.5	N. N. W.	2.5	N. N. W.	1.0	31

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	1
E.	1.5	E.	2.5	E.	2.0	E.	2.5	E.	3.0	E.	3.0	2
W. by S.	0.5	W. by S.	0.5	W. by S.	1.5	W. by S.	1.0	W. by S.	1.0	W. by S.	2.5	3
—	—	—	—	—	—	—	—	—	—	—	—	4
N. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	N. by E.	0.2	N. by E.	0.2	5
N. by E.	1.5	N. by E.	1.0	N. E.	1.0	N. N. E.	1.0	N. N. E.	1.0	N. N. E.	1.5	6
W. S. W.	0.5	—	0.0	—	0.0	W. S. W.	0.2	S. W.	1.5	—	0.0	7
S. by W.	1.0	S.	0.5	S.	0.5	S. W. by S.	0.5	S. W. by S.	0.2	S. W. by W.	2.0	8
W. S. W.	1.0	W. S. W.	1.0	W. S. W.	0.2	—	0.0	—	0.0	W. S. W.	0.2	9
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	10
—	—	—	—	—	—	—	—	—	—	—	—	11
N. E.	0.5	N. E.	0.5	N. E. by E.	0.5	E. N. E.	1.5	N. E. by E.	2.5	S. S. E.	3.5	12
—	0.0	—	0.0	—	0.0	—	0.0	N. by E.	0.2	—	0.0	13
N. by E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	14
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	E. by N.	0.5	15
E. by N.	1.0	E. N. E.	1.0	E. by N.	1.0	E. by N.	1.0	E. N. E.	1.0	E. by N.	1.0	16
N. by W.	1.8	N. N. W.	3.0	N. W. by N.	3.0	N. by E.	2.0	N. W. by N.	0.5	N. W. by N.	0.5	17
—	—	—	—	—	—	—	—	—	—	—	—	18
N. by E.	0.2	—	0.0	—	0.0	—	0.0	N. by E.	0.2	—	0.0	19
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21
N. E.	0.2	N. E.	0.2	N. E.	0.2	N. E.	0.2	N. E.	0.2	—	0.0	22
S.	0.2	S. by E.	0.5	S. by E.	0.5	S. E. by E.	0.2	E. S. E.	0.2	—	0.0	23
N.	0.5	N.	0.5	N. by E.	0.5	N. by E.	2.0	N.	4.0	N. by W.	5.0	24
—	—	—	—	—	—	—	—	—	—	—	—	25
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	26
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	27
W. by S.	2.5	W. by S.	1.5	W. by S.	3.0	W. by S.	3.0	W. by S.	2.5	W.	2.5	28
W. by S.	1.0	W.	0.5	W.	0.2	W. N. W.	1.0	N. W. by N.	1.5	W. N. W.	1.0	29
W.	0.5	N. W.	0.2	—	0.0	W. N. W.	0.2	W. N. W.	1.0	N. W.	0.2	30
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	31

JANUARY.

JANUARY.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
FEBRUARY.	1	—	0.0	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	N.	0.2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	N. E.	0.2	N. E.	1.0	E. N. E.	0.5	E. by S.	0.5	E. N. E.	0.5	S. E. by S.	0.5
	4	E.	4.0	E. S. E.	3.5	E.	4.0	S. E.	5.0	S. E.	4.0	S. E.	3.5
	5	N.	6.0	N. N. W.	10.0	N. N. W.	12.0	N. by W.	10.0	N. by W.	8.0	N. by W.	10.0
	6	N.	3.0	N.	2.5	N.	3.0	N. N. W.	2.5	N. N. W.	1.0	—	0.0
	7	N. W. by W.	2.0	N. W. by W.	1.5	N. W. by W.	1.0	W. N. W.	1.0	N. W.	0.5	W. N. W.	0.5
	8	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	0.0	—	0.0	—	0.0	—	0.0	S. W.	0.2	S. S. W.	0.2
	11	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	12	N. W. by N.	0.2	N. W. by N.	0.5	W. N. W.	1.0	N. W. by W.	0.5	N. N. W.	2.0	N. N. W.	3.5
	13	—	0.0	—	0.0	—	0.0	N. by W.	0.2	N. by W.	0.2	N. E.	0.2
	14	E. N. E.	2.5	E. N. E.	2.5	E. by N.	2.5	E. by S.	2.5	E. by N.	2.5	E. by N.	2.5
	15	E. by N.	0.2	E.	0.2	E.	0.5	E.	0.2	E.	0.2	E.	0.2
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	—	0.0	—	0.0	W. S. W.	0.2	—	0.0	W. by N.	0.2	W. by N.	0.2
	18	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	19	—	0.0	—	0.0	—	0.0	—	0.0	E. N. E.	0.2	E.	0.2
	20	—	0.0	—	0.0	N. E. by E.	0.2	—	0.0	—	0.0	E.	0.5
	21	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	22	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	W. by S.	0.2	W. S. W.	0.2	—	0.0	S. W. by S.	0.2	S. W. by S.	0.2	S. W. by S.	1.0
	25	—	0.0	—	0.0	—	0.0	S. by W.	0.5	S. W.	0.5	S. S. W.	0.5
	26	W. S. W.	0.2	W. by S.	0.2	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	1.0	W. by N.	1.0
	27	—	0.0	—	0.0	N. N. W.	0.2	N. N. W.	0.2	S. S. W.	0.2	S. S. W.	0.2
	28	W. N. W.	0.5	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.5	W. N. W.	0.2	S. by W.	0.5
FEBRUARY.	1	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	E. S. E.	12.0	E.	2.0	E.	8.0	E.	4.0	E. by S.	4.0	E.	4.0
	4	N. by E.	2.0	N. N. E.	1.0	N. N. E.	1.0	N. N. E.	1.5	N. by E.	2.0	N.	1.5
	5	N. N. W.	8.0	N. N. W.	6.0	N. N. W.	6.0	N. N. W.	6.0	N. N. W.	4.0	N. N. W.	5.5
	6	N. W. by N.	1.0	N. W. by N.	2.0	N. W.	2.5	N. N. W.	2.5	N. N. W.	2.0	N. N. W.	4.0
	7	—	0.0	N. N. W.	0.5	N. N. W.	0.2	—	0.0	—	0.0	—	0.0
	8	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	0.0	—	0.0	—	0.0	N. E.	0.2	N. E. by N.	0.2	N. E. by N.	0.2
	11	E. by N.	0.2	E. by N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0
	12	N. N. W.	1.0	N. W. by N.	1.0	N. W.	0.5	N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5
	13	N. E.	0.2	N. E.	0.2	N. E.	0.2	N. E.	0.2	N. E.	0.2	S. S. E.	2.0
	14	E. by S.	3.0	E.	2.5	E.	2.0	E.	2.0	E.	2.0	E. by S.	1.0
	15	—	0.0	—	0.0	—	0.0	W. S. W.	0.2	W. S. W.	0.2	W.	0.2
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	W. by N.	0.2	W. N. W.	0.2	W. N. W.	0.2	N. W.	0.5	N. W.	0.2	—	0.0
	18	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	19	—	0.0	—	0.0	—	0.0	E.	0.2	N. E. by E.	0.2	N. E. by E.	0.2
	20	—	0.0	N. E. by E.	0.2	N. E. by E.	0.2	N. E.	0.2	—	0.0	—	0.0
	21	—	0.0	W. N. W.	2.5	W. N. W.	0.5	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2
	22	E. N. E.	0.5	E. by N.	1.5	E. by N.	2.5	N. E.	3.0	E. N. E.	2.0	E. N. E.	1.5
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	S. W.	0.5	S. W.	0.5	S. W.	0.2	—	0.0	—	0.0	—	0.0
	25	—	0.0	—	0.0	—	0.0	—	0.0	W.	1.5	W.	1.0
	26	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	27	N.	1.0	N. by W.	1.0	N. N. W.	1.5	N. N. W.	2.0	N. N. W.	2.5	N. W.	0.5
	28	S. S. E.	0.5	S. by E.	0.5	S. by E.	0.5	S. by E.	1.0	S. S. E.	1.0	S. E.	1.0

DIRECTION AND FORCE OF THE WIND.												
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
N. by W.	0.2	N. by E.	0.2	N. E. by E.	0.2	S. by W.	0.2	S. by W.	0.2	—	0.0	1
—	—	—	—	—	—	—	—	—	—	—	—	2
E.	0.5	S. E.	0.5	S. E.	1.5	S. E.	2.0	S. E.	4.0	E. by S.	4.0	3
E. N. E.	3.0	N. E.	2.5	N. E.	4.0	N. E.	4.0	N. E.	3.0	N. E.	2.5	4
N. by W.	12.0	N. by W.	11.0	N. W. by N.	8.0	N. W. by N.	11.0	N. by W.	10.0	N. N. W.	10.0	5
—	0.0	N. W.	3.0	N. W.	3.5	N. W.	3.5	N. W.	4.0	N. W.	2.5	6
W. N. W.	0.5	N. W.	0.5	N. W.	2.0	N. W.	2.0	N. W. by W.	0.2	—	0.0	7
N. W. by N.	0.2	N. W. by N.	0.2	S. S. W.	0.2	S. S. W.	0.2	E. N. E.	0.2	—	0.0	8
—	—	—	—	—	—	—	—	—	—	—	—	9
S. S. W.	0.2	S. S. W.	0.2	—	0.0	—	0.0	S. E.	0.2	—	0.0	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	E. by N.	0.2	11
N. N. W.	3.5	N. N. W.	2.0	N. W. by N.	1.5	N. N. W.	3.0	N. N. W.	1.5	N. N. W.	2.5	12
E.	0.2	E. N. E.	0.5	N. E.	0.2	N. E. by N.	0.2	N. E.	0.2	N. E.	0.2	13
E. by N.	2.5	E.	2.0	E.	3.0	E.	3.0	E.	2.0	E.	2.5	14
E. N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15
—	—	—	—	—	—	—	—	—	—	—	—	16
—	0.0	—	0.0	W.	0.2	W. by N.	0.2	—	0.0	—	0.0	17
—	0.0	S. by W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S.	0.2	—	0.0	18
E. by S.	0.2	E. by S.	0.2	E. N. E.	0.2	N. E. by E.	0.2	E. N. E.	0.2	E. N. E.	0.2	19
E. by S.	0.2	E. by S.	0.2	N. E.	0.2	E. by N.	0.2	E. N. E.	0.2	N. E.	0.2	20
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21
—	0.0	—	0.0	—	0.0	E.	0.2	E. N. E.	0.2	E. N. E.	0.5	22
—	—	—	—	—	—	—	—	—	—	—	—	23
S. S. W.	1.0	S. S. W.	1.0	S. S. W.	0.5	S. S. W.	0.5	S. W.	2.0	S. W.	1.0	24
S. W. by S.	0.5	S. by W.	0.5	S. S. W.	0.5	S. W. by S.	0.5	S. W.	0.2	—	0.0	25
W. S. W.	1.0	W. S. W.	2.0	W. S. W.	0.5	W. S. W.	0.5	W. S. W.	0.2	W. by S.	0.2	26
S. by W.	0.2	S. by W.	0.2	S.	0.2	—	0.0	N. by W.	0.5	N. N. W.	0.5	27
S. by W.	0.5	S. by W.	0.5	S. by W.	0.5	S. S. E.	0.2	S. E.	0.5	S. E.	0.5	28

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		Mean Göttingen Time.
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
—	—	—	—	—	—	—	—	—	—	—	—	1
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. E.	0.2	2
E.	5.0	E. S. E.	6.0	E. by S.	6.0	E. by S.	6.0	E. by S.	7.0	E. by S.	6.0	3
N.	2.5	N.	2.5	N. by E.	3.5	N.	3.0	N.	3.0	N.	6.0	4
N. W.	4.0	N. W.	3.5	N. W.	3.5	N. W.	3.5	N. W.	3.0	N. W.	3.0	5
N. N. W.	3.5	N.	2.5	N. W.	2.5	N. W.	2.5	N. W.	2.5	N. W. by W.	3.5	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
—	—	—	—	—	—	—	—	—	—	—	—	8
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9
N. N. E.	0.2	N. E. by N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
N. by W.	0.5	N. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	12
N. E. by E.	2.0	N. E. by E.	1.0	N. E.	1.0	N. E.	1.5	N. E. by E.	1.0	N. E. by E.	1.0	13
E.	1.0	E.	1.0	E.	0.5	E.	0.5	E.	0.5	E. N. E.	0.2	14
—	—	—	—	—	—	—	—	—	—	—	—	15
—	0.0	—	0.0	—	0.0	W.	0.2	—	0.0	—	0.0	16
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. E.	0.2	19
—	0.0	E. N. E.	0.2	N. N. W.	0.2	—	0.0	—	0.0	—	0.0	20
W. N. W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21
—	—	—	—	—	—	—	—	—	—	—	—	22
W. S. W.	0.5	W. S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	23
W. S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24
W. by N.	0.5	W. by S.	0.5	W. by N.	0.2	W. by S.	1.0	W. S. W.	0.2	W. S. W.	0.2	25
—	0.0	W.	0.2	—	0.0	—	0.0	N. W.	0.2	—	0.0	26
N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W.	0.5	W. N. W.	0.5	W. N. W.	0.5	27
S. E.	0.5	S. E.	0.5	S. E.	0.2	—	0.0	—	0.0	—	0.0	28



DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
MARCH.	1	—	lbs. 0·0	—	0·0	—	0·0	W. by S.	0·5	N. W.	lbs. 1·5	W. N. W.	lbs. 1·5
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	—	0·0	W. by N.	2·0	W. N. W.	3·5	N. W. by W.	3·0	W. by N.	3·5	W. N. W.	3·5
	4	W. S. W.	0·2	S. W.	0·2	S. W. by W.	0·2	—	0·0	S. W. by S.	0·2	S. S. W.	0·2
	5	N. E.	0·5	N. N. E.	0·5	N. by W.	0·5	N. by W.	1·0	N. by W.	1·5	N. by W.	1·5
	6	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·2	S. E. by S.	0·2
	7	—	0·0	E.	0·2	E. N. E.	0·2	E.	0·2	E.	0·5	E. S. E.	0·5
	8	—	0·0	—	0·0	—	0·0	—	0·0	W.	0·2	W.	0·5
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	—	0·0	N. by E.	0·2	N. by E.	0·2	E. N. E.	0·2	E. N. E.	0·5	N. N. E.	0·2
	11	N. by W.	0·2	N. by W.	0·2	N.	0·2	E. N. E.	0·2	E. S. E.	0·5	S. E.	0·5
	12	S. S. W.	0·5	S. S. W.	0·2	S. W.	0·5	S. W. by S.	1·0	S. W.	1·0	S. by W.	1·0
	13	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	E. S. E.	0·2
	14	—	0·0	—	0·0	E. by N.	0·2	E. by N.	0·2	E.	0·2	E.	0·2
	15	W. by N.	2·0	W.	1·5	W. by N.	1·0	W. by S.	3·5	W. by S.	3·5	W. by S.	3·5
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	N. by E.	0·2	N. N. E.	0·2	—	0·0	N. by E.	0·2	N. by W.	0·2	N. by W.	0·2
	18	W. N. W.	0·2	W. N. W.	0·2	W. N. W.	0·2	W. by N.	1·0	W. by N.	1·0	W. N. W.	2·5
	19	—	0·0	W. by S.	0·2	W. by S.	1·0	W. N. W.	2·5	W.	1·0	W. N. W.	1·5
	20	W. N. W.	1·5	W.	0·5	W.	2·5	W. by N.	1·5	W.	2·5	W. by N.	2·5
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0·0	—	0·0	—	0·0	—	0·0	S. S. W.	0·2	S. S. W.	0·2
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	W. by N.	0·5	W. by N.	0·5	W.	0·5	W.	0·2	W.	0·5	N. W. by W.	0·5
	25	—	0·0	—	0·0	—	0·0	S. W.	0·2	S. W.	0·5	S. S. W.	0·5
	26	S. W.	0·2	S. S. W.	0·2	S. S. W.	0·2	S. W. by S.	0·5	S. by W.	0·5	S.	0·5
	27	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. E.	0·2
	28	—	0·0	—	0·0	—	0·0	—	0·0	N. by W.	0·2	S. E. by E.	0·2
	29	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. S. E.	0·2
	30	—	—	—	—	—	—	—	—	S. W. by S.	—	—	—
	31	—	0·0	—	0·0	—	0·0	S. by W.	0·2	—	0·0	S. by W.	0·2
MARCH.	1	E. by N.	0·2	E. by N.	0·2	E. by N.	0·2	E. by N.	0·2	E. by N.	0·2	E. by N.	0·2
	2	—	—	—	—	—	—	—	—	—	—	—	—
	3	—	0·0	—	0·0	—	0·0	—	0·0	S. E. by S.	0·2	—	0·0
	4	N. E. by E.	0·2	N. E. by E.	0·2	N. E.	0·5	E. N. E.	0·5	E. by N.	0·5	N. E.	0·2
	5	N. W.	3·0	W. by N.	2·0	W. by N.	0·5	W.	0·5	W. by S.	0·5	W. S. W.	0·5
	6	E. by N.	0·5	E. by N.	0·5	E. by N.	0·5	E. by N.	0·5	N. E. by E.	0·5	E. N. E.	0·5
	7	N. E. by E.	0·2	E. N. E.	0·2	N. E. by E.	0·2	—	0·0	—	0·0	—	0·0
	8	W.	0·2	W.	0·2	W.	0·2	N. W.	0·2	N. W.	0·2	N. W.	0·2
	9	—	—	—	—	—	—	—	—	—	—	—	—
	10	N. E.	0·2	—	0·0	N. E.	0·2	E.	0·5	N.	0·2	N. by W.	0·2
	11	S. S. E.	0·2	S.	0·5	S. by W.	0·5	S. S. W.	0·2	S. W. by S.	0·2	S. W. by W.	0·2
	12	S. S. W.	0·2	—	0·0	S. W.	0·2	N.	0·2	—	0·0	N. E. by N.	0·2
	13	E. by N.	0·5	E. by S.	0·2	E. N. E.	0·2	—	0·0	—	0·0	—	0·0
	14	W. N. W.	4·0	W. N. W.	3·5	W. N. W.	3·0	W. by N.	4·0	W. N. W.	4·0	W.	2·5
	15	W. by N.	1·0	N. by W.	0·2	W. N. W.	0·2	N. W.	1·0	N. by W.	2·0	N. by W.	1·5
	16	—	—	—	—	—	—	—	—	—	—	—	—
	17	W. by N.	0·5	W. N. W.	1·0	W. N. W.	0·5	W. N. W.	0·5	W.	0·5	W. by S.	0·5
	18	W. N. W.	3·0	W. N. W.	1·5	W.	1·0	W. by S.	0·5	W.	0·2	W. S. W.	0·5
	19	N. N. W.	1·5	N. W.	2·5	W. N. W.	4·0	W. by N.	2·0	W. by S.	1·5	W. by S.	1·5
	20	N. W.	2·0	W. N. W.	1·0	W. N. W.	1·0	N. W. by W.	0·2	W. N. W.	0·5	N. N. W.	1·0
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	S. S. W.	1·5	S. W.	1·0	S. W. by W.	0·5	W.	0·2	—	0·0	—	0·0
	23	—	—	—	—	—	—	—	—	—	—	—	—
	24	N. W. by N.	0·2	N. W. by N.	0·2	N. W.	0·2	N. W.	0·2	—	0·0	—	0·0
	25	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	26	S. W. by S.	0·5	S. W. by S.	0·5	S. W.	0·5	S. W.	0·5	S. W. by W.	2·5	S. W.	1·5
	27	E. N. E.	0·2	E. N. E.	0·2	—	0·0	N.	0·2	N. W.	0·2	—	0·0
	28	E. N. E.	0·2	E. N. E.	0·2	N. E.	0·5	N. E.	0·5	N. E.	0·2	E. N. E.	0·2
	29	S. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	30	—	—	—	—	—	—	—	—	—	—	—	—
	31	S. by E.	1·0	S. by E.	1·0	S. by E.	2·0	E.	0·5	S. by E.	0·5	S. E. by S.	0·2



DIRECTION AND FORCE OF THE WIND.														
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .			
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
		lbs.		lbs.		lbs.		lbs.		lbs.		lbs.		
APRIL.	1	W. S. W.	3.5	W. by N.	3.5	W.	4.0	W. S. W.	2.5	W. S. W.	3.5	W. N. W.	2.5	
	2	S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	S. W.	2.5	S. W.	5.0	W. S. W.	6.5	
	3	N. W.	1.5	N. W.	1.0	N. W.	1.0	N.W. by W.	2.0	W. by S.	1.0	W. by N.	1.0	
	4	W. N. W.	3.5	W. by N.	4.0	W.	5.0	W. N. W.	4.0	W.	4.5	W.	4.0	
	5	—	0.0	W. by N.	0.2	W. by S.	0.2	S. W.	1.0	W.	2.0	W. S. W.	2.5	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. by W.	0.2	
	8	N.W. by N.	0.5	N. N. W.	2.0	N. W. by N.	3.5	N. N. W.	4.5	N. N. W.	4.0	N. N. W.	4.5	4.5
	9	—	0.0	—	0.0	W. by N.	0.2	S. by E.	0.2	S. by W.	0.0	S. by W.	0.2	
	10	—	0.0	W.	0.2	W. N. W.	0.5	W. N. W.	5.0	W. N. W.	4.0	W. N. W.	3.5	
	11	N. W.	1.0	N. W.	2.5	N. N. W.	2.5	N. W.	2.5	N. W.	3.5	N. W.	2.5	
	12	—	0.0	—	0.0	W. N. W.	0.2	N. W.	0.2	S. E. by S.	0.2	S. S. W.	0.2	
	13	—	—	—	—	—	—	—	—	—	—	—	—	
	14	N.W. by W.	0.5	W. N. W.	0.2	W. N. W.	0.2	W.	0.2	W.	1.5	W. by N.	1.0	
	15	—	0.0	—	0.0	N. by W.	0.2	—	0.0	S.	0.2	S.	0.2	
	16	N. E.	2.0	N. E.	3.5	N. E.	3.0	E. N. E.	4.0	N. E.	5.0	E. N. E.	4.5	
	17	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	1.0	E.	1.0	
	18	E. N. E.	1.5	E. N. E.	1.0	E. N. E.	1.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	1.0	
	19	E. S. E.	0.2	E. by N.	0.2	E. N. E.	0.2	E. N. E.	0.2	E. N. E.	0.2	E. N. E.	0.2	
	20	—	—	—	—	—	—	—	—	—	—	—	—	
	21	—	0.0	—	0.0	E.	0.2	—	0.0	—	0.0	S. E. by E.	0.2	
	22	—	0.0	E.	0.5	E.	0.5	E.	0.5	E. by S.	0.5	E.	1.0	
	23	—	0.0	—	0.0	E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E.	0.2	
	24	S. W.	0.2	—	0.0	—	0.0	S. by W.	0.2	S. S. W.	0.5	S. S. E.	0.5	
	25	N. E.	2.5	N. E.	3.0	E. N. E.	2.5	E. N. E.	2.5	E. N. E.	2.5	E. N. E.	1.5	
	26	—	0.0	—	0.0	—	0.0	E. by S.	0.2	E. S. E.	0.2	E. by S.	0.2	
	27	—	—	—	—	—	—	—	—	—	—	—	—	
	28	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	
	29	N. N. E.	0.2	N. E. by E.	0.2	E. N. E.	0.5	E.	0.5	E.	0.5	S.	0.5	
	30	N. N. E.	0.5	N. E.	0.5	N. E. by E.	0.5	E. by N.	0.2	E.	0.5	E.	0.5	
APRIL.		12 <sup>h</sup> .		13 <sup>h</sup> .		14 <sup>h</sup> .		15 <sup>h</sup> .		16 <sup>h</sup> .		17 <sup>h</sup> .		
	1	W. by N.	0.2	W. by N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	
	2	W.	3.0	W.	1.0	W.	0.2	—	0.0	—	0.0	W. by N.	3.5	
	3	S. S. E.	1.0	S. S. E.	1.0	S. E.	0.5	E.	0.5	E. by N.	1.0	E. S. E.	3.0	
	4	W. N. W.	2.5	W. N. W.	2.5	N.W. by W.	1.5	N. W.	0.2	N. W.	0.2	N. W.	0.2	
	5	N. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	
	6	—	—	—	—	—	—	—	—	—	—	—	—	
	7	N.W. by W.	2.0	N. W.	2.5	—	0.0	—	0.0	—	0.0	W. N. W.	0.5	
	8	N. W.	1.0	N. N. W.	1.0	W. N. W.	1.5	W. N. W.	1.0	W. by N.	1.0	W. by N.	0.5	
	9	S. S. W.	1.0	S. S. W.	1.0	S. S. W.	2.5	S. by W.	2.5	S. by W.	0.5	S. S. W.	0.2	
	10	N.W. by W.	3.5	N. W.	3.5	N.W. by W.	3.5	N. W.	1.0	N. W.	0.5	—	0.0	
	11	N. N. W.	2.5	N. N. W.	0.5	N. N. W.	0.5	—	0.0	—	0.0	—	0.0	
	12	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	
	13	—	—	—	—	—	—	—	—	—	—	—	—	
	14	N. W.	1.0	—	0.0	—	0.0	N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2	
	15	S. E. by S.	0.2	E.	0.2	N. E.	0.2	—	0.0	—	0.0	N.E. by N.	0.2	
	16	E. N. E.	0.5	E. N. E.	2.5	E. N. E.	3.0	E. N. E.	3.0	E. N. E.	2.0	E. N. E.	1.0	
	17	E. N. E.	2.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	2.5	E. N. E.	2.5	E. N. E.	3.0	
	18	N. E.	0.5	N. E.	2.0	E. N. E.	1.0	E. N. E.	1.0	N. E.	0.5	N. E.	0.5	
	19	—	0.0	—	0.0	N.W. by W.	0.2	N.W. by W.	0.2	W. by N.	0.2	W. by N.	0.2	
	20	—	—	—	—	—	—	—	—	—	—	—	—	
	21	E. by S.	0.2	E.	0.2	E.	0.2	N. by W.	0.2	—	0.0	N. by E.	0.2	
	22	E. N. E.	0.2	E. N. E.	0.2	E.	0.2	E.	0.2	—	0.0	—	0.0	
	23	S. W.	1.5	N. W.	0.5	W.	1.0	S. S. E.	0.5	S. S. E.	0.2	S. S. E.	0.2	
	24	N. N. W.	1.0	N. by W.	0.2	—	0.0	N. N. W.	0.2	N.	0.2	N. E.	0.2	
	25	F. N. E.	0.5	N. E. by E.	2.0	S. E. by S.	0.2	E. by S.	0.5	E.	0.5	E.	0.5	
	26	E.	0.2	E. by N.	0.2	N. N. E.	0.5	N. by E.	0.2	N.	0.2	S. by W.	0.2	
	27	—	—	—	—	—	—	—	—	—	—	—	—	
	28	S. W. by W.	0.2	W. S. W.	0.2	W. S. W.	0.2	—	0.0	—	0.0	—	0.0	
	29	E. N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	E.	0.2	
30	N. by E.	0.2	N. by E.	0.2	W. N. W.	0.2	S.	0.5	W.	0.5	N.W. by W.	0.2		

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
W. by N.	2.5	W. by N.	2.5	W. by N.	3.5	W.	2.5	W. by N.	2.0	W.	2.0	1	
W. S. W.	5.0	W.	10.0	W. N. W.	10.0	W. by N.	9.0	W. by N.	8.0	W. N. W.	4.5	2	
N. W. by W.	0.5	S. S. E.	0.5	S. E. by S.	0.2	S. E. by E.	0.2	S. E. by S.	0.2	E. S. E.	0.5	3	
W. N. W.	4.5	W. N. W.	4.0	W. N. W.	6.5	W. N. W.	5.5	W. N. W.	3.5	W. N. W.	3.5	4	
W. by N.	3.0	N.	1.5	W. N. W.	2.5	N. by W.	3.5	N. N. W.	2.5	N. by W.	1.5	5	
—	—	—	—	—	—	—	—	—	—	—	—	6	
N. N. W.	0.2	W. S. W.	0.5	W. by N.	0.5	N. W.	0.2	W. S. W.	0.2	N. W.	2.0	7	
N. N. W.	4.5	N. N. W.	5.5	N. W.	4.0	N. W.	4.5	N. N. W.	5.5	N. N. W.	3.0	8	
E. S. E.	0.2	S. E. by S.	0.2	S. S. E.	0.2	S.	1.0	S. S. W.	2.5	S. S. W.	1.0	9	
N. W. by W.	3.5	N. W.	4.5	W. N. W.	4.0	W. N. W.	5.0	W. N. W.	4.0	N. W. by W.	3.5	10	
N. W.	2.5	N. W.	2.5	N. W.	3.0	N. N. W.	3.0	N. N. W.	2.5	N. N. W.	2.5	11	
S. by W.	0.5	S. by W.	0.2	S.	0.2	S.	0.2	S. by W.	0.2	—	0.0	12	
—	—	—	—	—	—	—	—	—	—	—	—	13	
S. by W.	0.5	S. by W.	0.5	S. by W.	1.0	S. S. W.	0.5	S. S. W.	0.5	N. W.	2.5	14	
S.	0.2	S. by W.	0.5	S. S. E.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	15	
N. E.	3.5	E. N. E.	3.5	E. N. E.	3.5	E. N. E.	3.0	E. N. E.	3.0	E. N. E.	3.0	16	
E. by N.	1.0	E.	1.0	E.	0.5	E. N. E.	1.0	E. N. E.	1.0	E. N. E.	0.5	17	
N. E. by E.	0.5	E. N. E.	1.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	E. N. E.	2.5	18	
E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19	
—	—	—	—	—	—	—	—	—	—	—	—	20	
S. E.	0.2	S. E. by S.	0.2	—	0.0	—	0.0	E. S. E.	0.2	E. S. E.	0.2	21	
E.	1.5	E. by N.	1.5	E.	1.5	E.	1.0	E.	1.0	E.	0.5	22	
E.	0.2	E.	0.2	E. by N.	0.2	N. E. by E.	0.5	E. N. E.	0.5	N. N. E.	0.5	23	
S. S. E.	0.2	S. S. E.	0.2	N. N. E.	0.2	N.	0.2	N. N. W.	0.5	N. N. W.	1.0	24	
E. N. E.	1.0	E.	0.5	N. E. by E.	2.5	E.	3.0	E.	0.5	W. by S.	3.0	25	
E. by S.	0.2	E.	0.5	E.	0.2	E. S. E.	1.0	E. by N.	0.5	E.	0.5	26	
—	—	—	—	—	—	—	—	—	—	—	—	27	
—	0.0	S.	0.2	S.	0.2	S.	0.2	S. by W.	0.2	—	0.0	28	
S.	0.5	S. E. by S.	0.5	S. by E.	0.5	S. S. E.	0.2	S. E.	0.2	S. W. by S.	0.2	29	
E.	0.5	N. N. E.	0.5	E.	0.5	E. N. E.	0.2	E. by N.	0.2	N. E.	0.2	30	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	0.0	E. by N.	0.2	—	0.0	—	0.0	S. E.	0.2	S. E.	0.2	1	
W. by N.	1.5	N. N. W.	3.5	N. W.	3.0	N. W.	3.5	N. W.	3.0	N. W.	3.0	2	
E. S. E.	3.0	E. S. E.	0.5	E. N. E.	0.5	—	0.0	W.	0.2	W. N. W.	2.5	3	
—	0.0	W. N. W.	1.0	W. N. W.	0.5	W. N. W.	0.5	W. N. W.	0.5	W. N. W.	0.2	4	
—	—	—	—	—	—	—	—	—	—	—	—	5	
—	0.0	—	0.0	—	0.0	—	0.0	N. W. by N.	0.5	N. N. W.	0.5	6	
W. N. W.	0.5	W. N. W.	0.5	W. N. W.	0.5	N. W.	1.5	N. W.	1.5	N. W. by N.	1.0	7	
W. by N.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	8	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9	
—	0.0	—	0.0	—	0.0	N. W.	2.0	N. W.	2.5	N. W.	2.5	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11	
—	—	—	—	—	—	—	—	—	—	—	—	12	
W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.5	N. W. by W.	0.5	N. W. by W.	0.5	13	
—	0.0	—	0.0	—	0.0	—	0.0	S. W. by S.	0.2	—	0.0	14	
E. N. E.	0.5	E. N. E.	0.5	E. N. E.	0.2	E. N. E.	2.0	E. N. E.	2.0	N. E.	3.0	15	
E. N. E.	1.0	N. E.	0.5	N. E.	0.5	N. E.	0.5	E. N. E.	0.5	E. N. E.	0.5	16	
E. N. E.	2.5	N. E.	2.0	E.	0.5	E. by N.	1.5	E. N. E.	0.5	E. N. E.	0.5	17	
N. E.	0.5	N. N. W.	0.5	N. N. E.	0.5	E.	0.5	E.	0.2	E.	0.2	18	
—	—	—	—	—	—	—	—	—	—	—	—	19	
—	0.0	N. by W.	0.2	N. W. by W.	0.2	N. W. by N.	0.2	N. by W.	0.5	—	0.0	20	
N. N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23	
W. N. W.	0.2	W. by N.	0.2	W. by N.	0.2	W. by N.	0.2	S. W.	0.2	S. W.	0.2	24	
N. E. by E.	0.2	E. N. E.	0.5	E. N. E.	1.0	E.	1.0	E. N. E.	3.0	N. E.	2.5	25	
E.	0.5	E. by N.	0.2	E.	0.2	E.	0.2	—	0.0	—	0.0	26	
—	—	—	—	—	—	—	—	—	—	—	—	27	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28	
—	0.0	N. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	29	
E.	0.2	E. by N.	0.5	E. by N.	0.5	N. E. by E.	0.2	N. E. by E.	0.2	E. N. E.	0.5	30	
W. by N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	30	

APRIL.

APRIL.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
MAY.	1	—	lbs.	—	lbs.	0.0	W.	0.2	lbs.	0.2	W.	0.2	
	2	W.	0.2	W.	1.0	W. N. W.	2.5	W. N. W.	2.5	W. N. W.	2.0	W.	0.5
	3	—	0.0	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.5	S. S. W.	1.0	S.	1.5
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	—	0.0	N. W.	1.0	N. W.	0.5	N. W. by N.	0.5	N. W. by W.	1.0	N. W. by W.	1.0
	6	—	0.0	—	0.0	S. S. W.	0.2	S. by W.	0.2	S. by E.	0.5	S.	0.5
	7	N. N. W.	1.0	N. N. W.	3.0	N. N. W.	3.5	N. W.	2.5	N. W.	3.0	N. W.	2.5
	8	—	0.0	—	0.0	N. W.	0.2	S. by E.	0.2	S. by W.	0.5	S. by W.	0.5
	9	E. by S.	0.2	N. N. E.	0.2	E.	0.2	E. S. E.	0.5	E. S. E.	0.5	E. by S.	0.5
	10	E.	0.2	E.	0.2	E. S. E.	0.5	E. by S.	0.5	E. S. E.	0.5	S. E.	0.2
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	—	0.0	—	0.0	—	0.0	S.	0.2	S. S. W.	0.2	S. S. W.	0.5
	13	—	0.0	S. E. by S.	0.2	S. S. E.	0.2	—	0.0	S. by W.	0.2	S. by E.	0.2
	14	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	15	N. by W.	0.5	N. by W.	2.0	N. N. W.	2.5	N. N. W.	2.5	N. N. W.	2.5	N. N. W.	0.5
	16	N. by W.	0.2	N. E.	0.2	N.	0.2	N.	1.0	S. by E.	0.2	S. by W.	0.2
	17	N. N. W.	0.2	N.	0.2	N. N. W.	0.2	S. by W.	0.2	S. S. E.	0.2	S. E.	0.2
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	—	0.0	S. S. W.	0.2	S.	0.2	S. by E.	0.2	S.	0.5	S.	0.5
	20	W. N. W.	0.2	W. N. W.	0.5	W. N. W.	0.2	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5
	21	N. N. W.	0.2	—	0.0	W. by N.	0.2	W. N. W.	0.5	S. S. W.	0.5	S.	0.5
	22	—	0.0	—	0.0	N. E. by N.	0.2	N. by W.	0.2	N. E.	0.2	E. by S.	0.2
	23	N. W. by W.	0.2	W.	0.2	W. by S.	0.2	S. S. W.	0.2	S.	0.5	S. S. W.	0.2
	24	N. N. W.	0.5	N. W. by N.	2.0	N. W.	1.5	N. W.	2.0	N. W.	1.5	N. W.	1.5
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	W. S. W.	0.2	W. S. W.	0.5	W. S. W.	1.0	W. by S.	1.0	W. by S.	2.0	W. by S.	2.5
	27	—	0.0	—	0.0	—	0.0	—	0.0	S. by E.	0.2	S. by E.	0.2
	28	—	0.0	S. S. W.	0.2	S. S. W.	0.5	S. S. W.	1.0	S. by W.	1.0	S. W.	1.5
	29	N. N. W.	1.0	N. N. W.	2.5	N. N. W.	2.0	N. W.	1.5	N. W.	0.5	N. W.	0.5
	30	—	0.0	—	0.0	N. by E.	0.2	S. S. E.	0.2	S.	0.5	S.	0.5
	31	S. S. W.	0.2	S. S. W.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2
MAY.	1	N. N. W.	0.2	N. W.	0.5	N. N. W.	0.5	N.	0.5	N. by W.	0.5	N. N. W.	0.5
	2	W.	1.0	S. S. W.	0.5	S. S. W.	0.2	W.	0.2	W. by S.	0.2	W. S. W.	0.2
	3	S. W.	0.5	S. W. by W.	0.5	S. W.	0.2	—	0.0	—	0.0	—	0.0
	4	—	—	—	—	—	—	—	—	—	—	—	—
	5	S.	0.5	S. S. W.	0.2	W. N. W.	0.2	—	0.0	—	0.0	—	0.0
	6	—	0.0	N.	0.2	N. E.	0.2	—	0.0	—	0.0	—	0.0
	7	N. W.	2.5	N. W.	2.0	N. W.	2.5	N. W.	1.5	N. W. by N.	0.5	N. W. by N.	0.5
	8	S.	0.5	S.	0.5	S. S. W.	0.2	S. S. W.	0.2	—	0.0	—	0.0
	9	E.	0.2	E. N. E.	0.2	N. E. by N.	0.2	—	0.0	—	0.0	—	0.0
	10	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	11	—	—	—	—	—	—	—	—	—	—	—	—
	12	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	13	E.	0.2	E.	0.2	—	0.0	S.	0.2	—	0.0	—	0.0
	14	N. N. E.	0.2	N. W.	0.2	N. N. W.	0.5	N. E.	0.5	N. W.	0.5	N. N. W.	0.5
	15	N. N. W.	2.5	N. N. W.	1.5	N. W. by N.	1.0	N. N. W.	1.0	N. by W.	0.2	—	0.0
	16	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	17	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	18	—	—	—	—	—	—	—	—	—	—	—	—
	19	W. S. W.	0.5	S. W.	0.2	N. W.	1.5	N. N. W.	1.5	N. N. W.	0.5	N. W.	0.5
	20	N. W.	0.5	N. N. W.	0.5	N. N. W.	1.5	N. W. by N.	1.0	—	0.0	—	0.0
	21	S. E. by S.	0.2	N. E.	0.2	N. by E.	0.2	—	0.0	N.	0.2	N. by W.	0.2
	22	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	23	N. W.	0.5	N. N. W.	0.5	N. N. W.	1.0	N. N. W.	0.5	N. W. by N.	0.2	N. by W.	0.5
	24	N. W.	2.0	N. W.	2.0	N. W.	2.0	N. W.	1.5	N. W.	1.0	N. W.	0.5
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	W. N. W.	2.5	N. W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0
	27	S. W. by S.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	28	N. W.	0.5	N. W.	2.0	N. W.	3.0	N. W. by N.	3.5	N. W.	2.0	N. N. W.	3.0
	29	N. W.	1.5	N. W.	0.2	N. W.	0.5	N. W.	0.2	N. W.	0.5	N. W.	0.5
	30	S.	0.2	S. by W.	0.2	S.	0.2	S. by W.	0.2	—	0.0	—	0.0
	31	S. S. E.	0.5	S. S. E.	0.2	S. W.	0.2	—	0.0	—	0.0	—	0.0

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Wind.	Force.	Wind.	Force.	Wind.	Force.	Wind.	Force.	Wind.	Force.	Wind.	Force.	
Direction.	lbs.	Direction.	lbs.	Direction.	lbs.	Direction.	lbs.	Direction.	lbs.	Direction.	lbs.	
W.	1.0	W. N. W.	2.0	W. N. W.	2.5	W.	1.0	N. W.	0.2	N. by W.	0.5	1
W. by S.	2.0	W.	2.0	W. S. W.	2.5	S. W. by W.	2.0	W.	2.5	W.	2.0	2
S.	1.0	S. S. W.	1.0	S. S. W.	2.5	S. W. by S.	2.0	S. W. by S.	2.0	S. W.	1.0	3
—	—	—	—	—	—	—	—	—	—	—	—	4
S. S. W.	1.0	S. by W.	1.0	S.	1.5	S. by W.	1.0	S. S. W.	0.5	S.	1.0	5
S. E. by S.	0.5	S. E. by S.	0.2	S. E.	0.5	E. S. E.	0.2	E. S. E.	0.2	E.	0.2	6
N. W.!	2.5	N. W.	2.5	N. W.	2.0	N. W.	2.0	N. W.	2.0	N. W.	2.5	7
S. by W.	0.5	S. by E.	0.5	S. E. by S.	0.5	S. by E.	0.5	S.	0.5	S.	0.5	8
S. E.	0.5	S.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. S. E.	0.5	S. E. by E.	0.2	9
E. S. E.	0.5	E. S. E.	0.5	E. S. E.	0.5	S. E. by E.	0.5	E. by S.	0.5	—	0.0	10
—	—	—	—	—	—	—	—	—	—	—	—	11
S.	0.2	S.	0.2	S.	0.2	—	0.0	—	0.0	—	0.0	12
S. S. E.	0.2	—	0.0	E. by S.	0.2	E. by S.	0.2	E. S. E.	0.2	E.	0.2	13
N. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	14
N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	2.0	N. W.	2.0	N. N. W.	2.5	15
S. by W.	0.2	S. by W.	0.5	S. W.	0.2	S. by W.	0.2	S. S. W.	0.2	S. S. W.	0.2	16
S. by E.	0.2	—	0.0	—	0.0	S.	0.2	S.	0.2	—	0.0	17
—	—	—	—	—	—	—	—	—	—	—	—	18
S.	0.5	S. by E.	0.5	S. W.	2.0	S. by E.	2.5	S. W. by S.	2.0	S. W.	1.0	19
S.	0.5	S. by W.	0.5	S.	0.2	S.	0.2	—	0.0	S.	0.2	20
S.	0.5	S.	0.5	S.	0.5	S. by E.	0.2	S. by E.	0.2	S. S. E.	0.2	21
N. W.	0.2	N. by W.	0.2	N.	0.2	N. by E.	0.2	N. E. by E.	0.2	—	0.0	22
S. W. by S.	0.2	S.	0.5	S. by W.	0.5	S.	0.5	S.	0.2	S. W.	0.2	23
N. W.	1.0	N. W.	1.5	N. N. W.	3.0	N. N. W.	2.5	N. N. W.	2.0	N. N. W.	2.5	24
—	—	—	—	—	—	—	—	—	—	—	—	25
W.	2.5	W. N. W.	2.5	W.	3.5	W.	4.0	W. N. W.	4.0	W. N. W.	3.5	26
S.	0.5	S. by E.	1.0	S. by W.	0.5	S.	1.5	S.	2.0	S. W. by W.	0.5	27
S. S. W.	1.5	S. W.	0.5	S. S. W.	0.2	S. W.	0.5	W. S. W.	0.5	W. S. W.	0.2	28
N. W.	0.5	N. N. W.	1.0	N. N. W.	2.0	N. W.	2.5	N. W.	2.0	N. W.	2.0	29
S.	0.5	S.	1.0	S.	1.0	S.	0.5	S.	0.2	S.	0.2	30
S.	0.2	S.	0.2	S.	0.2	S.	0.2	S. S. E.	0.5	S. S. E.	0.5	31

MAY.

MAY.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
		lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
JUNE.	1	—	—	—	—	—	—	—	—	—	—	—	
	2	—	0·0	—	0·0	—	0·0	—	0·0	—	—	0·0	
	3	—	0·0	—	0·0	—	0·0	S. S. W.	0·2	S. S. W.	0·2	S. W. by S.	0·5
	4	—	0·0	N. N. E.	0·2	E. S. E.	0·2	E. by N.	0·2	S.	0·2	S. by W.	0·2
	5	W. N. W.	1·5	W.	1·0	W. by N.	1·5	W. N. W.	2·0	N. W.	2·0	N. W.	2·0
	6	—	0·0	—	0·0	—	0·0	—	0·0	S. by W.	0·2	—	0·0
	7	—	0·0	E. S. E.	0·2	—	0·0	N. E. by N.	0·5	N. E.	0·5	E.	0·5
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	—	0·0	S. W. by W.	1·0	W. S. W.	1·0	S. W. by W.	1·0	W.	1·5	W.	2·0
	10	—	0·0	N. W.	0·2	S.	0·2	S. by W.	0·5	S. S. W.	0·2	S. by W.	0·2
	11	N.	0·2	—	0·0	N. by W.	0·2	—	0·0	N. N. E.	0·2	E. by S.	0·2
	12	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S. by W.	0·2
	13	—	0·0	W.	0·2	W.	0·2	W. by S.	0·2	S. by W.	0·2	—	0·0
	14	—	0·0	—	0·0	N. W. by W.	0·5	N. N. W.	0·5	S. by W.	0·5	S. by W.	0·5
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	W. by N.	0·2	W. by N.	0·2	S. by W.	0·5	S. by W.	0·5	S.	0·5	S. by W.	0·2
	17	—	0·0	W.	0·5	W.	2·0	W. N. W.	3·0	W.	1·0	N. W.	1·0
	18	—	0·0	—	0·0	—	0·0	S. by W.	0·2	S. by W.	0·2	S. S. W.	0·2
	19	—	0·0	—	0·0	S. W.	0·2	S. W. by S.	0·2	S. W. by S.	0·2	S. W. by S.	0·2
	20	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2	S.	0·2
	21	N.	0·2	N. by W.	0·2	N. N. W.	0·2	N. N. W.	0·5	N. N. W.	0·5	N. by W.	0·2
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	—	0·0	—	0·0	—	0·0	—	0·0	S. by W.	0·2	S. S. W.	0·5
	24	—	0·0	—	0·0	S. S. W.	0·2	S. by W.	0·2	S. S. W.	0·2	S.	0·2
	25	—	0·0	N. E.	0·2	E.	0·2	E.	0·2	E.	0·2	S. by E.	0·2
	26	W.	0·2	W.	0·2	W.	0·2	S. W.	0·2	S. W.	0·2	S. by W.	0·2
	27	—	0·0	—	0·0	S. S. W.	0·2	S. S. W.	0·2	S. S. W.	0·2	S. S. W.	0·2
	28	N. W.	0·2	—	0·0	—	0·0	—	0·0	E. N. E.	0·2	—	0·0
	29	—	—	—	—	—	—	—	—	—	—	—	—
	30	N. by W.	0·2	N. by W.	0·2	N. N. E.	0·5	N. E.	0·5	E. N. E.	0·5	N. E. by E.	1·0
JUNE.		12 <sup>h</sup> .		13 <sup>h</sup> .		14 <sup>h</sup> .		15 <sup>h</sup> .		16 <sup>h</sup> .		17 <sup>h</sup> .	
	1	—	—	—	—	—	—	—	—	—	—	—	—
	2	S. S. W.	0·2	S. S. W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	3	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	4	E. by N.	0·5	E. by S.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	5	—	0·0	—	0·0	—	0·0	N. N. W.	0·2	N. N. W.	0·2	N. N. W.	0·2
	6	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	7	E. by S.	0·2	E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	8	—	—	—	—	—	—	—	—	—	—	—	—
	9	S. S. W.	0·5	S. S. W.	0·5	—	0·0	—	0·0	—	0·0	—	0·0
	10	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	11	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	12	S. W.	0·5	W. by S.	0·2	W. by S.	0·2	—	0·0	—	0·0	W. S. W.	0·2
	13	N. by E.	0·2	N. by E.	0·2	N.	0·2	—	0·0	—	0·0	—	0·0
	14	N. W.	1·0	N. W.	0·5	N. W.	0·2	—	0·0	—	0·0	—	0·0
	15	—	—	—	—	—	—	—	—	—	—	—	—
	16	S. W.	0·2	—	0·0	—	0·0	W. N. W.	1·5	N. W. by N.	1·5	N. N. W.	1·0
	17	W. N. W.	0·5	W.	0·2	—	0·0	W.	0·2	W.	0·2	W.	0·2
	18	S. W. by S.	0·2	W. S. W.	0·2	W. by S.	0·2	W.	0·2	—	0·0	—	0·0
	19	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	20	S. S. W.	0·5	S. S. W.	0·2	S. S. W.	0·2	—	0·0	W. S. W.	0·2	—	0·0
	21	N. N. W.	0·2	N. by W.	0·2	N. by W.	0·2	—	0·0	—	0·0	—	0·0
	22	—	—	—	—	—	—	—	—	—	—	—	—
	23	W. by N.	0·5	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	24	N. by W.	0·2	N. by W.	0·2	N. N. W.	0·5	N. by W.	0·5	N. N. W.	0·2	N. N. W.	0·2
	25	N.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	26	W. N. W.	0·2	N. by W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	27	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	28	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	29	—	—	—	—	—	—	—	—	—	—	—	—
30	E. by S.	0·5	E. by S.	0·2	E.	0·2	—	0·0	—	0·0	—	0·0	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.		
—	—	—	—	—	—	—	—	—	—	—	—	1	
E.	0.0	E.	0.2	E.	0.2	S. S. E.	0.2	S. S. W.	0.2	S. S. W.	0.2	2	
S. by W.	0.5	S.	1.0	S.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.2	3	
S. S. E.	0.2	E.	0.2	E.	0.2	E.	0.2	E. S. E.	0.2	E.	0.5	4	
N. W.	0.5	W. by N.	0.5	N. W. by N.	0.5	N. by W.	0.2	S. E.	0.2	S. E. by E.	0.2	5	
—	0.0	S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	6	
E. by S.	1.0	E. by S.	1.0	E. by S.	0.5	E.	0.5	E.	0.5	E. S. E.	0.2	7	
—	—	—	—	—	—	—	—	—	—	—	—	8	
W.	2.0	W. by N.	2.0	W.	2.5	W.	1.5	W. by S.	2.0	W. by S.	1.0	9	
S. E. by S.	0.2	—	0.0	S. S. E.	0.2	S.	0.2	S.	0.2	—	0.0	10	
E. by S.	0.2	S. S. E.	0.2	S.	0.2	S.	0.2	—	0.0	—	0.0	11	
—	0.0	—	0.0	—	0.0	N. W. by W.	1.5	W by S.	1.0	S. W.	0.5	12	
S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	W.	0.2	13	
W. N. W.	1.5	W. N. W.	2.5	W. by N.	2.0	N. N. W.	1.5	W. N. W.	1.5	W. N. W.	1.5	14	
—	—	—	—	—	—	—	—	—	—	—	—	15	
W.	0.5	W. by N.	0.5	S. W.	0.2	W.	0.2	W.	0.2	S. S. W.	0.5	16	
W. by N.	1.0	W. N. W.	1.5	N. W.	1.5	W.	1.5	W.	1.0	W. by N.	2.0	17	
S.	0.2	S. by W.	0.5	S.	0.5	S. by W.	0.5	S. by W.	0.2	S. by W.	0.2	18	
S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S. by W.	0.2	—	0.0	—	0.0	19	
S. S. W.	0.5	S. S. W.	0.5	S. S. W.	1.5	S. S. W.	1.5	S. S. W.	1.5	S. S. W.	1.0	20	
N. N. W.	0.2	N. W.	0.5	N. W.	0.2	N. by W.	0.2	N. by W.	0.2	N.	0.5	21	
—	—	—	—	—	—	—	—	—	—	—	—	22	
S. S. W.	0.5	W. by N.	0.5	W. by N.	0.5	N. W.	1.0	W. by N.	0.5	W. by S.	1.0	23	
S. S. E.	0.2	S. by W.	0.5	W. N. W.	0.5	N.	0.5	N.	0.2	S.	0.2	24	
S. by E.	0.2	S. by E.	0.2	S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	N.	0.2	25	
S. by W.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	—	0.0	26	
S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2	S.	0.2	—	0.0	—	0.0	27	
—	0.0	—	0.0	E. N. E.	0.2	N. by E.	0.2	—	0.0	—	0.0	28	
—	—	—	—	—	—	—	—	—	—	—	—	29	
E.	1.0	E.	1.0	E.	1.0	E.	0.5	E.	0.5	E. S. E.	0.5	30	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.		
—	—	—	—	—	—	—	—	—	—	—	—	1	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	2	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3	
S. W.	0.2	S. W.	0.2	S. W.	0.2	W. by N.	0.2	W. N. W.	2.0	W.	1.5	4	
—	0.0	—	0.0	N. W.	0.2	W.	0.2	—	0.0	—	0.0	5	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6	
—	—	—	—	—	—	—	—	—	—	—	—	7	
W. by S.	0.5	W. by N.	0.5	W. by N.	0.5	W.	0.2	W.	0.2	—	0.0	8	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	9	
—	0.0	N. N. W.	2.5	N.	2.5	N. N. W.	0.5	N. N. W.	0.2	N. by E.	0.2	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S.	0.2	11	
W.	0.2	—	0.0	W.	0.2	—	0.0	—	0.0	—	0.0	12	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	13	
—	—	—	—	—	—	—	—	—	—	—	—	14	
W.	0.2	W.	1.0	W. by N.	0.5	W.	0.2	W.	0.2	W. by N.	0.2	15	
W. N. W.	1.0	W. S. W.	0.5	W. S. W.	0.2	W. by S.	0.2	—	0.0	—	0.0	16	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17	
N. W. by N.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. by E.	0.2	20	
—	—	—	—	—	—	—	—	—	—	—	—	21	
N.	0.2	N.	0.2	N.	0.2	—	0.0	—	0.0	—	0.0	22	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23	
N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.5	—	0.0	—	0.0	—	0.0	24	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	W. by N.	0.2	25	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	26	
—	0.0	—	0.0	E.	0.2	E. N. E.	0.2	E. N. E.	0.2	N. N.	0.2	27	
—	—	—	—	—	—	—	—	—	—	—	—	28	
N. N. E.	0.2	—	0.0	—	0.0	N.	0.2	—	0.0	N.	0.2	29	
N. by E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	30	



DIRECTION AND FORCE OF THE WIND.												
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .	
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.	
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.
JULY.	1	—	lbs.	E.	lbs.	E. S. E.	lbs.	S. E.	lbs.	S. E. by E.	lbs.	S. by E.
	2	N. W.	0.5	N. W. by W.	0.5	W.	0.5	S. W.	0.5	S. W.	0.5	S.
	3	N. N. W.	0.2	N. W.	0.5	N. W. by W.	0.5	N. W.	0.2	W.	0.2	S.
	4	N. W.	0.5	N. W.	0.5	N. N. W.	0.5	N. W.	0.2	N. N. W.	0.2	N. W.
	5	—	0.0	—	0.0	—	0.0	S. S. W.	0.2	S. S. W.	0.2	S. S. W.
	6	—	—	—	—	—	—	—	—	—	—	—
	7	S. W.	0.2	S. W.	0.2	W. by N.	0.5	W.	0.2	W.	1.0	W.
	8	—	0.0	—	0.0	—	0.0	S. W. by S.	0.2	S. W. by S.	0.2	S. S. W.
	9	N. N. E.	0.2	N. E. by N.	0.2	E.	0.5	E.	0.5	E.	0.5	E.
	10	—	0.0	—	0.0	—	0.0	—	0.0	E.	0.2	E. S. E.
	11	—	0.0	—	0.0	—	0.0	—	0.0	S. S. W.	0.2	S. S. W.
	12	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. W.
	13	—	—	—	—	—	—	—	—	—	—	—
	14	—	0.0	—	0.0	—	0.0	W. by S.	0.2	S. S. W.	0.2	S. S. W.
	15	—	0.0	—	0.0	—	0.0	—	0.0	W.	0.2	S. S. W.
	16	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	17	S. S. W.	0.2	S. S. W.	0.2	W.	0.5	W. by S.	2.0	W.	1.5	W.
	18	—	0.0	—	0.0	N. W. by W.	0.2	N. by W.	0.5	N. W. by N.	1.0	N. N. W.
	19	—	0.0	E. by N.	0.2	—	0.0	E. N. E.	0.2	N. E.	0.5	N. E.
	20	—	—	—	—	—	—	—	—	—	—	—
	21	—	0.0	—	0.0	—	0.0	S. by W.	0.2	S. by E.	0.2	S. E. by S.
	22	W.	0.5	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	1.0	N. W. by W.	0.5	W. by N.
	23	N. N. W.	0.2	N. W.	0.5	N. N. W.	0.5	N. W. by N.	1.0	N. W. by W.	2.0	N. W. by W.
	24	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N.
	25	—	0.0	—	0.0	—	0.0	S. S. W.	0.2	S. S. W.	0.2	S. S. W.
	26	—	0.0	—	0.0	—	0.0	S. E.	0.2	—	0.0	—
	27	—	—	—	—	—	—	—	—	—	—	—
	28	—	0.0	N. W. by N.	0.2	N. W. by N.	0.5	N. N. W.	1.0	N. N. W.	1.0	N. W.
	29	—	0.0	—	0.0	—	0.0	E. by N.	0.5	E.	0.5	E.
	30	N. W.	1.0	N. N. W.	1.0	N. W.	1.0	N. N. W.	1.0	N. N. W.	0.5	N. N. W.
	31	—	0.0	—	0.0	—	0.0	S. by E.	0.2	S.	0.2	S. by W.
JULY.	1	S. E.	0.2	S. E.	0.5	E. S. E.	0.5	—	0.0	—	0.0	—
	2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	3	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. W. by N.	0.2	—
	4	—	0.0	—	0.0	—	0.0	N. by W.	0.2	—	0.0	—
	5	S. S. W.	1.0	S. W.	0.5	S. W.	0.5	—	0.0	—	0.0	—
	6	—	—	—	—	—	—	—	—	—	—	—
	7	N. N. W.	0.2	N. by W.	0.2	—	0.0	—	0.0	—	0.0	—
	8	N.	1.0	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.5	N. by W.	0.5	N.
	9	—	0.0	—	0.0	—	0.0	N. E. by N.	0.2	—	0.0	—
	10	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	N. N. E.	0.2	—
	11	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.5	—	0.0	—	0.0	—
	12	W.	0.5	W.	0.2	—	0.0	—	0.0	—	0.0	—
	13	—	—	—	—	—	—	—	—	—	—	—
	14	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	15	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	16	W.	0.2	—	0.0	S.	0.0	S.	0.2	—	0.2	E.
	17	W.	1.0	W. N. W.	0.5	W. N. W.	0.5	—	0.0	N. N. W.	0.5	N. W. by N.
	18	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	19	E.	0.2	E.	0.2	—	0.0	—	0.0	—	0.0	—
	20	—	—	—	—	—	—	—	—	—	—	—
	21	N. E.	0.5	—	0.0	—	0.0	—	0.0	N. W.	0.2	—
	22	N. W.	1.5	N. W.	1.5	N. W.	1.0	N. W.	0.5	N. W.	0.2	N. W.
	23	N. N. W.	1.5	—	0.0	—	0.0	N. W.	0.5	—	0.0	—
	24	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	25	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	26	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—
	27	—	—	—	—	—	—	—	—	—	—	—
	28	N. W. by N.	1.5	—	0.0	—	0.0	—	0.0	—	0.0	N. N. W.
	29	—	0.0	—	0.0	S. S. W.	0.2	—	0.0	S. W.	0.5	W. S. W.
	30	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5	N. N. W.	0.2	N. W.
	31	—	0.0	—	0.0	—	0.0	S. S. W.	0.2	—	0.0	—

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	JULY.	
E. by S.	0.5	E.	1.0	E.	1.0	E.	1.0	E.	0.5	S. E.	0.2		1
S. by W.	0.5	S. S. W.	0.5	S. S. W.	0.2	S. by W.	0.2	S. W.	0.2	—	0.0		2
S. by W.	0.5	S.	0.5	N. N. W.	0.2	N. N. W.	0.5	N. N. W.	0.2	N. N. W.	1.0		3
S. W.	0.2	S.	0.5	S. S. W.	0.5	S. by W.	0.5	S. by W.	0.2	S.	0.2		4
S. S. W.	0.5	S. by W.	0.5	S.	0.5	S.	0.2	S.	0.5	S. by W.	1.5		5
—	—	—	—	—	—	—	—	—	—	—	—		6
W. by N.	2.0	W. by N.	2.5	N. W.	2.5	N. W. by W.	2.0	N. W. by W.	1.5	N. W.	0.5		7
S.	0.2	S. by W.	0.2	N. by W.	0.2	N. W. by N.	0.5	N.	0.5	N.	1.0		8
S. E.	0.2	E. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0		9
S. E.	0.2	E. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0		10
S. by W.	0.2	S. S. W.	0.2	S. by W.	0.2	S. by W.	0.2	S.	0.2	S. S. W.	0.5		11
W. S. W.	0.2	W. by S.	0.5	W. S. W.	0.5	W. S. W.	1.0	W.	2.0	W.	1.5		12
—	—	—	—	—	—	—	—	—	—	—	—		13
S. S. W.	0.2	S. S. W.	0.2	S. by W.	0.5	S. by W.	0.5	S. by W.	0.2	—	0.0		14
S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	S. S. E.	0.2	S. S. E.	0.2	—	0.0		15
—	0.0	E. S. E.	0.2	S. S. W.	0.5	S. by W.	0.5	—	0.0	—	0.0		16
W.	1.5	W.	1.0	W. by N.	1.5	W.	2.0	W.	1.5	W.	1.0		17
N. N. W.	2.0	S. by W.	1.0	S.	0.5	S. by W.	0.5	S. by W.	0.5	S. by E.	0.2		18
N. E.	0.5	E. by S.	1.0	E. S. E.	0.5	E.	0.5	E.	0.5	E.	0.5		19
—	—	—	—	—	—	—	—	—	—	—	—		20
S. E.	0.2	S. E.	0.2	S. S. W.	1.0	S. S. W.	0.5	S. W.	0.2	S. W. by S.	0.2		21
W. N. W.	1.5	W. N. W.	2.0	N. W.	2.0	N. W.	2.0	N. W.	2.0	N. W.	2.0		22
N. N. W.	2.5	N. W. by N.	2.5	N. N. W.	2.5	N. W.	2.5	N. N. W.	1.5	N. N. W.	2.0		23
N. N. W.	1.0	N. W.	1.0	N. N. W.	1.0	N.	1.0	N. N. W.	0.2	N. by E.	0.2		24
S.	0.2	S. W. by S.	0.5	S. by W.	0.5	S. by W.	0.2	S. by W.	0.2	—	0.0		25
—	0.0	S. S. E.	0.2	S. by E.	0.2	S. S. E.	0.2	S. E.	0.2	E. S. E.	0.2		26
—	—	—	—	—	—	—	—	—	—	—	—		27
N. W.	1.0	N. N. W.	2.0	N. W.	1.0	W. N. W.	1.5	N. by W.	1.0	N. W. by N.	1.5		28
E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	W. N. W.	0.5		29
N. W. by N.	0.2	N. N. W.	0.5	N. W.	1.5	N. W. by N.	1.5	N. W.	1.0	N. W. by N.	0.5		30
S. by W.	0.5	S. S. W.	0.5	S. S. W.	0.5	S. by W.	0.5	S.	0.5	—	0.0	31	

18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		JULY.	
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		1
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. N. W.	0.2		2
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		3
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		4
—	—	—	—	—	—	—	—	—	—	—	—		5
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. W. by W.	0.2		6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		7
N. E. by E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	N. by E.	0.2		8
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		9
N. by E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		11
—	—	—	—	—	—	—	—	—	—	—	—		12
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		13
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		14
—	0.0	W. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0		15
S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	W. S. W.	0.2		16
N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		17
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		18
—	—	—	—	—	—	—	—	—	—	—	—		19
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		20
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		21
—	0.0	—	0.0	—	0.0	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2		22
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		23
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		24
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		25
—	—	—	—	—	—	—	—	—	—	—	—		26
N. W.	0.2	N. W.	0.2	N. W.	0.2	—	0.0	—	0.0	—	0.0		27
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0		28
W. S. W.	0.2	—	0.0	W. S. W.	0.2	W.	0.2	W.	0.2	W. by N.	0.2	29	
N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. by W.	0.2	—	0.0	—	0.0	30	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	31	



DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
S.S.W.	0.2	S.S.W.	0.2	S. by E.	0.2	S. by E.	0.5	S.S.W.	0.2	S.W.	0.2	1	
S.S.E.	0.2	S. by W.	0.2	S.	0.2	S. E. by S.	0.2	S. E. by S.	0.2	—	0.0	2	
—	—	—	—	—	—	—	—	—	—	—	—	3	
S.S.W.	0.2	S.S.W.	0.5	S.S.W.	0.2	S.S.W.	0.2	S. by W.	0.2	S.S.W.	0.2	4	
S. by W.	0.2	S.S.W.	0.5	S.E.	0.5	S.E.	0.5	E.S.E.	0.2	S.E.	0.2	5	
S.E. by S.	0.2	S.E.	0.2	S.E. by E.	0.2	S.E.	0.2	E.S.E.	0.2	S.E.	0.2	6	
S.E.	0.2	S.E.	0.2	S.E.	0.2	S.E.	0.2	S.E.	0.2	S.S.E.	0.2	7	
S.E.	0.2	S.E. by S.	0.2	S. by E.	0.2	S.E.	0.2	S.E. by S.	0.2	—	0.0	8	
S.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2	S.	0.2	9	
—	—	—	—	—	—	—	—	—	—	—	—	10	
S.S.W.	0.5	S.S.W.	0.2	S.E.	0.2	W.S.W.	0.2	W.	0.2	N.N.W.	0.2	11	
S. by W.	0.5	S.	1.0	S.S.W.	0.5	W.N.W.	0.5	N.W.	1.5	W.N.W.	0.5	12	
S.S.E.	0.2	S.	0.2	S.S.W.	0.2	S.S.W.	0.2	S.S.W.	0.2	—	0.0	13	
S. by W.	0.5	S. by W.	0.5	S. by W.	0.5	S.	0.5	S.	0.5	—	0.0	14	
E. by S.	1.0	E.N.E.	0.5	E.N.E.	0.5	E.	0.5	E.N.E.	0.5	E.	0.5	15	
S.S.E.	0.2	S.S.E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	—	0.0	16	
—	—	—	—	—	—	—	—	—	—	—	—	17	
S.S.W.	0.2	S. by E.	0.2	S.W. by S.	0.2	S. by W.	0.2	S.E.	0.2	S.E.	0.2	18	
S.E.	0.2	E.S.E.	0.2	E.S.E.	0.2	S.E.	0.2	S.E.	0.2	S.E.	0.2	19	
S.S.E.	0.2	S. by E.	0.2	S.E.	0.2	E. by S.	0.5	E. by S.	0.2	E.S.E.	0.2	20	
S. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2	21	
S.E.	0.2	S.E.	0.2	S. by E.	0.2	S. by E.	0.2	E.S.E.	0.2	S.E. by E.	0.2	22	
S.	0.2	S.S.W.	0.2	S.S.W.	0.2	S.S.W.	0.2	S.S.W.	0.2	—	0.0	23	
—	—	—	—	—	—	—	—	—	—	—	—	24	
S.	0.5	S.S.W.	0.2	S. by E.	0.2	S.E.	0.2	S.E.	0.2	S.E.	0.2	25	
S.E.	1.0	S.E.	0.0	S.E.	0.5	S.E.	0.2	S.E.	0.2	S.E.	0.2	26	
N.E.	0.2	N.E.	0.2	E. by S.	0.2	E. by S.	0.2	E. by N.	0.2	N. by W.	0.2	27	
E.	2.0	E.	0.5	E. by S.	2.0	E. by S.	1.5	E. by S.	0.5	E.	1.0	28	
S.E.	0.2	S.E.	0.2	S.S.E.	0.2	S.S.E.	0.2	S. by E.	0.2	S. by W.	0.2	29	
N.W.	0.2	N.N.W.	0.2	N. by W.	0.2	N. by W.	0.2	N.N.W.	0.5	N. by W.	0.5	30	
—	—	—	—	—	—	—	—	—	—	—	—	31	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	1	
—	—	—	—	—	—	—	—	—	—	—	—	2	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	4	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	5	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6	
—	0.0	—	0.0	—	0.0	N.N.W.	0.2	N.W.	0.5	N.N.W.	0.5	7	
E.N.E.	0.2	N.N.E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	8	
—	—	—	—	—	—	—	—	—	—	—	—	9	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	10	
N.N.W.	0.5	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	N. by W.	0.5	N.	0.2	11	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12	
N.W. by W.	0.5	N.W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	13	
N.E.	0.2	—	0.0	N.N.E.	0.2	N.N.E.	0.2	N.N.E.	0.2	—	0.0	14	
N.N.E.	0.2	N.N.E.	0.2	N.	0.2	N.	0.2	N.	0.2	—	0.0	15	
—	—	—	—	—	—	—	—	—	—	—	—	16	
S. by W.	0.2	S.W. by S.	0.2	S.E. by S.	0.2	—	0.0	—	0.0	—	0.0	17	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	18	
—	0.0	N. by E.	0.2	N. by E.	0.2	—	0.0	—	0.0	—	0.0	19	
N.E.	0.2	N.E.	0.2	N.E.	0.2	N.E.	0.2	—	0.0	—	0.0	20	
N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.5	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22	
—	—	—	—	—	—	—	—	—	—	—	—	23	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24	
—	0.0	—	0.0	N. by W.	0.2	N. by W.	0.2	—	0.0	N. by W.	0.2	25	
—	0.0	—	0.0	—	0.0	N.	0.2	N. by E.	0.2	—	0.0	26	
N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N.N.E.	0.5	27	
S.E.	1.0	E.S.E.	0.5	E.S.E.	0.5	S. by E.	0.2	—	0.0	—	0.0	28	
S.W.	2.0	S.W.	1.5	W.S.W.	0.5	—	0.0	—	0.0	—	0.0	29	
—	—	—	—	—	—	—	—	—	—	—	—	30	
—	0.0	N.N.E.	0.2	N. by W.	0.2	N.N.E.	0.2	N.N.W.	0.2	N.N.W.	0.2	31	

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
SEPTEMBER.	1	—	0·0	N. by E.	0·2	—	0·0	—	0·0	S. by E.	0·2	—	0·0
	2	—	0·0	—	0·0	W. S. W.	0·2	W. by N.	0·5	W.	0·2	N. W.	0·2
	3	—	0·0	—	0·0	W. by S.	0·2	W.	0·2	W.	0·5	W.	1·0
	4	—	0·0	—	0·0	—	0·0	N. W.	0·2	S. by W.	0·2	S. W.	0·2
	5	N. W.	1·0	N. W.	1·0	N. W.	1·0	N. W.	1·0	N. W.	1·5	W. N. W.	0·5
	6	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	S.	0·2
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	0·0	N.	0·2	N.	0·2	E. S. E.	0·5	S. S. E.	0·2	E. S. E.	0·2
	9	—	0·0	N. by W.	0·5	E. N. E.	0·2	—	0·0	S. by W.	0·2	S. S. W.	0·2
	10	—	0·0	—	0·0	W.	0·5	W. by N.	1·0	W. by N.	1·5	W. N. W.	1·2
	11	W.	0·2	N. W.	0·2	N. W.	0·2	N. W.	0·2	N. W.	0·2	N. W.	0·2
	12	—	0·0	N. N. E.	0·2	N. E. by N.	0·2	E. N. E.	0·2	E.	0·2	E.	0·5
	13	E.	0·5	E.	0·5	E.	1·0	E.	1·0	E.	1·0	N. E.	1·0
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	S. W.	0·2	W.	0·2	W.	0·2	W.	0·2	W.	1·5	W.	1·5
	16	—	0·0	—	0·0	—	0·0	N.	0·2	N. N. E.	0·2	S. S. E.	0·2
	17	—	0·0	—	0·0	—	0·0	S. S. W.	0·2	S. S. E.	0·2	S. E.	0·2
	18	S. W. by W.	0·2	S. W. by W.	0·2	W. S. W.	0·2	—	0·0	W. S. W.	0·2	S. W.	0·2
	19	—	0·0	—	0·0	N. by W.	0·2	S. by W.	0·2	S. by W.	0·5	S. by W.	0·5
	20	—	0·0	—	0·0	—	0·0	—	0·0	E. N. E.	0·2	N. E.	0·2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0·0	—	0·0	—	0·0	—	0·0	S. by W.	0·2	S.	0·2
	23	E. S. E.	0·2	E. S. E.	0·2	E. S. E.	1·0	S. E. by E.	1·0	E. S. E.	1·0	E. by S.	1·5
	24	N. W.	0·2	N. W.	0·2	N. W. by N.	0·5	N. N. W.	0·5	N. N. W.	0·5	N. N. W.	1·0
	25	W. N. W.	0·2	W. by N.	0·2	W.	0·2	S. W. by W.	0·2	S. W. by W.	0·2	W. by S.	0·2
	26	—	0·0	S. S. W.	0·2	S. W. by S.	0·5	S. W. by S.	0·2	S. W.	0·2	S. S. W.	0·2
	27	—	0·0	—	0·0	—	0·0	E.	0·2	E. S. E.	0·2	E. N. E.	0·2
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	0·0	—	0·0	S. S. W.	0·2	S.	0·2	S.	0·5	S. S. W.	0·2
	30	S. E.	0·5	S. S. E.	0·5	S. S. E.	0·5	S. S. E.	1·0	S. S. E.	0·5	S.	1·0
SEPTEMBER.	12 <sup>h</sup> .		13 <sup>h</sup> .		14 <sup>h</sup> .		15 <sup>h</sup> .		16 <sup>h</sup> .		17 <sup>h</sup> .		
	1	E. by S.	0·2	E. by N.	0·2	—	0·0	E.	0·2	E.	0·2	E.	0·2
	2	W. N. W.	0·2	W. N. W.	0·2	S. W.	0·2	—	0·0	—	0·0	—	0·0
	3	W. by N.	0·2	—	0·0	—	0·0	—	0·0	W. N. W.	0·2	W.	0·2
	4	N. W.	2·0	N. W.	0·2	N. W.	0·2	N. W. by W.	0·5	—	0·0	—	0·0
	5	N. N. W.	0·5	N. N. W.	0·5	N. W. by W.	0·2	—	0·0	—	0·0	—	0·0
	6	S.	0·2	S. W.	0·2	—	0·0	S.	0·2	S. by W.	0·2	S. by W.	0·2
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	E. S. E.	0·2	E. S. E.	0·2	N. E.	0·2	—	0·0	N. N. E.	0·2	N. E.	0·2
	9	W.	0·5	W. by N.	0·2	W. N. W.	0·2	—	0·0	—	0·0	—	0·0
	10	W. N. W.	1·0	N. N. W.	0·2	—	0·0	—	0·0	W. by N.	0·2	W. by N.	0·2
	11	N. W. by N.	0·2	—	0·0	N. by W.	0·2	—	0·0	—	0·0	—	0·0
	12	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	13	S. by E.	3·0	S. by E.	3·0	S. by E.	3·0	S. by W.	1·0	—	0·0	S. W.	0·5
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	W. N. W.	0·5	—	0·0	W. N. W.	0·5	—	0·0	—	0·0	W. N. W.	0·2
	16	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	16	S. W. by S.	0·2	S. W.	0·2	S. W.	0·2	S. W. by S.	0·2	S. W. by S.	0·2	S. W.	0·2
	18	N. W. by W.	1·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	19	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	20	N. N. W.	0·5	N. W.	1·0	W. N. W.	0·2	W. N. W.	0·2	W. N. W.	0·2	W. N. W.	0·5
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0·0	—	0·0	S. by E.	0·2	S. by E.	0·2	S.	0·2	—	0·0
	23	S. W. by W.	0·5	S. W.	0·5	S. W. by S.	0·5	S. S. W.	0·2	—	0·0	—	0·0
	24	N. W.	0·2	W. N. W.	0·2	W. N. W.	0·2	W. N. W.	0·2	W. N. W.	0·2	W. by N.	0·2
	25	W.	0·2	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	26	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0
	27	E.	0·2	N. E.	0·2	—	0·0	—	0·0	—	0·0	—	0·0
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	S. by E.	0·2	S. S. E.	0·5	S. E. by S.	0·5	S. E. by S.	0·5	S. S. E.	0·5	S. by E.	1·5
30	S. W. by S.	0·5	S. by W.	0·5	S. by W.	0·5	S. by W.	0·2	S. S. W.	0·2	S. W.	0·2	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
S. S. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	E. by S.	0.2	1
N. N. W.	0.2	N. by W.	0.2	S.	0.2	S.	0.2	—	0.0	W.	0.2	2
W.	1.5	W.	1.5	W. by S.	1.5	W. N. W.	1.0	W. N. W.	1.5	W. by N.	1.5	3
W. N. W.	0.2	N. W.	1.5	N. W.	2.5	N. W.	2.5	N. W.	2.5	N. W.	0.2	4
W. N. W.	0.5	W. N. W.	0.2	N. W.	0.2	N. W.	0.5	N. W.	3.0	N. N. W.	3.5	5
S.	0.2	S. by W.	0.2	S. by W.	0.5	—	0.0	—	0.0	S.	0.2	6
—	—	—	—	—	—	—	—	—	—	—	—	7
S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	S. E.	0.2	E. S. E.	0.2	8
W.	0.5	W. N. W.	2.0	W.	1.0	W.	1.5	W.	1.0	N. W. by W.	1.5	9
N. W.	3.0	W. by N.	1.0	W. N. W.	2.0	N. W.	2.5	N. W.	2.5	W. N. W.	1.5	10
N. N. W.	0.2	—	0.0	S.	0.2	S.	0.2	S.	0.2	N. by W.	0.5	11
E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.2	E.	0.2	12
N. E.	0.5	N. E.	1.0	E. N. E.	1.0	E.	0.5	E. by S.	0.5	S. E.	2.5	13
—	—	—	—	—	—	—	—	—	—	—	—	14
N. N. W.	2.0	W. N. W.	2.0	W. N. W.	2.0	W. N. W.	1.5	W. N. W.	2.0	N. W.	1.5	15
S. S. E.	0.2	S. by W.	0.5	S. by W.	0.5	S. by W.	0.5	S. by W.	0.2	—	0.0	16
E. S. E.	0.2	E. S. E.	0.2	E. by S.	0.2	E.	0.2	E.	0.2	E. by S.	0.2	17
S. W.	0.2	S. W. by W.	0.2	W. by N.	1.0	N. W.	2.0	N. W.	2.5	N. W. by W.	1.5	18
S.	0.5	S.	0.2	S. E.	0.2	S. E. by S.	0.2	S. S. E.	0.2	S. S. E.	0.2	19
—	0.0	S. W.	0.2	—	0.0	W. S. W.	0.2	S. W.	0.2	S. W. by W.	0.2	20
—	—	—	—	—	—	—	—	—	—	—	—	21
S.	0.2	S.	0.2	S. by E.	0.2	S. S. E.	0.2	S. S. E.	0.2	—	0.0	22
E. by S.	1.5	E.	0.5	S. S. E.	0.2	S. S. E.	0.2	S. S. E.	0.2	S.	0.5	23
N. W.	1.0	N. N. W.	1.0	N. W. by N.	0.5	N. W.	0.5	N. W.	0.2	N. W.	0.2	24
W.	0.5	W.	1.0	N. by W.	1.0	W. N. W.	1.0	S. W. by W.	0.2	W.	0.2	25
S. W.	0.2	S. S. W.	0.2	S. by W.	0.2	S. by W.	0.2	S. by W.	0.2	—	0.0	26
E. by S.	0.2	S. E.	0.5	E. by N.	0.5	E.	0.5	E.	0.2	E.	0.2	27
—	—	—	—	—	—	—	—	—	—	—	—	28
S. by W.	0.2	S. by W.	0.2	S.	0.2	S. by W.	0.2	S. by W.	0.2	S. by E.	0.2	29
S. by W.	1.0	S. by W.	0.5	S. by W.	0.5	S.	0.5	S.	1.5	S.	1.5	30

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
E.	0.2	E.	0.2	—	—	—	—	—	—	—	—	1
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	2
—	0.0	S. S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	3
—	0.0	N. W.	0.5	N. W.	1.5	N. W.	1.5	N. W.	1.5	N. W.	1.0	4
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. W.	0.2	5
—	—	—	—	—	—	—	—	—	—	—	—	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7
E. by N.	0.2	S. S. E.	0.5	S. S. E.	0.2	—	0.0	—	0.0	—	0.0	8
—	0.0	—	0.0	S. by W.	0.2	S. by W.	0.2	—	0.0	—	0.0	9
W. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	W. by N.	0.2	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
E.	0.5	E.	0.5	E.	0.5	E.	1.0	E.	0.5	E.	0.5	12
—	—	—	—	—	—	—	—	—	—	—	—	13
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. W.	0.2	14
W. N. W.	0.2	N. W.	0.2	N. W.	0.2	—	0.0	—	0.0	—	0.0	15
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	16
—	0.0	S. W.	0.2	S. W.	0.2	S. W.	0.5	—	0.0	—	0.0	17
W. N. W.	0.2	W. N. W.	0.2	N. W.	0.2	—	0.0	N. W.	0.2	—	0.0	18
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
—	—	—	—	—	—	—	—	—	—	—	—	20
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	W. N. W.	0.2	22
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23
W. by N.	0.2	N. by W.	0.2	N. by W.	0.2	N. N. W.	0.2	N. N. W.	0.2	W. N. W.	0.2	24
—	0.0	—	0.0	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2	—	0.0	25
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	26
—	—	—	—	—	—	—	—	—	—	—	—	27
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28
S. W. by S.	0.5	S.	1.5	S.	1.5	S.	1.0	S.	1.0	S. S. E.	1.0	29
S. W.	0.5	S. W.	0.5	S. W.	0.2	S. W.	0.2	S. W.	0.5	S. W.	0.5	30

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
OCTOBER.	1	S. W.	0.5	S. W.	0.5	S. W. by S.	0.2	S. S. W.	0.5	W. S. W.	1.5	W. S. W.	1.5
	2	—	0.0	S. W.	0.5	S. W. by W.	0.2	—	0.0	S. S. W.	0.5	S. S. W.	0.5
	3	N. N. W.	0.5	N. N. W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2
	4	N. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	N. E.	0.2	N. E. by N.	0.2	N. by E.	0.2
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	0.0	N. by E.	0.2	N. by E.	0.2	E. N. E.	0.2	E. N. E.	0.2	S. E.	0.2
	7	—	0.0	—	0.0	—	0.0	S. E. by S.	0.2	S. E. by S.	0.2	—	0.0
	8	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	9	S. W. by W.	1.0	—	0.0	—	0.0	W. S. W.	1.5	W. by N.	1.0	N. W.	1.5
	10	N. E. by E.	0.2	E. N. E.	0.2	E. S. E.	0.5	E.	1.0	E.	1.5	E.	1.0
	11	—	0.0	N. N. W.	0.5	N. N. W.	0.2	N. W.	0.2	—	0.0	N. by W.	0.2
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	—	0.0	—	0.0	W. by S.	0.2	W. by S.	0.2	W. by S.	0.2	S. S. W.	0.5
	14	W.	2.5	W. N. W.	0.5	—	0.0	W. S. W.	0.2	W. S. W.	0.2	W.	0.2
	15	—	0.0	—	0.0	—	0.0	W. by N.	0.2	W. N. W.	0.2	W. N. W.	0.2
	16	W. by N.	0.2	W. by N.	0.2	W. by N.	0.2	W. S. W.	0.5	W. by S.	0.2	S. W. by W.	0.5
	17	—	0.0	—	0.0	W. N. W.	0.2	W. by S.	0.2	S.	0.2	S. W.	0.2
	18	—	0.0	—	0.0	—	0.0	S. W. by S.	0.2	—	0.0	S.	0.2
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	21	—	0.0	—	0.0	—	0.0	N. W.	0.5	N. N. W.	0.5	N. N. W.	0.5
	22	—	0.0	—	0.0	—	0.0	S. W.	0.2	S. S. W.	0.2	S. by E.	0.2
	23	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	24	—	0.0	—	0.0	—	0.0	—	0.0	S. W. by S.	0.2	W. by N.	0.2
	25	N. E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	—	0.0	—	0.0	—	0.0	S. S. W.	0.2	S. S. W.	0.2	S. S. W.	0.2
	28	—	0.0	—	0.0	—	0.0	S. W.	0.2	—	0.0	—	0.0
	29	—	0.0	—	0.0	—	0.0	S. W.	0.2	S. W.	0.2	S. W.	0.2
	30	—	0.0	—	0.0	N. W.	0.2	N. W. by N.	0.2	N. by W.	0.2	N. by W.	0.2
	31	E. N. E.	0.5	E. N. E.	0.2	E.	0.2	E. by S.	0.2	E. by S.	0.2	S. E.	0.2
OCTOBER.	1	W. by N.	0.5	W.	0.5	W.	0.5	—	0.0	—	0.0	—	0.0
	2	S. S. W.	1.0	S. W. by S.	0.5	S. W.	0.2	—	0.0	—	0.0	—	0.0
	3	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	4	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	5	—	—	—	—	—	—	—	—	—	—	—	—
	6	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	7	S. E.	0.2	—	0.0	S. S. W.	0.2	—	0.0	—	0.0	—	0.0
	8	E.	0.5	E.	1.0	E.	0.5	E.	1.0	E.	0.2	E.	0.2
	9	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	10	E.	1.5	E. N. E.	1.0	E. N. E.	1.0	E.	0.5	E.	0.2	—	0.0
	11	—	0.0	—	0.0	—	0.0	N. N. E.	0.5	N. N. E.	0.5	N.	0.5
	12	—	—	—	—	—	—	—	—	—	—	—	—
	13	S.	1.5	S.	1.0	S.	1.0	S.	1.5	S. S. W.	2.0	S. S. W.	2.5
	14	W.	0.2	W.	0.2	W.	0.2	W. by S.	0.2	W.	0.2	W.	0.2
	15	N. W.	0.2	W. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0
	16	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	17	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	18	S. S. W.	0.5	S. S. W.	0.5	S. S. W.	0.2	—	0.0	—	0.0	—	0.0
	19	—	—	—	—	—	—	—	—	—	—	—	—
	20	N. W. by N.	2.5	N. W. by W.	1.5	N. W.	1.0	W. N. W.	0.5	N. W.	0.2	—	0.0
	21	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	22	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	23	—	0.0	—	0.0	—	0.0	S. W.	0.2	—	0.0	—	0.0
	24	—	0.0	—	0.0	—	0.0	N. W.	0.2	N. W.	0.2	N. W. by N.	0.2
	25	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	26	—	—	—	—	—	—	—	—	—	—	—	—
	27	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	28	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	29	S. W.	0.5	S. W.	0.5	S. W.	0.2	—	0.0	—	0.0	W.	0.5
	30	E.	0.2	E.	0.2	E. by N.	0.2	E. N. E.	0.2	E. N. E.	0.2	E. N. E.	0.2
	31	S. W.	0.2	S. W.	0.2	S. W. by S.	0.5	S. W.	0.2	S. W.	0.2	S. W.	0.2

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
W. S. W.	1.5	W. S. W.	2.5	S. W. by W.	2.0	W.	2.0	W. S. W.	1.5	W. S. W.	1.0	1	
S.	0.5	S. by E.	0.5	S. S. E.	0.5	S.	0.5	S. S. W.	1.0	S. S. W.	1.0	2	
N. by W.	0.2	N. N. E.	0.2	—	0.0	S. E.	0.2	—	0.0	—	0.0	3	
N. E.	0.2	N. E.	0.2	E. by N.	0.2	E. by N.	0.2	E. by N.	0.2	—	0.0	4	
—	—	—	—	—	—	—	—	—	—	—	—	5	
E. S. E.	0.2	S. E.	0.2	S. E.	0.2	S. S. E.	0.2	—	0.0	—	0.0	6	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7	
E.	0.2	E. by N.	0.5	E.	0.5	E. by N.	0.5	E. by N.	0.5	E. by N.	0.5	8	
W. N. W.	1.5	N. W.	1.5	N. W. by W.	1.5	W. N. W.	0.5	N. W. by W.	0.2	—	0.0	9	
N. E. by E.	1.5	E.	1.5	E.	1.5	E.	1.0	E. N. E.	1.0	E. N. E.	2.0	10	
—	0.0	—	0.0	—	0.0	E.	0.2	—	0.0	—	0.0	11	
—	—	—	—	—	—	—	—	—	—	—	—	12	
S. S. W.	1.0	S. S. W.	0.5	S. S. E.	0.5	S. S. W.	1.5	S. by W.	2.5	S. S. W.	2.5	13	
W. S. W.	1.5	W.	2.0	W.	2.5	W.	1.5	W. by S.	1.0	W. by N.	1.0	14	
N. W.	0.2	N. N. W.	1.5	W. N. W.	1.0	N. W.	3.0	N. N. W.	1.0	W. N. W.	0.2	15	
S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	S. by W.	0.2	—	0.0	—	0.0	16	
S. by W.	0.2	S.	0.2	S. by W.	0.5	S. by W.	0.5	S. by W.	0.5	—	0.0	17	
S. by W.	0.2	S. by E.	0.2	S. S. W.	0.2	S.	0.2	S.	0.5	S. S. W.	0.5	18	
—	—	—	—	—	—	—	—	—	—	—	—	19	
E.	0.2	E. by S.	0.2	N. N. E.	0.2	N. N. W.	1.5	N. N. W.	1.0	N. N. W.	1.5	20	
W. N. W.	0.5	N. N. W.	0.5	N. N. W.	1.0	N. by W.	0.5	N. by W.	0.2	N. by W.	0.2	21	
S. by W.	0.2	S.	0.2	S.	0.2	S.	0.2	—	0.0	—	0.0	22	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23	
S. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	24	
E. by S.	0.2	E. S. E.	0.2	E.	0.2	E.	0.2	E.	0.2	—	0.0	25	
—	—	—	—	—	—	—	—	—	—	—	—	26	
—	0.0	—	0.0	S. S. W.	0.2	S. W.	0.5	S. W.	0.5	—	0.0	27	
S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28	
S. S. W.	0.2	S. W. by S.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.5	29	
N. N. W.	0.2	E. by S.	0.2	E. by S.	0.2	E.	0.2	E. by N.	0.2	E.	0.5	30	
S. E.	0.2	E. S. E.	0.2	E. S. E.	0.2	S. S. E.	0.2	E. S. E.	0.2	S. W.	0.2	31	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.		
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	1	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	2	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	3	
—	—	—	—	—	—	—	—	—	—	—	—	4	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	5	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	6	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	7	
E.	0.2	—	0.0	—	0.0	—	0.0	S. S. W.	0.5	S. W. by S.	0.5	8	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. E. by E.	0.2	9	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	10	
—	—	—	—	—	—	—	—	—	—	—	—	11	
W. by S.	0.2	—	0.0	—	0.0	—	0.0	S. W.	0.5	—	0.0	12	
S. S. W.	3.0	S. S. W.	2.5	S. S. W.	2.5	S. S. W.	0.2	S. S. W.	2.0	S. S. W.	1.0	13	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	14	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	15	
—	0.0	—	0.0	—	0.0	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2	16	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	17	
—	—	—	—	—	—	—	—	—	—	—	—	18	
W. N. W.	0.2	N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	—	0.0	—	0.0	19	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	20	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23	
N. W. by N.	0.2	N. N. E.	0.2	N. E.	0.2	—	0.0	—	0.0	N. E.	0.2	24	
—	—	—	—	—	—	—	—	—	—	—	—	25	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	26	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	27	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	28	
W.	0.5	W.	0.5	W.	0.2	W. by S.	0.5	W. by S.	0.2	—	0.0	29	
E. N. E.	0.2	E. N. E.	0.2	E. N. E.	0.2	E. N. E.	0.2	E.	0.2	E. N. E.	0.5	30	
—	0.0	W. by N.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	31	





DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .		
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
S. S. W.	1.5	S. W.	1.0	W. S. W.	3.0	S. W. by W.	2.5	W.	2.0	W.	0.2	1
—	—	—	—	—	—	—	—	—	—	—	—	2
E. by S.	1.0	E. by S.	0.5	S.	0.2	S. by W.	1.5	S. W.	1.0	S. W.	0.2	3
S.	0.2	S. by W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	4
W.	0.2	W. S. W.	0.2	W.	0.2	S. W.	0.5	S. W.	0.5	S. W.	0.5	5
S. W. by W.	0.5	S. W.	0.5	S. W.	0.5	N. W.	0.5	W. N. W.	0.5	N. W. by N.	0.5	6
W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W. by S.	0.2	S. W.	0.2	—	0.0	7
N. by W.	0.2	N.	1.0	N.	2.0	N. by E.	1.5	N.	1.0	N. N. W.	0.5	8
—	—	—	—	—	—	—	—	—	—	—	—	9
N. W.	1.0	S.	0.5	S. S. E.	0.2	—	0.0	—	0.0	—	0.0	10
N. N. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
—	0.0	S. W.	0.2	S.	0.2	S.	0.2	S. W.	0.2	S. W. by W.	0.2	12
S. S. W.	1.5	S. S. W.	1.5	S. by W.	0.5	S. W. by S.	0.2	S. W. by S.	0.5	S. S. W.	1.0	13
W. by N.	3.0	N. W.	4.0	N. W.	5.0	N. W.	2.5	W. N. W.	2.0	N. W.	1.0	14
S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	S. by E.	0.2	—	0.0	—	0.0	15
—	—	—	—	—	—	—	—	—	—	—	—	16
E. by N.	0.2	E.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	17
S. E.	0.2	S. E.	0.2	E.	0.2	E. by N.	0.2	E. by N.	0.2	E. N. E.	0.2	18
S. W.	2.5	S. W.	2.5	W. S. W.	2.5	S. W.	1.5	S. W.	2.5	S. W.	0.5	19
S. S. W.	1.5	S. S. W.	1.0	S. S. W.	1.0	S. S. W.	1.5	S. S. W.	1.5	W.	1.5	20
W.	2.5	W. by S.	2.5	W. S. W.	2.0	W. by S.	2.0	W.	1.0	W. by S.	1.0	21
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S. E.	0.2	22
—	—	—	—	—	—	—	—	—	—	—	—	23
S. W.	0.2	W. S. W.	0.5	W. by S.	1.0	S. W.	1.0	W. by S.	0.5	W.	0.2	24
S. W.	0.5	S. W.	0.2	S. W.	0.2	S. W. by W.	0.2	W. S. W.	0.2	—	0.0	25
N. N. E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. by E.	0.2	N. N. E.	0.2	26
N. W.	3.5	N. W.	3.0	N. W.	3.5	N. W.	3.5	N. W.	2.5	W. by N.	2.0	27
W. by S.	0.2	W. by S.	0.5	W. by S.	0.2	—	0.0	W. by S.	0.2	W. by S.	0.2	28
—	0.0	N. N. E.	0.2	N. N. E.	0.2	N. N. E.	0.2	—	0.0	S.	0.5	29
—	—	—	—	—	—	—	—	—	—	—	—	30

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .		
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.	
—	—	—	—	—	—	—	—	—	—	—	—	1
N.	1.0	N.	1.0	N. by W.	2.5	N. by W.	3.5	N. by W.	2.5	N. by W.	2.0	2
S. S. W.	0.2	S. W.	0.5	S. W.	0.2	—	0.0	—	0.0	—	0.0	3
N. W. by W.	0.2	N. W.	0.2	N. W.	0.2	N. N. W.	0.5	N. by W.	0.5	N. by W.	0.2	4
S. W. by S.	1.5	S. W.	1.0	S. W.	1.0	S. W.	0.5	S. W.	0.5	S. W.	1.0	5
—	0.0	—	0.0	—	0.0	N. W.	0.5	—	0.0	—	0.0	6
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2	7
—	—	—	—	—	—	—	—	—	—	—	—	8
N. W.	0.2	N. W.	0.2	N. W.	0.2	W. by N.	0.2	W. N. W.	0.2	—	0.0	9
S.	0.2	N. N. E.	0.2	N. W. by N.	0.2	—	0.0	—	0.0	—	0.0	10
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	12
W.	1.0	W.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	13
—	0.0	N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	—	0.0	—	0.0	14
—	—	—	—	—	—	—	—	—	—	—	—	15
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	16
S. S. W.	0.5	S. S. W.	0.2	S. S. W.	0.2	—	0.0	—	0.0	—	0.0	17
S. by W.	3.0	S. W.	3.5	S. W.	3.5	S. W. by S.	5.0	S. W. by S.	4.0	S. W. by S.	3.5	18
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	19
W. by S.	0.5	W.	0.5	W.	2.5	W. N. W.	1.0	W.	1.0	W. by N.	1.0	20
W.	0.2	W.	0.2	W.	0.2	W.	0.2	—	0.0	—	0.0	21
—	—	—	—	—	—	—	—	—	—	—	—	22
W.	2.0	W.	1.5	W.	1.0	W.	1.0	W. by N.	1.0	—	0.0	23
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	S.	0.5	24
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N. N. W.	0.2	25
N.	1.5	N.	1.5	N.	1.5	N. by W.	1.0	N. N. W.	1.5	N. W. by N.	2.0	26
W. by N.	1.0	W.	0.2	W.	0.2	W. by N.	0.2	W.	0.2	—	0.0	27
—	0.0	W. N. W.	0.2	W. N. W.	0.2	N. W. by W.	0.2	N. W. by W.	0.2	W. N. W.	0.2	28
—	—	—	—	—	—	—	—	—	—	—	—	29
N.	0.2	—	0.0	N. by E.	0.2	N. N. E.	0.2	N. E.	0.5	N. N. E.	0.2	30

NOVEMBER.

NOVEMBER.

DIRECTION AND FORCE OF THE WIND.													
Mean Göttingen Time.	0 <sup>h</sup> .		1 <sup>h</sup> .		2 <sup>h</sup> .		3 <sup>h</sup> .		4 <sup>h</sup> .		5 <sup>h</sup> .		
	Wind.		Wind.		Wind.		Wind.		Wind.		Wind.		
	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	
DECEMBER.	1	N. N. E.	0.2	N. N. E.	0.5	N. N. E.	0.5	N. by E.	0.5	N. by E.	0.5	N.	0.5
	2	N. W.	1.0	N. W.	0.5	N. W.	0.2	—	0.0	N.	0.2	N. N. W.	0.2
	3	N. by E.	0.2	N. by E.	0.2	N.	0.2	N. by E.	0.2	N. N. E.	0.2	N. E.	0.2
	4	S. E.	1.0	S. S. E.	1.5	S. by E.	2.0	S. by E.	2.0	S.	2.5	S. by W.	2.5
	5	W. by S.	0.2	W.	0.5	W. by N.	2.5	W.	3.0	W.	3.0	W.	3.5
	6	—	0.0	W. by S.	0.2	—	0.0	—	0.0	W. by S.	0.2	W. by S.	0.2
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	N.	0.2	N.	0.2	N. N. E.	0.2	N. E. by N.	0.2	N. N. E.	0.2	—	0.0
	9	W. S. W.	0.2	S. W. by W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2	S. W.	0.2
	10	W.	1.0	W.	0.5	W.	0.5	W. S. W.	0.5	W. by S.	1.0	W. S. W.	3.0
	11	N.	0.2	N.	0.2	N.	0.2	N.	0.2	—	0.0	N.	0.2
	12	—	0.0	—	0.0	—	0.0	N. N. E.	0.2	N. E. by N.	0.2	N. N. E.	0.2
	13	E.	0.2	E.	0.2	E.	0.2	E. S. E.	0.2	E. S. E.	0.2	E.	0.2
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	N. by W.	0.2	N.	0.2	N. by W.	0.2	N.	0.2	N.	0.2	N. N. W.	0.2
	16	N. W. by N.	0.2	N. N. W.	0.2	N. W.	0.2	N. W.	0.2	N. W. by W.	0.5	N. W. by W.	0.5
	17	—	0.0	S. W.	0.2	—	0.0	S. W. by S.	0.5	S. S. W.	0.5	S. S. W.	1.0
	18	S. W. by W.	1.5	S. S. W.	1.0	S. W.	0.5	S. W.	0.5	S. W.	1.0	S. S. W.	1.0
	19	W. by S.	1.5	W. S. W.	0.5	W. S. W.	0.5	S. W.	2.0	S. W.	4.0	S. S. W.	4.0
	20	S. W.	0.2	S. W. by W.	0.2	S. W. by W.	0.2	S. W.	0.2	W. S. W.	0.2	W. by S.	0.2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	23	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	24	—	0.0	—	0.0	—	0.0	N.	0.2	N.	0.2	N.	0.2
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	N. W. by N.	1.0	N. N. W.	0.2	—	0.0	—	0.0	N. N. W.	0.2	N. N. W.	0.2
	27	S. W.	0.5	S. W.	0.5	S. W.	0.5	S. W.	2.0	S. W. by S.	2.5	S. W. by W.	2.5
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	W.	0.2	W.	0.2	W. S. W.	1.0	S. W.	1.0	S. W.	1.0	S. W.	1.0
	30	W.	0.5	W.	0.5	W.	0.5	W. N. W.	0.2	N. N. W.	0.5	N. W.	0.5
	31	—	0.0	—	0.0	—	0.0	—	0.0	N. E.	0.2	E. by N.	0.2
DECEMBER.	1	N. N. W.	1.5	N. W.	1.0	N. W.	1.5	N. N. W.	2.0	N. W.	0.2	W. by N.	0.2
	2	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	3	S. E. by E.	1.5	S. E. by E.	2.0	S. E. by E.	1.5	E. S. E.	1.0	E. S. E.	1.0	E. S. E.	1.0
	4	—	0.0	—	0.0	W.	0.2	N. W.	0.2	N. W.	0.2	N. N. W.	0.2
	5	W.	1.5	W. S. W.	0.5	W. S. W.	0.2	W.	0.2	W.	0.2	W. S. W.	0.5
	6	W. S. W.	0.5	W. S. W.	0.2	—	0.0	—	0.0	—	0.0	—	0.0
	7	—	—	—	—	—	—	—	—	—	—	—	—
	8	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	9	S. W. by W.	1.5	S. W. by W.	2.0	S. W. by W.	2.5	S. W. by W.	2.5	W.	2.5	W.	2.5
	10	S. W.	2.5	W. S. W.	2.5	S. W. by W.	2.0	W. S. W.	0.5	W.	1.0	W. by N.	1.5
	11	N.	0.2	N.	0.2	N.	0.2	N.	0.2	N. by W.	0.2	—	0.0
	12	E.	0.2	E.	0.2	E.	0.2	E. by S.	0.2	E. by S.	0.2	—	0.0
	13	E. by N.	0.5	E. by N.	0.5	E.	0.5	S. E. by S.	0.5	S. E. by S.	0.5	S. E. by S.	0.5
	14	—	—	—	—	—	—	—	—	—	—	—	—
	15	N. by W.	0.5	N. by W.	1.0	N. by W.	2.5	N. N. W.	2.0	N. N. W.	1.5	N. N. W.	2.0
	16	W. by N.	0.2	W. by N.	0.2	W.	0.2	W.	0.2	W. by S.	0.2	—	0.0
	17	S. S. W.	1.5	S. S. W.	1.5	S. S. W.	2.5	S. S. W.	3.0	S. S. W.	2.5	S. S. W.	2.5
	18	S.	0.2	S.	0.2	S. S. W.	0.5	S. S. E.	0.5	S. W.	3.5	S. W. by W.	3.5
	19	S. W.	2.0	W. S. W.	2.0	W. S. W.	2.5	W. S. W.	2.5	W. S. W.	2.0	W. S. W.	1.5
	20	—	0.0	—	0.0	—	0.0	N. W.	0.2	N. W.	0.2	N. W.	0.2
	21	—	—	—	—	—	—	—	—	—	—	—	—
	22	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	23	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	24	—	0.0	N. N. E.	0.2	N. E.	0.5	N. N. E.	0.5	N. E. by N.	0.5	N. E. by N.	0.5
	25	—	—	—	—	—	—	—	—	—	—	—	—
	26	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0
	27	S. W.	0.5	S. W.	1.0	S. W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5	S. W. by W.	0.5
	28	—	—	—	—	—	—	—	—	—	—	—	—
	29	—	0.0	—	0.0	—	0.0	W. by S.	0.2	—	0.0	W.	0.2
	30	N. by W.	0.2	N. by W.	0.2	N. by W.	0.2	—	0.0	—	0.0	—	0.0
	31	E.	0.5	E. by S.	1.0	E. S. E.	1.5	E. by S.	2.0	E. by S.	2.5	E. by S.	2.5

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
6 <sup>h</sup> .		7 <sup>h</sup> .		8 <sup>h</sup> .		9 <sup>h</sup> .		10 <sup>h</sup> .		11 <sup>h</sup> .			1
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	3	
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.		4
N. N. W.	1.0	N. N. W.	1.0	N. N. W.	2.0	N. by W.	2.5	N. N. W.	0.5	N. N. W.	1.5		
N. by W.	0.2	N.	0.2	N. by E.	0.2	—	0.0	—	0.0	—	0.0	2	
N. N. E.	0.2	N. N. E.	0.2	N. E.	0.2	N. E. by N.	0.5	E. by S.	0.5	S. E. by E.	1.5	3	
W.	0.5	W. S. W.	0.5	S. W. by W.	0.2	W. S. W.	0.5	W. S. W.	0.2	W. S. W.	0.2	4	
W.	3.0	W.	3.5	W.	3.5	W. by S.	3.0	W. by S.	2.5	W.	1.5	5	
W. S. W.	0.5	S. W. by W.	1.0	W. S. W.	1.0	W. S. W.	1.0	W. S. W.	1.5	W. by S.	1.0	6	
—	—	—	—	—	—	—	—	—	—	—	—	7	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	8	
S. W.	2.0	S. W.	2.5	S. W. by W.	1.5	S. W. by W.	1.0	S. W. by W.	1.0	S. W. by W.	1.0	9	
W. by S.	3.5	W. by S.	3.0	W. by S.	2.5	W. by S.	2.5	W. by S.	2.5	W. S. W.	2.5	10	
N.	0.2	N.	0.2	N.	0.2	N.	0.2	N. by E.	0.2	N. by E.	0.2	11	
N. by E.	0.2	N. by E.	0.2	S. E.	0.2	E. by S.	0.2	E. S. E.	0.2	E.	0.2	12	
E.	0.2	E.	0.2	E.	0.2	E.	0.2	E. by N.	0.2	—	0.0	13	
—	—	—	—	—	—	—	—	—	—	—	—	14	
N. by W.	1.5	N. N. W.	2.5	N. by W.	2.5	N. by W.	2.5	N. by W.	1.5	N. by W.	0.5	15	
N.W. by W.	0.2	N.W. by W.	0.2	N.W. by W.	0.5	W. N. W.	0.5	W. N. W.	0.2	W. N. W.	0.2	16	
S. S. W.	1.0	S. by W.	1.0	S. S. W.	0.5	S.	0.5	S. by E.	0.5	S. S. W.	4.0	17	
W. by S.	1.0	W. by S.	1.0	S. S. W.	1.5	S. S. W.	1.0	S.	0.5	S. S. W.	0.5	18	
S. W.	3.5	S. W.	3.5	S. W.	3.5	S. W.	3.5	S. W.	3.0	W. S. W.	3.0	19	
—	0.0	—	0.0	—	0.0	W.	0.2	—	0.0	—	0.0	20	
—	—	—	—	—	—	—	—	—	—	—	—	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23	
N.	0.2	—	0.0	N. N. E.	0.2	—	0.0	—	0.0	—	0.0	24	
—	—	—	—	—	—	—	—	—	—	—	—	25	
N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2	W. N. W.	0.2	N.W. by W.	0.2	—	0.0	26	
S.W.	2.5	S. S. W.	1.5	S. S. W.	2.5	S. W.	3.5	S. W.	2.5	S. W.	0.5	27	
—	—	—	—	—	—	—	—	—	—	—	—	28	
S. W. by W.	0.5	W. S. W.	0.5	W. S. W.	0.2	W. S. W.	0.2	W. by S.	0.2	W.	0.2	29	
N. W.	1.5	W. N. W.	1.0	N. W.	0.2	N. N. W.	0.5	—	0.0	N. by W.	0.2	30	
E.	0.2	N. E. by E.	0.2	N. E.	0.2	E.	0.5	E.	0.5	E.	0.5	31	

DIRECTION AND FORCE OF THE WIND.												Mean Göttingen Time.	
18 <sup>h</sup> .		19 <sup>h</sup> .		20 <sup>h</sup> .		21 <sup>h</sup> .		22 <sup>h</sup> .		23 <sup>h</sup> .			1
Wind.		Wind.		Wind.		Wind.		Wind.		Wind.			
Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Direction.	Force.	3	
	lbs.		lbs.		lbs.		lbs.		lbs.		lbs.		4
N. W.	0.5	N.W. by W.	1.0	N. W.	2.5	N.W.	2.5	N. W.	2.5	N. W.	2.5		
—	0.0	—	0.0	—	0.0	N. N. W.	0.2	N.	0.2	N. by E.	0.2	2	
E. S. E.	0.5	E. S. E.	0.5	E. S. E.	0.5	S. E.	1.0	S. E.	1.5	S. E.	1.0	3	
N.	0.2	—	0.0	—	0.0	—	0.0	W. by N.	0.2	W.	0.5	4	
W. by N.	0.5	W. by N.	0.5	—	0.0	—	0.0	—	0.0	—	0.0	5	
—	—	—	—	—	—	—	—	—	—	—	—	6	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	N.	0.2	7	
—	0.0	—	0.0	—	0.0	W. by S.	0.2	W. S. W.	0.2	W. S. W.	0.2	8	
W. N. W.	2.5	N.W. by W.	2.5	W. N. W.	2.5	W. N. W.	1.5	W. by N.	1.5	W. by N.	1.0	9	
N. by W.	0.5	N. N. W.	0.5	—	0.0	N. by W.	0.2	—	0.0	—	0.0	10	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	11	
E. by S.	0.2	—	0.0	—	0.0	—	0.0	—	0.0	E.	0.2	12	
—	—	—	—	—	—	—	—	—	—	—	—	13	
N. W. by N.	0.2	N.W. by N.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	14	
N. N. W.	1.5	N. N. W.	1.5	N. N. W.	2.0	N. N. W.	2.0	N. N. W.	2.0	N. N. W.	0.2	15	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	16	
S. S. W.	3.0	S. S. W.	2.5	S. W. by S.	2.5	S. S. W.	3.0	W. S. W.	2.5	S. W. by W.	1.5	17	
S. S. W.	3.5	S. S. W.	8.0	S. W.	9.5	S. W.	6.0	S.W. by W.	3.5	W. by S.	2.0	18	
W. S. W.	1.5	S. W.	0.5	S. W.	0.2	—	0.0	—	0.0	—	0.0	19	
—	—	—	—	—	—	—	—	—	—	—	—	20	
W.	0.2	—	0.0	N.W. by W.	0.2	N. W.	0.2	W. by N.	0.2	—	0.0	21	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	22	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	23	
—	—	—	—	—	—	—	—	—	—	—	—	24	
N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. N. W.	0.2	N. W.	0.2	N. by W.	1.0	25	
—	0.0	—	0.0	—	0.0	—	0.0	S. W.	0.2	—	0.0	26	
—	—	—	—	—	—	—	—	—	—	—	—	27	
—	0.0	—	0.0	—	0.0	W.	0.2	W.	0.2	W.	0.2	28	
W.	0.2	W. by N.	1.0	W. by N.	0.5	W. by N.	0.5	W. by N.	0.5	W.	0.5	29	
—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	—	0.0	30	
E. by S.	2.0	E.	1.5	E.	1.5	E.	1.5	E.	1.5	E.	1.0	31	



TORONTO, 1845.

---

METEOROLOGICAL JOURNAL.

OBSERVATIONS OF THE AURORA.							
		Phenomena.	Moon's Age at Mean Noon.			Phenomena.	Moon's Age at Mean Noon.
1845				1845			
January 9th,	9 <sup>h</sup> to 14 <sup>h</sup>	Faint light	1.4	August 1st,	9 <sup>h</sup> to 11 <sup>h</sup>	Faint light	28.0
,,	16 <sup>h</sup> to 18 <sup>h</sup>	Arch and streams	1.4	,, 2nd,	10 <sup>h</sup> to 12 <sup>h</sup>	Faint bank of auroral light	29.0
March 12th,	15 <sup>h</sup>	Faint light	4.4	September 3rd,	12 <sup>h</sup> to 13 <sup>h</sup>	Faint light	1.8
,,	13th, 14 <sup>h</sup> to 15 <sup>h</sup>	Faint light	5.4	,,	7th, 12 <sup>h</sup> to 14 <sup>h</sup>	Faint light	5.8
April 13th,	12 <sup>h</sup> to 14 <sup>h</sup>	Arches and faint streams	6.9	,,	24th, 9 <sup>h</sup> to 16 <sup>h</sup>	Arch and pulsation	22.8
June 30th,	10 <sup>h</sup>	Faint light	25.7	,,	25th, 9 <sup>h</sup> to 10 <sup>h</sup>	Faint light	23.8
July 5th,	11 <sup>h</sup>	Faint light	1.0	,,	26th, 14 <sup>h</sup>	Faint light	24.8
,,	8th, 11 <sup>h</sup> to 12 <sup>h</sup>	Faint light	4.0	October 20th,	13 <sup>h</sup> to 14 <sup>h</sup>	Faint light	19.2
,,	24th, 11 <sup>h</sup> to 15 <sup>h</sup>	Faint light	20.0	November 27th,	12 <sup>h</sup> to 15 <sup>h</sup>	Light and streams	27.7

Toronto Mean Time.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .			
D	JANUARY.					°	°	In.
1	Clouded all day; cir.-cum., cum.-strat., and haze	1.0	1.0	1.0	1.0	39.4	28.4	—
2	Clouded from 12 <sup>h</sup> till 17 <sup>h</sup> ; cir.-cum. and haze; remainder of the day partially clouded; slight and moderate rain from 18 <sup>h</sup>	0.4	0.2	1.0	1.0	40.6	27.7	—
3	Slight rain continued moderately till 2 <sup>h</sup> 25 <sup>m</sup> ; clouded all day; cum.-strat. and cir.-cum.	1.0	1.0	1.0	0.5	34.7	28.3	—
4	Clouded from 1 <sup>h</sup> till 4 <sup>h</sup> , and from 7 <sup>h</sup> till 11 <sup>h</sup> with cir.-strat., cir., and haze; remainder of the day nearly clear	0.9	1.0	—	—	45.7	33.3	—
5	Partially clouded with cum.-strat. and cir.-cum. generally dispersed	—	—	0.2	1.0	39.9	29.7	—
6	Clouded all the day with cir.-cum., cum.-strat., and haze; snowing from 11 <sup>h</sup>	1.0	1.0	1.0	1.0	39.1	17.7	—
7	Snow continued till 1 <sup>h</sup> ; generally clouded with cir.-cum., cir.-strat., and cum.-strat.	0.7	1.0	1.0	1.0	23.2	16.3	—
8	Generally clouded with cir.-cum. and cum.; clear spaces	0.4	1.0	1.0	0.5	28.7	19.4	—
9	Clouded till 8 <sup>h</sup> with cir.-cum. and haze; remainder of the day clear; auroral light in N. from 7 <sup>h</sup> till 14 <sup>h</sup>	0.5	0.0	0.0	1.0	33.9	22.4	—
10	Clouded all day with cir.-cum. and haze	1.0	1.0	1.0	1.0	39.1	23.5	—
11	Clouded till 8 <sup>h</sup> with cum.-strat., cir.-cum. and haze; remainder of the day mostly clear	1.0	0.2	—	—	35.3	19.7	—
12	Generally clear till 11 <sup>h</sup> ; remainder of the day clouded, and constant snow	—	—	1.0	1.0	31.7	18.9	—
13	Generally clouded with cir.-cum., strat., and haze; ceased snowing at 0 <sup>h</sup>	0.3	0.9	1.0	0.9	29.9	16.6	—
14	Generally clouded with cir.-cum. and cum.-strat.; snowing from 8 <sup>h</sup> till 13 <sup>h</sup>	1.0	1.0	1.0	1.0	23.7	10.9	—
15	Clouded all the day with cir.-cum. and haze; snowing from 19 <sup>h</sup>	1.0	1.0	1.0	1.0	26.7	14.1	—
16	Clouded all the day; dense haze; snow continued till 13 <sup>h</sup> ; turned to sleet and continued all day	1.0	1.0	1.0	1.0	33.1	23.5	—
17	Generally clouded with cir.-cum. and haze; snow and sleet till 9 <sup>h</sup>	1.0	1.0	0.4	0.0	30.3	16.5	—
18	In general clear	0.0	0.0	—	—	23.9	18.1	—
19	In general clouded with cir.-cum., cum.-strat., and haze	—	—	1.0	1.0	22.7	-0.2	—
20	Clouded all the day with cir.-strat. and haze; rain or light snow accompanied with sleet from 12 <sup>h</sup> till 23 <sup>h</sup>	1.0	1.0	1.0	1.0	25.2	6.1	—
21	Clouded all day with cir.-cum., cum.-strat., and haze	1.0	1.0	1.0	1.0	30.5	21.5	—
22	Clouded till 1 <sup>h</sup> with cir.-cum., cir.-strat., and haze; remainder of day generally clear	0.2	0.0	0.0	1.0	37.3	29.3	—
23	Clouded all day with cir.-cum., cir.-strat., and haze; constant rain from 12 <sup>h</sup>	1.0	1.0	1.0	1.0	39.1	13.7	—
24	Continued raining till 9 <sup>h</sup> ; clouded all day with cum.-strat., cir.-cum., and haze	1.0	1.0	1.0	0.7	36.7	18.4	—
25	Clear all day	0.0	0.0	—	—	37.9	22.7	—
26	In general, clear	—	—	0.0	1.0	30.1	11.4	—
27	Clouded all day with cir.-strat. and haze; slight rain from 15 <sup>h</sup>	1.0	1.0	1.0	1.0	31.1	10.3	—
28	Continued raining till 8 <sup>h</sup> ; slight snow from 9 <sup>h</sup> till 11 <sup>h</sup> ; clouded all day; dense cir.-cum. and haze	1.0	1.0	1.0	1.0	39.5	20.7	—
29	Generally clouded; cir.-cum. and haze; occasional showers of snow	1.0	0.4	0.9	0.7	42.1	29.5	—
30	Mostly clear; a few cir.-cum. occasionally	0.3	0.0	0.2	0.8	33.1	16.3	—
31	Generally clear throughout the day	0.2	0.0	0.0	1.0	24.7	11.0	—

\* Rain gauge out of order.

D.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .			
FEBRUARY.								
1	Generally clouded till 5 <sup>h</sup> ; cir.-strat. and haze; remainder of the day clear - -	0·8	0·0	—	—	15·1	-2·4	— <sup>a</sup>
2	Clouded all day; cir.-cum. and haze - - - - -	—	—	1·0	1·0	12·7	-1·7	—
3	Clouded all day; dense haze; snowing and drifting all day - - - -	1·0	1·0	1·0	1·0	18·5	-2·4	—
4	Clouded all day; dense haze; slight snow and heavy drift all day - -	1·0	1·0	1·0	1·0	24·2	17·7	—
5	Clouded all day; dense haze; slight snow and heavy drift all day - -	1·0	1·0	1·0	1·0	27·7	11·7	—
6	Clouded nearly all day; dense haze and cir.-cum.; snow drifting; latter part of the day clear - - - - -	1·0	0·5	0·0	0·1	17·7	3·1	—
7	Generally clear; a few cir.-cum. round horizon - - - - -	0·2	0·4	0·0	0·3	20·5	2·8	—
8	Clear till 8 <sup>h</sup> ; remainder of the day clouded and hazy - - - - -	0·0	1·0	—	—	28·1	10·1	—
9	Clouded all day; cir.-cum. and haze; snowing most part of the day - -	—	—	1·0	0·8	21·9	4·9	—
10	Clouded all day; cir. and haze - - - - -	1·0	1·0	1·0	1·0	28·3	8·7	—
11	Clouded all day; dense haze; misty - - - - -	1·0	1·0	1·0	1·0	33·5	25·6	—
12	Clouded at 9 <sup>h</sup> ; cir.-cum. and haze; remainder of the day clear - - -	0·1	1·0	0·0	0·1	38·9	25·7	—
13	Clear till 1 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cum.-strat., and haze; light snow from 17 <sup>h</sup> accompanied with sleet from 18 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	37·9	-1·9	—
14	Snow and sleet continued till 2 <sup>h</sup> ; clouded all day; cir.-cum. and haze - -	1·0	1·0	0·9	1·0	15·3	-4·2	—
15	Clouded all day; cir.-cum. and haze - - - - -	1·0	1·0	—	—	35·5	13·4	—
16	Clouded all day; cir.-strat. and haze - - - - -	—	—	1·0	1·0	40·3	31·5	—
17	Clouded all day; cum.-strat., cir.-cum., and haze - - - - -	1·0	1·0	1·0	1·0	40·0	31·7	—
18	Generally clouded; cir.-cum. and haze; halo round the sun at 1 <sup>h</sup> , imperfect; and round the moon at 11 <sup>h</sup> , perfect - - - - -	0·7	0·8	1·0	1·0	39·9	31·7	—
19	Generally clouded; cir.-cum. and haze; halo round the moon at 11 <sup>h</sup> , diam. 40°, perfect - - - - -	1·0	0·7	1·0	1·0	36·7	27·5	—
20	Clear from 9 <sup>h</sup> till 11 <sup>h</sup> ; remainder of the day clouded; cir.-cum. and haze - -	1·0	0·0	0·6	0·7	38·3	32·9	—
21	In general clouded; cir.-cum., cir.-strat., and haze; occasionally almost clear -	1·0	0·2	1·0	1·0	43·7	32·2	—
22	Clouded all day; cir.-cum., cir.-strat., and haze - - - - -	1·0	1·0	—	—	45·1	33·2	—
23	Generally clouded till 11 <sup>h</sup> ; remainder of the day nearly clear - - - - -	—	—	0·1	0·2	40·3	32·7	—
24	Generally clear; auroral light in N. at 8 <sup>h</sup> and 9 <sup>h</sup> - - - - -	0·3	0·0	0·0	0·5	43·9	32·7	—
25	Mostly clear till 2 <sup>h</sup> ; remainder of the day clouded; cir., cir.-strat., and haze -	0·7	1·0	1·0	1·0	43·5	34·7	—
26	Generally clear till 7 <sup>h</sup> ; cir.-cum. and haze; remainder of the day mostly clear -	1·0	0·4	0·1	0·3	49·1	34·2	—
27	Generally clouded all day; cir.-cum. and cum.-strat. - - - - -	1·0	0·2	1·0	0·9	40·3	25·5	—
28	In general clouded; cir.-cum. and cum.-strat; snow from 9 <sup>h</sup> to 13 <sup>h</sup> - - -	0·7	1·0	0·5	0·4	38·7	25·2	—
MARCH.								
1	Mostly clear till 11 <sup>h</sup> ; remainder of the day clouded - - - - -	0·1	0·1	—	—	33·9	24·7	—
2	Clouded all day; rain and snow from 9 <sup>h</sup> till 14 <sup>h</sup> - - - - -	—	—	1·0	1·0	45·3	33·7	—
3	Generally clouded till 4 <sup>h</sup> ; cir.-cum. and cir.-strat.; remainder of the day clear -	0·7	0·0	0·0	0·9	44·1	34·5	—
4	Clouded all the day; cir., cir.-strat. and haze; slight rain from 10 <sup>h</sup> accompanied by snow from 18 <sup>h</sup> till 22 <sup>h</sup> - - - - -	1·0	1·0	1·0	1·0	32·9	24·5	0·25
5	Clouded till 2 <sup>h</sup> ; cir.-cum. and haze; remainder of the day clear - - - - -	0·1	0·0	0·0	0·1	42·6	24·7	—
6	Generally clear - - - - -	0·1	0·1	0·0	0·5	45·7	25·9	—
7	Generally clouded; cir.-cum., cir. and haze; rain from 13 <sup>h</sup> till 15 <sup>h</sup> 30 <sup>m</sup> - - -	1·0	1·0	1·0	1·0	40·4	25·9	0·06
8	Clouded all day; cir.-cum., cir.-strat. and haze - - - - -	1·0	1·0	—	—	41·5	32·7	—
9	Partially clouded; cir.-strat. and haze - - - - -	—	—	0·4	1·0	55·8	32·7	—
10	Clouded all day; cir.-cum., cir.-strat. and haze; slight snow from 11 <sup>h</sup> till 16 <sup>h</sup> 30 <sup>m</sup> -	1·0	1·0	1·0	0·1	41·1	26·3	—
11	Mostly clear till 12 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir.-strat. and haze -	0·2	0·0	1·0	0·5	40·9	26·5	—
12	Generally clouded till 9 <sup>h</sup> with cir.-cum.; cum.-strat. and haze; remainder of the day clear - - - - -	0·8	0·7	0·0	1·0	37·6	28·1	—
13	Clear; auroral light in N. at 14 <sup>h</sup> - - - - -	0·1	0·0	0·0	1·0	46·4	28·2	—
14	Clouded till 7 <sup>h</sup> ; cir.-cum., cir.-strat. and haze; slight rain from 2 <sup>h</sup> till 5 <sup>h</sup> ; mostly clear -	1·0	0·2	0·4	1·0	46·1	26·2	0·08
15	Clouded all day; cir.-cum., cir.-strat. and haze; snow from 6 <sup>h</sup> till 8 <sup>h</sup> - - -	1·0	1·0	—	—	45·1	17·7	—
16	Clouded all day; cir. and haze; snowing all day with little intermission - -	—	—	1·0	1·0	24·9	6·6	—
17	Clouded all day; cir.-cum., cum.-strat. and haze; halo round the moon at 10 <sup>h</sup> and 11 <sup>h</sup> perfect; diameter about 30° - - - - -	1·0	0·6	1·0	1·0	30·7	9·9	—
18	In general clouded; cum. and cum.-strat.; snow from 1 <sup>h</sup> till 6 <sup>h</sup> - - - - -	1·0	0·6	1·0	1·0	35·2	24·9	—
19	In general clouded; cir.-cum. and haze; halo round the moon at 10 <sup>h</sup> and 11 <sup>h</sup> , diameter 35° and 30° - - - - -	1·0	1·0	0·4	1·0	29·9	19·7	—
20	Clouded all day excepting at 10 <sup>h</sup> and 11 <sup>h</sup> , which were clear - - - - -	1·0	0·9	—	—	29·2	19·2	—
21	Clouded from 12 <sup>h</sup> to 17 <sup>h</sup> ; cum.-strat., cir.-cum. and haze; remainder of the day generally clear - - - - -	—	—	1·0	0·0	32·9	16·9	—
22	Mostly clear - - - - -	0·0	0·4	—	—	38·9	16·4	—
23	Generally clouded; cum.-strat. and cir.-cum. - - - - -	—	—	1·0	1·0	43·7	26·7	—
24	Clouded till 11 <sup>h</sup> ; cir.-cum., cum.-strat. and haze; remainder of the day clear -	0·9	1·0	0·0	0·7	49·8	32·7	—
25	Generally clouded; cir.-cum. and cir.-strat.; clear spaces occasionally - - -	0·5	1·0	0·8	1·0	41·5	30·9	—
26	In general clouded; cir. and cir.-strat. - - - - -	1·0	1·0	0·6	1·0	47·7	28·9	—
27	Clouded all day; cir.-strat., cir. and haze - - - - -	1·0	1·0	1·0	1·0	52·0	34·7	—
28	In general clouded; cir., cir.-cum. and haze - - - - -	1·0	0·5	1·0	0·0	59·8	36·7	—

<sup>a</sup> Rain gauge out of order.



Toronto Mean Time.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .			
D.	MARCH.					°	°	In.
29	Clear all day	0·0	0·0	—	—	54·3	33·2	—
30	Clouded from 12 <sup>h</sup> to 7 <sup>h</sup> ; cir. and haze; remainder of the day generally clear	—	—	1·0	1·0	62·7	33·4	—
31	Clear from 9 <sup>h</sup> to 12 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir.-strat., and haze; slight rain at 17 <sup>h</sup> and 18 <sup>h</sup>	1·0	0·0	1·0	1·0	59·2	41·2	—
	APRIL.							
1	Clear from 8 <sup>h</sup> till 14 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir.-strat., and haze	1·0	0·0	0·9	0·5	63·3	47·2	—
2	Generally clouded; cir.-cum. and cum.-strat.; showers of rain at 0 <sup>h</sup> ; snow from 12 <sup>h</sup> till 14 <sup>h</sup>	0·8	0·1	0·6	0·4	48·3	26·7	0·04
3	Mostly clear till 2 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir.-strat., and haze; snow from 6 <sup>h</sup> till 8 <sup>h</sup>	1·0	1·0	1·0	0·2	53·0	26·1	—
4	Partially clouded; cir.-cum.; cir.-strat. and haze	0·9	0·4	0·5	0·6	39·6 <sup>a</sup>	27·7 <sup>a</sup>	—
5	Partially clear till 4 <sup>h</sup> ; remainder of the day clear	0·8	0·0	—	—	43·9	24·7	—
6	Clear and clouded alternately; snowing from 15 <sup>h</sup> till 20 <sup>h</sup>	—	—	1·0	1·0	36·9	17·9	—
7	Clouded till 6 <sup>h</sup> ; cir.-cum. and haze; remainder of the day mostly clear; snow at 19 <sup>h</sup> and 20 <sup>h</sup>	1·0	0·0	0·4	0·8	41·7	15·5	—
8	Mostly clouded till 2 <sup>h</sup> ; cum.-strat. and cir.-cum.; remainder of the day clear	0·2	0·0	0·0	1·0	35·9	19·1	—
9	Clouded from 1 <sup>h</sup> till 8 <sup>h</sup> and from 15 <sup>h</sup> till 17 <sup>h</sup> ; cir.-strat. and haze; remainder of the day generally clear	1·0	0·0	1·0	0·8	34·1	18·4	—
10	In general clouded; cir., cir.-cum., cum.-strat., and haze	0·7	1·0	1·0	0·7	43·4	21·7	—
11	Generally clear; clouded from 23 <sup>h</sup> ; cir., cir.-strat., and haze; halo and parhelia round the sun at 21 <sup>h</sup> ; diameter of halo 30°; perfect and very bright	0·0	0·0	0·2	0·4	50·8	33·1	—
12	Continued cloudy till 11 <sup>h</sup> ; cir., cir.-stat., and haze; remainder of the day generally clear	1·0	0·8	—	—	45·1	26·7	—
13	Generally clear; auroral light in N. from 11 <sup>h</sup> till 15 <sup>h</sup>	—	—	0·0	0·0	48·3	29·7	—
14	Generally clear	0·0	0·3	0·1	0·0	66·3	37·2	—
15	Clear till 1 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir.-strat., and haze	0·8	0·8	1·0	1·0	61·5	31·8	—
16	Clouded all day; cir.-cum. and haze; rain from 2 <sup>h</sup> till 11 <sup>h</sup> and at 17 <sup>h</sup>	1·0	1·0	1·0	1·0	63·7	35·7	0·28
17	Clouded all day; cir.-cum., cum.-strat.; slight rain from 2 <sup>h</sup> till 15 <sup>h</sup>	1·0	1·0	1·0	1·0	49·5	36·7	0·18
18	Clouded all day; cir.-cum. and haze; raining at intervals; thunder at 8 <sup>h</sup> , and from 12 <sup>h</sup> till 15 <sup>h</sup> , accompanied by rain	1·0	1·0	1·0	1·0	44·3	37·3	0·32
19	Clouded all day; cir.-cum., cir.-strat., and haze; drizzling rain nearly all day	1·0	1·0	—	—	46·1	41·5	0·34
20	Generally clouded; cir.-cum., cir.-strat., and haze	—	—	1·0	1·0	46·3	40·7	—
21	Clouded till 7 <sup>h</sup> ; cum.-strat. and cir.-cum.; remainder of the day clear	1·0	0·1	0·0	0·1	46·4	40·7	—
22	Clouded all day; cir.-cum. and cir.-strat.	0·8	0·6	1·0	0·8	49·4	33·7	—
23	Generally clouded; cir. and haze; rain and distant thunder in N.W. from 5 <sup>h</sup> till 8 <sup>h</sup>	1·0	0·7	0·2	1·0	53·0	37·3	0·35
24	Clouded all day; cir.-cum., cum.-strat., and haze; rain and thunder from 4 <sup>h</sup> till 6 <sup>h</sup> , and from 1 <sup>h</sup> till 16 <sup>h</sup>	1·0	1·0	1·0	1·0	66·5	46·2	0·25
25	Clouded all day; cum.-strat. and cir.-cum.; slight rain occasionally	1·0	1·0	1·0	1·0	66·7	43·5	0·24
26	Generally clouded; cir.-cum., cir.-strat., and haze	0·4	1·0	—	—	49·8	40·2	—
27	Clouded till 11 <sup>h</sup> ; remainder of the day clear	—	—	0·0	1·0	57·6	39·4	—
28	Generally clouded till 11 <sup>h</sup> ; cir.-strat., strat., and haze; remainder of the day clear	0·6	1·0	0·0	0·4	61·0	36·2	—
29	Partially clouded all day; cir., cir.-strat., and haze; thunder, lightning, and rain from 18 <sup>h</sup> till 20 <sup>h</sup>	0·4	0·4	0·6	0·9	62·5	40·3	—
30	Generally clouded; cir.-cum., cum., and cir.-strat., thunder, lightning, and rain from 6 <sup>h</sup> till 13 <sup>h</sup>	0·8	1·0	0·8	0·7	59·7	45·7	1·31
	MAY.							
1	Partially clear; clouds; cir.-cum. and cum. widely dispersed	0·2	0·6	0·9	0·1	61·2	45·7	—
2	Clear; clouded from 18 <sup>h</sup> ; cir. and cir.-strat.	0·0	0·0	0·0	1·0	68·3	41·1	—
3	Mostly clouded; cir., cir.-strat., and haze; halo round the sun at 1 <sup>h</sup> , diameter 30°, perfect	1·0	0·7	—	—	58·8	39·7	—
4	Clouded till 12 <sup>h</sup> ; cir.-cum., cir.-strat., and cum.; remainder of the day clear	—	—	0·0	0·2	63·3	42·2	—
5	In general clear	0·1	0·0	0·0	0·1	60·8	31·9	—
6	Nearly clear till 14 <sup>h</sup> ; remainder of the day clouded; cir.-strat. and haze	0·1	0·1	1·0	0·9	52·6	30·9	—
7	Clouded till 1 <sup>h</sup> ; cir.-cum. and cir.-strat.; remainder of the day clear	0·3	0·0	0·0	0·0	57·0	38·9	—
8	Clear till 2 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir.-strat., and haze	1·0	1·0	0·3	0·0	49·0	27·8	—
9	Clouded at 3 <sup>h</sup> , 4 <sup>h</sup> , 15 <sup>h</sup> , and 16 <sup>h</sup> ; cir.-cum. and haze	0·8	0·0	0·7	0·0	51·3	34·5	—
10	Clear all the day	0·0	0·0	—	—	57·0	37·5	—
11	Clear all the day	—	—	0·0	0·0	62·0	42·5	—
12	Generally clear; at 7 <sup>h</sup> and 8 <sup>h</sup> clouded; cir.-cum. and haze; clouded from 18 <sup>h</sup> till 21 <sup>h</sup> ; cir.-cum., cir.-strat., and cir.	0·0	0·0	0·2	1·0	76·0	50·1	—
13	Generally clear; rain throughout the 23rd hour	0·5	0·0	0·0	1·0	77·8	53·8	0·27
14	In general clouded; cir.-cum., cir.-strat., and haze; lightning and thunder in N.W. N., and N.E. from 7 <sup>h</sup> till 13 <sup>h</sup> ; rain from 16 <sup>h</sup> till 17 <sup>h</sup>	1·0	0·5	1·0	1·0	75·3	52·5	0·27
15	Clouded till 3 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; remainder of the day clear	0·8	0·0	0·0	0·0	66·7	43·7	—

<sup>a</sup> Taken from the highest and lowest of the Standard Thermometer.

Toronto Mean Time.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .			
	MAY.							
D.	Clear all day	0.0	0.0	0.0	0.0	50.0	30.7	In.
16	Clear till 2 <sup>h</sup> ; remainder of the day mostly clouded; cir.-cum., cir., and haze	0.5	0.8	—	—	51.0	34.1	—
17	Mostly clear	—	—	0.1	0.1	61.2	38.7	—
18	Mostly clouded all day; cir.-cum. and cum.-strat.; lightning, thunder, and rain at 2 <sup>h</sup> and 8 <sup>h</sup>	0.7	0.4	0.8	0.2	69.3	50.7	0.68
19	In general clear; cir.-cum. dispersed occasionally	0.4	0.1	0.0	0.2	68.7	42.2	—
20	In general clear till 13 <sup>h</sup> ; remainder of the day clouded; cir.-cum. and haze; slight rain from 23 <sup>h</sup>	0.3	0.0	1.0	1.0	57.0	36.2	—
21	Clouded till 3 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; remainder of the day clear; slight rain continued till 6 <sup>h</sup>	1.0	0.0	0.0	0.2	62.7	36.7	0.50
22	In general, clear	0.4	0.0	0.1	0.0	52.2	33.1	—
23	Generally clear	0.7	0.1	—	—	63.3	36.2	—
24	Mostly clouded; cir., cir.-cum., and haze; halo round the sun at 3 <sup>h</sup> , diameter about 30° perfect; slight rain at 18 <sup>h</sup>	—	—	1.0	0.7	53.2	33.5	—
25	Mostly clear; clouded from 18 <sup>h</sup> to 23 <sup>h</sup>	0.2	0.1	0.3	1.0	59.8	40.2	—
26	Clouded from 4 <sup>h</sup> till 8 <sup>h</sup> , and from 16 <sup>h</sup> till 17 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; remainder of the day mostly clear	0.3	0.3	—	1.0	76.1	49.7	—
27	Clouded; cir.-cum. and cum.-strat.; showery; occasional lightning and thunder	1.0	1.0	1.0	1.0	72.8	41.0	0.28
28	Clouded till 1 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; remainder of the day clear	0.3	0.0	0.0	0.0	70.0	35.5	—
29	Clear	0.0	0.1	0.0	0.0	43.7	30.2	—
30	Clear	0.0	0.0	—	—	56.8	33.2	—
31								
	JUNE.							
1	In general clear	—	—	0.3	0.7	65.3	38.5	—
2	In general clouded; cir., cir.-cum., and haze; occasionally a little clear; halo round the sun at 19 <sup>h</sup> ; diameter about 35° imperfect	0.7	0.2	0.5	1.0	67.5	45.7	—
3	Clouded till 1 <sup>h</sup> ; cir. and haze; remainder of the day partially clear; halo round the sun from 20 <sup>h</sup> till 4 <sup>h</sup> 0 <sup>h</sup> , diameter 40° perfect	0.4	0.0	0.0	0.9	72.3	51.5	—
4	Clouded all day except at 9 <sup>h</sup> and 10 <sup>h</sup> , when it was almost clear; cir.-cum. and cir.-strat.; thunder and lightning in W. from 5 <sup>h</sup> till 14 <sup>h</sup>	1.0	0.2	1.0	0.4	74.2	52.1	0.04
5	Clear from 0 <sup>h</sup> till 5 <sup>h</sup> ; remainder of the day mostly clouded; cir.-cum., cir.-strat., and haze	0.0	1.0	0.9	1.0	77.0	53.8	—
6	Generally clouded; cir.-cum., cir.-strat., and haze; slight rain from 1 <sup>h</sup> till 3 <sup>h</sup> ; sheet lightning in S. and S.W. from 9 <sup>h</sup> till 12 <sup>h</sup> ; lightning, thunder, and rain from 19 <sup>h</sup> till 7 <sup>h</sup> 0 <sup>h</sup>	1.0	0.3	0.8	1.0	66.5	47.3	0.25
7	Generally clouded; cum., cir.-cum., and haze	0.8	1.0	—	—	59.6	44.7	—
8	Unclouded; hazy; faint auroral light at 13 <sup>h</sup> and 14 <sup>h</sup>	—	—	0.0	0.2	63.5	52.0	—
9	Mostly clear; light cir. and cir.-strat. occasionally	0.5	0.0	0.0	0.6	81.1	56.2	—
10	Generally clouded; cum.-strat., cir.-cum., and haze; rain from 6 <sup>h</sup> till 14 <sup>h</sup> ; sheet lightning at 13 <sup>h</sup> and 14 <sup>h</sup>	1.0	1.0	0.7	1.0	84.6	52.9	1.25
11	Clouded all day; cir.-cum., cir.-strat., and haze; lightning, thunder, and heavy rain from 11 <sup>h</sup> till 17 <sup>h</sup> ; slight rain from 21 <sup>h</sup> till 22 <sup>h</sup>	1.0	1.0	1.0	1.0	80.0	57.5	0.92
12	Generally clouded till 13 <sup>h</sup> ; cir.-cum., cir.-strat., and haze	1.0	0.6	0.0	0.1	72.8	57.5	—
13	Mostly clear till 4 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir., and haze; slight rain from 11 <sup>h</sup> till 13 <sup>h</sup>	0.3	1.0	1.0	0.1	76.3	57.5	0.03
14	Generally clear; except some light cir. occasionally	0.6	0.1	—	—	73.8	53.7	—
15	Clear from 12 <sup>h</sup> till 17 <sup>h</sup> ; remainder of the day clouded; cir.-cum. and haze; rain from 3 <sup>h</sup> 30 <sup>m</sup> till 13 <sup>h</sup> 30 <sup>m</sup>	—	—	0.1	0.8	67.5	41.2	0.58
16	Clouded till 9 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; remainder of the day clear; slight rain from 2 <sup>h</sup> till 5 <sup>h</sup>	1.0	1.0	0.0	0.2	59.7	50.5	0.03
17	Generally clear; detached cir.-cum. dispersed occasionally	0.2	0.8	0.2	0.3	60.7	39.6	—
18	Generally clear; detached cir.-cum. dispersed occasionally	0.5	0.7	0.2	0.1	66.1	40.3	—
19	Generally clear	0.0	0.2	0.0	0.2	68.5	42.7	—
20	Partially clear till 4 <sup>h</sup> ; remainder of the day densely clouded; cum.-strat. and cir.-cum.	0.8	0.4	1.0	0.5	72.8	42.7	—
21	Partially clear all day; clouds; cir. and haze	0.2	0.8	—	—	71.8	54.7	—
22	Mostly clouded till 13 <sup>h</sup> ; haze; remainder of the day nearly clear	—	—	0.2	0.1	73.0	46.0	—
23	Partially clouded all day; cir.-cum. detached	0.2	0.8	0.6	0.7	66.7	49.7	—
24	Partially clear; clouds; cir.-cum., cum.-strat., and cir.	0.4	0.9	0.5	0.2	81.8	57.9	—
25	In general clear	0.1	0.0	0.0	0.0	79.8	54.5	—
26	In general clear	0.2	0.0	0.0	0.2	68.3	42.5	—
27	Mostly clear till 11 <sup>h</sup> ; remainder of the day clouded; cir., cir.-cum., and haze; occasional sheet lightning; rain from 18 <sup>h</sup>	0.2	0.3	1.0	1.0	74.4	46.3	0.63
28	Rain continued till 3 <sup>h</sup> ; generally clouded; cir.-cum. and cir.-strat.; heavy shower of rain at 12 <sup>h</sup>	1.0	0.4	—	—	76.2	54.7	0.63
29	Generally clouded; cir.-cum. and cum.-strat. detached	—	—	0.4	1.0	63.7	54.3	—
30	Generally clouded; partially at intervals; auroral light in N. at 10 <sup>h</sup>	0.4	0.8	0.2	0.8	66.9	52.3	—

Toronto Mean Time.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .			
JULY.								
D.						°	°	In.
1	Clouded all day: cir.-cum. and cum.-strat.; rain from 1 <sup>h</sup> 30 <sup>m</sup> till 5 <sup>h</sup> , and from 11 <sup>h</sup> till 12 <sup>h</sup> ; sheet lightning in the W. from 10 <sup>h</sup> till 12 <sup>h</sup>	1.0	1.0	1.0	1.0	59.5	47.9	0.76
2	Clouded till 11 <sup>h</sup> ; cir.-cum. and cum.-strat.; slight rain at 3 <sup>h</sup> and 5 <sup>h</sup> ; remainder of the day mostly clear	1.0	1.0	0.4	0.7	58.0	48.4	—
3	Generally clouded; cir.-cum. and cir. dispersed; clear spaces	0.5	0.7	0.8	1.0	66.7	46.5	—
4	Mostly clouded till 1 <sup>h</sup> ; cir.-cum. and cum.; remainder of the day generally clear	0.1	0.4	0.1	0.0	66.2	49.7	—
5	Generally clear	0.2	0.1	—	—	67.5	45.9	—
6	Mostly clear; light cir. and haze occasionally	—	—	0.3	0.3	74.6	53.5	—
7	Generally clear; detached cum. and cir.-cum. occasionally	0.2	0.7	0.0	0.4	79.5	60.0	—
8	Generally clear; except occasional light cir.	0.1	0.0	0.0	0.1	83.6	55.4	—
9	Clear all day with very slight exceptions	0.1	0.1	0.0	0.0	84.0	52.9	—
10	Generally clear; overcast with haze from 19 <sup>h</sup> till 21 <sup>h</sup>	0.0	0.0	0.0	1.0	76.8	47.9	—
11	Quite clear all day	0.0	0.0	0.0	0.0	80.3	51.9	—
12	Generally clear	0.2	0.0	—	—	89.0	60.4	—
13	Partially clouded during most of the day; totally clouded from 13 <sup>h</sup> till 17 <sup>h</sup> ; cir.-cum. and haze	—	—	1.0	0.9	95.0	69.0	—
14	Generally clouded till 9 <sup>h</sup> ; cir.-cum. dispersed; remainder of the day clear	0.5	0.5	0.0	0.2	91.0	69.2	—
15	Generally clear	0.0	0.0	0.2	0.6	89.6	61.4	—
16	Mostly clouded cum. and cum.-strat.; thunder and lightning from 1 <sup>h</sup> till 2 <sup>h</sup> ; sheet lightning om 9 <sup>h</sup> till 12 <sup>h</sup> , and slight rain	1.0	1.0	1.0	1.0	88.8	58.7	0.03
17	Mostly clouded till 4 <sup>h</sup> ; detached cum. and cir.-cum.; clear intervals; remainder of the day clear	0.5	0.5	0.0	0.0	88.0	66.0	—
18	Generally clear till 10 <sup>h</sup> ; remainder of the day clouded; cir., cir.-strat., cir.-cum., and haze; halo round the moon at 13 <sup>h</sup> , diameter about 35°, perfect	0.2	0.0	1.0	1.0	88.0	56.5	—
19	Generally clear	0.1	0.3	—	—	79.8	50.6	—
20	Generally clouded; cir.-cum. and haze	—	—	0.0	0.2	75.3	58.5	—
21	Clear from 12 <sup>h</sup> till 22 <sup>h</sup> , remainder of the day clouded with cir.-cum. and cum.-strat.; heavy storm of thunder and lightning accompanied by rain from 5 <sup>h</sup> 50 <sup>m</sup> till 6 <sup>h</sup> 10 <sup>m</sup> , passing from N. to S.	0.9	0.8	0.0	0.0	82.6	65.2	0.52
22	Clouded with cir.-cum. and cum.-strat. till 8 <sup>h</sup> , remainder of the day clear; distant thunder in N.W. at 7 <sup>h</sup>	0.6	0.2	0.2	0.6	89.0	59.0	—
23	Generally clear till 6 <sup>h</sup> ; remainder of the day clouded with cir.-cum. and cum.-strat.	0.3	0.9	1.0	1.0	78.0	57.2	—
24	Generally clouded till 10 <sup>h</sup> ; detached cir.-cum. and cir.-strat.; remainder of the day clear; auroral light in N. from 11 <sup>h</sup> till 15 <sup>h</sup>	0.6	0.5	0.1	0.4	67.3	53.7	—
25	Partially clear all day	0.8	0.4	0.6	0.7	71.6	49.5	—
26	Generally clouded; cir.-strat. and haze; clear spaces occasionally	0.4	1.0	—	—	78.6	50.9	—
27	Generally clouded; cir.-cum. scattered; clear intervals	—	—	1.0	0.4	79.0	54.0	—
28	Partially clear till 11 <sup>h</sup> ; remainder of the day clouded; cir.-strat., cum.-strat., and haze; slight rain from 21 <sup>h</sup>	0.0	0.7	1.0	1.0	77.8	59.8	0.05
29	Generally clouded; cir.-cum. and haze; rain ceased at 0 <sup>h</sup> ; storm of thunder and lightning accompanied by rain between 4 <sup>h</sup> and 5 <sup>h</sup> ; passing from S.W. to N.E.; lasting about 30 <sup>m</sup>	1.0	1.0	0.7	1.0	73.2	52.7	0.72
30	Generally clouded; cir.-cum. and haze	1.0	1.0	0.3	0.1	69.8	56.0	—
31	Mostly clear; a few cir.-cum. dispersed about	0.2	0.1	1.0	0.4	60.8	45.7	—
AUGUST.								
1	Mostly clouded till 7 <sup>h</sup> ; cir.-cum. and cir.-strat.; remainder of the day clear; auroral light in N. from 9 <sup>h</sup> till 11 <sup>h</sup>	1.0	0.0	0.0	0.2	67.9	48.5	—
2	Generally clear; cum. and cir.-cum. round horizon; auroral light in N. at 10 <sup>h</sup> and 11 <sup>h</sup>	0.3	0.2	—	—	74.0	44.7	—
3	Generally clear	—	—	0.1	0.3	73.2	41.5	—
4	Generally clear	0.2	0.0	0.0	0.0	75.8	52.3	—
5	Generally clear	0.2	0.0	0.0	0.1	80.8	52.3	—
6	Clouded from 1 <sup>h</sup> till 6 <sup>h</sup> ; cir.-strat. and cir.-cum.; remainder of the day clear	0.8	0.0	0.0	0.3	80.2	55.3	—
7	Clear at 9 <sup>h</sup> and 11 <sup>h</sup> ; remainder of the day mostly clouded; cir.-cum., cir., and haze; slight rain from 18 <sup>h</sup> till 20 <sup>h</sup>	0.6	0.0	1.0	1.0	80.6	56.3	0.08
8	Generally clouded; cir.-strat., cir.-cum., and haze; sheet lightning from 9 <sup>h</sup> till 11 <sup>h</sup> in S.E. and S.W.	1.0	0.8	0.7	0.5	84.8	56.1	—
9	Partially clear	0.4	0.5	—	—	78.0	62.6	—
10	Generally clouded; nim. and cum.-strat.; rain during the day and distant thunder	—	—	1.0	1.0	82.6	59.5	0.10
11	Generally clouded; cir.-cum., nim., and haze; rain from 0 <sup>h</sup> 20 <sup>m</sup> till 1 <sup>h</sup> 20 <sup>m</sup> , accompanied by lightning and thunder; clear from 18 <sup>h</sup> till 23 <sup>h</sup>	1.0	0.4	0.5	0.0	81.3	64.0	0.12
12	Generally clouded; cir. and haze; slight rain from 20 <sup>h</sup>	0.8	0.7	0.4	1.0	77.8	57.2	0.05
13	Rain ceased at 0 <sup>h</sup> ; clouded till 7 <sup>h</sup> and from 10 <sup>h</sup> till 12 <sup>h</sup> ; cir.-cum., cir.-strat. and haze, remainder of the day clear; moderate rain between 2 <sup>h</sup> and 3 <sup>h</sup> ; thunder and rain at 11 <sup>h</sup>	1.0	0.1	0.0	0.0	79.8	53.3	0.19
14	Generally clear till 9 <sup>h</sup> , remainder of the day clouded; cir.-cum., cum., and cir.-strat.	0.5	0.5	1.0	0.5	70.8	55.2	—

Toronto Mean Time.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .			
AUGUST.								
D.						°	°	In.
15	Partially clouded; cir. and cir-cum. generally dispersed	0.0	0.6	0.7	0.0	74.9	55.3	—
16	Clear and unclouded	0.0	0.0	—	—	74.8	58.0	—
17	Generally clouded; cir. and haze; rain from 8 <sup>h</sup> till 12 <sup>h</sup> ; a slight shower at 20 <sup>h</sup> and 21 <sup>h</sup>	—	—	1.0	1.0	78.6	55.5	0.46
18	Generally clouded; cir-cum. and cum-strat.; slight shower of rain at 0 <sup>h</sup> and 20 <sup>h</sup>	0.6	1.0	0.2	1.0	79.2	57.4	0.03
19	Generally clouded; cir-cum., cir-strat., and haze	0.3	1.0	0.4	0.4	82.0	65.2	—
20	Generally clear; some light cum. and cir-cum. occasionally	0.3	0.2	0.6	0.3	74.5	61.8	—
21	Partially clouded; cir-cum. and cum.	0.8	0.5	0.8	0.3	79.9	60.5	—
22	Generally unclouded; but hazy	0.2	0.1	0.0	0.3	82.0	62.5	—
23	Generally clear; light cir. and cir-strat. occasionally	0.8	0.0	—	—	80.7	56.7	—
24	Generally clear	—	—	0.0	0.8	81.3	59.5	—
25	Partially clouded till 4 <sup>h</sup> ; cir-strat. and cir-cum.; remainder of the day clear	0.6	0.0	0.0	0.3	80.6	51.2	—
26	Generally clear; rain with lightning and thunder from 19 <sup>h</sup> till 21 <sup>h</sup>	0.2	0.0	0.1	1.0	79.1	55.7	—
27	Clouded till 6 <sup>h</sup> ; cir-cum., cir-strat., and haze; remainder of the day mostly clear	1.0	0.4	0.0	0.6	76.3	60.5	0.26
28	Generally clear	0.1	0.0	0.0	0.8	67.0	55.0	—
29	Clouded all day; cir-cum., cir-strat., and haze; rain with lightning and thunder from 8 <sup>h</sup> till 16 <sup>h</sup>	1.0	1.0	1.0	1.0	67.3	52.1	0.44
30	Clouded most of the day; cir-cum. and cum-strat.	0.7	0.9	—	—	78.6	58.8	—
31	Mostly clear; clouded from 18 <sup>h</sup>	—	—	0.0	1.0	77.1	52.7	—
SEPTEMBER.								
1	Clouded all day; cir-cum., cir-strat., and haze; raining from 2 <sup>h</sup> till 2 <sup>h</sup> 30 <sup>m</sup> , and from 5 <sup>h</sup> till 13 <sup>h</sup>	1.0	1.0	—	1.0	70.6	51.2	0.63
2	In general clouded; cir-cum., and cir-strat.; slight rain from 5 <sup>h</sup> till 8 <sup>h</sup> ; sheet lightning in S.W. and S. horizons from 8 <sup>h</sup> till 12 <sup>h</sup>	1.0	0.6	0.1	0.0	71.6	55.2	0.05
3	Mostly clear; cir-cum. and cum-strat. floating about occasionally; clouded from 18 <sup>h</sup>	0.8	0.0	0.6	1.0	75.0	51.7	—
4	Clouded till 1 <sup>h</sup> ; cir-cum., cir-strat., and haze; remainder of the day clear	0.2	0.0	0.1	0.4	79.6	53.8	—
5	Mostly clouded till 4 <sup>h</sup> ; cir-cum.; remainder of the day generally clear; showers of rain from 3 <sup>h</sup> till 5 <sup>h</sup>	0.8	0.0	0.4	1.0	78.2	54.0	0.06
6	Generally clouded; cir-cum. and cir-strat.; sheet lightning and distant thunder in W. and N.W. at 9 <sup>h</sup> ; rain from 9 <sup>h</sup> till 11 <sup>h</sup>	1.0	1.0	—	—	70.6	46.0	0.06
7	Generally clear	—	—	0.1	0.1	70.8	47.5	—
8	Mostly clear; light cir-cum. and cir-strat. round horizon; thunder-storm with heavy gusts of wind from 18 <sup>h</sup> till 19 <sup>h</sup> 30 <sup>m</sup> ; cleared suddenly	0.2	0.5	0.0	0.2	74.0	39.7	—
9	In general clear; partially clouded from 18 <sup>h</sup> ; showers in the 23rd hour	0.8	0.3	0.1	0.4	69.2	41.7	0.33
10	Partially clouded till 5 <sup>h</sup> ; cir-cum. and cum-strat.; clear till 21 <sup>h</sup> ; remainder clouded	0.4	0.0	0.0	0.6	66.9	46.0	—
11	Mostly clouded till 5 <sup>h</sup> ; cir-cum. dispersed; partially clouded from 18 <sup>h</sup> ; remainder of the day clear	0.6	0.0	0.0	0.2	62.9	40.3	—
12	Partially clouded till 6 <sup>h</sup> ; remainder of the day clouded; cir., cir-strat., and haze; halos round the sun at 2 <sup>h</sup> , and round the moon at 8 <sup>h</sup> ; diameters about 30° and 40°, imperfect	0.5	1.0	1.0	1.0	63.1	40.9	—
13	Clouded all day; cir-strat., cir-cum., and haze; raining from 0 <sup>h</sup> till 11 <sup>h</sup>	1.0	1.0	—	—	57.0	43.5	1.00
14	Generally clouded till 11 <sup>h</sup> ; cir-cum. and cir-strat.; remainder of the day quite clear; showers during the day	—	—	0.0	0.3	63.3	53.8	0.83
15	Generally clear	0.1	0.0	0.0	0.6	69.0	48.5	—
16	Clear at 9 <sup>h</sup> and 10 <sup>h</sup> ; remainder of the day partially clouded; cir-cum. dispersed	0.5	0.0	0.6	1.0	68.5	34.0	—
17	Generally clouded; cir-cum., cum-strat., and haze; thunder, lightning, and rain, accompanied by hail, from 19 <sup>h</sup> till 20 <sup>h</sup>	1.0	0.5	0.4	0.8	57.6	37.7	0.08
18	Mostly clouded till 1 <sup>h</sup> ; cum-strat., cir-cum., and haze; remainder of the day clear	0.5	0.1	0.0	0.0	64.8	39.9	—
19	Clear till 7 <sup>h</sup> ; remainder of the day clouded; cir-strat., cir-cum., and haze; heavy storm of lightning, thunder, and rain, from 22 <sup>h</sup> till 20 <sup>h</sup> 2 <sup>h</sup>	0.3	1.0	1.0	1.0	74.5	46.2	1.02
20	Storm ceased at 2 <sup>h</sup> ; mostly clouded; cir-cum., cum-strat., and haze; clear from 18 <sup>h</sup>	1.0	0.3	—	—	63.0	46.2	0.05
21	Generally clear; lightly clouded from 18 <sup>h</sup>	—	—	0.0	0.3	58.0	40.9	—
22	Generally clouded; cir-cum. and haze; rain from 11 <sup>h</sup> till 18 <sup>h</sup> ; constant rain from 18 <sup>h</sup> till 23 <sup>h</sup>	0.7	1.0	1.0	1.0	55.6	35.0 <sup>a</sup>	0.10
23	Clouded all day; cir-cum., cum., and haze; slight rain at intervals from 18 <sup>h</sup> till 24 <sup>h</sup>	1.0	1.0	0.8	1.0	55.4	35.9	0.88
24	Generally clouded till 11 <sup>h</sup> ; cum-strat., cir-cum., and haze; remainder of the day nearly clear; aurora from 9 <sup>h</sup> till 15 <sup>h</sup>	1.0	0.6	0.0	0.9	52.4	43.0	—
25	In general clouded; cir-cum. and haze; faint auroral light in N. at 9 <sup>h</sup> and 10 <sup>h</sup>	1.0	0.6	1.0	1.0	52.0	41.7	—
26	Clouded till 6 <sup>h</sup> ; cir-cum. and cir-strat.; and from 18 <sup>h</sup> ; remainder of the day clear; showery	0.9	0.0	0.0	1.0	57.2	42.2	0.39
27	Clouded till 2 <sup>h</sup> and at 6 <sup>h</sup> ; cir. and cir-cum.; remainder of the day generally clear; slight rain from 20 <sup>h</sup> till 21 <sup>h</sup>	0.3	0.0	—	—	59.7	36.0	0.03
28	Partially clouded; dense cir-cum. and haze	—	—	1.0	0.1	58.0	38.7	—
29	Partially clear till 2 <sup>h</sup> ; remainder of the day clouded; cir-strat., cir., and haze; slight rain from 13 <sup>h</sup> till 22 <sup>h</sup>	0.7	1.0	1.0	1.0	62.2	50.6	0.05
30	Clouded till 9 <sup>h</sup> ; cir., cir-cum., and haze; remainder of the day clear and clouded alternately; rain from 4 <sup>h</sup> till 7 <sup>h</sup> , and at 12 <sup>h</sup>	1.0	1.0	0.0	0.5	69.8	56.0	0.61

<sup>a</sup> Taken from the lowest reading of the Standard Thermometer.

Toronto Mean Time.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3h.	9h.	15h.	21h.			
OCTOBER.								
D.						°	°	In.
1	Clouded till 5 <sup>h</sup> ; cir.-cum. and cum.; remainder of the day mostly clear; slight rain at 4 <sup>h</sup>	1.0	0.1	0.0	0.0	63.7	50.4	—
2	Clouded all day with cir.-cum., cir.-strat., and haze; rain from 19 <sup>h</sup> till 20 <sup>h</sup>	0.9	1.0	1.0	1.0	59.5	40.7	—
3	Densely clouded all day; cir.-cum., cir., and haze; rain from 11 <sup>h</sup> till 17 <sup>h</sup>	1.0	1.0	1.0	1.0	59.6	46.0	0.24
4	Clouded with cir.-cum., cir.-strat., and haze till 8 <sup>h</sup> ; remainder of the day partially clear	1.0	0.4	—	—	56.8	49.9	—
5	Clouded till 3 <sup>h</sup> ; cir.-cum., cum., and haze; showery; clear from 12 <sup>h</sup>	—	—	0.0	0.1	58.2	45.8	0.13
6	Generally clear all day	0.3	0.0	0.3	0.5	59.5	30.7	—
7	Mostly clouded; cir.-strat., cir., and haze; slight rain at 8 <sup>h</sup> and 9 <sup>h</sup>	1.0	1.0	1.0	1.0	50.3	33.7	0.08
8	Clouded all day; cir.-cum. and haze; rain from 2 <sup>h</sup> till 11 <sup>h</sup>	1.0	1.0	1.0	0.8	55.3	36.2	0.65
9	Mostly clear from 2 <sup>h</sup> till 8 <sup>h</sup> , and from 12 <sup>h</sup> till 16 <sup>h</sup> ; remainder of the day clouded with cir.-cum.	0.5	0.8	0.0	0.8	59.0	45.6	—
10	Clouded all day; cir.-cum., cir.-strat., and haze; halo round the moon at 6 <sup>h</sup> , diameter 30°, imperfect	1.0	1.0	1.0	1.0	63.3	46.1	—
11	Clouded all day; cir.-cum., cum.-strat., and haze; rain from 7 <sup>h</sup> till 17 <sup>h</sup>	1.0	1.0	—	—	59.8	46.1	0.20
12	Generally clouded; cir.-cum., cir.-strat., and haze; occasional showers of rain	—	—	1.0	0.0	56.2	44.7	0.27
13	Mostly clear till 11 <sup>h</sup> ; remainder of the day clouded; cir.-cum. and haze; rain from 18 <sup>h</sup> till 20 <sup>h</sup>	0.7	0.3	1.0	1.0	49.8	33.2	0.05
14	Generally clouded till 10 <sup>h</sup> ; cir.-cum., cir.-strat., and haze; remainder of the day clear; slight snow at 23 <sup>h</sup>	0.3	1.0	0.0	0.4	54.3	35.7	—
15	Generally clear till 13 <sup>h</sup> ; clouded till 18 <sup>h</sup> ; cir.-cum. and haze; remainder of the day clear	0.6	0.0	1.0	0.5	52.8	24.7	—
16	Generally clear all day	0.1	0.0	0.0	0.2	44.2	27.1	—
17	Mostly clear till 14 <sup>h</sup> ; clouded till 21 <sup>h</sup> ; cir.-cum. and cum.-strat.; remainder of the day clear	0.0	0.0	0.7	0.0	47.7	29.4	—
18	Clear till 1 <sup>h</sup> ; remainder of the day partially clouded; cir.-cum., cir.-strat., and haze	0.5	0.6	—	—	51.8	32.2	—
19	Generally clouded all day; cir.-cum. and haze	—	—	1.0	1.0	58.1	34.7	0.07
20	Clouded till 5 <sup>h</sup> ; cir.-strat. and haze; and from 18 <sup>h</sup> till 24 <sup>h</sup> ; cir.-cum. and cum.-strat.; remainder of the day clear; auroral light in N. from 13 <sup>h</sup> till 15 <sup>h</sup>	1.0	0.0	0.0	1.0	64.0	38.0	—
21	Generally clouded till 10 <sup>h</sup> ; cir.-cum. and cum.-strat.; and from 18 <sup>h</sup> till 22 <sup>h</sup> ; cir.-cum. and cir.-strat.; remainder of the day clear	0.4	1.0	0.0	0.6	42.0	21.4	—
22	Clear all day	0.0	0.0	0.0	0.0	34.2	19.7	—
23	Clear till 4 <sup>h</sup> ; remainder of the day clouded; cir.-cum. and haze	0.0	0.7	1.0	0.0	40.9	21.3	—
24	Quite clear till 22 <sup>h</sup> ; remainder of the day clouded; cir.-cum. and haze	0.0	0.0	0.0	0.0	49.8	23.2	—
25	Clouded all day; cir.-cum., cir.-strat., and haze	1.0	1.0	—	—	54.3	33.2	—
26	Overcast with cir. and haze till 13 <sup>h</sup> ; remainder of the day clear	—	—	0.0	0.0	50.8	41.2	—
27	Clear till 18 <sup>h</sup> ; remainder of the day clouded with cir.-cum. and haze	0.0	0.0	0.0	0.2	52.8	35.9	—
28	Clear all day	0.0	0.0	0.0	0.0	60.3	37.9	—
29	Clouded all day; cir.-cum., cir.-strat., and haze; sheet lightning at 6 <sup>h</sup> and 7 <sup>h</sup>	0.4	1.0	1.0	1.0	60.1	35.2	—
30	Clouded all day; cir.-cum., cir.-strat., and haze	1.0	1.0	1.0	1.0	61.3	35.5	—
31	Mostly clouded till 12 <sup>h</sup> ; remainder of the day clear; rain from 6 <sup>h</sup> till 7 <sup>h</sup>	1.0	0.2	0.0	0.9	61.5	48.4	0.08
NOVEMBER.								
1	Overcast with cir.-cum., cir.-strat., and haze till 5 <sup>h</sup> ; remainder of the day clear	0.2	0.0	—	—	56.8	47.2	—
2	Densely overcast from 12 <sup>h</sup> ; a mixture of snow and rain from 12 <sup>h</sup> till 13 <sup>h</sup> ; raining moderately at 14 <sup>h</sup>	—	—	1.0	1.0	59.5	33.7	0.30
3	Clouded all day with slight exceptions; cir.-cum. and haze	1.0	1.0	0.7	0.8	44.9 <sup>a</sup>	34.5	—
4	Clouded all day; cir.-cum., cir.-strat., and haze	1.0	1.0	1.0	1.0	49.5	36.3	—
5	Generally clouded; cum.-strat. and cir.-cum.; slight rain at 1 <sup>h</sup> 20 <sup>m</sup>	1.0	0.6	1.0	1.0	45.2	39.1	—
6	Clouded the greater portion of the day; cir.-cum. and cum.-strat.; slight rain from 0 <sup>h</sup> till 3 <sup>h</sup>	1.0	0.4	1.0	1.0	44.7	39.2	0.17
7	Clouded all day; cir.-cum., cir.-strat., and haze; rain from 11 <sup>h</sup> till 17 <sup>h</sup>	1.0	1.0	1.0	1.0	45.4	37.4	0.10
8	Clouded all day; cir.-cum. and haze; sleet at 2 <sup>h</sup> ; slight snow at 7 <sup>h</sup>	1.0	1.0	—	—	42.5	36.2	0.02
9	Overcast with cir.-cum., cir.-strat., and haze	—	—	1.0	1.0	37.6	27.4	—
10	Clear from 4 <sup>h</sup> till 10 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cir.-strat., and haze	0.9	0.0	1.0	1.0	39.1	29.9	—
11	Clouded all day; cir.-cum. and haze	1.0	1.0	1.0	1.0	46.4	32.5	—
12	Generally clouded; cir.-cum. and cir.-strat.; a few clear spaces occasionally	0.7	1.0	0.9	0.9	43.9	28.7	—
13	Clear from 4 <sup>h</sup> till 8 <sup>h</sup> , and from 12 <sup>h</sup> till 17 <sup>h</sup> ; remainder of the day generally clouded	0.8	1.0	0.0	1.0	42.2	29.1	—
14	Generally clouded cir.-cum. and cir.-strat.	0.8	0.5	1.0	0.3	50.2	34.3	—
15	Overcast with dense cir.-cum., cir.-strat., and haze	0.6	1.0	—	—	53.0	30.7	—
16	Unclouded at 14 <sup>h</sup> ; haze round horizon; overcast with light cir. and haze from 15 <sup>h</sup> ; raining from 21 <sup>h</sup> 45 <sup>m</sup>	—	—	0.0	1.0	43.6	30.5	0.15
17	Clouded all day; dense haze; rain continued till 4 <sup>h</sup> , and from 10 <sup>h</sup> till 12 <sup>h</sup> , and at 17 <sup>h</sup>	1.0	1.0	1.0	1.0	59.3	35.9	0.11
18	Clouded all day; cir.-cum. and haze; slight rain occasionally	0.8	1.0	1.0	1.0	49.4	37.2	0.03
19	Clear from 8 <sup>h</sup> till 12 <sup>h</sup> ; remainder of the day clouded; cir.-cum., cum., and haze	1.0	0.0	1.0	1.0	53.7	45.2	—
20	Mostly clouded; cir.-strat. and haze	1.0	1.0	1.0	0.3	44.8	29.9	—
21	Partially clouded; cir.-cum. and cir.-strat., with clear spaces	0.6	0.3	0.4	1.0	53.8	34.7	—

<sup>a</sup> Taken from the highest reading of the Standard Thermometer.

Toronto Mean Time.	Weather and Phenomena.	Extent of Cloudy Sky.				Max. Therm.	Min. Therm.	Rain.
		3 <sup>h</sup> .	9 <sup>h</sup> .	15 <sup>h</sup> .	21 <sup>h</sup> .			
NOVEMBER.								
D. 22	Densely overcast with cir.-strat. and haze; particles of snow falling at 8 <sup>h</sup> and slight rain at 12 <sup>h</sup>	1.0	1.0	—	—	38.9	27.0	0.24
23	Clear and unclouded till 19 <sup>h</sup> ; clouded with cir.-cum. from 20 <sup>h</sup>	—	—	0.0	1.0	39.6	30.5	—
24	In general clouded; with cir.-cum. and haze	0.4	1.0	1.0	1.0	34.5	21.6	—
25	Clouded all day; cir.-strat., cir.-cum., and haze	1.0	1.0	1.0	1.0	31.8	19.9	—
26	Clouded all day; cir. and haze; snowing from 13 <sup>h</sup> till 23 <sup>h</sup> 15 <sup>m</sup>	1.0	1.0	1.0	1.0	40.4	27.2	—
27	Clouded till 5 <sup>h</sup> ; cir.-cum. and haze; partially clouded at 17 <sup>h</sup> ; remainder of the day clear	1.0	0.0	0.3	0.5	32.9	22.7	—
28	Partially clouded all day; cir.-cum. and cum., dispersed	0.6	0.4	0.1	1.0	22.9	8.6	—
29	Clouded with dense haze; constant moderate snow from 0 <sup>h</sup> till 2 <sup>h</sup> ; slight snow at 8 <sup>h</sup>	1.0	1.0	—	—	18.2	8.1	—
30	Clouded with dense haze; snow from 18 <sup>h</sup>	—	—	1.0	1.0	24.2	15.7	—
DECEMBER.								
1	Clouded from 0 <sup>h</sup> till 14 <sup>h</sup> , and from 19 <sup>h</sup> ; cir.-strat. and haze; snow from 0 <sup>h</sup> till 4 <sup>h</sup>	1.0	0.4	0.0	0.6	20.5	9.7	—
2	Clouded from 0 <sup>h</sup> till 3 <sup>h</sup> , and from 16 <sup>h</sup> till 17 <sup>h</sup> ; cir.-cum. and cum.-strat.; remainder of the day generally clear	0.7	0.0	0.2	1.0	22.9	10.5	—
3	Clouded all day; cir.-cum. and haze; slight snow occasionally	1.0	1.0	1.0	1.0	17.1	-1.2	—
4	Clouded all day; cir.-cum. and haze; slight snow occasionally	1.0	1.0	1.0	0.1	28.2	9.8	—
5	Generally clear till 13 <sup>h</sup> ; remainder of the day clouded; cir. and haze	0.2	0.1	1.0	1.0	31.4	20.3	—
6	Densely overcast with cir.-cum., cum.-strat., and haze	1.0	1.0	—	—	26.7	19.8	—
7	Densely overcast; snow falling occasionally	—	—	1.0	1.0	27.7	18.4	—
8	Clouded all day; cir.-cum. and haze	1.0	1.0	1.0	1.0	25.9	17.7	—
9	Generally clouded; cum.-strat., cir.-cum., and haze; slight snow and squalls occasionally	1.0	1.0	0.5	0.9	32.5	25.4	—
10	Generally clouded; cir.-cum. and cum.-strat.; a few clear spaces occasionally	0.8	1.0	0.9	1.0	33.1	16.2	—
11	Clouded all day; cir.-cum. and haze	1.0	1.0	1.0	0.1	18.0	4.0	—
12	Clouded till 7 <sup>h</sup> , and from 13 <sup>h</sup> till 17 <sup>h</sup> ; remainder of the day clear	1.0	0.0	1.0	0.0	10.6	-2.4	—
13	Clouded from 5 <sup>h</sup> with cir.-cum. and haze; remainder of the day clear	0.0	1.0	—	—	22.7	-0.4	—
14	Clouded with cir.-cum., cir.-strat., and haze	—	—	0.4	1.0	39.2	13.2	—
15	Clouded from 20 <sup>h</sup> , and partially clouded from 18 <sup>h</sup> ; remainder of the day clear	0.1	0.0	0.0	0.9	39.7	31.2	—
16	Clouded till 2 <sup>h</sup> ; partially clouded till 12 <sup>h</sup> ; cir.-cum. and cum.-strat.; remainder of the day clear; halos round the moon at 12 <sup>h</sup> and 16 <sup>h</sup> , diameters respectively 35° and 25°, perfect	0.7	0.3	0.0	1.0	33.3	22.1	—
17	Clouded all day; cir., cir.-cum., and haze; slight hail and drizzling rain occasionally	1.0	1.0	1.0	1.0	34.4	19.9	—
18	Generally clear; cir.-cum., cir.-strat., and haze, occasionally	0.3	0.5	0.2	1.0	38.2	24.1	—
19	Clouded till 12 <sup>h</sup> ; cir.-cum. and haze; remainder of the day nearly clear; snow occasionally	1.0	1.0	0.1	1.0	35.2	6.5	—
20	Clouded; cir.-strat. and haze; a few particles of snow at 8 <sup>h</sup>	1.0	1.0	—	—	14.2	1.6	—
21	Clouded from 18 <sup>h</sup> ; cir.-cum. and cir.-strat., dispersed; remainder of the day clear	—	—	0.7	1.0	17.1	8.9	—
22	Clouded till 5 <sup>h</sup> , and from 16 <sup>h</sup> till 17 <sup>h</sup> ; cir.-cum. and haze; remainder of the day clear	1.0	0.0	0.0	1.0	20.7	10.3	—
23	Clouded all day; cir.-cum. and haze	0.9	1.0	1.0	1.0	20.7	9.1	—
24	Clouded till 11 <sup>h</sup> with cir.-cum., cum.-strat., and haze; remainder of the day clear	1.0	1.0	—	—	26.5	13.7	—
25	Clouded at 17 <sup>h</sup> with cir.-cum., cum.-strat., and haze; remainder of the day clear	—	—	0.0	0.0	28.7	18.2	—
26	Generally clear	0.1	0.0	0.0	0.6	27.0	12.0	—
27	Clouded all day with cir.-cum., cir.-strat., and haze	1.0	1.0	—	—	22.2	9.2	—
28	Clouded throughout the day with cir.-cum., cir.-strat., and haze	—	—	1.0	1.0	30.7	15.7	—
29	The day was generally clouded; cir.-cum., cum.-strat. and haze	1.0	1.0	1.0	1.0	34.6	25.0	—
30	Generally clouded till 12 <sup>h</sup> ; cir.-cum., cum.-strat., and haze; remainder of the day clear	1.0	1.0	0.0	1.0	35.5	28.2	—
31	Generally clouded till 8 <sup>h</sup> ; cum.-strat. and haze; remainder of the day mostly clear	1.0	0.0	0.3	—	37.6	9.2	—

TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed.  
(Continued from the record for 1841, in the first part of the first volume of Observations on Days of Unusual Magnetic Disturbance.)

The H. F. magnet is said to be "considerably" or "very much" disturbed when it vibrates in an arc of 35 to 45 scale divisions; to be "much" disturbed when it vibrates in an arc of 20 to 35 divisions; "moderately" when in an arc of 10 to 20 divisions; and "slightly" when in an arc of 5 to 10 divisions. The same terms are used for the Declin. Magnet when it vibrates through half the above number of scale divisions. The times are Mean Toronto Time, astronomical reckoning.

1842.		FEBRUARY.	
D.	H.	D.	H.
JANUARY.		18	Dec. and H. F. mod. vib. and shocks.
2	12	20	Dec. and H. F. mod. vib. and shocks.
	14	22	H. F. much shocks and slight vib.
	16	9	18
	18	10	10
	20	11	14
	22	16	16
7	14	13	20
	18	22	22
	20	14	0
12	10	2	2
	12	8	8
	14	10	10
	16	12	12
	18	14	14
	20	16	16
	22	20	20
13	0	22	22
16	16	15	6
	20	8	8
17	20	10	10
	2	16	12
	8	14	14
20	20	16	16
	22	18	18
	6	18	6
	8	20	20
	10	19	0
21	12	2	2
	14	20	12
	16	14	14
	18	20	20
	20	22	14
	22	16	16
22	0	18	18
	8	22	22
23	12	24	0
	14	6	6
	16	18	18
	18	20	20
	20	27	18
	22	20	20
26	12	MARCH.	
	14	1	4
31	14	22	22
	22	4	16
FEBRUARY.		18	18
1	0	20	20
	2	5	2
7	18	4	4
	20	7	2
	22	10	16
8	0	11	14
	2	16	16
	4	18	18
	6	20	20
	8	15	18
10	10	20	20
12	12	20	12
14	14	14	14
		16	16
		18	18
		20	20
		22	22

TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed—continued.

MARCH.			MAY.		
D.	H.		D.	H.	
21	10	Dec. and H. F. slight shocks.	18	2	H. F. moderate shocks.
24	10	Dec. and H. F. slightly vibrating.	16		H. F. moderate vibrations and shocks.
26	2	H. F. moderate shocks.	22		Dec. and H. F. slight vibrations and shocks.
27	12	H. F. slight shocks.	19	0	H. F. slightly vibrating.
14		Dec. and H. F. slightly vibrating.	16		Dec. and H. F. slight vibrations and shocks.
18		Dec. and H. F. moderately vibrating and shocks.	18		Dec. slight; H. F. moderate vibrations and shocks.
29	0	H. F. moderate shocks.	20		H. F. moderate vibrations and shocks.
6		H. F. slight shocks.	20	16	H. F. moderate vibrations.
30	12	H. F. moderately vibrating.	18		Dec. moderate; H. F. moderate vibrations and shocks; V. F. moderate vibrations.
16		H. F. moderately vibrating.	20		Dec. and H. F. moderate vibrations and shocks.
18		Dec. slightly, and H. F. moderately, vibrating and shocks.	25	4	H. F. slight shocks.
20			18		Dec. slight; H. F. moderate vibrations and shocks; V. F. moderate vibrations.
22		Dec. moderate shocks; H. F. moderate vibrations and shocks.	20		Dec. slight; H. F. moderate vibrations and shocks.
31	0	Dec. slight shocks; H. F. slight vibrations and shocks.	26	20	H. F. slight vibrations and shocks.
14		Dec. slight vib. and shocks.	31	16	H. F. slight vibration.
16		Dec. slight vib. and shocks; H. F. slight vib.			
18		H. F. very much vib.			
20		H. F. much shocks.			
22		H. F. mod. shocks.			
APRIL.			JUNE.		
1	0	H. F. slight shocks.	1	18	Declin. slight; H. F. moderate vibrations and shocks; V. F. slight vibrations.
	2	H. F. slight shocks.	5	16	H. F. slight vibrations and shocks.
	10	Dec. and H. F. slight vib.	18		Declin. and H. F. moderate shocks.
3	12	Dec. much shocks.	6	14	Declin. and H. F. slight vibrations.
	22	H. F. slight vib. and shocks.	16		H. F. and V. F. slight vibrations.
4	0	H. F. slight vib. and shocks.	8	20	Declin. slight; H. F. moderate shocks.
11	12	H. F. much vib. and shocks.	22		H. F. slight shocks.
	20	H. F. slight vib.	9	2	H. F. slight shocks.
	2	H. F. slight shocks.	10	14	H. F. much vibration.
13	4	H. F. slight shocks.	18		Declin. and H. F. slight vibration and shocks.
22	14	H. F. mod. vib.; V. F. slight vib.	13	22	Declin. and H. F. slight shocks.
	16	Dec. slight shocks; H. F. mod. vib.; V. F. slight vib.	14	2	H. F. slight vibration and shocks.
	18	H. F. much vib. and shocks; Dec. slight shocks.	4		H. F. slight shocks.
	20	Dec. and H. F. slight shocks.	15	2	H. F. slight vibration.
23	0	Dec. and H. F. much shocks; H. F. much vib.	20		Declin. and H. F. slight shocks.
27	14	H. F. mod. vib. and shocks.	16	10	H. F. moderate vibration and slight shocks.
	16	H. F. slight shocks.	17	16	H. F. slight vibration.
	18	Dec. slight vib.; H. F. mod. vib.	22		H. F. much shocks.
	20	Dec. slight vib. and shocks; H. F. mod. vib. and shocks.	18	0	H. F. slight shocks.
28	14	H. F. slight vib.	19	20	H. F. slight vibrations and shocks.
	16	Dec. slight vib.; H. F. mod. vib.	23	18	Declin. slight vibrations; H. F. moderate vibrations and shocks.
			20		Declin. slight vibrations; H. F. moderate vibrations and shocks.
MAY.			24	16	H. F. slight shocks.
1	16	H. F. slightly vibrating.	20		H. F. slight shocks.
	18	Dec. slight shocks; H. F. moderately vibrating and shocks.	25	0	Declin. and H. F. slight vibrations and shocks.
3	18	Dec. moderately vibrating; H. F. slightly vibrating and shocks.	27	0	H. F. slight shocks.
4	16	Dec. slightly vibrating; H. F. moderately vibrating.	29	18	Declin. and H. F. slight shocks.
5	20	Dec. slightly vibrating and shocks; H. F. slight shocks.			
	22	H. F. slight shocks.	JULY.		
6	0	Dec. and H. F. slight shocks.	1	10	H. F. slight vibrations.
	18	Dec. moderate vibrations and shocks; H. F. moderate shocks.		11	
	20	Dec. slightly; H. F. moderately vibrating and shocks.	2	1	Declin. and H. F. slight vibrations.
8	12	H. F. slightly vibrating.	4	17	H. F. moderate shocks.
	14	Dec. slight shocks; H. F. moderately vibrating and shocks.		21	H. F. slight vibrations.
	16	H. F. moderately vibrating and shocks.		23	
	18	Dec. slightly vibrating; H. F. much vibrations.	5	0	H. F. moderate vibrations.
	20	Dec. moderate shocks; H. F. much vibrations and shocks.		1	
9	18	H. F. slightly vibrating.	17		H. F. much vibration and shocks.
11	14	H. F. slight shocks.	18		H. F. moderate shocks.
13	14	H. F. slightly vibrating.	19		H. F. moderate vibration.
	16	H. F. and V. F. slightly vibrating.	21		H. F. slight vibration.
	18	Dec. slightly; H. F. moderately vibrating and shocks.	6	13	H. F. slight vibration.
	20	H. F. slight vibrations and shocks.	17		Declin. moderate; H. F. much vibration and shocks.
16	16	Dec. slightly vibrating; H. F. moderately vibrating.	18		Declin. and H. F. slight vibration and shocks.
	18	Dec. and H. F. moderately vibrating and shocks; V. F. much vibrating	19		
	20	Dec. slight shocks; H. F. much vibrations and shocks.	8	8	H. F. much shocks.
	22	H. F. slightly vibrating.	17		Declin. and H. F. moderate shocks.
17	22	Dec. slight shocks; H. F. slightly vibrating.	19		H. F. slight shocks.



TIMES OF OBSERVATION *at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed*—continued.

JULY.		AUGUST.	
D.	H.	D.	H.
9	9	1	17
10		18	
11		19	
10	17	22	
18		2	17
19		19	
20		4	13
22		14	
23		15	
11	11	16	
17		20	
18		5	2
19		10	
15	17	11	
18		6	5
19		6	
20		7	
21		8	4
17	17	6	
18		7	
18	19	8	
22		11	22
23		12	1
19	13	9	
14		14	17
15		18	
16		19	
17		20	
18		15	1
19		4	
20		17	
21		18	
21	18	19	
23	3	16	13
24	15	14	
17		15	
18		17	10
19		11	
20		18	5
21		6	
25	3	7	
14		19	16
15		21	15
16		16	
17		17	
18		18	
19		19	
20		20	
27	19	21	
20		22	
22		22	12
23		15	
28	18	18	
19		19	
20		20	
21		23	18
22		19	
23		20	
29	19	22	
31	12	23	
13		24	4
14		5	
15		17	
16		18	
17		25	3
18		26	2
19		3	
20		28	16
21		29	16
		17	

TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed—continued.

AUGUST.		SEPT.	
D.	H.	D.	H.
29	18	20	21
			22
30	14	21	18
		22	13
			14
			15
			16
			17
			18
			19
			20
			21
			22
		25	17
			18
			19
			20
			21
			22
			23
			24
			25
			26
			27
			28
			29
			30
			31
			1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
			16
			17
			18
			19
			20
			21
			22
			23
			24
			25
			26
			27
			28
			29
			30
			31
			1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
			16
			17
			18
			19
			20
			21
			22
			23
			24
			25
			26
			27
			28
			29
			30
			31
			1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
			16
			17
			18
			19
			20
			21
			22
			23
			24
			25
			26
			27
			28
			29
			30
			31



TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed—continued.

1843.		AUGUST.	
<b>JANUARY.</b>		<b>D.</b>	<b>H.</b>
1	12	4	17
13	Declin. slight vibration; H. F. much vibration.	7	20
14		15	18
15		22	2
2	H. F. slight vibration.	23	
22	Declin. and H. F. slight vibrations.	23	16
25	Declin. and H. F. slight vibration.	17	
31	Declin. and V. F. slight vibration; H. F. moderate vibration.	18	
	H. F. in vibration of 30 divisions; at second observation much disturbed.	20	
		21	
<b>FEBRUARY.</b>		<b>SEPT.</b>	
1	15	4	21
5	21	8	18
6	0	25	20
10	13	<b>OCTOBER.</b>	
14		5	21
15		8	18
16		19	
17		20	
18		16	20
<b>MAY.</b>		<b>NOVEMBER.</b>	
5	23	13	18
6	0	14	1
9	21	2	
22		3	
23		26	14
10	3	15	
8		16	
12	22	<b>DECEMBER.</b>	
14	22	5	1
15	16	10	20
18		21	
20		11	1
22		2	
<b>JUNE.</b>		3	
7	1	16	
9	20	18	
21		12	3
22		15	5
23		<b>1844.</b>	
10	1	<b>JANUARY.</b>	
12	19	5	0
21		3	
22		7	21
23		23	
10	1	8	20
12	19	21	
21		23	
22		9	3
<b>JULY.</b>		17	
10	17	20	
11	16	11	3
17		25	13
18		14	
12	17	15	
20	16	16	
17		17	
<b>AUGUST.</b>		26	22
2	17	31	12
18			
19			



TIMES OF OBSERVATION at which the MAGNETOMETERS were disturbed, but the mean readings were not materially changed—continued.

JANUARY.			AUGUST.		
D.	H.		D.	H.	
31	14	H. F. and V. F. very much vibration.	1	18	H. F. and V. F. much vibration.
	15		6	19	H. F. moderate vibration.
	16		11	18	H. F. much vibration.
FEBRUARY.			12	18	H. F. much vibration.
4	13	H. F. slight shocks; V. F. slight vibration.	14	11	Declin. and Induc. Incl. slight vibration and shocks; H. F. moderate vibration and shocks.
	14		24	18	H. F. much vibration and shocks.
	21	Declin. and H. F. slight vibration.	19		
	22	H. F. slight vibration.	31	17	Declin. and H. F. moderate vibration.
12	11	H. F. and V. F. moderate vibration.		18	H. F. and V. F. moderate vibration.
	12	H. F. and V. F. much vibration.	SEPTEMBER		
	13	H. F. moderate vibration.	7	14	Declin. slight vibration; H. F. much vibration.
19	22	H. F. and V. F. slight vibration.		17	H. F. slight vibration.
24	23	Declin. and Incl. slight vibration and shocks; H. F. moderate vibration and shocks.		18	H. F. slight vibration.
25	0	Declin. and H. F. slight vibration and shocks.	10	17	H. F. moderate vibration.
	1		18	18	H. F. moderate vibration.
26	23	Declin. and H. F. moderate shocks.		19	H. F. moderate vibration and slight shocks.
MARCH.			11	14	H. F. much vibration.
9	21	H. F. moderate vibration.		15	H. F. moderate vibration.
14	1	H. F. much vibration; Declin. slight vibration.		16	
	4		17	17	H. F. slight vibration.
	9	H. F. slight vibration and shocks.	18	13	Declin. and V. F. moderate vibration.
	10	H. F. slight vibration.		15	H. F. and V. F. slight vibration.
	13		16	16	
	14	H. F. slight vibration and shocks.		17	H. F. moderate vibration.
	15	H. F. slight vibration.		18	H. F. moderate vibration.
	16		22	12	H. F. and V. F. moderate vibration.
	17	H. F. much vibration.		13	H. F. much vibration.
	18	H. F. moderate vibration.		14	
	19	H. F. slight vibration; V. F. moderate vibration.		15	H. F. slight vibration.
	20	H. F. very much vibration; V. F. moderate vibration.	26	14	Declin. and H. F. moderate vibration.
	22		OCTOBER.		
15	1	H. F. moderate vibration.	5	18	H. F. moderate vibration.
APRIL.			20	10	H. F. slight vibration.
13	19	H. F. moderate vibration.		13	H. F. and V. F. slight vibration.
14	0	Declin. and Induc. Incl. moderate vibration.		15	H. F. moderate vibration.
	21	H. F. moderate vibration.		16	
	22	H. F. moderate vibration; Declin. slight vibration.	NOVEMBER.		
15	0	Declin. and H. F. moderate vibration.	23	12	H. F. moderate vibration.
	11	V. F. moderate vibration.		13	H. F. slight vibration.
MAY.			DECEMBER.		
14	17	H. F. moderate vibration.	2	13	H. F. moderate vibrations.
	22	H. F. much vibration.		14	
	23	H. F. moderate vibration.	18	16	H. F. much vibration; V. F. moderate vibration.
21	15	H. F. moderate vibration.		17	H. F. moderate vibration.
28	18	H. F. slight vibration.		18	H. F. much vibration; V. F. moderate vibration.
	19	H. F. moderate vibration.		19	
	20	H. F. much vibration.		20	H. F. and V. F. moderate vibration.
	21	H. F. moderate vibration.		21	H. F. moderate vibration; V. F. slight vibration.
JUNE.				22	H. F. moderate vibration.
5	18	H. F. moderate vibration.		23	H. F. much vibration.
13	19	H. F. slight vibration.	19	0	
JULY.				1	H. F. moderate vibration.
9	16	H. F. moderate vibration.		2	
	17		3	3	H. F. much vibration.
	19	H. F. and V. F. moderate vibration.		4	H. F. moderate vibration.
17	19	H. F. and V. F. moderate vibration.		5	H. F. and V. F. slight vibration.
22	16	H. F. and V. F. moderate vibration.		7	V. F. much vibration.
30	17	H. F. moderate vibration.		11	H. F. moderate vibration.
	18	H. F. much vibration.		13	
				14	H. F. much vibration, and V. F. moderate vibration.
				15	V. F. moderate vibration.
			25	12	H. F. moderate vibration.
				13	



# OBSERVATIONS OF THE MAGNETIC INCLINATION.

1843, 1844, and 1845.

*Index to Initials of Observers.*

INITIALS.	NAMES.	INITIALS.	NAMES.
C. J. B. R. J. H. L. C. W. Y. W. H. G.	Captain Riddell, <i>Royal Artillery.</i> Captain Lefroy,           ,, Captain Younghusband,   ,, Lieutenant Goodenough,   ,,	W. H. W. McP. W. G. J. L. C. J. Liley. W. T. W. A. S.	Sergeant Henry, <i>Royal Artillery.</i> Bombardier McPhun,   ,, Bombardier Grace,   ,, Corporal Lennon,   ,, Bombardier Jones,   ,, Acting Bombardier Liley,   ,, Corporal Thom,   ,, Bombardier Stewart,   ,,





Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1843.												
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
31 20	W. McP.	73 21.6	76 02.4	73 50.8	75 47.2	—	—	—	—	29.9	75 15.4	
1 4	W. McP.	73 17.8	76 03.7	73 52.6	75 39.7	76 44.1	74 42.8	76 54.1	74 31.9	—	75 13.3	
4 20	J. J.	73 20.5	76 03.0	73 51.2	75 45.9	—	—	—	—	29.4	75 14.5	
5 4	J. J.	73 19.5	76 03.7	73 56.0	75 45.0	76 44.5	74 47.5	76 55.0	74 32.4	—	75 15.4	
7 20	J. J.	73 19.2	76 05.6	73 56.7	75 42.2	—	—	—	—	32.1	75 18.0	
8 4	J. J.	73 18.2	76 11.5	73 50.2	75 32.0	76 48.5	74 49.0	76 47.5	74 44.0	—	75 15.1	
11 20	J. W.	73 22.5	75 58.0	73 45.3	75 40.5	—	—	—	—	31.7	75 13.3	
12 4	J. W.	73 22.3	75 59.2	73 48.5	75 37.3	76 44.1	74 44.7	76 54.6	74 37.8	—	75 13.5	
14 20	J. W.	73 20.0	75 59.2	73 47.0	75 36.1	—	—	—	—	31.7	75 12.3	
15 4	J. W.	73 22.8	75 56.9	73 47.1	75 36.4	76 45.5	74 44.0	76 55.0	74 32.8	—	75 12.5	75 13.3
18 20	J. W.	73 12.0	75 57.6	73 48.5	75 30.6	—	—	—	—	34.3	75 11.5	
19 4	J. W.	73 14.2	76 00.0	73 44.7	75 33.4	76 49.5	74 47.9	76 57.0	74 32.7	—	75 12.4	
21 20	W. McP.	73 18.8	76 00.0	73 43.0	75 37.5	—	—	—	—	32.3	75 12.1	
22 4	W. McP.	73 19.0	76 00.4	73 50.0	75 36.7	76 47.2	74 43.9	76 57.4	74 36.1	—	75 13.8	
25 20	J. W.	73 00.5	75 51.6	73 52.3	75 31.5	—	—	—	—	37.1	75 11.1	
26 4	J. W.	73 05.6	75 45.7	73 53.1	75 34.9	76 47.2	74 44.8	76 56.2	74 48.2	—	75 11.9	
28 20	J. W.	73 13.0	75 45.0	73 51.6	75 33.8	—	—	—	—	35.3	75 11.1	
29 4	J. W.	73 13.7	75 50.7	73 49.5	75 33.8	76 45.8	74 48.9	76 51.1	74 44.7	—	75 12.2	
April.												
2 20	T. S. M.	73 15.0	76 02.3	73 47.1	75 28.2	—	—	—	—	36.9	75 15.0	
3 4	T. S. M.	73 13.4	75 58.7	73 50.7	75 32.6	76 57.5	74 49.4	77 07.3	74 36.7	—	75 15.7	
5 20	T. S. M.	73 09.9	76 01.3	73 45.8	75 34.6	—	—	—	—	34.3	75 12.2	
6 4	T. S. M.	73 09.8	75 59.9	73 46.9	75 31.2	76 50.8	74 44.9	76 59.4	74 26.9	—	75 11.2	
9 20	W. McP.	73 23.3	76 02.4	73 44.9	75 39.7	—	—	—	—	30.9	75 13.5	
10 4	W. McP.	73 23.5	75 53.3	73 59.0	75 40.0	76 46.9	74 49.7	76 59.0	74 27.0	—	75 14.8	
12 20	W. McP.	73 29.3	76 04.1	73 46.3	75 42.0	—	—	—	—	35.0	75 20.4	
13 4	W. McP.	73 29.5	75 57.0	73 40.1	75 30.5	76 55.2	74 45.3	77 00.0	74 36.7	—	75 14.3	
16 20	J. W.	73 25.0	75 53.3	73 49.2	75 26.7	—	—	—	—	37.4	75 15.9	75 14.4
17 4	J. W.	73 22.7	75 47.8	73 49.1	75 27.6	76 42.4	74 50.4	77 03.8	74 49.8	—	75 14.2	
19 20	J. W.	73 28.3	76 04.8	73 55.8	75 36.2	—	—	—	—	24.0	75 10.3	
20 4	J. W.	73 28.0	76 04.8	73 55.0	75 42.0	76 33.8	74 29.6	76 46.0	74 32.1	—	75 11.4	
23 20	T. S. M.	73 31.5	75 58.0	74 05.8	75 47.8	—	—	—	—	25.3	75 16.1	
24 4	T. S. M.	73 02.7	76 14.0	73 57.1	75 49.9	76 38.5	74 28.5	76 55.0	74 24.0	—	75 11.2	
26 20	T. S. M.	73 14.9	76 13.8	74 09.7	75 53.8	—	—	—	—	26.0	75 19.0	
27 4	T. S. M.	73 24.7	76 10.0	73 58.3	75 42.5	76 37.7	74 34.5	76 49.8	74 41.5	—	75 14.9	
30 20	W. McP.	73 20.4	76 04.3	73 51.7	75 37.4	—	—	—	—	29.7	75 13.2	
31 4	W. McP.	73 11.3	76 07.8	74 01.4	75 44.9	76 48.5	74 46.0	76 49.4	74 38.8	—	75 16.0	
May.												
2 20	W. McP.	73 24.4	76 03.4	73 46.3	75 39.9	—	—	—	—	31.4	75 14.9	
3 4	W. McP.	73 24.6	75 58.4	73 57.7	75 36.5	76 50.9	74 50.3	76 59.6	74 28.0	—	75 15.7	
6 20	J. W.	73 25.4	76 03.4	73 51.2	75 45.2	—	—	—	—	29.6	75 15.9	
7 4	J. W.	73 24.2	76 05.8	73 42.9	75 37.1	76 38.1	74 35.7	76 45.2	74 47.8	—	75 12.1	
9 20	J. W.	73 26.2	76 04.0	73 54.0	75 46.9	—	—	—	—	24.5	75 12.3	
10 4	J. W.	73 27.7	76 03.8	73 52.4	75 44.2	76 37.0	74 34.6	76 46.2	74 26.4	—	75 11.5	
13 20	T. S. M.	73 16.8	76 03.1	73 50.0	75 35.4	—	—	—	—	29.7	75 11.0	
14 4	T. S. M.	73 15.0	76 06.2	73 49.0	75 29.0	76 46.9	74 32.9	76 53.0	74 24.0	—	75 09.5	
16 20	T. S. M.	73 23.8	76 05.3	73 54.1	75 42.7	—	—	—	—	28.4	75 14.9	75 13.4
17 4	T. S. M.	73 23.0	76 06.8	73 53.9	75 38.3	76 46.9	74 35.5	77 03.2	74 24.2	—	75 13.9	
20 20	W. McP.	73 24.8	76 02.3	73 43.6	75 39.7	—	—	—	—	30.8	75 13.4	
21 4	W. McP.	73 21.7	75 54.9	74 00.5	75 40.5	76 47.8	74 47.9	77 00.2	74 27.9	—	75 15.2	
23 20	W. McP.	73 24.5	76 05.5	73 41.0	75 40.5	—	—	—	—	29.4	75 12.3	
24 4	W. McP.	73 26.7	75 52.6	74 05.4	75 39.8	76 47.6	74 48.2	76 57.0	74 26.9	—	75 15.5	
27 20	J. W.	73 22.1	75 57.8	73 15.2	75 31.3	—	—	—	—	40.6	75 12.2	
28 4	J. W.	73 26.0	75 59.0	73 14.2	75 37.7	76 52.1	74 27.9	77 55.2	74 26.8	—	75 14.8	
June.												

Observations of Inclination continued from Vol. I, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.							
		Direct.		Reversed.		Direct.		Reversed.					
		a	a'	a''	a'''	b	b'	b''	b'''				
1843.													
D. H.													
June	30 20	J. W.	73 30.4	76 00.3	73 20.6	75 43.0	—	—	—	—	39.1	75 17.7	} 75 14.5
	1 4	J. W.	73 33.4	76 00.9	73 19.8	75 38.0	76 51.2	74 48.4	77 22.8	74 42.9	—	75 17.1	
	4 20	T. S. M.	73 30.9	76 06.9	73 35.7	75 43.3	—	—	—	—	30.5	75 14.7	
	5 4	T. S. M.	73 26.7	76 04.5	73 27.0	75 38.7	76 34.1	74 28.6	77 02.5	74 35.5	—	75 09.7	
	7 20	T. S. M.	73 26.9	75 59.1	73 29.1	75 38.0	—	—	—	—	34.1	75 12.4	
	8 4	T. S. M.	73 23.7	76 00.2	73 38.4	75 35.0	76 46.9	74 36.5	76 51.8	74 55.4	—	75 13.4	
	11 20	W. McP.	73 27.9	76 07.5	73 39.2	75 43.3	—	—	—	—	33.3	75 17.8	
	12 4	W. McP.	73 28.2	76 03.8	73 39.8	75 29.6	76 50.6	74 48.5	76 39.1	74 49.6	—	75 13.6	
	14 20	W. McP.	73 22.8	76 04.4	73 45.0	75 39.9	—	—	—	—	33.9	75 16.9	
July	15 4	W. McP.	73 15.5	76 06.6	73 43.6	75 35.7	76 49.1	74 35.9	76 53.6	74 53.6	—	75 14.2	
	18 20	J. W.	73 24.6	76 03.5	73 34.8	75 30.7	—	—	—	—	31.7	75 10.1	
	19 4	J. W.	73 31.2	76 00.4	73 35.0	75 35.8	76 43.4	74 36.4	76 45.8	74 50.9	—	75 12.3	
	21 20	J. W.	73 23.8	76 01.9	73 37.6	75 34.6	—	—	—	—	32.6	75 12.1	
	22 4	J. W.	73 44.8	76 02.5	73 32.5	75 31.2	76 46.1	74 32.4	76 55.8	74 57.3	—	75 15.3	
	25 20	T. S. M.	73 37.9	76 08.7	73 34.0	75 38.2	—	—	—	—	35.6	75 20.3	
	26 4	T. S. M.	73 24.6	75 59.2	63 30.1	75 34.8	76 46.7	74 40.6	76 52.9	74 53.8	—	75 12.8	
	28 20	T. S. M.	73 25.1	76 00.6	73 35.4	75 40.9	—	—	—	—	36.0	75 16.5	
	29 4	T. S. M.	73 20.0	75 57.6	73 38.2	75 40.5	76 47.2	74 47.3	76 56.5	74 53.1	—	75 15.0	
	1 20	W. McP.	73 25.5	75 44.7	73 40.9	75 43.0	—	—	—	—	38.1	75 16.6	
	2 4	W. McP.	73 20.5	75 38.2	73 40.4	75 41.6	76 52.0	74 34.1	76 52.6	75 07.0	—	75 13.3	
	4 20	W. McP.	73 29.8	76 00.0	73 29.9	75 39.6	—	—	—	—	33.9	75 13.7	
	5 4	W. McP.	73 25.3	76 01.2	73 46.0	75 30.9	76 52.0	74 37.3	76 58.5	74 46.5	—	75 14.7	
	8 20	J. W.	73 14.8	76 01.8	73 37.3	75 37.0	—	—	—	—	35.4	75 13.1	
	9 4	J. W.	73 19.8	75 57.3	73 37.6	75 38.4	76 48.6	74 36.7	76 58.1	74 52.9	—	75 13.7	
	11 20	J. W.	73 18.4	75 56.8	73 35.8	75 36.5	—	—	—	—	37.9	75 14.8	
	12 4	J. W.	73 20.0	75 54.8	73 33.2	75 37.2	76 51.9	74 39.4	77 03.6	74 54.0	—	75 14.2	
August	15 20	T. S. M.	73 23.8	75 58.0	73 30.3	75 46.0	—	—	—	—	35.1	75 14.6	
	16 4	T. S. M.	73 17.6	75 50.9	73 41.6	75 47.5	76 54.6	74 32.0	76 58.7	74 53.6	—	75 14.5	
	18 20	T. S. M.	73 16.4	76 13.3	73 33.5	75 33.4	—	—	—	—	37.6	75 16.7	
	19 4	T. S. M.	73 16.0	76 08.3	73 23.6	75 29.9	76 50.8	74 39.4	76 51.2	74 57.3	—	75 12.0	
	22 20	W. McP.	73 21.0	75 50.4	73 38.0	75 22.3	—	—	—	—	41.4	75 14.3	
	23 4	W. McP.	73 21.3	75 53.5	73 36.9	75 10.5	76 55.5	74 40.7	77 03.4	74 53.7	—	75 11.9	
	25 20	W. McP.	73 18.6	76 03.5	73 37.0	75 38.8	—	—	—	—	41.4	75 20.9	
	26 4	W. McP.	73 15.3	76 07.2	73 19.8	75 23.5	76 54.4	74 44.0	76 55.0	75 03.9	—	75 12.8	
	29 20	J. W.	73 18.6	75 57.0	73 31.8	75 36.2	—	—	—	—	42.0	75 17.9	
	30 4	J. W.	73 15.8	75 55.2	73 33.7	75 38.4	76 51.6	74 40.0	77 03.3	75 24.4	—	75 17.8	
	1 20	J. W.	73 19.0	75 55.0	73 36.4	75 38.3	—	—	—	—	39.6	75 16.8	
	2 4	J. W.	73 16.3	75 54.4	73 37.2	75 36.0	76 53.7	74 51.2	76 59.5	74 56.9	—	75 15.6	
	5 20	T. S. M.	73 20.0	75 58.4	73 45.5	75 34.2	—	—	—	—	36.4	75 15.9	
	6 4	T. S. M.	73 15.8	75 55.5	73 44.1	75 44.5	76 58.8	74 37.5	76 57.4	74 58.0	—	75 16.4	
	8 20	T. S. M.	73 17.0	75 54.8	73 40.4	75 40.0	—	—	—	—	40.3	75 18.3	
	9 4	T. S. M.	73 18.4	75 53.0	73 39.0	75 41.4	76 57.5	74 54.1	77 00.5	75 01.7	—	75 18.2	
	12 20	W. McP.	73 31.1	76 15.5	74 10.2	75 52.0	—	—	—	—	18.0	75 15.2	
	13 4	W. McP.	73 34.6	76 14.7	74 09.2	75 48.4	76 25.6	74 40.0	76 35.5	74 29.6	—	75 14.7	
	15 20	W. McP.	73 20.0	75 40.6	73 51.3	75 36.1	—	—	—	—	38.7	75 15.7	
	16 4	W. McP.	73 19.0	75 51.5	73 44.0	75 36.2	76 59.0	74 39.2	77 04.3	74 58.3	—	75 16.4	
	19 20	J. W.	73 18.6	75 53.6	73 37.4	75 36.2	—	—	—	—	36.1	75 12.5	
	20 4	J. W.	73 19.6	75 49.6	73 39.4	75 33.8	76 57.7	74 49.5	77 05.6	74 18.5	—	75 11.7	
	22 20	J. W.	73 17.8	75 54.0	73 40.0	75 34.4	—	—	—	—	36.3	75 12.8	
	23 4	J. W.	73 16.4	75 53.8	73 35.6	75 33.2	76 56.6	74 43.9	77 04.0	74 25.1	—	75 11.0	
	26 20	T. S. M.	73 22.2	75 54.3	73 42.3	75 42.0	—	—	—	—	36.8	75 17.0	
	27 4	T. S. M.	73 21.0	76 09.0	73 42.3	75 26.5	76 59.6	74 42.0	77 00.6	74 50.9	—	75 16.5	
	29 20	T. S. M.	73 22.5	75 58.4	73 45.6	75 33.6	—	—	—	—	36.4	75 16.4	
September	30 4	T. S. M.	73 23.6	75 58.5	73 42.2	75 29.3	77 03.9	74 37.4	76 55.4	74 48.2	—	75 14.8	

Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.							
		Direct.		Reversed.		Direct.		Reversed.					
		a	a'	a''	a'''	b	b'	b''	b'''				
1843.													
D. H.													
3 20	W. McP.	73 10.0	75 56.5	73 39.6	75 31.7	—	—	—	—	38.0	75 12.4	75 14.5	
4 4	W. McP.	73 11.3	75 56.5	73 43.5	75 34.6	76 59.1	74 38.5	77 09.5	74 43.3	—	75 14.5		
6 20	W. McP.	73 22.9	75 54.5	73 49.3	75 36.0	—	—	—	—	38.3	75 19.0		
7 4	W. McP.	73 13.5	75 57.4	73 47.4	75 34.8	76 56.3	74 40.9	77 08.3	74 54.4	—	75 16.6		
10 20	J. W.	72 37.4	75 54.0	72 51.4	75 25.4	—	—	—	—	62.7	75 14.7		
11 4	J. W.	72 36.6	75 52.6	72 50.8	75 25.0	77 48.3	74 35.2	77 43.8	74 59.4	—	75 13.9		
13 20	J. W.	72 46.8	75 51.3	72 44.1	75 28.1	—	—	—	—	62.0	75 14.6		
14 4	J. W.	72 45.8	75 48.3	72 45.8	75 26.4	77 41.1	74 34.7	77 45.0	75 01.5	—	75 13.6		
17 20	T. S. M.	72 11.0	75 58.0	72 50.5	75 32.4	—	—	—	—	62.1	75 10.1		
18 4	T. S. M.	72 35.0	75 51.9	73 06.5	75 24.0	77 45.7	74 39.3	77 44.8	75 04.6	—	75 16.4		
20 20	T. S. M.	72 28.8	75 57.8	72 54.1	75 30.5	—	—	—	—	62.1	75 14.9		
21 4	T. S. M.	72 35.4	75 59.2	72 51.5	75 33.8	77 46.0	74 44.4	77 43.0	75 03.9	—	75 17.1		
24 20	W. McP.	72 43.5	75 51.5	72 53.9	75 14.5	—	—	—	—	65.4	75 16.2		
25 4	W. McP.	72 33.0	75 50.0	72 48.5	75 24.8	77 47.4	74 42.3	77 47.5	75 02.8	—	75 14.5		
27 20	W. McP.	72 39.5	75 52.4	72 52.2	75 25.5	—	—	—	—	60.3	75 12.7		
28 4	W. McP.	72 43.3	75 50.5	72 49.9	75 22.9	78 05.5	74 41.4	77 35.3	74 26.4	—	75 11.9		
Oct.													
31 20	J. W.	72 48.5	75 48.1	72 45.4	75 35.8	—	—	—	—	60.3	75 14.5		
1 4	J. W.	72 49.6	75 53.2	72 45.0	75 37.4	77 44.6	74 36.4	77 45.2	75 01.8	—	75 16.6		
3 20	J. W.	72 43.4	75 53.2	72 53.5	75 28.0	—	—	—	—	64.2	75 18.7		
4 4	J. W.	72 43.4	75 50.8	72 49.5	75 29.9	77 48.3	74 42.7	77 49.3	75 07.4	—	75 17.6		
7 20	T. S. M.	72 49.8	75 51.6	73 01.6	75 32.8	—	—	—	—	60.5	75 19.4		
8 4	T. S. M.	72 48.3	75 56.5	73 04.0	75 34.9	77 47.7	74 52.3	77 59.4	74 48.1	—	75 21.4		
10 20	T. S. M.	72 46.7	76 07.0	72 44.8	75 20.1	—	—	—	—	66.1	75 20.7		
11 4	T. S. M.	72 40.4	75 52.1	72 50.1	75 29.8	77 55.2	74 55.4	77 45.3	75 04.9	—	75 19.2		
14 20	W. McP.	72 21.4	76 01.1	72 34.6	75 27.9	—	—	—	—	70.7	75 16.9		
15 4	W. McP.	72 18.1	76 00.0	72 29.7	75 31.0	78 02.2	74 45.0	77 52.0	75 05.4	—	75 15.4		
17 20	W. McP.	72 22.2	76 02.2	72 33.2	75 29.9	—	—	—	—	70.6	75 17.5		
18 4	W. McP.	72 18.6	76 03.6	72 33.2	75 31.7	78 02.0	74 46.9	77 55.4	75 07.8	—	75 17.4		
21 20	J. W.	72 23.2	76 03.8	72 34.2	75 31.6	—	—	—	—	66.8	75 15.0		
22 4	J. W.	72 17.3	76 02.4	72 32.6	75 32.3	77 48.6	74 42.9	77 42.9	75 04.6	—	75 12.9		
24 20	J. W.	72 41.0	75 47.5	72 37.1	75 31.5	—	—	—	—	66.9	75 16.2		
25 4	J. W.	72 29.7	75 55.0	72 38.2	75 26.4	77 44.4	74 51.2	77 47.7	75 01.1	—	75 14.2		
28 20	T. S. M.	72 23.8	75 54.6	72 43.4	75 28.1	—	—	—	—	68.7	75 16.2		
29 4	T. S. M.	72 23.8	75 31.5	72 42.8	75 41.3	77 46.0	74 47.2	77 48.6	70 06.8	—	75 13.5		
December.													
2 20	T. S. M.	72 05.8	75 52.6	72 44.6	75 37.8	—	—	—	—	70.8	75 16.0		
3 4	T. S. M.	72 24.7	75 44.0	72 45.1	75 20.2	77 56.8	74 49.4	77 48.5	75 05.6	—	75 14.3		
5 20	W. McP.	72 33.2	75 43.8	72 43.6	75 36.4	—	—	—	—	67.3	75 16.5		
6 4	W. McP.	72 30.6	75 42.0	72 48.5	75 31.0	77 55.0	74 48.2	77 50.0	74 57.8	—	75 15.3		
8 20	W. McP.	72 33.2	75 48.0	72 35.0	75 36.8	—	—	—	—	66.5	75 14.8		
9 4	W. McP.	72 33.6	75 43.2	72 49.4	75 32.2	77 57.2	74 43.0	77 52.6	74 57.4	—	75 16.1		
12 20	J. W.	72 40.2	75 49.8	72 38.5	75 30.8	—	—	—	—	68.8	75 18.6		
13 4	J. W.	72 29.0	75 45.6	72 43.8	75 28.0	78 01.3	74 42.4	77 54.6	74 59.0	—	75 15.4		
15 20	J. W.	72 35.2	75 51.2	72 42.1	75 30.1	—	—	—	—	67.3	75 16.9		
16 4	J. W.	72 31.6	75 49.2	72 42.8	75 26.7	77 50.5	74 46.9	77 54.4	74 57.2	—	75 14.9		
19 20	T. S. M.	72 28.5	75 55.0	72 43.8	75 26.1	—	—	—	—	66.0	75 14.3		
20 4	T. S. M.	72 20.0	75 55.4	72 47.1	75 22.5	77 53.1	74 39.8	78 09.4	74 30.7	—	75 12.2		
22 20	T. S. M.	72 26.0	75 50.3	72 44.3	75 29.4	—	—	—	—	70.0	75 17.5		
23 4	T. S. M.	72 20.0	76 01.5	72 37.7	75 26.2	77 50.4	74 57.5	78 00.4	74 56.9	—	75 16.3		
26 20	W. McP.	72 33.2	75 45.0	72 37.4	75 33.6	—	—	—	—	69.1	75 16.4		
27 4	W. McP.	72 30.6	75 43.2	72 39.0	75 37.0	77 52.0	74 48.0	78 03.0	74 59.5	—	75 16.5		
29 20	W. McP.	72 33.0	75 45.0	72 41.6	75 34.2	—	—	—	—	67.4	75 15.8		
30 4	W. McP.	72 32.2	75 42.6	72 43.8	75 33.6	77 46.8	74 43.6	78 04.0	74 56.7	—	75 15.4		

Observations of Inclination continued from Vol. 1, p. 332; the same Needle was employed as in 1842, i. e. No. 1.

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.							
		Direct.		Reversed.		Direct.		Reversed.					
		a	a'	a''	a'''	b	b'	b''	b'''				
1844.													
D. H.		o	i	o	i	o	i	o	i	o	i	o	i
2 20	J. W.	72 29.7	75 52.4	72 48.0	75 30.8	—	—	—	—	69.6	75 19.8	—	—
3 4	J. W.	72 25.7	75 50.6	72 44.6	75 23.1	77 52.7	74 46.6	77 59.4	75 02.2	—	75 15.6	—	—
5 20	J. W.	72 31.0	75 48.4	72 47.7	75 28.6	—	—	—	—	69.8	75 18.7	—	—
6 4	J. W.	72 30.7	75 44.4	72 43.7	75 26.8	78 00.7	74 41.5	77 59.0	75 03.4	—	75 16.2	—	—
9 20	T. S. M.	72 20.6	75 58.8	72 49.0	75 26.9	—	—	—	—	64.6	75 13.4	—	—
10 4	T. S. M.	72 25.6	75 50.3	72 47.8	75 27.0	77 48.6	74 46.2	77 55.0	74 37.8	—	75 12.3	—	—
12 20	T. S. M.	72 24.2	75 48.8	72 44.8	75 27.2	—	—	—	—	69.6	75 15.8	—	—
13 4	T. S. M.	72 22.6	75 46.8	72 47.7	75 27.1	77 49.5	74 53.4	77 59.7	74 58.4	—	75 15.6	—	—
16 20	W. M <sup>c</sup> P.	72 35.0	75 41.2	72 48.3	75 24.1	—	—	—	—	69.1	75 16.3	—	—
17 4	W. M <sup>c</sup> P.	72 23.2	75 47.6	72 45.1	75 31.1	78 00.0	74 45.6	78 01.2	74 53.5	—	75 15.9	75 15.4	—
19 20	W. M <sup>c</sup> P.	72 25.0	75 43.2	72 28.4	75 25.5	—	—	—	—	71.9	75 12.4	—	—
20 4	W. M <sup>c</sup> P.	72 27.2	75 40.6	72 29.6	75 26.5	78 04.4	74 40.0	77 51.2	75 03.6	—	75 12.9	—	—
23 20	J. W.	72 31.7	75 45.2	72 42.6	75 30.2	—	—	—	—	68.9	75 16.3	—	—
24 4	J. W.	72 30.3	75 42.3	72 38.7	75 26.2	78 01.2	74 43.2	77 44.4	75 00.4	—	75 13.3	—	—
26 20	J. W.	72 33.0	75 52.1	72 33.3	75 26.6	—	—	—	—	71.5	75 17.7	—	—
27 4	J. W.	72 32.3	75 49.2	72 34.4	75 25.9	78 08.5	74 47.9	77 58.6	74 59.1	—	75 16.9	—	—
30 20	T. S. M.	72 22.9	75 48.2	72 47.0	75 25.8	—	—	—	—	68.9	75 14.9	—	—
31 4	T. S. M.	72 23.7	75 50.2	72 43.7	75 20.3	77 53.0	74 49.8	77 42.9	75 04.0	—	75 13.4	—	—
February.													
2 20	T. S. M.	72 20.5	75 52.9	72 44.4	75 22.8	—	—	—	—	70.2	75 15.3	—	—
3 4	T. S. M.	72 18.6	75 47.9	72 41.4	75 21.4	77 47.4	74 47.7	77 57.0	75 01.9	—	75 13.3	—	—
6 20	W. M <sup>c</sup> P.	72 32.2	75 45.4	72 41.5	75 23.2	—	—	—	—	67.3	75 12.9	—	—
7 4	W. M <sup>c</sup> P.	72 31.8	75 47.0	72 39.9	75 25.0	77 46.8	74 42.3	77 52.0	75 01.0	—	75 13.2	—	—
9 20	W. M <sup>c</sup> P.	72 32.6	75 48.0	72 46.0	75 24.0	—	—	—	—	68.9	75 16.6	—	—
10 4	W. M <sup>c</sup> P.	72 25.8	75 48.0	72 51.5	75 22.2	77 53.2	74 48.2	78 00.0	74 57.8	—	75 15.8	—	—
13 20	J. W.	72 23.2	75 43.8	72 49.0	75 25.8	—	—	—	—	73.2	75 18.6	—	—
14 4	J. W.	72 21.5	75 41.3	72 45.8	75 27.6	77 54.8	74 59.2	78 02.4	75 05.6	—	75 17.2	75 15.7	—
16 20	J. W.	72 25.6	75 41.3	72 45.2	75 28.0	—	—	—	—	71.3	75 16.3	—	—
17 4	J. W.	72 21.2	75 39.8	72 50.5	75 26.2	77 56.5	74 51.6	77 54.1	75 06.1	—	75 15.7	—	—
20 20	T. S. M.	72 17.4	75 48.1	72 51.0	75 26.6	—	—	—	—	73.4	75 19.2	—	—
21 4	T. S. M.	72 17.0	75 47.0	72 43.0	75 26.3	78 06.0	74 49.6	77 58.2	75 07.2	—	75 16.7	—	—
23 20	T. S. M.	72 22.3	75 48.5	72 38.0	75 30.6	—	—	—	—	71.0	75 15.8	—	—
24 4	T. S. M.	72 21.4	75 46.7	72 36.4	75 29.2	77 47.8	74 51.3	77 57.7	75 05.2	—	75 14.4	—	—
27 20	W. M <sup>c</sup> P.	72 19.4	75 43.2	72 44.5	75 26.0	—	—	—	—	74.8	75 18.1	—	—
28 4	W. M <sup>c</sup> P.	72 23.6	75 37.0	72 33.5	75 17.5	77 54.5	74 54.9	77 53.0	75 08.0	—	75 12.7	—	—
March.													
1 20	W. M <sup>c</sup> P.	72 12.6	75 41.6	72 49.5	75 29.0	—	—	—	—	73.2	75 16.4	—	—
2 4	W. M <sup>c</sup> P.	72 22.0	75 40.0	72 47.6	75 27.8	77 59.0	74 56.2	77 59.0	75 09.1	—	75 17.5	—	—
5 20	J. W.	72 21.8	75 44.8	72 47.4	75 29.6	—	—	—	—	71.5	75 17.4	—	—
6 4	J. W.	72 16.7	75 43.2	72 50.0	75 26.8	77 51.1	74 56.5	78 01.8	74 59.4	—	75 15.7	—	—
8 20	J. W.	72 10.2	75 48.6	72 47.4	75 32.8	—	—	—	—	74.3	75 19.0	—	—
9 4	J. W.	72 06.5	75 49.3	72 43.1	75 29.3	78 03.2	74 54.5	77 57.3	75 07.9	—	75 16.3	—	—
12 20 <sup>a</sup>	T. S. M.	72 16.7	75 47.6	72 48.4	75 29.0	—	—	—	—	78.0	75 13.4	75 14.5	—
13 4 <sup>b</sup>	T. S. M.	72 17.2	75 48.7	72 49.1	75 27.9	78 01.0	74 50.4	77 50.7	74 45.3	—	75 13.7	—	—
26 20 <sup>b</sup>	J. W.	74 56.1	74 18.6	75 36.9	73 38.6	—	—	—	—	31.2	75 08.7	—	—
27 4 <sup>c</sup>	J. W.	74 55.4	76 30.2	75 18.6	76 03.5	75 00.8	74 21.5	75 35.0	73 40.2	—	75 10.6	—	—
29 20	J. W.	74 57.6	76 27.6	75 22.8	76 00.6	—	—	—	—	28.7	75 13.4	—	—
30 4	J. W.	74 58.2	76 24.0	75 20.6	76 01.5	74 59.0	74 22.9	75 37.7	73 55.2	—	75 12.4	—	—

<sup>a</sup> Axle of Needle "No. 1" broken after this observation.

<sup>b</sup> Needle "Robinson No. 2" employed.

<sup>c</sup> Needle "Old Static No. 1" employed until June 12th, 1844.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 1."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.							
		Direct.		Reversed.		Direct.		Reversed.					
		a	a'	a''	a'''	b	b'	b''	b'''				
1844.													
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	
2 20	T. S. M.	74 53.3	76 31.1	75 20.0	76 13.9	—	—	—	—	29.9	75 14.7	75 13.2	
3 4	T. S. M.	74 53.0	76 31.9	75 20.0	76 12.2	75 09.7	74 19.0	75 37.5	73 51.5	—	75 14.3		
5 20	T. S. M.	74 55.1	76 24.5	75 26.5	75 59.0	—	—	—	—	31.4	75 09.9		
6 4	T. S. M.	75 05.7	76 33.1	75 30.2	75 58.4	75 00.6	74 20.7	75 42.1	73 52.8	—	75 15.4		
9 20	W. M <sup>c</sup> P.	75 10.7	76 07.4	75 31.7	75 42.9	—	—	—	—	28.2	75 10.0		
10 4	W. M <sup>c</sup> P.	75 12.9	76 08.5	75 29.4	75 47.6	74 55.9	74 17.5	75 43.0	73 55.9	—	75 11.3		
12 20	W. M <sup>c</sup> P.	75 08.8	76 11.4	75 35.8	75 41.2	—	—	—	—	27.8	75 11.6		
13 4	W. M <sup>c</sup> P.	75 09.2	76 14.6	75 31.5	75 46.0	74 55.3	74 24.2	75 42.8	73 56.2	—	75 12.5		
16 20	J. W.	75 04.8	76 31.2	75 32.7	76 00.0	—	—	—	—	27.7	75 19.5		
17 4	J. W.	75 01.6	76 25.6	75 28.5	75 56.3	74 49.8	74 28.5	75 24.2	74 28.0	—	75 15.3		
19 20	J. W.	74 58.1	76 23.7	75 24.7	75 58.4	—	—	—	—	26.2	75 15.0		
20 4	J. W.	74 57.7	76 26.0	75 14.7	76 03.8	75 06.9	74 32.4	75 27.4	74 05.4	—	75 14.2		
23 20	T. S. M.	74 59.2	76 17.7	75 38.4	75 49.1	—	—	—	—	28.8	75 12.3		
24 4	T. S. M.	74 59.6	76 19.4	75 33.5	75 46.7	74 52.2	74 28.4	75 29.7	73 58.6	—	75 11.0		
26 20	T. S. M.	74 58.3	76 25.4	75 26.0	75 51.9	—	—	—	—	27.1	75 13.3		
27 4	T. S. M.	74 59.3	76 26.4	75 24.2	75 46.3	74 49.3	74 38.8	75 22.4	74 08.8	—	75 11.9		
April.													
30 20	W. M <sup>c</sup> P.	76 06.5	76 08.3	75 26.9	75 49.7	—	—	—	—	27.3	75 10.5		75 12.5
1 4	W. M <sup>c</sup> P.	75 05.5	76 18.5	75 21.8	75 44.3	74 59.4	74 19.0	75 43.5	73 49.7	—	75 10.2		
3 20	W. M <sup>c</sup> P.	74 55.0	76 19.0	75 34.5	75 43.8	—	—	—	—	26.9	75 11.2		
4 4	W. M <sup>c</sup> P.	75 05.0	76 27.5	75 17.7	75 43.6	75 49.4	74 18.2	75 51.3	73 49.4	—	75 11.5		
7 20	J. W.	74 58.0	76 26.8	75 28.9	75 36.1	—	—	—	—	22.7	75 14.7		
8 4	J. W.	74 54.1	76 24.2	75 28.7	75 34.2	75 02.9	74 24.3	75 57.7	73 54.4	—	75 12.5		
10 20	J. W.	75 00.0	76 23.3	75 30.1	76 06.2	—	—	—	—	33.1	75 11.8		
11 4	J. W.	74 53.5	76 40.0	75 23.6	75 48.1	74 47.3	74 21.7	75 17.5	73 53.9	—	75 08.2		
14 20	T. S. M.	75 47.0	74 46.8	75 55.8	74 38.8	—	—	—	—	03.2	75 13.9		
15 4	T. S. M.	75 41.6	74 47.4	75 53.2	74 46.5	74 29.6	75 44.7	75 00.4	75 28.4	—	75 14.0		
17 20	T. S. M.	75 30.6	75 01.3	75 38.7	74 50.2	—	—	—	—	03.4	75 11.8		
18 4	T. S. M.	75 28.3	75 07.4	75 38.2	74 45.1	74 42.7	75 31.4	74 58.2	75 19.2	—	75 11.3		
21 20	W. M <sup>c</sup> P.	75 40.1	74 56.3	75 53.2	74 37.2	—	—	—	—	06.1	75 10.6		
22 4	W. M <sup>c</sup> P.	75 39.8	74 58.5	75 52.0	74 47.5	74 47.3	75 33.5	75 03.4	75 03.7	—	75 13.3		
24 20	W. M <sup>c</sup> P.	75 59.0	74 49.5	75 53.4	74 38.0	—	—	—	—	04.2	75 15.8		
25 4	W. M <sup>c</sup> P.	75 51.8	75 04.5	75 47.5	74 43.0	74 34.4	75 47.0	74 53.5	75 37.8	—	75 17.5		
28 20	J. W.	75 39.1	74 58.2	75 49.3	74 51.8	—	—	—	—	05.2	75 14.4		
29 4	J. W.	75 39.2	74 56.8	75 47.1	74 48.6	74 38.8	75 44.2	74 43.9	75 23.0	—	75 12.7		
May.													
31 20	J. W.	75 44.2	75 08.7	75 28.9	74 51.6	—	—	—	—	06.0	75 12.3	57 11.6	
1 4	J. W.	75 34.7	75 00.1	75 39.8	74 57.6	74 29.6	75 44.7	74 36.1	75 33.1	—	75 11.9		
4 20	J. J.	75 24.7	75 07.8	75 45.7	74 57.3	—	—	—	—	04.2	75 14.7		
5 4	J. J.	75 04.9	75 28.6	75 49.2	74 55.0	74 25.3	75 56.0	75 03.7	75 18.8	—	75 15.1		
7 20	J. J.	75 18.5	75 24.4	75 38.3	74 57.3	—	—	—	—	05.1	75 14.5		
8 4	J. J.	75 09.8	75 22.8	75 37.4	74 58.8	73 59.5	76 21.1	74 24.5	75 43.0	—	75 12.1		
11 20	J. J.	75 25.7	75 21.2	75 35.4	74 50.0	—	—	—	—	10.2	75 08.0		
12 4 <sup>a</sup>	J. J.	75 18.9	75 26.5	75 47.8	74 53.0	74 12.6	75 50.7	74 43.5	75 17.4	—	75 11.2		
14 20 <sup>b</sup>	J. J.	74 47.4	74 27.7	75 20.0	73 53.5	—	—	—	—	33.2	75 10.3		
15 4	J. J.	74 48.5	76 44.7	75 22.5	76 01.4	74 48.0	74 40.2	75 12.8	73 50.2	—	75 11.0		
18 20	J. W.	74 46.9	76 49.2	75 19.2	76 19.1	—	—	—	—	34.8	75 13.8		
19 4	J. W.	74 43.1	76 44.6	75 22.0	76 11.4	74 47.7	74 20.9	75 23.3	73 50.8	—	75 10.5		
21 20	J. J.	74 48.9	76 42.6	75 20.0	76 16.7	—	—	—	—	34.5	75 12.5		
22 4	J. J.	74 44.7	76 37.3	75 23.4	76 14.4	74 44.8	74 26.4	75 21.4	73 50.5	—	75 10.3		
25 20	J. W.	74 43.4	76 30.0	75 23.3	76 09.4	—	—	—	—	31.9	75 09.6		
26 4	J. W.	74 44.6	76 36.8	75 22.5	76 07.1	74 58.6	74 17.8	75 30.4	73 48.3	—	75 10.7		
28 20	J. J.	74 43.2	76 33.6	75 21.2	76 10.5	—	—	—	—	31.9	75 10.2		
29 4	J. J.	74 42.6	76 31.8	75 22.8	76 12.1	74 52.4	74 25.5	75 20.4	73 55.4	—	75 10.3		

<sup>a</sup> "Old Static No. 1" broken after this observation.

<sup>b</sup> "Old Static No. 2" employed until 31st December, 1845.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1844.												
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
2 20	T. M.	74 57.1	76 23.5	75 30.9	76 01.7	—	—	—	—	24.7	75 18.6	75 10.1
3 4	T. M.	74 53.2	76 05.0	74 57.1	76 06.7	75 17.0	74 21.6	75 17.4	73 48.5	—	75 05.8	
5 20	J. W.	74 54.1	76 22.8	74 41.6	76 07.3	—	—	—	—	18.2	75 13.2	
6 4	J. W.	74 53.5	76 24.8	74 37.5	75 46.9	75 02.5	74 36.7	75 42.2	73 54.3	—	75 07.4	
9 20	J. J.	74 39.3	76 40.6	75 20.1	76 10.2	—	—	—	—	29.5	75 13.0	
10 4	J. J.	74 38.1	76 34.2	75 16.0	76 16.6	74 55.1	74 38.8	75 14.4	74 00.2	—	75 11.6	
12 20	T. M.	74 54.2	76 24.2	75 43.8	75 39.7	—	—	—	—	31.9	75 08.2	
13 4	T. M.	74 57.9	76 18.9	75 26.6	75 43.9	74 51.0	74 16.3	75 23.9	73 40.4	—	75 04.8	
16 20	J. J.	74 42.5	76 35.5	75 21.8	76 09.8	—	—	—	—	34.3	75 08.1	
17 4	J. J.	75 02.4	76 16.4	75 47.4	75 51.4	75 09.8	74 00.2	75 37.8	73 35.5	—	75 10.1	
19 20	W. G.	74 54.6	76 40.8	75 16.9	76 03.4	—	—	—	—	32.8	75 11.1	
20 4	W. G.	74 38.9	76 44.1	75 22.4	76 07.0	75 25.1	74 11.2	74 57.1	73 56.3	—	75 10.2	
23 20	J. W.	74 52.4	76 42.6	75 26.3	76 00.8	—	—	—	—	35.2	75 10.3	
24 4	J. W.	74 51.1	76 39.2	75 25.3	76 00.5	74 59.4	74 09.4	75 20.0	73 45.2	—	75 08.7	
26 20	J. W.	74 50.4	76 37.0	75 13.6	76 07.0	—	—	—	—	33.4	75 08.6	
27 4	J. W.	74 49.7	76 37.5	75 15.7	76 08.9	74 43.7	74 21.7	75 14.7	74 03.8	—	75 09.4	
30 20	T. M.	75 02.2	76 35.1	75 55.2	75 48.1	—	—	—	—	40.0	75 10.1	
31 4	T. M.	74 56.4	77 23.5	75 26.0	75 46.9	75 03.8	73 56.7	75 37.2	73 35.0	—	75 13.2	
July.												
2 20	J. W.	74 54.5	76 33.2	75 21.6	75 40.5	—	—	—	—	27.8	75 09.6	
3 4	J. W.	75 04.6	76 31.2	75 22.5	75 17.7	75 04.4	74 15.6	75 23.0	73 50.6	—	75 06.2	
9 20	T. M.	74 54.9	76 36.2	75 51.6	75 12.6	—	—	—	—	31.2	75 07.6	
10 4	T. M.	75 07.8	76 31.6	75 47.1	75 20.9	75 01.8	74 13.7	73 53.2	75 28.9	—	75 10.6	
13 20	J. J.	74 48.3	76 41.0	75 16.1	75 59.8	—	—	—	—	31.8	75 09.5	
14 4	J. J.	74 46.9	76 37.4	75 16.9	76 04.9	74 41.4	74 28.5	75 17.3	74 04.0	—	75 09.6	
16 20	W. G.	74 48.2	76 32.2	75 19.3	75 51.9	—	—	—	—	30.0	75 07.9	
17 4	W. G.	74 53.0	76 35.2	75 20.9	75 54.6	75 09.4	75 22.7	73 56.2	74 15.0	—	75 10.8	
20 20	J. W.	74 53.0	76 31.8	75 22.4	75 50.4	—	—	—	—	27.5	75 11.9	
21 4	J. W.	74 52.0	76 25.0	75 13.0	75 52.4	74 56.5	74 21.1	75 25.0	73 59.8	—	75 08.1	
23 20	J. J.	74 43.6	76 42.6	75 12.3	75 59.4	—	—	—	—	30.6	75 08.9	
24 4	J. J.	74 45.0	76 40.8	75 11.4	76 01.2	74 44.3	74 29.0	75 14.7	74 05.7	—	75 09.0	
27 20	T. M.	74 55.0	76 27.7	75 46.9	75 45.2	—	—	—	—	28.5	75 15.2	
28 4	T. M.	74 51.4	76 25.5	75 23.4	75 52.0	74 10.3	75 20.3	74 32.1	74 41.9	—	75 09.6	
30 20	J. W.	74 53.9	76 36.8	75 26.2	75 56.6	—	—	—	—	31.9	75 11.5	
31 4	J. W.	74 53.6	76 34.5	75 26.1	75 57.0	74 47.2	74 26.5	75 19.5	74 02.7	—	75 10.9	
August.												
3 20	W. G.	74 56.7	76 28.1	75 54.5	75 50.0	—	—	—	—	27.8	75 19.5	75 17.9
4 4	W. G.	74 55.0	76 29.2	75 45.5	75 49.1	75 04.7	74 39.3	75 28.0	74 04.1	—	75 16.8	
6 20	T. M.	74 50.2	76 30.6	75 35.8	75 53.0	—	—	—	—	24.9	75 17.5	
7 4	T. M.	75 04.0	76 32.5	75 41.3	75 38.1	75 06.6	74 38.5	75 18.7	74 32.2	—	75 19.0	
10 20	J. J.	74 42.7	76 42.3	75 17.0	76 24.5	—	—	—	—	32.7	75 13.9	
11 4	J. J.	74 48.6	76 49.8	75 26.7	76 01.9	74 25.3	75 03.3	75 16.0	74 00.5	—	75 14.0	
13 20	W. G.	75 02.8	76 36.5	75 45.4	75 49.8	—	—	—	—	26.7	75 21.9	
14 4	W. G.	74 57.3	76 25.2	75 56.6	75 52.1	75 03.7	74 43.6	75 37.6	74 12.6	—	75 21.1	
17 20	J. W.	74 44.6	76 41.9	75 27.9	76 15.7	—	—	—	—	28.2	75 19.3	
18 4	J. W.	74 52.9	76 36.2	75 29.8	76 12.1	75 05.8	74 45.8	75 18.2	74 15.5	—	75 19.5	
20 20	J. J.	74 48.6	76 41.1	75 23.9	76 21.6	—	—	—	—	29.6	75 19.2	
21 4	J. J.	74 40.2	76 44.7	75 28.9	76 15.2	74 43.9	74 55.1	75 12.2	74 21.0	—	75 17.6	
24 20	T. M.	74 54.8	76 19.2	76 00.7	75 50.1	—	—	—	—	28.2	75 18.0	
25 4	T. M.	74 58.0	76 19.6	75 44.9	75 53.7	74 58.0	74 40.4	75 35.4	73 57.2	—	75 15.9	
27 20	J. W.	74 58.6	76 22.3	75 44.2	76 03.1	—	—	—	—	29.8	75 17.2	
28 4	J. W.	75 00.0	76 20.5	75 43.2	75 48.0	74 41.3	74 45.0	75 15.5	74 11.4	—	75 13.1	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1844.												
D. H.												
October.												
1 20	W. G.	75 02.5	76 24.9	75 47.3	76 04.2	—	—	—	—	21.7	75 28.0	
2 4	W. G.	74 57.0	76 17.8	76 06.5	75 37.9	75 08.1	74 42.9	75 43.2	74 31.3	—	75 23.1	
4 20	T. M.	75 00.1	76 25.7	75 48.7	75 33.4	—	—	—	—	28.7	75 13.3	
5 4	T. M.	75 01.9	76 19.9	75 44.5	75 45.3	75 07.0	74 28.4	75 36.4	73 49.8	—	75 14.1	
8 20	J. J.	74 43.9	76 52.7	75 32.5	76 21.1	—	—	—	—	37.6	75 14.9	
9 4	J. J.	74 38.9	76 54.7	75 31.4	76 18.0	74 45.7	74 18.0	74 58.0	74 19.9	—	75 13.1	
11 20	W. G.	74 45.1	76 47.2	75 21.1	76 17.8	—	—	—	—	32.4	75 15.4	
12 4	W. G.	74 49.3	76 39.8	75 33.1	76 17.1	75 04.6	74 25.6	75 38.5	73 51.5	—	75 17.4	
15 20	J. W.	74 59.5	76 41.4	75 47.4	76 07.7	—	—	—	—	33.6	75 20.4	
16 4	J. W.	74 56.5	76 36.9	75 42.8	76 04.1	75 07.5	74 24.8	75 36.4	73 42.9	—	75 16.5	75 17.9
18 20	J. J.	74 38.5	77 02.2	75 19.4	76 27.2	—	—	—	—	32.4	75 19.4	
19 4	J. J.	74 34.9	76 56.9	75 22.1	76 32.4	74 49.9	74 49.4	75 24.8	74 02.8	—	75 19.1	
22 20	T. M.	75 02.1	76 35.1	76 02.8	75 43.9	—	—	—	—	32.4	75 18.6	
23 4	T. M.	74 55.9	76 35.0	75 38.4	76 06.0	75 09.1	74 21.6	75 44.3	73 41.2	—	75 16.4	
25 20	J. W.	74 59.9	76 37.3	75 46.7	76 10.6	—	—	—	—	32.2	75 21.4	
26 4	J. W.	74 57.3	76 38.5	75 49.1	76 06.8	74 52.8	74 31.3	75 44.5	74 04.9	—	75 20.6	
29 20	W. G.	74 57.3	76 39.5	75 36.0	76 04.4	—	—	—	—	35.0	75 14.3	
30 4	W. G.	75 12.5	76 26.1	75 34.5	76 12.0	75 11.5	74 21.6	75 37.5	73 34.6	—	75 16.3	
November.												
1 20	T. M.	74 56.8	76 30.2	75 49.1	76 10.1	—	—	—	—	31.8	75 19.7	
2 4	T. M.	75 08.1	76 27.8	75 46.1	75 49.5	75 12.0	74 16.6	75 45.9	73 42.3	—	75 16.0	
5 20	J. J.	74 38.4	76 55.7	75 41.5	76 33.2	—	—	—	—	32.0	75 25.2	
6 4	J. J.	74 40.3	76 50.0	75 26.1	76 27.7	74 43.8	74 47.3	75 18.7	74 20.5	—	75 19.0	
8 20	W. G.	74 52.2	76 43.0	75 49.1	76 04.0	—	—	—	—	32.6	75 19.5	
9 4	W. G.	74 51.8	76 32.9	75 44.6	76 13.6	75 01.9	74 28.0	75 32.2	73 59.8	—	75 18.1	
12 20	J. W.	74 49.0	76 43.6	75 34.1	76 16.7	—	—	—	—	33.9	75 16.9	
13 4	J. W.	74 53.3	76 42.4	75 28.7	76 16.4	75 00.9	74 28.7	75 34.1	73 45.5	—	75 16.2	75 20.3
20 4	T. M.	75 01.5	76 09.8	75 18.6	75 49.3	75 07.8	74 45.0	76 17.9	73 40.5	—	75 16.3	
22 20	J. W.	74 53.9	76 34.7	75 43.6	76 01.9	—	—	—	—	22.4	75 26.1	
23 4	J. W.	75 11.8	76 10.5	75 44.1	76 10.8	75 12.8	75 24.0	76 00.1	73 40.8	—	75 26.8	
26 20	T. M.	74 50.1	76 32.7	75 46.1	76 02.1	—	—	—	—	29.2	75 18.5	
27 4	T. M.	74 55.7	76 28.9	75 38.1	75 58.4	75 01.2	74 26.0	76 02.7	73 37.7	—	75 16.1	
29 20	W. H.	74 55.2	76 34.0	75 47.0	76 06.5	—	—	—	—	26.2	75 24.5	
30 4	W. H.	75 03.4	76 35.0	75 43.2	76 07.2	74 56.7	74 37.4	76 38.6	73 46.0	—	75 25.9	
December.												
3 20	W. G.	75 39.8	76 13.0	74 51.3	76 32.4	—	—	—	—	32.0	75 17.1	
4 4	W. G.	74 56.4	76 29.8	75 37.3	76 17.7	74 45.9	74 42.8	75 36.3	74 00.2	—	75 18.3	
6 20	J. W.	74 54.1	76 32.5	75 37.8	76 17.6	—	—	—	—	35.7	75 14.8	
7 4	J. W.	74 51.5	76 38.1	75 40.0	76 14.3	74 56.7	74 20.1	75 38.7	73 42.6	—	75 15.2	
10 20	J. J.	74 43.0	76 55.4	75 19.4	76 35.6	—	—	—	—	29.3	75 24.0	
11 4	J. J.	74 35.8	76 57.7	75 14.1	76 44.1	74 50.1	74 45.6	75 21.6	74 39.5	—	75 23.5	
13 20	T. M.	74 58.8	76 23.4	75 38.2	76 10.9	—	—	—	—	33.4	75 14.4	75 19.0
14 4	T. M.	74 59.3	76 23.8	75 40.1	76 11.3	75 01.4	74 25.4	75 30.4	73 50.2	—	75 15.2	
17 21	W. H.	74 53.8	76 33.6	75 40.6	76 18.2	—	—	—	—	23.9	75 32.6	
18 4	W. H.	74 51.4	76 35.4	75 39.0	76 19.6	75 06.8	74 34.2	76 42.8	73 50.2	—	75 27.4	
20 20	W. G.	74 40.0	76 51.3	75 22.6	76 30.3	—	—	—	—	38.1	75 12.9	
21 4	W. G.	74 39.3	76 49.9	75 29.7	76 16.0	74 42.1	74 26.8	75 36.2	73 24.9	—	75 10.6	
27 20	T. M.	74 59.1	76 33.5	75 40.8	76 08.3	—	—	—	—	30.1	75 20.3	
28 4	T. M.	74 56.8	76 29.8	75 47.0	76 05.9	75 00.8	74 15.5	75 43.1	74 19.6	—	75 19.8	



Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed"	Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1845.												
Dec. 31 20	T. M.	74 57.0	76 30.3	75 44.0	76 07.5	—	—	—	—	33.6	75 16.1	
1 4	T. M.	74 56.4	76 26.4	75 37.7	76 11.8	75 08.4	74 14.2	75 39.4	73 41.2	—	75 14.4	
3 20	J. W.	74 44.3	76 49.4	75 35.0	76 23.2	—	—	—	—	37.0	75 16.0	
4 5	J. W.	74 56.2	76 48.9	75 46.9	76 12.0	75 15.6	74 09.8	75 44.1	73 38.3	—	75 18.9	
7 20	J. J.	74 43.7	76 57.8	75 26.3	76 40.2	—	—	—	—	33.7	75 23.3	
8 4	J. J.	74 38.7	76 50.7	75 22.8	76 31.3	74 46.2	74 38.4	75 13.8	74 15.3	—	75 17.1	
10 20	W. G.	75 01.2	76 33.3	76 12.5	76 11.6	—	—	—	—	37.3	75 22.3	
11 4	W. G.	75 01.2	76 33.2	75 43.5	76 10.3	74 49.7	74 30.3	75 17.4	73 52.6	—	75 14.8	
14 20	W. H.	75 06.1	73 49.9	74 22.3	75 36.9	—	—	—	—	28.9	75 12.7	
15 4	W. H.	76 49.4	75 36.2	76 11.2	74 58.8	73 49.0	75 12.3	75 06.4	75 36.6	—	75 25.0	75 18.4
17 20	T. M.	75 00.8	76 40.7	75 33.5	76 15.6	—	—	—	—	34.8	75 17.8	
18 4	T. M.	74 56.4	76 44.5	75 33.1	76 11.4	75 05.8	74 19.7	75 34.1	73 47.1	—	75 16.5	
21 20	J. W.	74 47.4	76 41.9	75 37.8	76 18.1	—	—	—	—	33.9	75 17.4	
22 4	J. W.	74 48.5	76 49.7	75 30.4	76 17.0	75 08.1	74 28.1	75 39.0	73 39.4	—	75 17.5	
24 20	J. J.	74 42.8	77 09.2	75 19.3	76 31.3	—	—	—	—	34.3	75 21.3	
25 4	J. J.	74 44.7	76 58.4	75 18.7	76 34.9	74 41.2	74 48.0	75 15.8	74 17.5	—	75 19.9	
28 20	W. G.	74 51.4	76 47.6	75 48.8	76 15.3	—	—	—	—	34.7	75 21.1	
29 4	W. G.	75 03.0	76 47.4	75 38.1	76 10.6	75 08.8	74 26.1	75 47.5	73 38.7	—	75 20.0	
Jan.												
31 20	W. H.	74 58.0	76 48.2	75 42.4	76 12.0	—	—	—	—	34.6	75 20.5	
1 4	W. H.	74 55.6	76 35.4	75 40.0	76 07.4	75 03.6	74 20.2	75 32.6	73 45.2	—	75 15.0	
7 20	J. W.	75 18.0	76 31.8	75 44.9	76 01.2	—	—	—	—	34.3	75 19.7	
8 4	J. W.	75 12.2	76 35.4	75 45.7	76 00.1	75 02.5	74 36.5	75 28.4	73 51.2	—	75 18.9	
11 20	J. J.	74 54.8	76 55.5	75 25.4	76 22.5	—	—	—	—	38.9	75 15.6	
12 4	J. J.	74 51.5	77 01.2	75 30.4	76 33.6	74 41.0	74 57.0	74 48.3	74 19.1	—	75 20.2	
14 20	W. G.	75 15.2	76 40.5	75 50.1	76 10.1	—	—	—	—	27.8	75 31.2	75 19.5
15 4	W. G.	75 16.2	76 45.3	75 49.3	76 10.7	74 40.7	75 14.8	74 27.7	75 56.2	—	75 32.6	
18 20	W. H.	74 59.4	76 39.2	75 36.8	76 18.9	—	—	—	—	36.7	75 16.9	
19 4	W. H.	75 00.6	76 43.2	75 42.8	76 11.8	75 03.2	74 20.2	75 39.2	73 42.2	—	75 17.9	
21 20	T. M.	75 04.0	76 17.2	75 10.4	76 22.0	—	—	—	—	35.0	75 08.4	
22 4	T. M.	75 29.0	76 35.1	75 17.8	76 17.0	75 21.2	74 21.9	75 07.8	74 07.8	—	75 19.7	
25 20	J. W.	75 27.0	76 21.0	75 25.9	76 20.3	—	—	—	—	34.4	75 19.1	
26 4	J. W.	75 21.9	76 18.9	75 27.4	76 21.7	75 19.0	74 20.7	74 58.2	74 16.4	—	75 18.0	
Feb.												
28 20	J. J.	74 37.6	74 36.8	75 12.2	76 43.1	—	—	—	—	21.3	75 16.1	
1 4	J. J.	74 41.6	76 36.0	75 15.4	76 40.6	75 00.4	74 30.9	74 55.0	74 36.9	—	75 17.1	
4 20	W. G.	75 18.7	75 47.8	75 19.8	76 15.1	—	—	—	—	28.0	75 12.3	
5 4	W. G.	75 19.6	76 16.4	75 11.5	76 10.0	75 38.7	73 59.8	74 10.6	75 24.6	—	75 16.4	
7 20	W. H.	75 26.0	76 22.6	75 24.6	76 14.6	—	—	—	—	31.6	75 20.3	
8 4	W. H.	75 23.6	76 17.0	75 28.0	76 22.2	75 20.4	74 23.4	75 22.6	74 11.8	—	75 21.1	
11 20	T. M.	75 47.0	75 52.2	75 43.6	75 47.9	—	—	—	—	36.0	75 11.7	
12 4	T. M.	75 50.5	75 45.0	75 52.7	75 40.9	74 52.2	74 09.0	74 43.4	74 36.6	—	75 11.3	
14 20	J. W.	75 19.7	76 20.8	75 13.1	76 12.7	—	—	—	—	33.8	75 12.8	
15 4	J. V.	75 21.9	76 13.8	75 18.2	76 20.4	75 20.4	74 02.9	75 03.5	74 16.7	—	75 14.7	75 14.5
18 20	J. J.	74 59.2	76 33.1	74 55.5	76 42.3	—	—	—	—	31.3	75 16.2	
19 4	J. J.	75 02.8	76 33.5	74 57.4	76 38.1	75 28.2	74 09.4	75 13.9	74 09.9	—	75 16.6	
21 20	J. J.	75 00.7	76 21.4	74 46.2	76 26.3	—	—	—	—	33.6	75 05.0	
22 4	T. M.	75 02.5	76 30.5	75 00.4	76 25.1	75 13.9	73 54.9	75 10.6	74 10.2	—	75 11.0	
25 20	J. W.	75 09.0	76 26.6	75 06.2	76 22.8	—	—	—	—	34.0	75 12.1	
26 4	J. W.	75 10.4	76 26.0	75 11.4	76 22.5	75 10.6	74 03.4	75 06.5	74 18.1	—	75 13.6	
28 20	J. J.	75 17.2	76 25.6	75 08.0	76 20.0	—	—	—	—	30.5	75 17.2	
29 4	J. J.	75 17.2	76 25.3	75 08.5	76 20.0	75 09.3	74 20.0	75 10.0	74 27.2	—	75 17.1	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

Toronto Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1845.												
April.												
1 20	W. G.	75 05.9	76 20.8	75 18.6	76 27.0	—	—	—	—	35.3	75 12.8	75 11.5
2 4	W. G.	75 12.4	76 25.7	75 13.3	76 21.3	74 57.2	73 56.6	75 15.3	74 21.2	—	75 12.9	
4 20	W. H.	75 19.4	76 30.6	75 13.9	76 09.6	—	—	—	—	33.6	75 14.8	
5 4	W. H.	75 23.0	76 28.4	75 17.6	76 08.4	75 08.6	74 11.8	75 06.1	74 21.4	—	75 15.6	
8 20	T. M.	75 31.4	76 11.1	75 23.5	76 09.7	—	—	—	—	34.1	75 14.8	
9 4	T. M.	75 31.2	75 26.1	75 27.4	76 09.4	75 04.7	74 01.9	74 40.0	74 14.2	—	75 04.3	
11 20	J. W.	75 51.4	75 47.0	75 27.7	76 22.1	—	—	—	—	37.1	75 14.9	
12 4	J. W.	75 51.6	75 56.1	75 21.9	76 15.4	74 56.8	74 04.0	75 04.4	74 22.3	—	75 14.0	
15 20	J. J.	75 22.7	75 47.1	75 24.8	76 23.5	—	—	—	—	30.1	75 14.4	
16 4	J. J.	75 20.8	76 00.0	75 18.2	76 06.9	75 02.5	74 03.3	75 28.1	74 11.4	—	75 11.4	
18 20	W. G.	75 21.7	75 59.8	75 22.4	76 11.2	—	—	—	—	32.4	75 11.4	
19 4	W. G.	75 32.1	76 02.1	75 31.6	76 10.6	75 09.8	74 11.9	75 15.6	74 19.8	—	75 16.7	
25 20	T. M.	76 38.2	75 38.3	76 46.9	75 31.9	—	—	—	—	59.8	75 09.0	
26 4	T. M.	76 34.0	75 36.3	76 43.0	75 28.8	73 37.8	74 33.1	73 42.9	74 30.3	—	75 05.7	
29 20	J. W.	76 49.0	75 37.0	76 44.9	75 32.3	—	—	—	—	66.3	75 04.5	
30 4	W. G.	76 43.1	75 40.7	76 52.5	75 38.9	73 40.6	74 20.7	73 30.6	74 32.4	—	75 07.4	
May.												
2 20	J. J.	76 31.9	75 45.7	76 43.7	75 36.2	—	—	—	—	61.1	75 08.3	75 15.4
3 4	J. J.	76 28.8	75 47.0	76 33.9	75 41.5	73 30.0	74 40.9	73 30.0	74 41.6	—	75 06.7	
6 20	W. G.	76 29.7	74 19.4	76 20.0	74 29.5	—	—	—	—	4.2	75 20.4	
7 5	W. G.	76 23.0	74 14.3	76 20.5	74 31.4	74 01.0	76 25.7	73 59.4	76 29.4	—	75 18.1	
9 20	W. H.	76 29.2	74 12.6	76 16.8	74 26.0	—	—	—	—	3.2	75 18.0	
10 4	W. H.	76 28.6	74 15.6	76 15.7	74 23.9	74 04.4	76 18.8	74 07.4	76 27.1	—	75 17.6	
13 20	T. M.	76 30.1	74 01.1	76 31.3	74 07.9	—	—	—	—	2.7	75 14.9	
14 4	T. M.	76 30.1	74 00.0	76 32.2	74 05.2	73 56.9	76 21.3	74 10.8	76 16.6	—	75 14.1	
16 20	J. W.	76 31.7	74 12.7	76 21.3	74 19.6	—	—	—	—	2.3	75 19.0	
17 4	J. W.	76 34.4	73 55.0	76 17.6	74 16.9	74 17.0	76 09.8	73 57.6	76 21.1	—	75 13.7	
20 20	J. J.	76 41.4	73 59.0	76 28.6	74 21.0	—	—	—	—	5.3	75 17.2	
21 4	J. J.	76 39.7	74 00.8	76 24.6	74 19.1	74 26.1	76 02.0	73 52.9	76 20.4	—	75 15.6	
23 20	W. G.	76 51.8	73 57.1	76 17.3	74 17.7	—	—	—	—	1.9	75 19.0	
24 4	W. G.	76 47.9	73 49.7	76 25.2	74 09.2	74 07.1	76 15.4	74 09.6	76 25.0	—	75 16.1	
27 20	W. H.	76 29.8	74 12.2	76 16.0	74 22.8	—	—	—	—	6.9	75 13.3	
28 4	W. H.	76 31.7	74 11.0	76 23.8	74 24.4	74 15.8	76 09.6	73 51.8	76 18.6	—	75 15.8	
30 20	T. M.	76 31.4	74 08.1	76 18.7	74 21.8	—	—	—	—	6.2	75 13.8	
31 4	T. M.	76 40.3	74 02.5	76 26.4	74 17.7	74 13.7	76 02.5	74 01.2	76 19.8	—	75 15.5	
June.												
3 20	J. W.	76 24.0	74 09.6	76 23.9	74 35.2	—	—	—	—	6.9	75 16.3	75 15.2
4 4	J. W.	76 32.1	74 12.6	76 20.0	74 30.0	74 12.0	76 09.8	73 53.7	76 24.0	—	75 16.8	
6 20	J. J.	76 41.6	74 02.7	76 28.8	74 19.8	—	—	—	—	7.5	75 15.7	
7 4	J. J.	76 41.9	73 59.0	76 27.8	74 19.4	74 18.2	76 00.0	74 03.6	76 05.8	—	75 14.4	
10 20	W. G.	77 09.8	74 14.8	76 21.8	74 27.2	—	—	—	—	12.2	75 21.2	
11 4	W. G.	76 31.4	74 04.8	76 25.4	74 50.4	73 57.2	76 04.6	73 54.4	76 18.0	—	75 15.8	
13 20	J. J.	76 41.8	74 01.6	76 23.5	74 20.4	—	—	—	—	9.1	75 12.7	
14 4	J. J.	76 40.2	74 00.8	76 29.8	74 17.2	74 15.2	75 50.4	74 05.1	76 04.0	—	75 12.8	
17 20	T. M.	76 46.4	74 01.1	76 31.2	74 13.8	—	—	—	—	9.0	75 14.1	
18 4	T. M.	76 48.7	74 00.3	76 40.6	74 09.8	74 00.9	76 04.4	73 56.1	76 25.8	—	75 15.8	
20 20	J. W.	76 40.3	74 02.1	76 22.6	74 22.8	—	—	—	—	10.3	75 11.6	
21 4	J. W.	76 42.0	73 58.4	76 26.2	74 27.6	74 01.3	75 59.0	73 47.3	76 23.5	—	75 13.1	
24 20	J. J.	76 40.8	74 12.2	76 24.4	74 24.2	—	—	—	—	12.1	75 13.3	
25 4	J. J.	76 34.0	74 11.2	76 29.2	74 29.0	74 00.0	76 06.6	73 56.0	76 04.0	—	75 13.7	
27 20	W. G.	76 35.7	74 12.7	76 41.4	74 21.2	—	—	—	—	7.5	75 20.3	
28 4	W. G.	76 41.4	74 06.2	76 24.4	74 22.4	73 55.3	76 23.4	73 43.1	76 32.8	—	75 16.1	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1845.											
D. H.		°	'	°	'	°	'	°	'	°	'
July.											
1 20	W. H.	76 40.2	74 09.8	76 19.2	74 23.6	—	—	—	—	8.4	75 14.8
2 4	W. H.	76 39.2	74 00.2	76 23.0	74 22.4	74 03.8	76 03.2	73 47.0	76 23.2	—	75 12.7
4 20	T. M.	76 45.6	74 00.4	76 29.7	74 11.8	—	—	—	—	10.4	75 11.5
5 4	T. M.	76 42.3	74 01.6	76 33.0	74 14.1	73 50.7	76 10.4	73 41.1	76 25.4	—	75 12.3
8 20	J. W.	76 38.4	74 11.4	76 26.6	74 27.7	—	—	—	—	11.4	75 14.6
9 4	J. W.	76 38.5	74 07.6	76 29.0	74 22.2	73 55.9	76 05.4	73 41.8	76 22.9	—	75 12.9
11 20	J. J.	76 32.6	74 10.8	76 21.4	74 26.8	—	—	—	—	10.2	75 12.7
12 4	J. J.	76 52.5	74 12.2	76 30.5	74 12.0	73 55.6	76 00.8	73 55.0	76 34.0	—	75 16.5
15 20	W. G.	76 30.6	74 23.7	76 38.6	74 27.2	—	—	—	—	10.9	75 19.1
16 4	W. G.	76 53.9	74 15.6	76 33.1	74 17.0	73 57.4	76 16.0	73 49.2	76 29.9	—	75 19.0
18 20	W. H.	76 39.2	74 10.8	76 30.2	74 24.2	—	—	—	—	12.4	75 13.7
19 4	W. H.	76 41.4	74 11.0	76 25.8	74 25.6	73 54.6	76 06.8	73 41.8	76 20.8	—	75 13.4
22 20	T. M.	76 40.2	74 08.2	76 20.3	74 19.5	—	—	—	—	11.4	75 10.6
23 4	T. M.	76 44.0	74 04.7	76 30.0	74 20.8	73 59.2	75 59.7	73 52.8	76 17.0	—	75 13.5
25 20	J. W.	76 39.5	74 05.7	76 28.4	74 21.7	—	—	—	—	10.8	75 13.0
26 4	J. W.	76 42.5	74 05.5	76 29.3	74 18.9	74 02.1	76 05.5	73 50.4	76 11.3	—	75 13.1
29 20	J. J.	76 49.9	74 03.0	76 42.9	74 11.4	—	—	—	—	10.1	75 16.7
30 4	J. J.	76 56.0	74 00.5	76 36.5	74 09.2	74 11.2	75 52.3	73 59.6	76 18.1	—	75 15.4
August.											
1 20	W. G.	76 36.7	74 14.6	76 13.9	74 30.8	—	—	—	—	10.4	75 13.6
2 4	W. G.	76 34.9	74 15.4	76 29.2	74 29.9	73 42.6	76 30.2	73 41.5	76 31.8	—	75 16.9
5 20	W. H.	76 38.8	74 09.2	76 30.4	74 23.5	—	—	—	—	10.5	75 15.0
6 4	W. H.	76 40.2	74 10.0	76 31.2	74 18.4	73 58.9	76 07.0	73 51.8	76 18.1	—	75 14.4
8 20	T. M.	76 50.0	74 02.8	76 32.0	73 49.6	—	—	—	—	9.0	75 09.6
9 4	T. M.	76 48.0	73 59.3	76 30.0	74 09.6	74 08.6	76 07.3	73 56.6	76 02.3	—	75 12.7
12 20	J. W.	76 39.8	74 02.6	76 23.1	74 16.8	—	—	—	—	9.8	75 10.8
13 4	J. W.	76 40.4	74 02.9	76 27.0	74 18.2	74 01.9	76 00.7	73 49.1	76 18.3	—	75 12.3
15 20	J. J.	76 36.9	74 12.8	76 25.1	74 26.9	—	—	—	—	11.1	75 14.3
16 4	J. J.	76 36.1	74 11.6	76 28.2	74 24.9	74 00.6	76 05.6	73 50.8	76 14.8	—	75 14.0
19 20	W. G.	76 37.2	74 09.7	76 35.2	74 29.6	—	—	—	—	8.0	75 19.9
20 4	W. G.	76 36.4	74 21.3	76 34.8	74 24.6	74 15.5	76 30.6	73 54.4	76 12.6	—	75 21.3
22 20	W. H.	76 40.8	74 04.5	76 26.6	74 23.0	—	—	—	—	10.5	75 13.2
23 4	W. H.	76 43.2	74 07.7	76 27.9	74 24.0	74 03.8	76 04.8	73 51.2	76 18.6	—	75 15.1
26 20	T. M.	76 44.9	74 07.2	76 34.3	74 24.6	—	—	—	—	13.0	75 14.7
27 4	T. M.	76 42.1	74 04.1	76 29.7	74 25.0	73 49.3	76 03.4	73 46.6	76 17.4	—	75 12.2
29 20	J. W.	76 33.4	74 21.3	76 22.4	74 33.2	—	—	—	—	12.7	75 14.9
30 4	J. W.	76 32.8	74 20.1	76 23.1	74 33.5	74 00.8	76 00.3	73 52.0	76 14.6	—	75 14.6
September.											
2 20	W. H.	76 34.6	74 19.5	76 29.0	74 23.5	—	—	—	—	12.2	75 14.4
3 4	W. H.	76 36.2	74 13.2	76 29.6	74 27.8	74 04.2	76 02.4	73 51.1	76 11.5	—	75 14.5
5 20	W. G.	76 33.0	74 23.0	76 32.4	74 33.2	—	—	—	—	10.8	75 19.6
6 4	W. G.	76 40.0	74 13.4	76 34.1	74 22.7	73 58.3	76 15.2	73 52.4	76 17.8	—	75 16.7
9 20	W. H.	76 37.6	74 12.0	76 31.1	74 32.2	—	—	—	—	10.7	75 17.5
10 4	W. H.	76 38.4	74 16.4	76 26.8	74 28.8	74 07.0	76 07.4	73 45.4	76 25.2	—	75 16.9
12 20	T. M.	76 51.9	74 00.2	76 35.5	74 18.5	—	—	—	—	9.0	75 17.5
13 4	T. M.	76 47.2	74 01.3	76 35.3	74 22.4	74 05.8	76 19.4	73 56.6	76 12.3	—	75 17.5
16 20	J. W.	76 36.5	74 09.7	76 19.2	74 29.0	—	—	—	—	9.8	75 13.8
17 4	J. W.	76 41.1	74 07.3	76 20.6	74 22.8	74 11.2	75 54.2	73 50.5	76 16.8	—	75 13.0
19 20	J. J.	76 41.3	74 17.4	76 21.0	74 41.6	—	—	—	—	11.5	75 18.8
20 4	J. J.	76 34.8	74 27.8	76 27.8	74 27.8	73 59.9	76 08.8	73 59.6	76 17.4	—	75 17.9
23 20	W. G.	76 30.7	74 18.4	76 34.9	74 19.8	—	—	—	—	9.2	75 19.0
24 4	W. G.	76 43.0	74 14.1	76 31.5	74 27.8	73 54.4	76 11.8	74 11.0	76 25.3	—	75 19.8
26 20	W. H.	76 37.7	74 13.0	76 16.8	74 26.8	—	—	—	—	8.0	75 15.6
27 4	W. H.	76 36.0	74 13.8	76 15.8	74 25.0	73 55.2	76 16.6	73 53.2	76 20.8	—	75 14.5

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Old Static No. 2."

Toronto Astro. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Half- Difference between Poles "Direct" and "Reversed."	Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1845. D. H.												
Sept. 30 20	W. G.	76 27.7	74 15.9	76 15.0	74 31.2	—	—	—	—	16.1	75 06.3	
1 4	W. G.	76 39.2	74 28.8	76 30.1	74 38.0	73 50.0	76 03.7	73 55.0	76 18.1	—	75 17.9	
3 20	J. W.	76 33.0	74 16.4	76 22.2	74 20.6	—	—	—	—	10.9	75 12.1	
4 4	J. W.	76 37.1	74 20.4	76 18.7	74 18.1	74 04.0	75 59.8	73 45.8	76 17.2	—	75 12.6	
7 20	J. J.	76 35.8	74 16.4	76 34.0	74 35.2	—	—	—	—	13.9	75 16.4	
8 4	J. J.	76 34.5	74 21.8	76 24.0	74 41.0	74 05.4	75 59.5	73 46.3	76 18.6	—	75 16.3	
10 20	W. G.	76 39.0	74 16.7	76 29.6	74 21.0	—	—	—	—	15.1	75 11.5	
11 4	W. G.	76 37.3	74 28.9	76 29.2	74 31.6	74 04.8	76 04.8	73 47.0	76 09.2	—	75 16.5	
14 20	W. H.	76 34.8	74 19.0	76 31.2	74 28.6	—	—	—	—	13.5	75 14.9	
15 4	W. H.	76 35.0	74 19.0	76 25.6	74 29.2	74 03.2	76 02.2	73 45.4	76 10.2	—	75 13.7	75 14.3
17 20	T. M.	76 39.7	74 11.3	76 28.0	74 26.9	—	—	—	—	13.7	75 12.8	
18 4	T. M.	76 44.1	74 11.4	76 32.6	74 22.2	73 53.8	75 57.3	73 56.1	76 13.4	—	75 13.8	
21 20	J. W.	76 56.0	74 16.7	76 39.4	74 40.5	—	—	—	—	16.5	75 21.6	
22 4	J. W.	76 52.0	74 15.5	76 34.4	74 40.2	74 01.8	76 07.6	73 41.0	76 19.8	—	75 19.0	
24 20	J. J.	76 41.2	74 21.4	76 25.9	74 36.8	—	—	—	—	19.1	75 12.2	
25 4	J. J.	76 44.2	74 30.4	76 35.0	74 41.4	74 00.2	76 00.0	73 28.4	76 29.0	—	75 18.5	
28 20	J. J.	76 53.3	74 01.8	77 02.1	74 15.9	—	—	—	—	24.4	75 08.9	
29 4	W. G.	77 06.8	74 08.3	76 53.5	74 19.9	73 57.3	75 57.9	73 04.1	76 13.8	—	75 12.7	
Oct. 31 20	W. G.	76 52.6	74 04.7	77 02.3	74 34.2	—	—	—	—	17.8	75 20.6	
1 4	W. H.	77 02.4	73 53.2	77 07.4	74 25.4	73 49.8	76 09.0	73 53.4	76 13.6	—	75 19.2	
4 20	W. H.	77 22.6	73 48.7	77 26.0	73 57.4	—	—	—	—	20.0	75 18.7	
5 4	T. M.	77 20.0	73 43.3	77 24.6	73 56.5	73 36.8	76 07.4	73 25.6	76 34.3	—	75 16.0	
7 20	J. W.	77 00.2	74 11.0	77 04.7	74 07.3	—	—	—	—	19.7	75 16.1	
8 4	J. W.	77 08.8	74 03.0	77 12.6	74 06.0	73 35.4	76 12.7	73 22.8	76 42.1	—	75 17.9	
11 20	J. J.	77 01.0	74 14.1	77 01.6	74 18.0	—	—	—	—	21.9	75 16.8	
12 4	J. J.	77 12.6	74 09.8	76 55.5	74 22.4	73 23.7	76 30.2	73 08.4	76 42.0	—	75 18.0	
14 20	W. G.	77 03.4	73 58.3	77 04.6	74 08.1	—	—	—	—	25.4	75 08.2	75 16.8
15 4	W. G.	77 00.9	74 09.6	77 05.1	74 17.1	73 15.9	76 18.1	73 18.4	76 16.8	—	75 12.7	
18 20	W. H.	—	—	—	—	73 44.1	76 15.4	73 25.7	76 35.9	17.4	75 17.7	
19 4	W. H.	76 59.1	74 08.4	77 00.6	74 11.3	73 41.5	76 18.2	73 23.0	76 36.9	—	75 17.3	
21 20	T. M.	76 52.3	74 08.1	76 49.2	74 19.5	—	—	—	—	17.7	75 14.6	
22 4	T. M.	76 56.9	74 04.0	76 58.6	74 16.6	73 49.9	76 04.7	73 40.2	76 19.4	—	75 16.2	
25 20	J. W.	77 00.3	74 13.0	76 56.6	74 24.6	—	—	—	—	18.3	75 20.3	
26 4	J. W.	77 01.1	74 03.8	76 57.6	74 17.7	73 49.8	76 13.0	73 21.5	76 29.2	—	75 16.7	
28 20	J. J.	77 06.8	74 00.8	77 00.0	74 12.5	—	—	—	—	—	75 17.3	
29 4	J. J.	77 09.3	73 57.6	77 03.3	74 11.6	73 49.1	76 10.7	73 31.1	76 29.1	—	75 17.7	
Nov. 5 20	W. H.	76 51.6	74 13.5	76 53.1	74 14.3	73 28.2	76 41.3	73 26.1	76 39.8	9.0	75 18.4	
6 4	W. H.	76 49.3	74 12.3	76 53.4	74 14.4	73 31.5	76 35.1	73 32.5	76 36.7	—	75 18.1	
9 20	T. M.	76 53.9	73 58.8	76 57.1	74 00.7	—	—	—	—	19.2	75 08.4	
10 4	T. M.	77 02.1	74 04.5	76 58.8	74 05.9	73 55.3	75 41.1	73 33.4	76 27.6	—	75 13.5	
12 20	J. W.	76 52.6	74 00.4	77 01.6	74 08.0	—	—	—	—	17.5	75 13.1	
13 4	J. W.	77 02.3	74 00.4	77 05.7	74 07.9	73 39.8	76 13.7	73 35.3	76 27.4	—	75 16.5	
16 20	J. J.	76 56.0	73 59.6	76 59.5	74 01.3	73 39.4	76 16.8	73 37.4	76 31.2	—	75 15.1	
17 4	J. J.	76 59.9	74 08.4	76 55.3	73 58.8	73 39.5	76 20.4	73 31.7	76 29.4	16.5	75 15.4	75 15.2
19 20	W. G.	76 36.4	74 16.5	76 45.1	74 04.9	—	—	—	—	—	75 09.2	
20 4	W. G.	77 05.2	74 09.9	76 54.7	74 06.8	73 04.6	77 11.2	73 07.4	76 41.3	—	75 17.6	
23 20	W. H.	77 02.6	74 03.0	77 03.8	74 05.1	—	—	—	—	17.6	75 16.0	
24 4	W. H.	77 04.0	74 03.5	77 03.6	74 04.8	73 38.4	76 17.9	73 35.9	76 22.8	—	75 16.3	
26 20	W. H.	77 00.3	74 04.2	77 03.0	74 03.1	—	—	—	—	15.3	75 17.3	
27 4	W. H.	76 59.9	74 01.9	76 53.6	74 11.2	73 44.7	76 20.3	73 44.2	76 14.3	—	75 16.2	
30 20	W. G.	76 58.7	74 04.9	77 02.6	74 01.7	—	—	—	—	17.4	75 14.6	
31 4	W. G.	77 00.6	74 13.5	77 02.8	74 06.2	73 32.3	76 32.8	73 34.0	76 24.5	—	75 18.3	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Gambey, G. 1."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1846.											
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
2 20 <sup>a</sup>	W. H.	75 00.9	75 32.1	75 39.4	74 56.2	74 58.9	75 43.9	75 26.3	74 40.3	75 14.7	
3 4	W. H.	75 01.1	75 34.7	75 39.9	74 57.9	74 59.2	75 42.4	75 28.8	74 41.2	75 15.6	
6 20	T. M.	74 55.6	75 44.7	75 28.5	74 35.7	75 00.8	75 28.5	75 31.2	74 55.1	75 12.5	
7 4	T. M.	74 54.4	75 40.8	75 28.1	74 36.8	74 56.9	75 34.4	75 28.3	75 02.5	75 12.7	
9 20	J. W.	75 00.8	75 43.9	75 32.7	74 43.5	75 00.0	75 24.7	75 31.8	74 58.4	75 14.4	
10 4	J. W.	75 00.6	75 40.4	75 30.2	74 45.3	75 01.0	75 23.3	75 33.6	74 55.1	75 13.6	
13 20	J. W.	74 59.6	75 41.4	75 28.2	74 42.0	75 03.6	75 27.8	75 38.6	74 54.7	75 14.5	
14 4	J. W.	74 59.4	75 41.6	75 29.2	74 41.4	75 03.5	75 30.4	75 33.2	74 55.9	75 14.3	
16 20	J. J.	74 55.1	75 42.8	75 26.2	74 41.2	75 04.4	75 27.6	75 36.2	74 54.3	75 13.5	
17 4	J. J.	74 56.8	75 41.9	75 26.2	74 41.3	75 02.5	75 27.5	75 36.4	74 54.8	75 13.4	75 13.9
20 20	W. H.	75 01.3	75 44.4	75 34.0	74 43.1	75 04.0	75 27.9	75 33.3	74 56.2	75 15.5	
21 4	W. H.	75 01.2	75 44.0	75 33.1	74 42.6	75 01.8	75 26.2	75 32.9	74 56.7	75 14.8	
23 20	J. J.	74 55.5	75 41.5	75 32.0	74 47.2	75 00.0	75 30.0	75 34.0	74 54.3	75 14.3	
24 4	J. J.	75 00.4	75 40.8	75 32.7	74 39.4	75 01.6	75 30.6	75 31.7	74 54.6	75 14.0	
27 20	J. W.	74 51.2	75 33.0	75 35.6	74 48.4	74 50.4	75 36.0	75 36.0	74 56.4	75 13.3	
28 4	J. W.	74 58.1	75 40.2	75 29.8	74 42.8	74 58.4	75 33.3	75 31.6	74 56.1	75 13.7	
30 20	J. J.	74 53.0	75 42.8	75 22.8	74 43.1	75 06.8	75 28.8	75 29.4	74 53.7	75 12.5	
31 4	J. J.	74 53.3	75 41.0	75 26.7	74 40.8	75 01.0	75 29.8	75 33.4	74 53.4	75 12.5	
January.											
3 20	W. G.	75 02.4	75 30.8	75 35.0	74 57.1	74 55.4	75 44.1	75 28.9	74 57.3	75 16.3	
4 4	W. G.	75 00.9	75 28.5	75 32.2	74 59.2	74 55.7	75 41.7	75 29.9	74 44.3	75 14.0	
6 20	W. H.	75 04.6	75 29.1	75 32.6	74 59.0	74 56.4	74 45.1	75 25.1	74 42.7	75 14.3	
7 4	W. H.	75 01.8	75 26.7	75 33.6	74 57.0	74 56.2	75 44.0	75 26.8	74 45.9	75 14.0	
10 20	T. M.	74 56.4	75 38.9	75 24.0	74 38.4	75 00.0	75 28.2	75 30.0	74 57.7	75 11.7	
11 4	T. M.	75 00.0	75 44.3	75 29.3	74 40.7	75 00.0	75 25.6	75 30.4	74 54.9	75 13.1	
13 20	J. W.	75 00.8	75 34.0	75 33.4	74 45.4	74 59.0	75 35.7	75 40.0	4 58.1	75 15.8	
14 4	J. W.	75 00.2	75 40.2	75 32.7	74 47.5	75 02.5	75 32.4	75 34.3	74 58.8	75 16.0	75 14.2
17 20	J. J.	75 01.4	75 20.0	75 31.7	75 01.6	74 57.7	75 44.8	75 29.1	74 44.2	75 13.8	
18 4	J. J.	75 07.6	75 38.8	75 21.5	74 50.5	74 57.8	75 43.3	75 25.4	74 48.0	75 14.1	
20 20	W. G.	74 51.8	75 42.3	75 22.4	74 51.0	75 01.4	75 28.4	75 33.4	74 56.2	75 13.3	
21 4	W. G.	74 55.5	75 39.4	75 24.7	74 48.5	75 02.0	75 36.2	75 31.9	74 52.8	75 13.8	
24 20	W. H.	75 05.0	75 33.6	75 24.3	75 02.3	75 03.0	75 24.7	75 36.4	74 55.7	75 15.6	
25 4	W. H.	75 03.8	75 32.8	75 25.2	75 03.2	74 58.2	75 25.4	75 35.8	74 55.6	75 14.9	
27 20	T. M.	74 55.0	75 44.6	75 23.1	74 53.0	75 02.7	75 27.3	75 31.0	74 50.1	75 13.3	
28 4	T. M.	74 52.6	75 41.2	75 29.2	74 49.4	75 04.8	75 27.6	75 31.4	74 52.7	75 13.6	
February.											
3 20	J. W.	74 51.2	75 42.8	75 24.5	74 48.0	75 03.0	75 28.2	75 31.2	74 48.8	75 12.2	
4 4	J. W.	74 55.8	75 41.2	75 29.4	74 45.9	75 03.0	75 30.8	75 32.5	74 55.3	75 14.2	
6 20	J. J.	74 58.4	75 40.2	75 25.7	74 41.7	75 04.0	75 30.8	75 31.3	74 49.4	75 12.7	
7 4	J. J.	74 58.0	75 39.3	75 25.2	74 41.1	75 04.8	75 30.0	75 32.4	74 57.6	75 13.5	
10 20	W. G.	74 57.0	75 42.5	75 29.5	74 46.2	75 03.9	75 29.6	75 31.4	75 00.2	75 15.0	
11 4	W. G.	75 01.9	75 42.2	75 31.6	74 42.5	74 59.3	75 36.6	75 28.9	74 59.5	75 15.3	
13 20	W. H.	74 58.4	75 39.5	75 24.7	74 39.5	75 06.7	75 32.8	75 34.7	74 58.1	75 14.3	
14 4	W. H.	74 58.5	75 37.9	75 26.4	74 39.5	75 07.1	75 32.7	75 35.8	74 55.7	75 14.2	
17 20	T. M.	74 52.0	75 39.4	75 26.2	74 42.2	75 02.2	75 30.2	75 33.0	74 59.4	75 13.0	75 13.8
18 4	T. M.	74 56.4	75 39.6	75 30.0	74 41.4	75 02.4	75 33.9	75 31.8	74 57.6	75 14.1	
20 20	J. W.	74 54.2	75 41.8	75 25.0	74 49.2	75 02.4	75 31.3	75 30.6	74 57.2	75 13.9	
21 4	J. W.	74 53.8	75 41.5	75 20.4	74 46.8	75 03.8	75 32.4	75 30.2	75 00.0	75 13.6	
24 20	J. J.	74 54.3	75 42.0	75 25.4	74 47.6	75 05.3	75 31.2	75 30.6	74 58.0	75 14.3	
25 4	J. J.	74 54.4	75 41.4	75 27.0	74 47.8	75 04.3	75 31.0	75 30.6	74 57.7	75 14.2	
27 20	W. G.	74 55.6	75 48.7	75 25.4	74 45.1	75 08.0	75 27.1	75 30.1	74 56.6	75 14.5	
28 4	W. G.	74 53.2	75 39.3	75 25.4	74 40.6	75 05.1	75 29.7	75 30.0	74 57.2	75 12.5	
March.											

<sup>a</sup> Gambey's Circle with Needle G 1 taken into use.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 1."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1846.											
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
Mar. 31 20	W. H.	75 33.4	75 00.7	74 55.0	75 32.0	76 02.8	74 24.8	75 02.0	75 23.6	75 14.3	
1 4 <sup>a</sup>	W. H.	75 34.6	74 59.5	74 58.1	75 29.5	75 34.4	74 55.8	75 03.2	75 32.8	75 15.9	
3 20	T. M.	75 30.8	75 09.3	75 16.3	75 12.7	75 10.9	75 12.6	75 21.0	74 56.4	75 13.7	
4 4	T. M.	75 27.8	75 08.3	75 21.1	75 00.2	75 03.8	75 21.2	75 11.3	75 20.4	75 14.2	
7 20	J. W.	75 10.8	75 13.6	75 16.8	75 10.2	74 57.8	75 28.2	75 11.6	75 18.0	75 13.3	
8 4	J. W.	75 18.8	75 11.2	75 28.0	74 58.8	74 59.6	75 30.0	75 10.4	75 18.4	75 14.4	
10 20	W. H.	75 14.2	75 12.8	75 25.1	75 06.4	75 01.3	75 25.9	75 13.9	75 17.4	75 14.6	
11 4	W. H.	75 15.5	75 14.1	75 23.9	75 08.2	74 59.3	75 27.1	75 14.4	75 16.8	75 14.9	
14 20	T. M.	75 13.4	75 15.2	75 20.2	75 04.0	75 02.0	75 37.1	75 09.8	75 01.8	75 13.0	
15 4	T. M.	75 13.0	75 20.0	75 14.4	75 03.6	75 01.4	75 24.5	75 16.7	75 17.2	75 13.8	75 14.3
17 20	J. W.	75 20.0	75 12.0	75 34.4	75 02.4	75 00.8	75 22.4	75 18.2	75 09.0	75 14.9	
18 4	J. W.	75 18.8	75 12.4	75 30.4	75 09.8	75 00.2	75 21.6	75 19.2	75 10.4	75 15.3	
21 20	J. J.	75 19.4	75 12.0	75 31.2	75 07.0	75 00.8	75 21.5	75 18.8	75 10.4	75 15.1	
22 4	J. J.	75 20.7	75 10.8	75 32.4	75 07.0	75 00.4	75 20.0	75 20.8	75 09.8	75 15.2	
24 20	W. G.	75 21.6	75 04.6	75 29.5	75 03.0	75 06.6	75 17.8	75 05.2	75 09.4	75 12.2	
25 4	W. G.	75 10.4	75 10.5	75 23.2	75 10.7	75 00.8	75 19.3	75 10.6	75 12.5	75 12.2	
28 20	W. H.	75 19.8	75 11.9	75 29.5	75 08.3	75 02.5	75 23.0	75 18.9	75 09.2	75 15.4	
29 4	W. H.	75 21.1	75 08.3	75 28.0	75 10.1	75 03.3	75 22.2	75 18.2	75 08.5	75 15.0	
1 20	T. M.	75 11.6	75 11.8	75 19.6	75 11.6	74 58.8	75 27.8	75 14.7	75 17.5	75 14.1	
2 4	T. M.	75 16.2	75 11.0	75 17.6	75 17.3	75 05.9	75 23.0	75 10.7	75 06.5	75 13.5	
5 20	J. W.	75 17.6	75 07.6	75 28.4	75 04.0	74 59.2	75 31.8	75 14.8	75 14.8	75 14.7	
6 4	J. W.	75 20.6	75 07.9	75 28.4	75 02.3	74 59.6	75 29.2	75 15.5	75 13.2	75 14.6	
8 20	J. J.	75 17.2	75 09.6	75 25.1	75 07.8	74 54.8	75 34.2	75 19.6	75 13.8	75 15.2	
9 4	J. J.	75 14.0	75 13.1	75 25.2	75 08.2	75 00.6	75 25.6	75 21.4	75 14.2	75 15.3	
12 20	W. G.	75 10.7	75 13.1	75 27.3	75 16.5	75 10.7	75 23.3	75 12.8	75 11.5	75 15.7	
13 4	W. G.	75 12.1	75 15.9	75 19.5	75 11.4	75 10.8	75 14.9	75 15.5	75 14.6	75 14.3	
15 20	W. H.	75 16.5	75 09.1	75 27.8	75 06.3	74 56.8	75 35.7	75 16.2	75 13.4	75 15.2	75 14.4
16 4	W. H.	75 14.8	75 10.6	75 27.9	75 04.4	74 58.8	75 34.0	75 14.3	75 15.7	75 15.3	
19 20	T. M.	75 10.0	75 16.3	75 24.2	75 02.0	75 04.4	75 20.5	74 57.7	75 30.8	75 13.2	
20 4	T. M.	75 10.7	75 08.9	75 19.2	75 08.0	75 19.2	75 21.1	75 12.8	75 09.8	75 13.7	
22 20	J. W.	75 14.8	75 18.3	75 25.4	75 08.3	74 56.6	75 14.2	75 24.3	75 16.4	75 14.8	
23 4	J. W.	75 16.6	75 11.5	75 18.2	75 09.4	74 59.2	75 08.2	75 25.6	75 10.4	75 12.3	
26 20	J. J.	75 21.0	75 04.6	75 24.8	75 09.6	75 07.2	75 24.0	75 14.6	75 18.7	75 15.5	
27 4	J. J.	75 16.5	75 12.8	75 05.8	75 25.2	75 05.4	75 31.9	75 19.2	75 13.2	75 15.6	
29 20	W. G.	75 03.5	75 23.5	75 12.9	75 14.2	75 14.2	75 16.1	75 06.0	75 15.7	75 13.2	
30 4	W. G.	75 14.1	75 13.8	75 13.0	75 14.0	75 15.3	75 13.7	75 16.6	75 10.5	75 13.8	
2 20	W. H.	75 12.9	75 15.2	75 30.9	75 13.6	75 15.5	75 09.8	75 09.6	75 14.9	75 15.3	
3 4	W. H.	75 11.0	75 15.8	75 29.0	75 13.5	75 13.8	75 11.8	75 08.6	75 13.6	75 14.6	
5 20	T. M.	75 18.7	75 05.7	75 27.7	75 00.0	75 04.1	75 19.3	75 17.4	75 20.3	75 14.1	
6 4	T. M.	75 10.0	75 09.8	75 27.7	75 10.2	75 03.0	75 18.0	75 19.2	75 18.7	75 14.5	
9 20	J. W.	75 10.4	75 21.8	75 02.4	75 22.4	74 56.6	75 34.3	75 12.9	75 30.8	75 16.4	
10 4	J. W.	74 58.4	75 25.4	75 03.0	75 23.1	74 53.2	75 33.4	75 16.0	75 26.7	75 14.9	
12 20	J. J.	75 17.9	75 12.8	75 28.2	75 21.2	75 09.6	75 11.5	75 16.6	75 14.6	75 16.5	
13 4	J. J.	75 18.8	75 12.4	75 25.2	75 21.2	75 09.6	75 22.1	75 09.1	75 10.8	75 16.4	
16 20	T. M.	75 10.9	75 18.0	75 20.5	75 02.4	74 55.4	75 30.1	75 11.1	75 20.2	75 13.5	75 14.8
17 4	T. M.	75 00.0	75 24.5	75 02.7	75 19.2	74 54.2	75 31.8	75 15.5	75 26.0	75 14.1	
19 20	W. H.	75 13.0	75 14.5	75 20.0	75 10.2	75 00.4	75 22.7	75 16.2	75 17.7	75 14.3	
20 4	W. H.	75 12.7	75 14.6	75 22.1	75 12.8	75 00.9	75 22.3	75 15.8	75 16.7	75 14.7	
23 20	T. M.	75 12.9	75 15.1	75 28.0	75 15.0	75 10.0	75 18.2	75 11.8	75 12.0	75 15.3	
24 4	T. M.	75 18.4	75 10.0	75 20.0	75 14.0	75 08.8	75 21.2	75 12.3	75 13.6	75 14.8	
26 20	J. W.	75 14.1	75 10.8	75 28.8	75 07.3	75 00.0	75 24.5	75 15.4	75 12.7	75 14.1	
27 4	J. W.	75 14.7	75 15.1	75 29.2	75 03.5	75 58.8	75 23.6	75 13.2	75 12.2	75 13.8	

<sup>a</sup> "Robinson, No. 1," (New) taken into use.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 1."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1846.											
D. H.											
June 30 20	J. J.	75 14.6	75 02.2	75 32.8	75 06.6	74 59.2	75 26.8	75 15.2	75 14.4	75 14.0	
1 4	J. J.	75 28.8	75 09.1	75 28.2	74 49.2	74 31.7	75 40.1	75 10.1	75 32.1	75 13.7	
3 20	W. G.	75 14.8	75 07.0	75 22.6	75 06.0	75 11.8	75 15.9	75 13.2	75 15.7	75 13.4	
4 4	W. G.	75 11.6	75 10.4	75 18.3	75 14.4	75 09.1	75 17.5	75 15.4	75 13.0	75 13.7	
7 20	J. W.	75 15.9	75 10.9	75 29.9	75 01.8	75 00.2	75 23.2	75 19.2	75 12.0	75 14.1	
8 4	J. W.	75 09.6	75 16.7	75 20.9	75 09.8	74 58.2	75 22.4	75 16.4	75 13.2	75 13.3	
10 20	J. W.	75 15.2	75 13.6	75 29.6	75 05.8	74 57.8	75 28.6	75 13.6	75 11.6	75 14.4	
11 4	J. W.	75 12.5	75 15.1	75 32.0	75 07.4	74 57.8	75 23.8	75 17.4	75 08.8	75 14.3	
14 20	J. W.	75 13.0	75 11.8	75 27.8	75 02.0	74 57.8	75 28.8	75 17.0	75 12.2	75 13.8	
15 4	J. W.	75 14.1	75 16.2	75 31.6	75 00.8	74 58.8	75 25.4	75 14.8	75 12.3	75 14.2	75 14.0
17 20	J. J.	75 08.2	75 20.2	75 11.4	75 21.6	75 01.6	75 28.8	75 17.6	75 17.0	75 15.7	
18 4	J. J.	75 07.2	75 14.2	75 29.2	75 13.2	74 59.1	75 20.4	75 20.6	75 22.6	75 15.8	
21 20	T. M.	75 10.0	75 19.4	75 16.0	75 06.1	74 59.3	75 26.6	75 19.0	75 06.3	75 12.8	
22 4	T. M.	75 00.1	75 21.0	75 11.4	75 15.2	74 59.6	75 23.4	75 13.2	75 13.2	75 12.1	
24 20	J. W.	75 12.4	75 21.8	75 19.2	75 03.6	74 58.0	75 28.8	75 19.8	75 14.2	75 14.7	
25 4	J. W.	75 10.8	75 22.0	75 21.8	75 04.8	74 57.8	75 26.6	75 16.5	75 17.3	75 14.7	
28 20	T. M.	75 10.4	75 14.0	75 25.9	75 07.1	75 00.0	75 27.2	75 16.8	75 12.0	75 14.2	
29 11	T. M.	75 10.0	75 15.0	75 26.4	75 08.4	74 54.2	75 31.4	75 08.3	75 15.3	75 13.6	
July 31 20	J. W.	74 59.6	75 18.6	75 28.8	75 08.8	74 57.6	75 28.0	75 18.8	75 12.8	75 14.1	
1 4	J. W.	75 07.8	75 10.6	75 32.2	75 05.0	74 56.2	75 27.4	75 22.6	75 12.9	75 14.3	
4 20	J. J.	75 14.5	75 10.2	75 22.5	75 03.2	74 55.2	75 23.8	75 23.8	75 13.8	75 13.4	
5 4	J. J.	75 10.4	75 17.8	75 21.6	75 01.9	75 01.9	75 23.4	75 21.8	75 12.9	75 13.9	
7 20	T. M.	75 10.2	75 17.3	75 23.0	75 04.7	74 44.2	75 25.2	75 19.2	75 19.3	75 12.9	
8 4	J. L.	75 05.7	75 30.3	75 19.8	75 01.2	74 49.6	75 20.6	75 12.6	75 12.4	75 11.5	
11 20	W. H.	75 14.7	75 16.3	75 13.5	75 15.0	75 01.0	75 12.9	75 13.4	75 31.7	75 14.3	
12 4	W. H.	75 14.1	75 15.9	75 13.8	75 15.2	75 01.2	75 16.7	75 13.3	75 32.9	75 15.3	
14 20	T. M.	75 06.9	75 28.4	75 10.6	75 03.2	75 00.0	75 18.4	75 19.5	75 13.4	75 12.5	
15 4	T. M.	75 09.7	75 28.8	75 20.6	74 59.0	74 53.0	75 25.5	75 20.6	75 14.6	75 13.9	75 14.4
18 20	J. W.	75 12.5	75 18.2	75 29.2	75 14.6	75 01.2	75 27.2	75 18.0	75 09.6	75 16.3	
19 4	J. W.	75 00.8	75 32.6	75 21.7	75 13.8	74 53.4	75 23.8	75 22.4	75 11.2	75 14.9	
21 20	J. J.	75 06.6	75 27.0	75 03.6	75 23.8	74 47.0	75 47.4	75 08.0	75 23.2	75 15.8	
22 4	J. J.	75 08.0	75 25.1	75 22.4	74 59.8	74 53.8	75 33.4	74 53.3	75 29.6	75 13.2	
25 20	J. L.	75 11.1	75 24.8	75 23.8	75 13.1	75 03.3	75 24.7	75 12.6	75 23.6	75 17.1	
26 4	J. L.	75 16.8	75 12.2	75 14.0	75 26.8	75 05.3	75 26.6	75 02.5	75 16.3	75 15.0	
28 20	W. H.	75 15.3	75 16.9	75 08.0	75 21.2	75 05.5	75 26.6	75 10.5	75 18.7	75 15.3	
29 4	W. H.	75 17.1	75 16.6	75 09.2	75 21.5	75 03.7	75 25.2	75 10.6	75 21.2	75 15.6	
1 20	T. M.	75 20.0	75 15.6	75 03.2	75 12.4	74 56.9	75 25.4	75 14.9	75 16.0	75 13.0	
2 4	T. M.	75 17.6	75 18.0	75 05.6	75 14.1	74 58.0	75 23.0	75 15.9	75 14.4	75 13.3	
4 20	J. W.	75 22.1	75 09.4	75 27.0	75 00.6	75 00.2	75 30.2	75 17.0	75 16.0	75 15.3	
5 4	J. W.	75 18.6	75 15.5	75 28.1	75 57.8	74 58.8	75 29.8	75 18.4	75 19.8	75 15.8	
8 20	J. J.	75 18.8	75 11.5	75 24.3	75 05.6	75 00.4	75 27.0	75 16.0	75 18.0	75 15.2	
9 4	J. J.	75 17.2	75 15.4	75 22.6	75 05.2	74 57.8	75 24.8	75 14.0	75 22.6	75 15.0	
11 20	J. L.	75 18.4	75 20.6	75 14.4	75 21.9	75 16.2	75 31.6	75 12.8	75 36.1	75 19.6	
12 4	J. L.	75 18.1	75 11.9	75 09.7	75 07.7	74 49.7	75 43.9	74 43.4	75 43.8	75 13.5	
15 20	W. H.	75 42.7	74 49.3	75 25.1	75 04.5	75 01.5	75 30.7	75 14.5	75 14.6	75 15.3	
16 4	W. H.	75 39.7	74 52.7	75 24.2	75 05.3	75 00.4	75 30.6	75 15.6	75 14.4	75 15.3	75 15.7
18 20	T. M.	75 14.7	75 20.4	75 20.2	75 09.0	75 58.8	75 19.7	75 15.7	75 19.4	75 14.7	
19 4	T. M.	75 18.0	75 09.2	75 24.4	75 01.8	74 59.2	75 27.8	75 15.0	75 20.0	75 14.4	
22 20	J. W.	74 57.6	75 28.3	75 22.4	75 09.2	75 00.8	75 31.8	75 21.8	75 17.8	75 16.2	
23 4	J. W.	75 20.0	75 16.2	75 27.8	75 00.2	74 57.4	75 23.6	75 20.6	75 19.6	75 15.6	
25 20	J. J.	75 19.0	75 16.4	75 15.5	75 11.2	74 55.1	75 37.2	75 16.5	75 18.4	75 16.2	
26 4	J. J.	75 17.4	75 17.9	75 24.0	75 06.6	74 57.4	75 34.4	75 14.6	75 19.2	75 16.4	
29 20	J. L.	75 12.1	75 14.3	75 17.5	75 10.2	75 20.1	75 22.9	75 16.2	75 20.7	75 16.9	
30 4	J. L.	75 20.9	75 22.9	75 17.8	75 16.9	75 14.6	75 32.6	75 17.3	75 22.3	75 20.6	







Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 1."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		<i>a</i>	<i>a'</i>	<i>a''</i>	<i>a'''</i>	<i>b</i>	<i>b'</i>	<i>b''</i>	<i>b'''</i>		
1847.											
D. H.											
2 20	J. J.	75 00·8	74 58·8	75 28·1	74 54·8	75 08·9	75 23·0	75 28·0	75 25·4	75 13·4	
3 4	J. J.	75 06·3	75 14·2	75 05·6	74 50·6	75 09·2	75 33·2	75 25·5	75 28·6	75 14·1	
6 20	J. L.	75 03·2	75 07·2	75 27·2	75 06·8	75 04·0	75 35·2	75 23·6	75 20·4	75 15·9	
7 4	J. L.	74 57·0	75 16·9	75 19·4	74 59·2	75 08·5	75 36·4	75 22·0	75 16·0	75 14·4	
9 20	W. H.	75 02·3	75 16·7	75 13·6	75 25·9	75 02·1	75 19·1	75 21·4	75 21·1	75 15·2	
10 4	W. H.	75 02·7	75 17·3	75 15·2	75 25·8	75 02·2	75 23·5	75 19·8	75 19·5	75 15·7	
13 20	T. M.	75 02·8	75 14·8	75 20·0	74 57·0	75 02·0	75 43·0	75 22·4	75 19·6	75 15·1	
14 4	T. M.	75 02·0	75 12·0	75 20·5	74 57·6	75 09·6	75 43·8	75 26·0	75 20·0	75 16·4	75 15·9
16 20	J. W.	75 02·1	75 11·2	75 29·2	74 51·0	74 58·2	75 44·8	75 25·0	75 21·6	75 15·4	
17 4	J. W.	75 03·7	75 12·5	75 30·8	74 50·4	74 56·1	74 46·3	75 23·7	75 23·4	75 15·8	
20 20	T. M.	75 09·9	75 11·3	75 40·9	74 54·0	75 01·8	75 45·9	75 30·6	75 16·8	75 18·9	
21 4	T. M.	75 09·3	75 11·9	75 43·4	74 55·0	75 13·6	75 24·2	75 29·0	75 10·8	75 17·1	
23 20	J. W.	75 09·2	75 13·8	75 38·6	74 50·8	75 01·2	75 45·1	75 25·5	75 19·4	75 17·9	
24 4	J. W.	75 08·6	75 11·0	75 33·3	74 48·8	74 56·3	75 48·4	75 23·0	75 21·5	75 16·3	
27 20	J. J.	75 06·5	75 12·6	75 31·3	75 00·4	74 57·0	75 50·4	75 20·4	75 20·6	75 17·4	
28 4	J. J.	75 05·8	75 11·6	75 30·7	74 52·2	74 56·1	75 50·2	75 20·0	75 19·8	75 15·8	
Apr. 30 20	J. L.	75 05·0	75 15·8	75 26·5	74 57·4	75 01·6	75 40·8	75 20·4	75 22·6	75 15·7	
1 4	J. L.	75 09·7	75 09·8	75 34·1	74 51·2	75 05·3	75 46·8	75 19·8	75 20·0	75 17·1	
4 20	W. H.	75 07·0	75 18·1	75 25·9	75 04·5	75 00·7	75 41·1	75 12·5	75 19·1	75 16·1	
5 4	W. H.	75 05·8	75 14·5	75 26·2	75 04·0	74 52·4	75 50·6	75 08·0	75 29·6	75 16·3	
7 20	T. M.	75 07·6	75 15·8	75 30·5	75 06·4	74 53·4	75 32·4	75 20·0	75 14·8	75 15·1	
8 4	T. M.	75 00·2	75 15·0	75 20·8	75 06·2	74 58·6	75 45·9	75 21·4	75 16·4	75 15·5	
11 20	J. W.	75 09·0	75 11·8	75 34·7	74 51·6	75 04·1	75 45·0	75 28·5	75 11·1	75 17·0	
12 4	J. W.	75 07·0	75 08·7	75 34·9	74 48·9	75 06·9	75 40·8	75 30·2	75 08·9	75 15·8	
14 20	J. J.	75 06·0	75 11·6	75 32·2	74 53·6	74 58·0	75 45·8	75 27·5	75 13·3	75 16·0	75 16·1
15 4	J. J.	75 07·2	75 10·8	75 36·8	74 49·8	74 58·2	75 45·2	75 27·4	75 14·8	75 16·3	75 16·1
18 20	J. L.	75 06·6	75 12·0	75 25·8	74 59·2	74 57·2	75 41·2	75 22·8	75 16·2	75 15·1	
19 4	J. L.	75 00·8	75 15·8	75 24·4	75 01·6	75 00·4	75 44·4	75 22·2	75 16·8	75 15·7	
21 20	W. H.	75 05·9	75 17·0	75 24·2	74 58·2	75 02·8	75 45·9	75 19·2	75 20·1	75 15·5	
22 4	W. H.	75 05·5	75 17·4	75 24·5	75 03·3	75 05·0	75 43·0	75 21·8	75 20·5	75 17·6	
25 20	T. M.	74 59·2	75 10·8	75 07·8	75 12·2	75 14·2	75 40·7	75 27·4	75 27·2	75 17·4	
26 4	T. M.	74 57·0	75 08·0	75 09·4	75 11·0	75 18·8	75 36·9	75 29·4	75 29·4	75 17·4	
28 20	J. W.	75 03·2	75 09·4	75 23·2	75 09·8	75 17·8	75 19·6	74 59·4	75 38·4	75 15·1	
29 4	J. W.	75 05·3	75 15·2	75 29·0	75 12·4	75 20·4	75 13·3	74 51·2	75 36·2	75 15·4	
June. 1 20	J. J.	75 25·4	74 37·8	75 31·6	75 04·0	75 14·2	75 20·2	74 58·6	75 38·9	75 13·9	
2 4	J. J.	75 22·0	75 14·6	74 47·8	75 32·0	75 46·7	74 20·7	75 31·6	75 09·2	75 13·1	
4 20	T. M.	75 43·9	74 28·4	75 14·6	75 07·8	75 23·4	75 15·0	74 53·8	75 36·6	75 12·9	
5 4	T. M.	74 58·4	75 28·2	75 15·4	75 12·6	75 16·2	75 08·4	75 00·2	75 35·2	75 14·3	
8 20	J. L.	75 37·2	74 37·8	75 29·4	75 09·8	75 23·6	75 12·4	74 53·2	75 28·8	75 14·0	
9 4	J. L.	75 33·0	74 37·8	75 06·4	75 10·4	75 07·2	75 05·6	74 52·4	75 30·8	75 08·0	
11 20	J. H. L.	75 26·7	74 50·8	75 15·5	75 15·1	75 06·7	75 15·8	74 50·6	75 22·6	75 10·5	
12 4	J. J.	75 37·3	74 44·4	75 08·3	75 18·9	75 21·4	75 08·3	74 57·5	75 26·7	75 12·8	
15 20	J. L.	75 31·2	74 41·2	75 10·6	75 17·0	75 19·2	75 16·8	74 49·2	75 34·4	75 12·4	75 13·1
16 4	J. L.	75 28·2	74 42·2	75 21·2	75 15·4	75 17·6	75 12·2	74 45·4	75 31·1	75 11·7	
18 20	W. H.	75 27·0	74 43·2	75 09·9	75 19·3	75 23·9	75 21·8	74 48·9	75 30·4	75 13·0	
19 4	W. H.	75 22·2	74 46·8	75 14·7	75 16·6	75 23·4	75 21·9	74 48·2	75 31·8	75 13·2	
22 20	J. J.	75 25·6	74 45·0	75 16·2	75 17·1	75 25·4	75 20·6	75 00·4	75 25·6	75 14·5	
23 4	J. J.	75 33·2	74 43·9	75 16·9	75 17·4	75 28·8	75 17·2	75 00·2	75 22·5	75 15·0	
25 20	T. M.	75 34·2	74 40·9	75 10·4	75 17·9	75 31·6	75 10·4	75 01·8	75 21·4	75 13·5	
26 4	T. M.	75 39·8	74 34·2	75 10·0	75 13·6	75 17·4	75 24·2	74 54·0	75 30·4	75 13·0	
29 20	J. W.	75 22·4	74 55·2	75 06·5	75 00·8	75 27·5	75 06·8	75 23·3	75 30·6	75 14·1	
30 4	J. W.	75 22·4	74 45·6	75 02·3	74 59·6	75 30·6	75 21·3	75 14·6	75 41·4	75 14·7	



Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1847.											
D. H.											
October.											
1 20	J. L.	75 36.4	75 09.0	75 01.6	75 36.4	75 34.2	74 56.0	75 05.8	75 26.8	75 18.2	
2 4	J. L.	75 29.2	75 04.0	74 57.2	75 38.2	75 38.2	74 56.6	75 09.8	75 23.0	75 17.0	
5 20	J. J.	75 40.0	75 00.0	75 00.0	75 28.3	75 43.0	74 54.3	75 00.6	75 29.4	75 17.0	
6 4	J. J.	75 36.8	75 00.0	75 04.0	75 32.6	75 38.4	74 59.2	75 01.8	75 26.2	75 17.4	
8 20	T. M.	75 32.2	75 05.3	75 04.8	75 24.0	75 40.8	74 51.6	75 01.8	75 30.6	75 16.4	
9 4	T. M.	75 35.6	75 03.4	75 10.0	75 18.0	75 40.2	74 49.2	75 06.8	75 28.6	75 16.4	
12 20	J. W.	75 36.3	75 05.9	75 14.7	75 33.4	75 39.0	74 54.2	75 09.4	75 15.1	75 18.5	
13 4	J. W.	75 45.1	74 57.0	75 11.6	75 20.6	75 45.0	74 50.4	75 12.9	75 17.8	75 17.5	
15 20	C. J.	75 36.8	75 05.7	75 15.1	75 32.5	75 36.4	74 54.2	75 10.4	75 15.7	75 18.3	75 17.6
16 4	C. J.	75 44.9	74 55.4	75 14.8	75 20.8	75 44.5	74 50.4	75 11.0	75 17.8	75 17.4	
19 20	J. L.	75 35.2	75 03.2	74 57.2	75 41.2	75 35.6	75 04.4	75 03.2	75 26.0	75 18.2	
20 4	J. L.	75 27.2	75 05.6	74 51.4	75 39.4	75 36.2	74 56.8	75 02.0	75 27.4	75 15.7	
23 4	J. J.	75 38.4	74 58.6	75 18.8	75 17.6	75 47.0	74 55.8	75 19.3	75 19.4	75 19.4	
26 20	J. J.	75 39.4	75 02.8	75 17.0	75 27.2	75 39.9	74 52.9	75 19.6	75 17.2	75 19.5	
27 4	T. M.	75 43.6	74 57.0	75 12.0	75 31.0	75 41.9	74 52.4	75 22.0	75 12.0	75 19.0	
29 20	T. M.	75 30.8	75 09.8	75 05.1	75 30.2	75 28.0	75 02.1	75 08.4	75 20.4	75 16.8	
30 4	J. W.	75 29.4	75 08.6	75 05.9	75 29.2	75 29.4	75 00.8	75 08.4	75 25.8	75 17.2	
November.											
2 20	C. J.	75 35.3	75 09.7	75 10.4	75 20.6	75 28.2	74 55.1	75 16.6	75 20.0	75 17.0	
3 4	C. J.	75 23.8	75 05.4	75 20.0	75 35.3	75 35.0	75 01.4	75 04.8	75 23.0	75 18.4	
5 20	J. L.	75 30.6	75 06.2	74 55.0	75 42.4	75 31.4	75 07.3	75 05.0	75 28.8	75 18.3	
6 4	J. L.	75 22.6	75 09.2	74 53.6	75 37.9	75 24.4	75 04.1	75 00.0	75 29.0	75 15.1	
9 20	J. J.	75 32.2	75 06.4	75 08.6	75 31.2	75 33.9	74 53.4	75 10.8	75 20.5	75 17.1	
10 4	J. J.	75 33.5	75 02.2	75 09.4	75 33.0	75 35.9	74 54.5	75 08.8	75 20.7	75 17.2	
12 20	T. M.	75 30.4	75 06.4	75 03.8	75 34.2	75 49.0	75 02.2	75 11.6	75 08.6	75 18.2	
13 4	T. M.	75 30.0	75 12.6	75 02.0	75 29.2	75 48.4	74 53.0	75 16.2	75 08.4	75 17.4	75 17.7
16 20	J. W.	75 29.2	75 09.6	75 04.6	75 32.8	75 35.3	75 00.0	75 03.9	75 29.8	75 18.1	
17 4	J. W.	75 28.0	75 03.1	75 11.9	75 29.8	75 34.3	74 58.4	75 03.1	75 28.2	75 17.1	
19 20	C. J.	75 39.6	75 15.6	75 20.8	75 29.9	75 30.6	74 57.0	75 20.7	75 19.7	75 21.8	
20 4	C. J.	75 27.6	75 15.0	75 24.4	75 23.4	75 30.0	74 58.0	75 19.0	75 17.4	75 19.2	
23 20	J. L.	75 23.2	75 15.8	74 59.1	75 42.6	75 29.0	75 01.8	75 05.0	75 34.2	75 18.8	
24 4	J. L.	75 21.4	75 12.0	74 53.2	75 41.6	75 32.0	75 03.3	75 01.8	75 31.0	75 17.0	
26 20	J. J.	75 25.5	75 12.0	75 01.7	75 29.4	75 24.0	75 04.2	75 09.4	75 30.8	75 17.1	
27 4	J. J.	75 31.5	75 00.0	75 06.0	75 21.7	75 30.4	75 09.7	75 00.0	75 30.8	75 16.3	
November.											
Nov. 30 20	T. M.	75 25.0	75 14.2	75 04.6	75 30.2	75 37.0	75 01.0	75 20.4	75 20.2	75 19.0	
1 4	T. M.	75 28.0	75 11.6	75 06.2	75 26.0	75 37.0	75 01.8	75 25.6	75 18.4	75 19.3	
3 20	J. W.	75 19.2	75 12.5	75 00.8	75 36.9	75 32.1	74 49.2	75 11.0	75 25.8	75 17.1	
4 4	J. W.	75 21.5	75 06.1	75 01.6	75 39.4	75 36.9	75 02.7	75 06.5	75 29.4	75 18.0	
7 20	C. J.	75 35.1	75 00.1	75 11.2	74 55.1	75 35.4	74 55.6	75 12.8	75 15.2	75 12.6	
8 4	C. J.	75 32.9	75 10.3	75 15.1	75 01.3	75 31.4	75 00.0	75 20.0	75 25.0	75 17.0	
10 20	J. L.	75 24.5	75 11.8	74 57.8	75 37.2	75 24.4	75 01.7	75 09.8	75 20.6	75 16.0	
11 4	J. L.	75 31.8	75 09.0	75 06.4	75 34.3	75 36.9	75 01.0	75 09.8	75 19.8	75 18.6	
14 20	J. J.	75 20.1	75 07.8	75 10.5	75 29.7	75 15.9	75 04.8	75 11.5	75 21.7	75 15.2	75 17.0
15 4	J. J.	75 30.1	75 04.0	75 07.6	75 25.3	75 28.6	75 00.0	75 02.0	75 24.8	75 15.2	
17 20	T. M.	75 26.8	75 02.6	75 10.0	75 18.8	75 17.2	75 00.4	75 15.2	75 27.2	75 14.8	
18 4	T. M.	75 33.2	75 11.6	75 03.0	75 14.0	75 26.8	74 59.2	75 09.6	75 21.6	75 14.9	
21 20	J. W.	75 22.3	75 04.4	75 13.3	75 24.5	75 28.8	74 58.8	75 11.4	75 25.6	75 16.1	
22 4	J. W.	75 26.1	75 04.6	75 08.6	75 29.2	75 33.9	75 01.7	75 17.6	75 21.4	75 17.8	
28 20	J. L.	75 25.6	75 12.8	75 12.0	75 32.5	75 32.6	75 04.6	75 13.0	75 21.4	75 19.3	
29 4	J. L.	75 29.4	75 10.8	75 03.4	75 39.2	75 36.4	75 05.8	75 12.6	75 21.2	75 19.8	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1848.											
D.											
January.											
16	T. M.	75 29.1	75 12.5	75 06.1	75 32.6	75 34.6	75 04.1	75 14.5	75 20.4	75 19.2	75 20.3
17	C. J.	75 28.4	75 10.7	75 03.4	75 35.0	75 35.3	75 06.2	75 21.2	75 25.0	75 20.7	
17	C. J.	75 29.1	75 09.1	75 12.0	75 34.9	75 35.4	75 09.9	75 07.1	75 19.8	75 19.7	
18	C. J.	75 30.1	74 59.8	75 19.6	75 29.6	75 35.2	75 00.5	75 16.8	75 30.1	75 20.3	
18	J. J.	75 22.8	75 07.2	75 16.9	75 33.5	75 35.2	75 24.8	75 07.0	75 12.0	75 19.9	
19	J. J.	75 33.8	75 00.1	75 03.5	75 52.8	75 14.4	75 50.6	74 58.8	75 10.4	75 20.5	
19	J. J.	75 15.4	75 22.1	75 16.6	75 26.2	75 13.0	75 19.8	75 14.8	75 39.8	75 20.9	
19	J. J.	75 26.6	75 20.4	74 55.1	75 47.0	75 28.3	75 12.3	75 13.0	75 26.8	75 21.2	
February.											
16	J. L.	75 33.1	75 17.8	75 22.4	75 29.0	75 44.1	74 51.3	75 20.1	75 25.1	75 22.8	75 18.7
16	J. L.	75 34.3	75 00.3	75 11.5	75 43.3	75 48.0	74 53.2	75 12.6	75 34.3	75 22.1	
17	J. W.	75 35.4	74 58.4	75 10.8	75 15.0	75 17.6	75 19.5	75 35.0	75 10.0	75 17.7	
17	J. W.	75 11.8	75 24.9	75 30.8	75 11.9	75 13.8	75 22.2	75 33.3	75 06.4	75 19.3	
17	T. M.	75 12.5	75 27.0	75 28.9	75 08.7	75 18.3	75 15.6	75 41.0	74 58.0	75 18.8	
17	T. M.	75 12.0	75 30.2	75 31.2	75 12.2	75 20.0	75 14.8	75 39.8	75 01.0	75 20.1	
18	J. J.	75 10.3	75 26.2	75 28.6	75 01.8	75 05.2	75 22.3	75 28.9	75 08.7	75 16.5	
18	J. J.	75 05.7	75 30.0	75 25.2	75 07.9	75 06.6	75 21.1	75 30.4	75 08.2	75 16.9	
18	C. J.	75 10.5	75 18.8	75 32.7	74 59.3	75 19.2	75 20.6	75 14.8	75 20.0	75 17.0	
19	C. J.	75 01.2	75 24.0	75 19.2	75 05.8	75 08.3	75 32.9	75 25.3	75 10.0	75 15.8	
March.											
13	J. W.	75 07.6	75 25.9	75 36.8	75 01.2	75 05.3	75 26.5	75 41.7	74 53.8	75 17.3	75 17.2
13	J. W.	75 00.0	75 26.1	75 39.2	74 57.7	75 09.0	75 28.5	75 37.8	74 58.8	75 17.1	
13	C. J.	75 11.1	75 17.1	75 36.0	75 09.4	75 19.6	75 27.1	75 11.0	74 56.8	75 16.0	
13	C. J.	75 13.5	75 19.8	75 35.0	74 55.4	75 13.0	75 29.5	75 34.4	74 58.1	75 17.4	
14	J. J.	74 50.4	75 43.5	75 45.1	74 59.0	75 09.0	75 27.2	75 39.0	74 51.3	75 18.0	
14	J. J.	74 52.7	75 41.3	75 35.2	74 59.2	75 00.0	75 38.6	75 38.8	74 51.0	75 17.1	
14	J. L.	75 01.0	75 38.2	75 28.0	75 03.8	75 08.8	75 27.0	75 47.6	74 49.5	75 18.0	
14	J. L.	74 52.2	75 30.1	75 36.9	74 54.9	75 11.4	75 29.0	75 48.2	74 45.4	75 16.0	
15	T. M.	74 56.1	75 41.0	75 29.8	75 00.0	75 08.0	75 25.2	75 54.2	74 45.3	75 17.4	
15	T. M.	74 58.4	75 39.7	75 30.0	74 57.4	75 09.2	75 27.2	75 50.2	74 46.4	75 17.3	
April.											
16	T. M.	75 01.0	75 36.3	75 43.0	75 00.0	75 05.1	75 25.1	75 43.8	75 45.3	75 17.4	75 18.0
16	T. M.	74 58.4	75 32.8	75 44.1	75 00.0	75 13.1	75 21.8	75 42.8	74 45.0	75 17.2	
17	J. W.	75 04.9	75 29.2	75 34.7	74 57.6	75 01.0	75 39.8	75 47.2	74 52.9	75 18.4	
17	J. W.	75 05.1	75 34.8	75 36.2	74 52.6	74 58.2	75 37.6	75 47.1	74 52.1	75 17.9	
17	C. J.	75 04.6	75 34.4	75 35.2	74 57.4	75 01.0	75 39.6	75 40.2	74 57.4	75 18.8	
17	C. J.	75 05.4	75 36.4	75 39.5	74 55.6	75 05.0	75 36.7	75 38.2	74 56.4	75 19.2	
18	J. L.	75 02.6	75 33.4	75 33.1	75 01.9	75 07.1	75 36.1	75 40.6	74 49.2	75 18.0	
18	J. L.	74 53.6	75 46.0	75 32.8	75 03.9	75 10.0	75 36.3	75 37.6	74 49.0	75 18.6	
18	J. J.	74 52.0	75 47.4	75 39.4	74 51.9	74 57.6	75 49.0	75 37.2	74 48.7	75 17.9	
18	J. J.	74 48.5	75 51.1	75 37.6	74 51.0	75 12.8	75 36.3	75 35.2	74 45.6	75 17.3	
19	T. M.	74 53.2	75 47.2	75 38.2	74 49.6	74 56.0	75 43.3	75 44.9	74 52.8	75 18.1	
19	T. M.	74 55.6	75 46.0	75 37.4	74 49.6	74 55.0	75 42.4	75 35.0	75 00.0	75 17.6	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1848.											
May.											
D.											
14	J. W.	74 58.8	75 37.5	75 40.3	74 50.0	75 06.2	75 29.6	75 47.2	74 55.3	75 18.2	
14	C. J.	75 00.0	75 40.0	75 40.5	74 50.0	74 55.1	75 29.9	75 45.0	75 08.5	75 18.6	
15	J. J.	74 49.7	75 39.6	75 37.7	75 01.0	74 56.5	75 37.5	75 36.0	74 50.4	75 16.0	
15	J. J.	74 48.8	75 39.8	75 38.7	74 59.2	74 50.9	75 36.8	75 40.3	74 54.8	75 16.1	
15	C. J.	74 50.0	75 44.1	75 32.6	74 58.2	74 59.4	75 35.3	75 45.1	74 54.9	75 17.5	
15	C. J.	75 05.4	75 44.1	75 34.9	74 50.0	74 55.1	75 30.1	75 40.0	75 00.2	75 17.5	
16	J. W.	74 49.6	75 45.5	75 34.3	75 59.8	74 54.2	75 40.6	75 34.8	74 52.3	75 16.4	75 17.2
16	J. W.	74 54.4	75 44.8	75 33.4	74 58.6	74 58.6	75 34.1	75 37.0	74 54.2	75 16.9	
16	T. M.	74 59.4	75 40.2	75 38.5	75 04.4	75 02.6	75 21.8	75 46.4	74 45.3	75 17.2	
16	T. M.	74 57.6	75 39.1	75 41.5	75 02.8	75 07.0	75 18.0	75 45.8	74 44.4	75 17.0	
17	J. L.	74 56.4	75 44.2	75 41.3	74 53.1	75 00.4	75 32.6	75 39.6	74 56.4	75 18.0	
17	J. L.	75 00.8	75 42.7	75 35.7	75 00.4	74 57.3	75 27.0	75 43.8	74 52.7	75 17.5	
June.											
14	C. J.	74 55.6	75 35.4	75 30.2	75 00.2	74 54.7	75 42.0	75 34.6	74 55.3	75 16.1	
14	C. J.	74 53.8	75 37.9	75 35.0	74 55.0	75 00.2	75 39.2	75 31.0	74 59.1	75 16.4	
15	T. M.	75 02.0	75 34.5	75 24.8	75 02.5	75 11.6	75 09.5	75 39.6	75 10.0	75 16.8	
15	T. M.	75 10.2	75 38.4	75 25.4	75 00.0	75 08.4	75 08.4	75 37.0	75 12.0	75 17.4	
15	J. J.	74 56.3	75 30.1	75 33.6	75 06.8	75 03.9	75 23.7	75 30.8	75 25.2	75 17.2	
15	J. J.	75 04.2	75 29.0	75 30.5	75 02.4	75 22.1	75 22.9	75 31.6	74 57.2	75 17.5	
16	J. J.	74 57.2	75 40.7	75 29.0	74 56.7	75 04.6	75 28.8	75 38.8	74 48.8	75 15.6	75 16.8
16	J. J.	74 49.2	75 40.6	75 29.8	74 59.4	75 11.8	75 27.8	75 38.2	74 49.0	75 15.7	
16	J. W.	74 57.2	75 39.0	75 37.1	74 49.6	75 07.1	75 27.9	75 42.1	74 49.6	75 16.2	
16	J. W.	74 57.3	75 40.0	75 38.8	74 52.0	75 04.5	75 38.5	75 39.0	74 50.4	75 17.5	
17	J. W.	74 57.9	75 36.9	75 47.7	74 50.1	75 01.4	75 26.8	75 40.8	74 50.2	75 16.4	
17	J. W.	75 01.6	75 23.2	75 48.0	74 49.2	75 08.4	75 41.8	75 50.6	74 48.5	75 18.9	
July.											
17	J. W.	75 04.1	75 41.4	75 55.6	74 38.4	75 03.6	75 30.6	75 50.1	74 34.7	75 17.3	
17	J. W.	74 56.8	75 54.2	75 48.8	74 39.0	75 01.7	75 30.2	75 49.8	74 31.8	75 16.5	
18	J. W.	74 56.5	75 44.3	75 54.2	74 40.6	74 57.2	75 30.2	75 54.2	74 37.8	75 16.8	
18	J. W.	74 57.0	75 40.7	75 52.0	74 41.6	74 58.2	75 30.8	75 51.4	74 40.0	75 16.4	
18	J. J.	74 50.9	75 23.3	75 51.0	74 47.0	74 56.6	75 33.9	75 48.6	74 30.7	75 12.7	
18	T. M.	74 55.7	75 34.6	76 05.0	74 34.4	75 36.7	74 58.8	75 54.7	74 28.6	75 16.0	
19	T. M.	74 53.2	75 30.4	75 58.6	74 39.0	74 56.4	75 38.0	76 00.0	74 29.2	75 15.6	75 16.4
19	T. M.	74 57.1	75 24.0	76 01.0	74 40.7	75 02.7	75 28.4	75 57.6	74 44.0	75 16.9	
19	J. J.	75 12.6	75 39.8	75 54.0	74 33.9	74 50.0	75 34.1	75 40.0	74 38.0	75 15.3	
19	J. J.	75 03.2	75 36.5	75 48.8	74 34.8	74 56.6	75 38.2	75 47.4	74 34.5	75 15.0	
20	C. J.	75 13.3	75 40.1	75 58.8	74 39.4	75 00.4	75 37.4	75 39.5	74 46.4	75 19.4	
20	C. J.	75 11.4	75 36.5	75 31.0	74 54.6	75 05.8	75 20.6	75 40.4	75 09.7	75 18.8	
August.											
14	J. W.	74 54.7	75 37.4	76 00.0	74 29.2	75 10.1	75 29.1	76 02.0	74 28.2	75 16.3	
14	J. W.	75 06.7	75 36.4	76 01.9	74 32.0	75 13.2	75 30.4	76 03.6	74 27.5	75 18.9	
15	T. M.	74 53.5	75 40.8	75 54.0	74 34.0	75 12.2	75 30.0	76 00.0	74 33.4	75 17.2	
15	T. M.	75 02.0	75 36.8	75 52.6	74 35.0	75 24.2	75 30.6	75 57.8	74 37.6	75 19.6	
15	T. M.	75 12.5	75 46.0	76 02.0	74 28.4	75 14.4	75 30.8	76 01.0	74 29.2	75 20.5	
15	T. M.	75 07.6	75 49.2	75 59.6	74 35.2	75 10.0	75 32.4	76 01.0	74 28.0	75 20.3	
16	J. W.	74 50.3	75 59.8	75 51.0	74 39.6	74 52.2	75 32.7	76 02.7	74 35.6	75 18.0	
16	J. W.	74 51.3	75 56.5	75 49.6	74 42.0	74 56.1	75 30.9	76 06.1	74 28.1	75 17.5	75 19.0
16	C. J.	75 08.0	75 57.2	75 25.9	74 44.6	74 45.0	75 16.5	76 07.0	75 02.4	75 18.3	
16	C. J.	74 46.5	75 56.3	75 51.1	74 40.8	75 15.7	75 44.2	75 53.8	74 36.6	75 20.7	
17	C. J.	74 50.0	75 42.7	75 58.0	74 55.5	74 58.5	75 31.3	75 41.1	74 56.9	75 19.3	
17	C. J.	75 05.8	75 57.7	75 35.1	74 54.5	74 51.9	75 36.0	75 45.0	74 58.7	75 20.6	
17	J. J.	75 02.2	75 47.1	75 54.2	74 44.5	74 48.6	75 46.7	76 07.0	74 37.5	75 20.9	
17	J. J.	75 07.2	76 05.6	75 45.3	74 40.2	74 50.2	75 29.4	76 10.6	74 39.2	75 21.0	
18	J. J.	74 54.1	75 41.3	75 42.7	74 40.1	74 45.7	75 45.9	76 04.5	74 38.1	75 16.5	
18	J. J.	75 02.6	75 49.7	75 33.5	74 44.8	74 54.2	75 50.0	76 05.2	74 33.6	75 19.2	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1848.											
September.											
14	J. J.	74 56.9	75 59.8	75 54.3	74 35.0	74 50.3	75 10.9	76 02.7	75 06.0	75 19.5	
14	J. J.	75 23.8	75 30.1	75 42.6	74 58.2	75 16.2	75 07.3	75 17.9	75 01.0	75 17.2	
15	C. J.	75 05.0	75 26.7	75 26.2	75 10.7	75 42.1	75 29.9	75 35.5	74 38.4	75 19.3	
15	C. J.	75 17.8	75 25.3	75 25.1	75 12.6	75 39.8	75 30.0	75 45.3	74 29.4	75 20.6	
15	J. J.	75 19.8	75 25.5	75 32.9	75 02.0	75 04.0	75 14.8	75 22.3	74 46.0	75 13.4	
15	J. J.	75 28.8	75 22.1	75 32.4	74 47.5	75 21.3	75 09.4	75 22.5	74 40.5	75 13.1	
16	J. W.	75 14.0	75 23.1	75 42.8	74 53.5	75 21.0	75 24.0	75 49.3	74 35.0	75 17.8	75 17.3
16	J. W.	75 14.1	75 33.9	75 46.8	75 04.3	75 28.8	75 10.2	75 43.8	74 35.4	75 19.6	
18	J. J.	75 08.7	75 36.8	75 39.2	75 00.2	75 10.3	75 30.9	75 52.0	74 23.0	75 17.6	
18	J. J.	75 13.2	75 31.3	75 42.2	74 49.8	75 11.3	75 52.0	75 32.1	74 27.0	75 17.3	
19	C. J.	75 10.2	75 21.0	75 42.4	74 39.6	75 10.2	75 36.4	75 52.7	74 27.2	75 14.9	
19	C. J.	75 12.3	75 22.1	75 35.6	74 41.0	75 29.2	75 30.6	75 39.4	74 52.2	75 17.8	
October.											
16	J. J.	75 07.0	75 49.7	75 34.5	74 46.2	75 24.8	75 30.5	75 41.5	74 26.2	75 17.5	
16	J. J.	74 50.0	75 44.2	75 48.4	74 48.4	75 17.9	75 41.2	75 54.4	74 25.2	75 18.7	
17	C. J.	74 49.2	75 42.0	75 49.8	74 48.6	75 04.6	75 41.9	75 42.7	74 59.8	75 19.9	
17	C. J.	75 02.2	75 54.8	75 35.0	74 34.9	75 14.7	75 46.0	75 42.9	74 43.9	75 19.3	
18	J. W.	74 47.8	75 54.9	75 50.6	74 44.5	75 10.9	75 27.2	75 59.2	74 36.3	75 18.9	
18	J. W.	74 51.6	76 01.7	75 42.1	74 48.6	75 11.8	75 43.0	76 01.6	74 39.1	75 22.4	
18	J. W.	74 53.6	76 01.7	75 53.0	74 42.0	75 07.8	75 28.2	76 03.8	74 40.4	75 21.2	75 19.0
18	J. W.	74 52.4	76 04.4	75 52.4	74 42.8	75 06.7	75 29.4	76 03.2	74 37.8	75 21.4	
19	T. M.	75 05.6	75 42.2	75 50.0	74 54.5	75 19.5	75 40.9	75 32.4	74 46.1	75 21.4	
19	T. M.	75 00.4	75 36.5	75 31.5	74 55.9	75 10.4	75 32.7	75 35.8	75 01.6	75 18.1	
19	C. J.	74 45.0	75 30.0	75 39.9	74 57.0	74 52.1	75 30.8	75 48.7	74 54.1	75 14.7	
19	C. J.	74 48.3	75 34.7	75 39.0	74 58.1	74 50.8	75 32.7	75 47.6	74 48.1	75 14.9	
20	J. J.	74 39.9	75 43.0	75 27.4	75 15.3	75 30.5	75 43.7	75 37.5	74 35.0	75 19.0	
20	J. J.	74 55.0	75 45.7	75 20.6	75 02.0	75 07.6	75 40.4	75 52.5	74 45.7	75 18.7	
November.											
20	C. J.	74 43.1	75 50.7	75 40.0	74 51.9	75 21.1	75 40.0	76 02.8	74 34.3	75 20.5	
20	C. J.	74 42.5	75 40.1	75 40.4	74 59.1	75 14.8	75 40.4	76 07.4	74 34.9	75 20.2	
21	T. M.	74 40.5	76 10.0	75 39.6	74 50.7	75 05.5	75 37.7	76 06.1	74 35.0	75 20.6	
21	T. M.	74 38.0	76 07.6	75 40.0	74 45.0	75 02.8	75 37.0	76 08.4	74 37.8	75 19.5	
21	J. J.	75 04.0	75 43.3	75 33.5	74 48.7	75 06.6	75 44.6	75 50.6	74 35.3	75 18.3	
21	J. J.	74 45.4	75 58.0	75 38.6	74 47.4	74 51.0	75 50.2	75 50.5	74 33.7	75 16.9	
22	C. J.	74 47.4	75 45.1	75 41.3	74 53.6	75 16.2	75 40.7	75 53.1	74 36.1	75 19.2	75 19.4
22	C. J.	75 03.2	75 32.6	75 43.7	75 00.0	75 13.1	75 41.9	75 52.5	74 36.3	75 20.5	
22	J. W.	75 14.3	75 31.7	75 50.1	75 01.8	74 56.4	75 41.2	75 44.1	74 36.7	75 19.5	
22	J. W.	75 16.3	75 46.9	75 51.2	74 36.4	75 15.7	75 31.8	75 41.2	74 53.5	75 21.6	
23	J. J.	75 05.2	75 09.8	75 56.9	74 45.3	75 09.7	75 44.7	75 49.7	74 36.6	75 17.2	
23	J. J.	75 08.8	75 34.1	75 45.1	74 43.5	75 59.6	75 52.1	75 44.9	74 39.8	75 18.5	
December.											
18	C. J.	75 02.2	75 26.0	75 47.4	75 04.2	75 23.0	75 32.8	75 52.5	74 56.9	75 23.5	
18	C. J.	75 24.3	75 37.9	75 29.9	74 44.8	75 28.8	75 29.0	75 37.9	74 52.5	75 20.6	
19	T. M.	75 02.4	75 55.5	75 48.0	74 44.8	75 11.6	75 43.2	76 08.0	75 00.4	75 26.8	
19	T. M.	75 56.0	76 03.2	75 45.0	74 46.8	74 51.2	75 41.2	76 04.4	75 09.6	75 24.7	
19	J. J.	75 18.3	75 16.8	75 27.6	74 53.6	75 18.0	75 28.8	75 20.6	74 56.8	75 15.1	
19	J. J.	75 08.4	75 30.0	75 19.9	75 03.1	75 15.5	75 27.4	75 42.7	74 49.5	75 17.1	75 20.6
20	J. W.	75 27.5	75 41.1	75 33.6	75 09.8	75 13.6	75 19.9	75 37.8	75 05.9	75 23.6	
20	J. W.	75 15.1	75 08.8	75 28.7	75 04.1	75 18.1	75 30.8	75 32.0	75 11.2	75 18.6	
20	C. J.	75 34.7	75 16.0	75 10.6	75 31.8	75 39.4	75 15.2	75 25.4	75 08.5	75 22.7	
20	C. J.	75 20.0	75 25.9	75 08.5	75 30.0	75 47.6	75 16.3	75 33.1	74 50.5	75 21.5	
21	C. J.	75 08.4	75 15.0	75 21.5	75 22.4	75 27.2	75 13.4	75 18.6	74 58.0	75 15.5	
21	C. J.	75 11.8	75 22.0	75 15.3	75 19.5	75 31.3	75 15.1	75 27.5	74 54.7	75 17.1	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1849.												
D.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	
14	T. M.	75 33·0	75 22·6	75 45·4	75 04·4	75 28·6	75 42·2	75 38·6	74 26·4	75 22·6	} 75 19·5	
14	T. M.	74 55·2	75 29·2	75 44·8	75 11·8	75 35·2	75 36·4	75 42·4	74 28·0	75 20·4		
15	J. W.	74 52·3	75 47·2	75 48·1	75 44·3	75 30·1	75 21·0	75 56·3	74 32·4	75 18·9		
15	J. W.	74 54·6	75 29·3	75 48·7	74 42·1	75 26·6	75 20·4	75 59·7	74 36·6	75 17·2		
15	C. J.	75 08·3	75 35·2	75 44·9	74 55·4	75 21·8	75 10·2	75 43·5	75 02·1	75 20·2		
15	C. J.	75 02·8	75 42·1	75 35·0	74 59·4	75 22·0	75 40·2	75 35·9	74 48·1	75 20·7		
16	T. M.	75 00·0	75 52·4	75 37·6	75 13·6	75 38·1	75 16·0	75 20·8	74 59·2	75 22·2		
16	T. M.	75 04·8	75 37·4	75 33·6	75 14·0	75 30·0	75 19·4	75 18·2	75 00·0	75 19·7		
16	J. J.	75 15·5	75 26·0	75 21·4	75 00·0	75 27·6	75 07·3	75 29·7	75 05·3	75 16·6		
16	J. J.	75 20·8	75 13·2	75 24·9	75 09·6	75 21·2	75 15·0	75 24·9	75 05·9	75 17·0		
17	C. J.	75 06·7	75 36·9	75 30·2	75 06·7	75 09·2	75 06·6	75 34·2	75 14·3	75 18·1		
17	C. J.	75 11·9	75 37·2	75 33·4	74 57·6	75 15·5	75 28·9	75 32·7	75 02·3	75 20·0		
16	C. J.	74 55·4	75 47·6	75 35·8	74 50·5	75 11·3	75 33·3	75 27·5	75 04·3	75 18·7		} 75 18·1
16	C. J.	74 55·6	75 42·6	75 27·6	75 01·1	75 14·9	75 28·2	75 22·7	75 05·4	75 17·3		
17	T. M.	75 13·0	75 31·8	75 39·2	74 49·4	75 13·8	75 18·0	75 31·8	75 09·2	75 18·2		
17	T. M.	75 02·8	75 27·2	75 45·8	74 53·6	75 24·2	75 27·2	75 32·0	74 59·8	75 19·0		
18	J. W.	75 09·4	75 32·9	75 34·8	75 09·8	75 11·2	75 25·2	75 48·2	74 42·9	75 19·3		
18	J. W.	75 09·8	75 36·1	75 46·2	74 59·4	75 13·1	75 13·4	75 42·0	75 04·6	75 20·6		
19	J. J.	75 04·2	75 14·8	75 09·6	75 16·1	75 29·3	75 16·1	75 25·2	74 58·6	75 14·2		
19	J. J.	75 22·9	75 10·5	75 29·6	75 05·0	75 20·8	75 23·0	75 07·0	75 10·8	75 16·2		
19	T. M.	75 08·4	75 31·4	75 22·2	75 10·8	75 31·4	75 11·4	75 29·2	75 00·2	75 18·1		
19	T. M.	75 13·2	75 19·4	75 23·0	75 10·0	75 29·2	75 10·0	75 28·6	75 06·2	75 17·4		
20	J. W.	75 11·2	75 12·3	75 32·2	74 58·8	75 19·0	75 18·5	75 52·8	75 15·7	75 20·0		
20	J. W.	75 07·0	75 07·5	75 47·6	74 56·9	75 16·4	75 06·5	75 55·4	75 12·2	75 18·6		
18	J. W.	75 07·8	75 08·2	75 23·3	75 04·3	75 23·9	75 09·4	75 22·2	75 16·2	75 14·4	} 75 16·7	
18	J. W.	75 20·9	75 25·9	75 22·2	74 57·9	75 28·0	75 13·1	75 26·8	75 09·0	75 17·9		
19	J. J.	75 24·2	75 12·6	75 07·8	75 28·2	75 34·4	75 07·4	75 14·0	75 08·4	75 17·1		
19	J. J.	75 20·0	75 24·0	75 07·1	75 17·3	75 28·8	75 07·0	75 16·6	75 08·5	75 16·2		
19	T. M.	75 04·6	75 11·8	75 17·4	75 07·0	75 21·0	75 24·0	75 17·2	75 21·6	75 15·5		
19	T. M.	75 24·0	75 10·0	75 12·0	75 01·6	75 24·8	75 18·0	75 21·0	75 13·0	75 15·5		
20	J. W.	75 19·0	75 11·3	75 23·1	74 57·7	75 25·8	75 29·2	75 20·9	75 07·5	75 16·8		
20	J. W.	75 11·8	75 11·3	75 32·5	74 56·8	75 21·6	75 33·7	75 19·3	75 10·1	75 17·2		
20	C. J.	75 15·8	75 11·2	75 25·0	75 04·4	75 26·8	75 27·5	75 33·7	75 00·0	75 18·1		
20	C. J.	75 14·9	75 25·5	75 25·2	75 00·2	75 22·2	75 20·7	75 32·6	75 07·0	75 18·5		
21	T. M.	74 51·4	75 18·0	75 23·0	75 08·0	75 29·0	75 21·6	75 18·2	75 21·0	75 16·2		
21	T. M.	75 22·2	75 10·6	75 19·6	75 00·0	75 23·0	75 22·0	75 27·2	75 12·8	75 17·1		
18	C. J.	75 01·5	75 29·5	75 20·4	75 15·7	75 25·0	75 23·7	75 22·5	75 03·0	75 17·7	} 75 18·4	
18	C. J.	75 01·9	75 28·1	75 22·7	75 15·0	75 24·8	75 23·3	75 26·1	75 03·4	75 18·2		
19	J. J.	75 09·0	75 14·1	75 13·3	75 17·8	75 30·3	75 02·2	75 38·2	75 24·6	75 18·7		
19	J. J.	75 16·1	75 15·9	75 15·6	75 16·5	75 29·2	74 59·0	75 28·2	75 24·7	75 18·1		
19	J. W.	75 22·8	75 26·1	75 12·3	75 27·1	75 31·6	75 29·8	75 11·3	74 53·7	75 19·3		
19	J. W.	75 12·6	75 17·6	75 12·4	75 26·7	75 31·0	75 34·8	75 20·2	74 55·8	75 18·8		
20	J. J.	75 10·0	75 24·2	75 00·2	75 22·5	75 33·3	75 00·4	75 14·4	75 18·3	75 15·4		
20	J. J.	75 23·5	75 18·9	74 57·4	75 18·2	75 41·6	75 00·0	75 17·2	75 16·7	75 16·7		
20	T. M.	75 21·9	75 11·2	74 55·7	75 29·2	75 43·7	75 11·0	75 21·4	75 20·4	75 19·3		
20	T. M.	75 25·1	75 26·6	74 51·2	75 22·8	75 43·4	75 17·0	75 16·4	75 20·8	75 20·4		
21	J. W.	75 12·9	75 34·1	75 17·1	75 26·0	75 24·1	75 05·1	75 12·9	75 20·9	75 19·1		
21	J. W.	75 20·7	75 30·0	75 14·0	75 26·0	75 28·9	75 02·5	75 10·5	75 18·9	75 18·9		



Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1849.												
D.												
15	J. W.	75 23.6	75 28.3	75 10.0	75 00.6	75 14.4	75 12.3	75 23.7	75 32.2	75 18.1	75 18.4	
15	J. W.	75 16.5	75 27.3	75 13.2	75 03.9	75 29.9	75 16.7	75 14.2	75 16.6	75 17.2		
16	J. J.	75 16.4	75 17.8	75 10.7	75 21.8	75 32.3	75 02.7	75 21.1	75 12.3	75 16.9		
16	J. J.	75 16.9	75 16.6	75 11.9	75 23.0	75 32.7	75 10.5	75 19.5	75 15.9	75 17.2		
16	T. M.	75 10.0	75 22.2	75 13.0	75 23.0	75 25.4	75 09.4	75 22.6	75 13.6	75 17.4		
16	T. M.	74 51.6	75 27.8	75 18.8	75 22.0	75 43.2	75 00.2	75 18.0	75 09.8	75 16.4		
17	J. W.	75 15.3	75 15.0	75 29.6	75 27.7	75 43.8	75 08.8	75 27.2	74 59.8	75 20.9		
17	J. W.	75 09.6	75 17.8	75 32.2	75 22.4	75 37.5	75 05.8	75 30.9	75 06.1	75 20.3		
17	C. J.	75 11.7	75 22.0	75 25.3	75 10.7	75 36.2	75 22.6	75 32.0	75 05.7	75 20.8		
17	C. J.	75 11.5	75 22.8	75 24.8	75 16.1	75 14.0	75 31.9	75 27.9	75 14.4	75 20.5		
18	T. M.	75 05.8	75 20.6	75 28.0	75 11.6	75 20.8	75 11.0	75 22.7	75 17.8	75 17.2		
18	T. M.	75 11.2	75 27.0	75 21.8	75 11.8	75 31.0	75 10.6	75 21.6	75 10.6	75 18.1		
17	J. J.	75 11.1	75 29.2	75 08.4	75 14.1	75 18.7	75 14.4	75 23.2	75 11.1	75 16.2		75 18.5
17	J. J.	75 11.6	75 23.4	75 14.0	75 13.7	75 16.0	75 13.8	75 27.2	75 13.2	75 16.6		
18	J. W.	75 25.4	75 24.4	75 26.5	75 07.0	75 30.6	75 18.3	75 30.8	75 02.5	75 20.6		
18	J. W.	75 06.0	75 41.8	75 22.9	75 14.0	75 26.1	75 14.4	75 34.6	75 05.3	75 20.6		
18	C. J.	75 04.5	75 35.4	75 34.8	75 10.4	75 25.2	75 24.2	75 25.4	75 13.4	75 21.7		
18	C. J.	75 06.3	75 36.0	75 35.7	75 05.0	75 19.1	75 28.3	75 38.5	75 04.3	75 21.7		
19	J. J.	75 09.4	75 29.4	75 32.2	75 02.2	75 27.0	75 10.2	75 48.2	74 47.7	75 18.3		
19	J. J.	75 19.4	75 28.7	75 02.8	75 16.9	75 19.8	75 22.0	75 29.0	74 52.3	75 16.4		
19	J. J.	75 21.7	75 23.2	75 25.5	74 57.0	75 26.9	75 27.7	75 12.9	75 14.5	75 18.6		
19	J. J.	75 14.1	75 30.9	75 24.2	74 51.6	75 26.3	75 31.8	75 16.8	75 08.0	75 17.9		
20	J. J.	75 18.0	75 34.5	75 22.5	74 59.0	75 27.4	75 20.1	75 23.4	74 49.4	75 16.3		
20	J. J.	75 14.6	75 31.9	75 25.4	74 57.8	75 22.0	75 10.7	75 38.0	74 53.1	75 16.7		
16	J. J.	75 10.3	75 37.9	75 22.2	75 04.1	75 20.3	75 29.7	75 16.7	75 00.9	75 17.7	75 18.0	
16	J. J.	75 04.9	75 28.9	75 26.7	74 59.0	75 28.1	75 23.3	75 31.8	75 01.0	75 17.9		
17	C. J.	75 05.3	75 44.4	75 21.6	75 00.1	75 24.8	75 32.0	75 26.2	74 42.0	75 17.1		
17	C. J.	75 02.1	75 42.5	75 29.4	74 59.8	75 25.2	75 32.6	75 31.0	74 43.8	75 18.3		
17	J. W.	74 51.5	75 32.1	75 41.1	74 52.7	75 27.7	75 21.0	75 24.7	74 51.6	75 15.3		
17	J. W.	75 18.5	75 07.5	75 35.8	74 48.6	75 12.6	75 42.4	75 25.1	74 58.3	75 16.1		
18	J. W.	75 23.2	75 00.0	74 57.6	75 26.9	75 22.9	75 44.8	75 50.9	74 55.3	75 20.2		
18	J. W.	75 20.0	74 56.4	75 14.8	75 06.4	75 22.2	75 42.2	75 53.0	74 57.7	75 19.1		
18	J. J.	75 15.7	75 02.9	75 35.9	74 55.4	75 22.8	75 51.9	75 18.2	74 55.6	75 17.3		
18	J. J.	75 09.8	74 59.3	75 33.3	74 51.3	75 19.6	75 46.2	75 31.1	75 17.8	75 18.5		
19	T. M.	75 32.9	75 10.0	75 03.8	75 14.2	75 28.7	76 00.8	75 11.4	74 52.6	75 18.0		
19	T. M.	75 30.4	75 14.8	75 05.4	75 13.2	75 34.6	76 01.8	75 14.2	74 50.6	75 20.6		
15	T. M.	75 47.1	74 53.4	75 02.0	75 13.2	75 34.4	75 51.4	75 12.2	75 00.0	75 19.2	75 19.3	
15	T. M.	75 35.6	75 02.0	74 57.2	75 13.0	75 31.8	75 52.8	75 14.8	74 55.7	75 17.8		
16	C. J.	75 42.2	74 48.2	75 11.6	75 10.0	75 37.2	75 43.4	75 02.0	75 09.0	75 17.9		
16	C. J.	75 24.2	75 13.2	75 06.8	75 08.2	75 39.8	75 44.6	75 20.8	74 56.0	75 19.2		
16	C. J.	75 09.5	75 46.8	75 21.8	75 09.8	75 10.4	75 20.9	75 23.2	75 02.6	75 18.2		
17	C. J.	75 01.0	75 50.6	75 33.4	74 59.3	75 19.7	75 24.3	75 35.7	75 00.6	75 20.6		
17	C. J.	75 00.4	75 47.2	75 33.9	75 00.3	75 16.7	75 29.9	75 36.4	75 00.5	75 20.6		
17	J. W.	75 24.5	74 59.6	75 21.9	75 01.3	75 12.4	75 27.9	75 38.9	75 30.5	75 19.6		
17	J. W.	75 23.0	75 15.5	75 39.6	74 56.7	75 11.3	75 30.5	75 28.2	75 22.4	75 20.9		
18	J. W.	75 22.6	75 00.8	75 43.7	74 51.9	75 01.5	75 32.6	75 37.0	75 25.0	75 19.4		
18	J. W.	75 31.1	75 02.4	75 45.4	74 51.3	75 09.3	75 28.3	75 30.0	75 12.2	75 18.7		

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		<i>a</i>	<i>a'</i>	<i>a''</i>	<i>a'''</i>	<i>b</i>	<i>b'</i>	<i>b''</i>	<i>b'''</i>			
1849.												
D.		°	'	°	'	°	'	°	'	°	'	
18	C. J.	75 25.7	75 37.1	75 43.2	75 05.0	75 11.6	75 51.2	75 20.0	75 01.4	75 24.5		
18	C. J.	75 34.1	75 3 .5	75 45.2	75 01.0	75 05.2	75 43.1	75 15.9	75 13.1	75 24.1		
19	C. J.	75 29.9	75 34.2	75 42.7	75 01.0	75 11.6	75 43.4	75 09.2	75 00.9	75 21.6		
19	C. J.	75 31.0	75 32.9	75 40.6	75 00.4	75 10.7	75 43.4	75 09.5	75 10.9	75 22.4		
19	J. W.	75 19.5	75 16.2	75 30.9	74 44.2	75 20.8	75 46.2	75 36.0	75 16.1	75 21.2		
19	J. W.	75 27.3	74 54.2	75 38.6	74 54.0	75 10.7	75 44.8	75 42.1	75 12.7	75 20.5	} 75 21.6	
20	J. W.	75 34.9	74 48.8	75 43.9	74 51.5	75 12.7	75 41.2	75 38.4	75 12.9	75 20.5		
20	J. W.	75 25.4	74 51.8	75 44.0	74 50.0	75 14.8	75 41.3	75 27.5	75 20.2	75 19.3		
20	T. M.	75 36.8	74 55.8	75 40.2	74 58.4	75 07.7	75 41.2	75 21.0	75 19.6	75 20.1		
20	T. M.	75 23.2	75 00.0	75 44.0	75 05.8	75 11.6	75 36.6	75 39.0	75 19.2	75 22.4		
21	T. M.	75 07.0	75 00.0	75 52.3	75 10.0	75 12.0	75 30.6	75 40.0	75 20.7	75 21.5		
21	T. M.	75 09.0	74 54.0	75 50.0	75 10.0	75 06.8	75 47.4	75 37.0	75 13.0	75 20.8		
15	C. J.	75 25.5	74 55.1	75 51.6	74 56.8	75 14.1	75 49.4	75 25.5	74 54.3	75 19.0		
15	C. J.	75 25.3	74 55.6	75 55.1	74 55.5	75 11.3	75 55.9	75 29.6	74 52.3	75 22.6		
16	C. J.	75 35.1	74 50.1	75 50.0	74 45.2	75 20.3	75 34.5	75 29.5	75 14.0	75 19.9		
16	C. J.	75 35.2	74 44.0	75 50.1	74 50.9	75 19.8	75 30.5	75 25.6	75 14.9	75 18.9		
16	T. M.	75 34.2	74 42.6	75 30.0	74 47.2	75 11.6	75 44.4	75 49.8	75 18.4	75 19.8		
16	T. M.	75 32.6	74 41.6	75 32.0	74 48.0	75 10.8	75 40.4	75 52.6	75 30.2	75 21.0	} 75 20.6	
17	J. W.	75 41.8	74 48.9	75 38.2	74 56.1	75 08.0	75 31.9	75 43.3	75 28.8	75 22.1		
17	J. W.	75 32.7	74 40.1	75 39.2	74 49.8	75 10.8	75 26.2	75 44.7	75 29.0	75 19.0		
17	J. W.	75 30.9	74 59.7	75 32.4	74 51.4	75 29.8	75 41.5	74 51.3	75 56.2	73 21.6		
17	J. W.	75 39.6	74 55.7	75 29.9	74 54.5	75 28.6	75 33.9	74 56.1	75 56.6	75 21.8		
18	T. M.	75 24.0	74 57.0	75 32.6	74 49.6	76 01.6	75 37.8	74 49.4	75 35.4	75 20.9		
18	T. M.	75 26.7	75 03.8	75 33.2	74 49.4	75 34.4	75 34.2	75 00.0	75 38.8	75 20.0		
15	J. W.	75 46.0	74 45.9	75 29.8	74 48.4	75 14.4	75 39.4	74 51.0	75 44.0	75 17.4		
15	J. W.	75 39.5	74 49.6	75 40.1	74 43.6	75 16.5	75 55.4	75 46.0	75 22.5	75 24.1		
16	J. W.	75 44.0	74 56.2	75 40.6	74 46.5	74 50.2	75 58.8	74 50.8	76 00.4	75 20.9		
16	J. W.	75 38.5	74 55.7	75 38.4	74 46.7	74 51.4	75 58.5	74 57.5	76 01.8	75 21.0		
16	C. J.	75 34.6	74 37.1	75 45.0	74 55.7	75 38.6	75 22.5	74 56.3	75 57.5	75 20.9		
16	C. J.	75 39.3	74 35.2	75 44.6	74 53.8	75 26.5	75 44.8	74 58.6	75 45.3	75 21.0	} 75 20.1	
17	T. M.	75 38.0	74 45.3	75 39.6	74 43.6	75 13.0	75 44.8	74 51.0	75 47.0	75 17.7		
17	T. M.	75 32.2	74 44.2	75 45.8	74 49.8	75 14.6	75 33.8	74 56.5	75 42.7	75 17.4		
18	T. M.	75 44.6	74 38.4	75 48.6	74 41.2	75 18.4	75 48.4	75 58.4	75 44.8	75 20.3		
18	T. M.	75 40.7	74 48.8	75 51.7	74 47.7	75 22.3	75 45.5	75 02.5	75 40.3	75 22.7		
18	T. M.	75 42.8	74 51.6	75 35.8	74 40.0	75 25.8	75 34.0	74 51.2	75 40.6	75 17.7		
19	J. W.	75 42.8	74 51.6	75 35.8	74 40.0	75 25.8	75 34.0	74 51.2	75 40.6	75 17.7		
19	J. W.	75 37.0	74 47.4	75 52.5	74 41.0	75 31.0	75 31.2	74 50.0	75 42.4	75 19.0		
17	T. M.	75 44.2	74 45.9	75 43.4	74 44.4	75 22.9	75 22.3	74 41.4	75 55.6	75 20.0		
17	T. M.	75 48.0	74 41.7	75 41.4	74 52.6	75 31.2	75 38.8	74 41.2	75 48.8	75 20.4		
18	J. W.	75 58.1	74 11.0	75 47.1	74 34.9	75 06.6	76 05.1	74 38.4	76 02.0	75 17.9		
18	J. W.	76 02.6	74 16.9	75 54.0	74 49.4	75 07.2	75 51.5	74 29.1	76 00.0	75 18.8		
18	C. J.	75 33.0	74 32.0	75 37.0	75 00.6	75 05.6	76 01.8	74 21.2	76 00.4	74 16.5		
18	C. J.	75 32.4	74 30.9	75 39.4	75 00.5	75 19.1	76 00.4	74 21.7	75 49.8	75 16.7	} 75 18.1	
19	T. M.	75 50.0	74 35.2	75 36.6	74 40.8	75 25.0	75 43.8	74 46.4	75 59.4	75 17.6		
19	T. M.	75 45.8	74 42.6	75 35.0	74 39.7	75 28.2	75 44.0	74 46.2	75 38.8	75 17.5		
19	J. W.	75 37.1	74 49.8	75 38.8	74 48.4	75 11.2	75 49.6	74 30.6	75 53.6	75 17.3		
19	J. W.	75 43.3	74 52.3	75 32.2	74 54.7	75 06.2	75 53.5	74 33.3	75 56.7	75 19.0		
20	C. J.	75 49.0	74 40.8	75 36.5	74 44.4	75 12.1	75 45.3	74 35.7	75 55.8	75 17.5		
20	C. J.	75 46.3	74 43.7	75 33.2	74 47.7	75 14.0	75 46.0	74 39.2	75 52.1	75 17.8		

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		<i>a</i>	<i>a'</i>	<i>a''</i>	<i>a'''</i>	<i>b</i>	<i>b'</i>	<i>b''</i>	<i>b'''</i>		
1850. D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
January.											
15 23	C. J.	75 47.6	74 48.2	75 57.4	74 35.0	74 59.6	75 44.8	75 52.0	75 47.5	75 19.0	
16 0	C. J.	75 39.1	74 58.6	75 59.9	74 33.2	74 57.5	75 45.1	75 46.5	75 40.2	75 17.5	
16 2	J. W.	75 39.5	74 53.5	75 37.2	74 47.4	75 18.7	75 48.0	75 11.7	75 35.6	75 21.4	
16 3	J. W.	75 41.4	74 50.6	75 34.6	74 45.5	75 16.0	75 43.2	75 07.8	75 39.0	75 19.7	
16 23	C. J.	75 54.4	74 41.0	75 57.4	74 26.0	74 59.0	75 52.2	75 18.1	75 42.3	75 21.3	
17 0	C. J.	75 52.5	74 43.1	75 55.6	74 32.8	74 58.5	75 54.4	75 21.0	75 38.0	75 22.0	
17 2	C. J.	75 51.6	74 36.3	75 45.0	74 50.0	74 56.1	75 49.4	75 24.5	75 40.4	75 21.7	75 19.9
17 3	C. J.	75 49.8	74 39.2	75 42.9	74 53.0	75 00.6	75 45.1	75 31.6	75 32.6	75 21.8	
17 23	C. J.	75 34.0	74 38.5	75 47.2	74 51.1	74 56.8	75 47.5	75 59.1	75 57.0	75 18.9	
18 0	C. J.	75 40.5	74 29.0	75 53.3	74 47.0	75 02.1	75 42.7	75 03.3	75 46.3	75 18.1	
18 2	J. W.	75 37.4	74 35.7	75 49.8	74 41.4	75 28.1	75 34.3	75 09.8	75 37.6	75 19.3	
18 3	J. W.	75 37.3	74 32.7	75 51.7	74 42.4	75 31.6	75 35.7	75 01.4	75 36.4	75 18.6	
February.											
15 23	J. W.	75 24.4	74 44.8	75 49.2	74 38.7	75 25.3	75 43.6	74 44.9	75 59.2	75 18.7	
16 0	J. W.	75 28.0	74 44.2	75 54.9	74 37.2	75 37.3	75 47.4	74 55.6	75 56.8	75 22.7	
16 2	T. M.	75 20.2	74 55.2	75 43.4	74 44.0	75 25.1	75 42.2	74 51.0	75 49.8	75 18.8	
16 3	T. M.	75 17.7	75 00.0	75 42.0	74 43.4	75 22.6	75 38.4	74 52.4	75 54.0	75 18.8	
17 23	T. M.	75 39.8	74 56.7	75 42.2	74 28.4	75 32.2	75 49.6	74 42.8	75 45.4	75 19.6	
18 0	T. M.	75 37.0	74 42.6	75 39.7	74 54.0	75 27.0	75 49.8	74 45.5	75 46.6	75 20.2	75 18.7
18 2	C. J.	75 18.6	74 46.6	75 50.4	74 47.0	75 15.6	75 47.5	74 52.3	75 41.2	75 17.5	
18 3	C. J.	75 22.0	74 41.7	75 37.2	24 56.1	75 18.9	75 44.2	74 49.0	75 51.7	75 17.6	
18 23	T. M.	75 46.4	74 39.9	75 42.5	74 49.0	75 11.6	75 49.0	74 48.4	75 17.8	75 15.6	
19 0	T. M.	75 42.9	74 44.1	75 36.6	74 51.5	75 16.2	75 44.0	74 54.1	75 15.4	75 15.6	
19 2	Liley.	75 27.0	74 42.1	75 49.7	74 56.6	75 18.5	75 48.5	74 51.6	75 44.5	75 19.9	
19 3	Liley.	75 35.2	74 55.5	75 53.8	74 37.5	75 19.9	75 46.6	74 38.8	75 50.2	75 19.7	
March.											
17 23	Liley.	75 27.1	75 56.1	75 32.2	74 53.6	75 09.3	75 28.3	74 46.4	75 54.5	75 15.9	
18 0	Liley.	75 35.3	74 46.7	75 45.0	74 35.7	75 34.6	75 38.3	74 45.5	75 37.7	75 17.2	
18 2	J. W.	75 32.1	74 50.1	75 35.1	74 39.6	75 22.2	75 50.9	74 56.9	75 49.8	75 19.5	
18 3	J. W.	75 31.1	74 50.7	75 34.5	74 39.6	75 18.8	75 46.4	74 56.4	75 46.2	75 17.9	
18 23	J. W.	75 41.9	74 51.5	75 41.6	75 01.0	75 04.7	75 20.1	74 38.6	76 00.2	75 17.4	
19 0	J. W.	75 33.4	74 47.3	75 27.2	74 54.6	75 26.7	75 23.9	74 42.7	76 04.0	75 17.4	75 18.0
19 2	T. M.	75 43.1	74 41.7	75 17.8	75 02.3	75 32.0	75 20.0	74 41.7	76 03.4	75 18.7	
19 3	T. M.	75 39.2	74 42.6	75 13.8	75 12.4	75 19.8	75 26.5	74 47.0	76 12.8	75 19.2	
19 23	T. M.	75 37.4	74 52.2	75 38.1	74 47.2	75 12.0	75 29.6	75 00.6	75 51.0	75 18.5	
20 0	C. J.	75 29.6	74 55.2	75 31.0	74 47.4	75 20.3	75 44.2	75 11.1	75 20.8	75 17.5	
20 2	T. M.	75 34.4	74 54.8	75 32.6	74 53.8	75 16.0	75 32.6	75 02.2	75 37.6	75 18.0	
20 3	T. M.	75 29.2	75 00.0	75 31.2	74 49.2	75 18.9	75 40.6	74 51.8	75 46.8	75 18.4	
April.											
16 23	J. W.	75 34.2	74 40.0	75 29.4	74 58.7	75 30.8	75 46.1	74 40.4	76 01.3	75 20.1	
17 0	J. W.	75 38.5	74 40.8	75 30.0	74 57.8	75 31.4	75 47.2	74 40.0	75 59.9	75 20.7	
17 2	T. M.	75 32.2	74 38.2	75 09.2	75 19.4	75 34.6	75 44.0	74 44.7	75 56.2	75 19.8	
17 3	T. M.	75 30.0	74 42.2	75 03.6	75 18.0	75 28.8	75 44.5	74 35.8	76 01.6	75 19.4	
17 23	T. M.	75 40.9	74 48.4	75 33.4	75 25.0	75 13.2	75 37.0	75 01.8	75 30.2	75 21.2	
18 0	T. M.	75 23.4	74 54.2	75 26.2	75 28.6	75 11.4	75 41.4	75 04.0	75 28.2	75 19.6	75 19.7
18 2	C. J.	75 41.7	74 53.1	75 50.2	74 41.4	75 15.2	75 35.1	75 02.5	75 40.1	75 19.9	
18 3	C. J.	75 37.9	74 52.6	75 54.9	74 39.9	75 14.4	75 39.9	74 53.9	75 46.0	75 19.9	
18 23	C. J.	75 35.9	74 52.5	75 57.0	74 35.5	75 19.0	75 47.1	74 52.2	75 52.8	75 21.5	
19 0	C. J.	75 37.2	74 55.8	75 46.4	74 50.1	75 03.3	75 46.1	74 52.5	76 02.8	75 21.8	
19 2	C. J.	75 47.8	74 40.3	75 51.6	74 37.2	75 34.1	75 38.4	74 18.0	75 47.6	75 16.9	
19 3	C. J.	75 41.5	74 54.4	75 52.9	74 31.1	75 07.1	75 36.5	74 43.4	75 36.7	75 15.5	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		<i>a</i>	<i>a'</i>	<i>a''</i>	<i>a'''</i>	<i>b</i>	<i>b'</i>	<i>b''</i>	<i>b'''</i>		
1850. D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
18 23	J. W.	75 41.3	74 42.8	75 39.4	74 42.8	75 19.0	75 42.0	74 40.0	76 06.7	75 19.2	75 19.5
19 0	J. W.	75 43.1	74 38.2	75 41.6	74 46.4	75 15.8	75 46.5	74 37.5	76 08.5	75 19.7	
19 2	Liley.	75 42.5	74 41.6	75 55.0	74 34.8	75 36.2	75 46.7	74 42.0	75 42.6	75 20.1	
19 3	Liley.	75 52.3	74 53.1	76 03.1	74 43.8	75 16.4	75 31.5	74 49.5	75 48.6	75 23.1	
19 23	Liley.	75 48.8	74 49.8	75 55.1	74 30.3	75 18.9	75 43.5	74 31.4	75 47.7	75 18.1	
20 0	Liley.	75 33.2	74 33.7	75 54.7	74 41.3	75 29.4	75 44.7	74 37.3	75 47.5	75 17.7	
20 2	T. M.	75 39.2	74 49.2	75 30.6	74 43.0	75 23.8	75 46.6	75 00.0	75 53.6	75 21.7	
20 3	T. M.	75 39.0	74 42.4	75 29.4	74 48.7	75 32.6	75 36.8	75 00.0	75 50.8	75 19.9	
20 23	C. J.	75 45.6	74 52.4	75 47.5	74 33.5	75 17.9	75 43.2	74 42.5	75 47.5	75 18.8	
21 0	C. J.	75 33.5	74 52.6	75 49.0	74 45.1	75 12.4	75 43.3	74 57.5	75 45.0	75 19.9	
21 2	Liley.	75 34.8	74 54.3	75 42.5	74 32.6	75 14.3	75 47.7	74 46.3	75 48.7	75 17.6	
21 3	Liley.	75 50.0	74 47.4	75 43.8	74 56.0	75 18.5	75 40.1	74 50.5	75 25.7	75 19.4	
16 23	J. W.	75 48.3	74 45.0	75 40.7	74 50.2	75 24.2	75 29.4	74 42.3	75 51.8	75 18.9	
17 0	J. W.	75 41.1	74 41.8	75 52.0	74 56.8	75 30.5	75 25.9	74 38.1	76 00.0	75 20.7	
17 2	T. M.	75 33.3	74 52.6	75 40.5	74 53.2	75 19.2	75 31.2	74 45.5	75 55.4	75 18.8	
17 3	T. M.	75 22.5	74 56.0	75 45.0	74 55.6	75 17.2	75 25.4	74 55.4	75 52.0	75 18.7	
17 23	T. M.	75 51.8	74 50.2	75 37.2	74 49.0	75 06.6	75 26.6	74 51.0	75 51.2	75 17.9	
18 0	T. M.	75 50.0	74 47.4	75 40.5	74 48.2	75 09.8	75 23.4	74 50.0	75 56.0	75 18.1	
18 2	J. W.	75 45.9	74 46.5	75 47.5	74 48.0	75 25.9	75 31.6	74 51.2	75 56.9	75 21.7	
18 3	J. W.	75 49.6	74 42.9	75 51.2	74 46.2	75 19.2	75 24.4	74 47.8	75 59.0	75 20.0	
18 23	Liley.	75 42.7	74 35.0	75 39.2	74 42.1	75 28.3	75 40.4	74 40.3	75 56.8	75 18.1	
19 0	Liley.	75 42.8	74 35.0	75 44.5	74 49.0	75 22.8	75 41.8	74 39.1	75 50.6	75 18.1	
19 2	Liley.	75 46.2	75 03.3	75 48.8	74 41.7	75 13.2	75 49.8	74 54.8	75 33.5	75 21.8	
19 3	Liley.	75 38.7	74 47.0	75 45.0	74 45.9	75 12.9	75 41.5	74 31.8	75 48.0	75 16.3	
15 23	T. M.	75 36.0	74 51.2	75 42.9	74 43.0	75 30.2	75 38.0	74 50.0	75 56.2	75 20.9	75 19.9
16 0	T. M.	75 28.0	75 01.0	75 43.0	74 44.0	75 26.0	75 34.2	74 52.6	75 53.0	75 20.2	
16 2	Liley.	75 33.1	74 55.0	75 37.5	74 38.0	75 31.8	75 38.4	74 52.0	75 55.8	75 19.7	
16 3	Liley.	75 34.0	74 51.4	75 39.0	74 39.6	75 34.6	75 30.6	74 49.6	75 56.0	75 19.3	
16 23	Liley.	75 42.0	74 28.6	75 41.5	74 48.9	75 14.9	75 46.7	74 43.4	75 49.6	75 19.3	
17 0	Liley.	75 36.7	75 03.8	75 37.0	74 43.6	75 14.4	75 46.9	74 52.8	75 41.4	75 19.6	
17 2	T. M.	75 41.2	74 48.8	75 44.0	74 45.0	75 26.6	75 41.0	74 45.8	75 51.0	75 20.4	
17 3	T. M.	75 35.2	74 45.0	75 51.6	74 45.4	75 29.8	75 28.2	74 51.0	75 57.0	75 17.9	
17 23	Liley.	75 49.5	74 36.1	75 38.0	74 50.1	75 17.9	75 57.5	74 36.5	75 44.3	75 18.8	
18 0	Liley.	75 53.3	74 49.9	75 54.5	74 45.1	75 10.0	75 47.8	74 51.5	75 38.6	75 21.4	
18 2	J. W.	75 22.1	74 50.8	75 41.0	74 57.3	75 15.9	75 44.1	74 55.6	75 53.9	75 20.1	
18 3	J. W.	75 28.5	74 48.5	75 48.6	74 58.9	75 18.3	75 39.6	74 52.6	75 51.4	75 20.8	
16 0	J. W.	75 48.8	74 55.3	75 31.1	74 53.2	75 08.4	75 34.8	74 41.1	75 53.3	75 18.2	
16 2	J. W.	75 45.6	75 07.1	75 06.5	74 49.8	75 10.6	75 48.2	74 37.6	75 57.4	75 17.8	
16 3	J. W.	75 50.8	75 03.9	75 20.4	74 42.5	75 09.6	75 44.2	74 36.1	75 51.8	75 17.4	
16 23	T. M.	75 45.7	75 15.4	75 07.8	74 50.8	75 17.8	75 26.6	74 40.0	75 45.4	75 15.9	
17 0	T. M.	75 39.8	75 11.0	75 11.8	74 47.2	75 24.2	75 22.0	74 39.0	75 39.0	75 14.2	
17 2	C. J.	75 37.3	74 55.0	75 44.0	74 40.0	75 08.0	76 09.3	74 57.5	74 48.5	75 15.0	
17 3	C. J.	75 22.5	74 47.5	75 57.5	74 56.5	74 57.5	75 57.3	75 18.0	75 55.0	75 16.4	
17 23	Liley.	75 45.1	74 55.0	75 34.1	74 47.2	75 53.8	75 43.4	74 49.2	76 01.3	75 24.8	
18 0	Liley.	75 38.2	74 43.9	75 49.6	74 56.2	75 06.1	75 48.9	75 53.1	74 51.0	75 20.7	
18 2	J. W.	75 44.3	74 37.0	75 41.0	75 11.8	75 11.9	75 44.2	75 21.5	75 28.6	75 22.5	
18 3	J. W.	75 39.4	74 35.5	75 42.4	75 06.4	75 08.2	75 40.0	75 15.0	75 30.0	75 19.1	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1850. D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
September.											
15 23	Liley.	75 46.7	74 49.9	75 42.2	74 57.4	75 06.4	75 53.9	75 13.7	75 26.1	75 22.0	75 21.0
16 0	Liley.	75 35.7	74 42.0	75 49.0	75 16.8	75 14.0	76 03.1	74 47.9	75 45.7	75 24.3	
16 2	J. W.	75 50.8	74 38.3	75 39.0	74 35.0	75 13.2	75 57.8	75 37.4	75 08.8	75 20.0	
16 3	J. W.	75 45.6	74 35.1	75 36.1	74 30.7	75 10.6	75 59.2	75 34.4	75 13.9	75 18.2	
16 23	T. M.	75 35.2	74 47.6	75 36.8	74 41.0	75 11.0	75 50.8	75 48.8	75 07.2	75 19.8	
17 0	T. M.	75 32.8	74 46.8	75 45.0	74 31.4	75 12.6	75 43.2	75 48.2	75 08.5	75 18.6	
17 2	J. W.	75 47.9	74 37.9	75 41.5	74 43.2	74 59.2	75 42.6	75 21.2	75 48.4	75 20.2	
17 3	J. W.	75 40.2	74 33.6	75 30.6	75 01.0	75 09.1	75 49.8	75 30.2	75 40.8	75 21.9	
17 23	T. M.	75 35.2	74 44.6	75 41.2	74 50.0	75 14.0	75 46.4	75 43.4	75 18.8	75 21.6	
18 0	T. M.	75 40.7	74 43.5	75 40.0	75 00.0	75 11.0	75 40.4	75 42.0	75 10.0	75 20.9	
18 2	C. J.	75 41.2	74 42.6	75 42.8	74 44.2	75 15.9	75 52.5	75 24.3	75 40.6	75 23.0	
18 3	C. J.	75 42.7	74 42.9	75 41.6	74 42.4	75 09.8	75 52.5	75 29.0	75 32.6	75 21.7	
October.											
14 23	T. M.	75 41.0	74 39.8	75 38.4	74 56.0	74 42.6	75 54.3	75 00.0	76 09.5	75 20.2	75 21.8
15 0	T. M.	75 34.4	74 48.7	75 49.4	74 59.4	74 39.4	75 59.0	75 02.2	75 58.8	75 21.4	
15 2	J. W.	75 25.0	75 16.4	75 19.6	74 48.4	74 45.7	75 49.8	75 03.8	76 12.6	75 20.1	
15 3	J. W.	75 33.4	75 17.4	75 17.4	74 39.5	74 44.6	75 50.2	75 10.6	76 13.6	75 18.3	
15 23	C. J.	75 25.5	75 22.5	75 52.7	74 35.2	74 42.5	75 55.8	74 58.1	75 57.7	75 21.2	
16 0	C. J.	75 22.5	75 22.5	75 52.8	74 38.0	74 42.6	75 58.2	74 55.2	75 57.0	75 21.1	
16 2	T. M.	75 09.2	75 29.8	75 42.2	74 45.0	74 41.6	75 47.2	75 05.2	76 10.4	75 21.3	
16 3	T. M.	75 13.8	75 27.4	75 45.8	74 47.2	74 38.2	75 48.4	75 08.4	76 00.0	75 21.1	
16 22	C. J.	75 37.5	74 47.3	75 51.0	74 41.1	74 50.6	75 50.6	75 31.7	75 57.5	75 23.4	
16 23	C. J.	75 41.2	74 47.2	75 46.2	74 52.5	74 41.0	75 51.7	75 34.8	75 55.0	75 23.7	
17 2	Liley.	75 35.1	74 55.9	75 51.6	74 40.4	75 10.5	75 52.9	75 22.5	75 52.7	75 25.1	
17 3	Liley.	75 50.6	74 32.9	75 45.9	74 45.8	74 52.2	75 49.0	75 45.7	75 57.3	75 24.5	
November.											
16 23	C. J.	75 39.5	75 07.7	75 45.7	74 40.0	74 44.9	75 52.5	74 47.5	75 47.5	75 18.0	75 21.3
17 0	C. J.	75 36.4	75 12.0	75 40.2	74 43.2	74 39.8	75 53.0	75 02.0	75 49.2	75 19.6	
18 23	Liley.	75 44.8	74 41.9	75 52.4	74 54.6	75 04.0	75 50.1	74 39.0	75 50.3	75 19.6	
19 0	Liley.	75 11.0	75 04.8	75 49.7	75 18.7	75 09.6	75 52.6	75 06.3	75 27.7	75 22.5	
19 2	C. J.	75 33.5	74 44.0	75 53.5	75 00.0	75 03.9	76 00.2	74 51.5	75 44.0	75 21.3	
19 3	C. J.	75 35.0	74 43.0	75 43.0	75 10.5	74 54.6	75 57.8	74 51.5	75 51.2	75 20.8	
19 23	T. M.	75 34.2	74 49.8	75 45.0	74 56.8	75 04.4	75 57.0	75 00.0	75 37.6	75 21.8	
20 0	T. M.	75 34.3	74 45.0	75 41.8	75 05.6	74 55.4	75 53.8	75 02.4	75 39.0	75 17.4	
20 2	Liley.	75 38.1	74 48.2	75 43.4	75 03.5	75 08.4	75 56.1	74 53.8	75 49.2	75 21.9	
20 3	Liley.	75 38.2	74 50.3	75 51.8	75 31.6	74 57.9	76 02.2	75 12.7	74 55.3	75 22.6	
20 23	Liley.	75 41.7	74 50.2	75 29.6	75 07.5	75 22.0	75 50.4	75 03.3	75 43.9	75 23.5	
21 0	Liley.	75 41.6	74 57.9	75 50.4	75 11.4	75 18.5	75 45.8	74 47.8	75 46.9	75 25.0	
21 2	T. M.	75 43.0	75 00.0	75 32.2	74 56.6	75 20.2	75 42.2	75 05.0	75 47.4	75 23.3	
21 3	T. M.	75 38.2	75 01.8	75 26.4	74 53.1	75 20.2	75 47.0	75 01.0	75 43.0	75 21.3	
December.											
15 23	C. J.	75 28.6	75 07.3	75 53.5	74 53.5	75 15.5	75 49.2	75 01.1	75 50.0	75 24.8	75 22.5
16 0	C. J.	75 37.7	74 47.5	75 45.0	75 03.5	75 15.0	75 54.8	75 07.6	75 52.5	75 18.0	
16 2	C. J.	75 37.0	75 01.5	75 30.0	74 55.1	75 11.0	76 00.0	75 12.5	75 52.5	75 24.9	
16 3	C. J.	75 32.7	75 10.8	75 32.5	74 52.5	75 13.1	76 00.0	75 16.2	75 51.9	75 26.2	
16 23	Liley.	75 48.1	74 50.7	75 40.9	74 54.5	75 10.5	75 57.8	75 17.1	75 36.9	75 24.5	
17 0	Liley.	75 37.6	74 49.7	75 57.4	74 50.0	75 50.7	75 57.2	75 15.1	75 48.3	75 23.3	
17 2	J. W.	75 39.6	75 16.9	75 55.4	74 53.0	75 47.8	75 56.7	75 11.2	75 19.8	75 22.5	
17 3	J. W.	75 35.6	74 52.9	75 53.2	74 56.3	75 50.0	76 00.2	75 12.0	75 32.4	75 21.5	
17 23	Liley.	75 51.7	74 35.5	75 50.0	74 46.8	75 17.3	75 46.5	74 50.2	75 49.0	75 20.8	
18 0	Liley.	75 44.8	74 31.7	75 42.3	75 08.2	75 16.8	75 51.9	74 32.1	75 54.1	75 20.2	
18 2	J. W.	75 52.1	74 38.8	75 43.3	74 56.0	75 06.2	75 39.0	74 56.2	75 59.0	75 21.3	
18 3	J. W.	75 55.1	74 49.2	75 39.2	75 00.8	74 59.6	75 35.2	74 51.3	76 02.0	75 21.5	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1851.											
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "
January.											
14 23	Liley.	75 50.1	75 04.7	75 37.3	74 43.6	74 42.4	75 57.4	75 14.1	75 53.7	75 22.0	
15 0	Liley.	75 52.2	74 33.4	76 00.4	74 46.6	74 54.3	75 47.6	74 54.8	76 01.2	75 21.3	
15 2	J. W.	75 41.3	74 52.8	75 36.2	74 55.5	75 16.6	75 51.2	75 01.4	75 42.0	75 22.1	
15 3	J. W.	75 41.9	74 58.7	75 30.8	74 56.8	75 22.1	75 56.3	74 57.1	75 43.4	75 23.2	
15 23	J. W.	75 46.5	74 50.0	75 43.5	74 50.7	74 56.4	75 47.9	75 14.0	75 40.2	75 21.1	
16 0	J. W.	75 37.5	74 55.9	75 51.1	74 47.3	75 03.1	75 49.2	75 09.8	75 43.0	75 22.1	
16 2	T. M.	75 45.2	74 53.4	75 36.8	75 00.8	74 49.0	75 43.4	75 20.6	75 35.8	75 20.6	75 21.6
16 3	T. M.	75 33.0	74 54.0	75 42.2	74 56.0	74 57.5	75 46.6	75 19.6	75 34.0	75 20.4	
16 23	T. M.	75 53.8	74 49.0	75 52.4	74 53.0	74 46.6	75 40.0	75 15.4	75 40.2	75 21.2	
17 0	T. M.	75 58.2	74 42.2	75 51.0	74 47.9	74 54.8	75 41.0	75 17.0	75 39.6	75 21.4	
17 2	C. J.	75 48.0	74 47.6	75 45.1	74 57.5	75 00.0	75 41.6	75 12.7	75 47.3	75 22.5	
17 3	C. J.	75 43.0	74 50.7	75 43.0	74 54.2	75 04.1	75 36.3	75 11.4	75 49.3	75 21.5	
February.											
16 23	J. W.	75 57.3	74 34.9	75 59.2	74 53.6	75 01.4	75 34.2	75 01.9	76 03.3	75 23.2	
17 0	J. W.	76 00.2	74 38.8	75 56.4	74 52.6	75 01.5	75 39.6	75 01.5	75 52.1	75 22.8	
17 2	T. M.	75 42.2	74 44.6	75 49.4	75 00.0	74 51.6	75 43.6	75 03.0	75 49.0	75 20.4	
17 3	T. M.	75 38.6	75 00.0	75 41.2	74 50.6	74 59.8	75 51.0	74 56.0	75 49.8	75 20.8	
17 23	T. M.	75 33.6	74 39.0	75 35.2	74 42.0	74 54.0	75 46.8	75 32.0	75 53.4	75 19.4	
18 0	T. M.	75 33.0	74 48.6	75 35.8	74 48.2	74 46.8	75 36.2	75 28.6	75 47.7	75 18.1	
18 2	C. J.	75 35.3	74 33.4	75 44.3	75 05.1	75 11.0	75 45.2	75 01.3	75 39.9	75 19.4	75 20.0
18 3	C. J.	75 40.2	74 38.6	75 34.6	75 03.9	75 00.8	75 32.5	75 12.6	75 39.1	75 17.8	
18 23	C. J.	75 35.3	74 57.2	75 38.9	74 39.8	75 10.9	75 46.0	75 11.3	75 23.0	75 17.8	
19 0	C. J.	75 37.4	75 03.7	75 26.5	74 48.8	75 06.0	75 46.5	75 08.8	75 31.1	75 18.7	
19 2	Liley.	75 49.6	74 41.0	75 33.5	75 14.4	75 06.6	75 52.2	74 49.0	75 36.7	75 19.4	
19 3	Liley.	75 51.6	75 03.8	75 42.3	75 54.2	75 13.5	75 48.4	74 45.9	75 34.4	75 21.7	
March.											
16 23	J. W.	75 03.7	75 49.2	75 16.1	75 09.6	75 13.1	75 46.3	75 24.0	75 31.6	75 24.1	
17 0	J. W.	75 12.1	75 18.0	75 52.2	75 10.0	75 21.3	75 36.3	75 30.0	75 18.1	75 24.7	
17 3	T. M.	75 10.6	75 47.8	75 05.8	75 19.8	75 09.4	75 56.4	75 02.2	75 31.0	75 22.8	
17 4	T. M.	75 14.4	75 41.6	75 05.2	75 17.0	75 13.8	75 42.4	75 05.0	75 25.2	75 20.5	
17 23	J. W.	75 12.5	75 16.6	75 54.3	74 39.4	75 09.3	75 44.2	75 16.0	75 38.7	75 21.4	
18 0	J. W.	75 17.8	75 23.5	76 00.9	74 37.0	75 03.9	75 50.0	75 20.1	75 28.7	75 22.7	
18 2	T. M.	75 10.8	75 07.0	75 53.0	75 02.6	75 16.6	75 41.6	75 12.6	75 21.5	75 20.7	75 21.5
18 3	T. M.	75 13.0	75 09.8	75 45.4	75 00.0	75 10.8	75 50.2	75 11.2	75 24.0	75 20.5	
18 23	C. J.	75 09.8	75 06.1	75 56.1	74 50.6	75 11.7	75 44.9	75 13.3	75 25.1	75 19.7	
19 0	C. J.	75 10.6	75 20.4	75 39.4	74 55.0	75 04.8	75 50.8	75 14.2	75 25.4	75 20.1	
19 2	Liley.	75 49.8	74 39.3	75 32.8	74 45.5	75 20.0	75 46.2	75 05.8	75 29.6	75 18.6	
19 3	Liley.	75 13.8	75 23.0	75 55.8	74 50.4	75 06.6	75 39.0	75 15.8	75 28.8	75 21.6	
April.											
14 23	T. M.	75 08.3	75 00.7	75 39.8	74 24.0	75 13.9	75 51.0	75 30.0	75 43.6	75 18.9	
15 0	T. M.	75 20.7	74 54.8	75 36.6	74 55.0	75 16.4	75 49.8	75 33.0	75 38.8	75 23.1	
15 2	Liley.	75 13.1	75 01.8	75 29.0	75 00.5	75 00.4	75 54.7	75 38.6	75 47.9	75 23.2	
15 3	Liley.	75 17.1	75 09.4	75 18.6	75 01.1	75 01.2	75 50.0	75 42.9	75 40.9	75 22.6	
15 23	Liley.	75 28.7	75 15.4	75 19.0	75 01.8	75 05.8	75 46.0	75 38.0	75 15.0	75 21.2	
16 0	Liley.	75 21.8	75 16.6	75 21.7	75 05.0	75 03.2	75 48.2	75 39.2	75 14.6	75 21.3	
16 2	C. J.	75 32.3	75 33.0	75 23.2	74 46.0	75 14.3	75 31.5	75 33.9	75 26.8	75 22.6	75 21.9
16 3	C. J.	75 30.8	75 36.4	75 30.1	74 40.0	75 13.1	75 39.0	75 28.6	75 28.8	75 23.2	
16 23	Liley.	75 43.5	75 16.0	75 28.0	74 36.5	75 02.1	75 48.4	75 42.3	75 14.4	75 21.4	
17 0	Liley.	75 24.1	75 31.9	75 39.2	74 44.8	75 07.5	75 40.7	75 15.5	75 33.1	75 22.1	
17 2	J. W.	75 46.8	75 26.2	75 53.6	74 28.5	75 09.6	75 40.7	75 11.2	75 15.9	75 21.5	
17 3	J. W.	75 45.5	75 24.4	75 48.0	74 31.4	75 12.9	75 36.3	75 10.2	75 27.9	75 22.0	

Observations of Inclination continued from Vol. 1, p. 332; Needle employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1851.											
D. H.											
May.											
14 12	J. W.	75 20.8	75 32.6	75 50.2	74 21.6	75 02.1	75 41.7	75 05.2	75 49.0	75 20.4	
15 0	J. W.	75 23.2	75 38.1	75 51.5	74 24.8	75 05.4	75 42.0	75 11.0	75 41.6	75 22.2	
15 2	J. W.	75 07.2	75 37.4	75 45.2	74 29.4	75 01.8	75 47.1	75 09.2	75 34.9	75 19.1	
15 3	J. W.	75 12.3	75 27.5	75 53.8	74 32.4	74 57.8	75 42.1	75 06.4	75 46.3	75 19.8	
15 23	J. W.	75 13.3	75 25.7	75 53.1	74 18.7	75 03.8	75 40.2	75 32.6	75 35.5	75 20.3	
16 0	J. W.	75 22.7	75 20.2	75 53.7	74 28.3	74 58.8	75 48.1	75 24.5	75 40.6	75 22.1	
16 2	T. M.	75 09.4	75 25.8	75 52.6	74 21.2	74 49.3	75 51.1	75 14.0	75 27.7	75 21.4	75 20.0
16 3	T. M.	75 22.2	75 22.8	75 39.6	74 34.2	74 44.8	75 50.2	75 11.8	75 23.0	75 16.2	
16 23	J. W.	75 09.9	75 26.4	75 50.6	74 29.1	75 18.7	75 29.0	75 20.1	75 36.9	75 20.0	
17 0	J. W.	75 16.9	75 23.1	75 56.6	74 25.9	75 29.0	75 20.1	75 39.0	75 22.5	75 21.6	
17 2	J. W.	75 16.2	75 26.2	75 54.9	74 28.0	75 10.0	75 31.4	75 16.3	75 32.1	75 19.3	
17 3	J. W.	75 07.9	75 34.8	75 49.3	74 31.1	75 03.6	75 24.0	75 29.2	75 24.1	75 17.9	
June.											
16 23	J. W.	74 59.8	75 39.7	75 12.1	75 38.0	75 04.1	75 29.2	75 40.3	75 09.9	75 21.6	
17 0	W. T.	75 13.7	75 41.1	75 32.8	74 50.6	75 36.1	75 18.8	75 45.3	74 51.0	75 20.2	
17 2	T. M.	75 16.6	75 24.9	75 32.6	75 21.2	74 56.1	75 47.7	75 12.8	75 33.2	75 21.8	
17 3	T. M.	75 06.0	75 20.3	75 55.7	74 21.7	75 17.0	75 23.7	75 53.3	75 34.1	75 21.4	
17 23	T. M.	75 06.3	75 19.7	75 58.6	74 19.6	75 00.4	75 48.8	75 14.0	75 40.4	75 18.4	
18 0	T. M.	75 11.0	75 13.2	75 53.8	74 20.4	75 00.0	75 56.6	75 20.0	75 36.6	75 19.0	
18 2	Liley.	75 50.0	75 41.3	75 11.8	74 32.4	75 07.8	75 47.0	75 34.5	74 55.2	75 19.3	75 20.7
18 3	Liley.	75 12.4	75 41.4	75 37.7	74 56.9	75 12.9	75 34.4	75 10.5	75 14.9	75 19.3	
18 23	J. W.	75 09.0	75 31.9	75 41.1	74 34.4	75 02.0	75 41.1	75 31.6	75 42.9	75 21.7	
19 0	W. T.	75 13.8	75 38.0	75 47.8	74 37.0	75 11.6	75 43.4	75 04.4	75 37.8	75 19.2	
19 2	T. M.	75 11.6	75 49.5	75 21.0	75 09.2	74 54.6	75 52.2	75 16.0	75 37.2	75 23.9	
19 3	T. M.	75 15.4	75 39.0	75 18.6	75 06.5	74 56.4	74 53.4	75 16.2	75 32.0	75 22.2	
July.											
15 0	T. M.	75 05.0	75 31.5	75 51.0	74 26.7	75 02.2	75 43.2	75 03.0	75 29.0	75 16.5	
15 2	J. W.	75 12.2	75 37.5	75 04.1	75 39.6	75 00.6	75 35.0	75 47.6	74 36.7	75 19.1	
15 3	J. W.	74 59.6	75 36.5	75 46.2	74 34.1	75 13.5	75 41.0	75 07.2	75 40.0	75 19.7	
15 23	T. M.	75 04.8	75 32.8	75 52.5	74 31.6	75 11.0	75 41.0	75 13.6	75 33.4	75 20.0	
16 0	T. M.	75 07.0	75 32.2	75 49.8	74 39.6	75 05.5	75 45.6	75 07.2	75 36.8	75 20.5	
16 2	J. W.	75 13.7	75 26.8	75 49.0	74 31.1	75 14.7	75 36.7	75 10.2	75 33.7	75 19.4	75 19.0
16 3	J. W.	75 21.0	75 31.9	75 46.7	74 36.2	75 17.3	75 23.0	75 06.0	75 38.1	75 20.0	
16 23	J. W.	75 07.5	75 31.6	75 45.5	74 39.1	75 12.0	75 36.4	75 11.0	75 37.2	75 20.0	
17 0	W. A. S.	75 02.8	75 30.4	75 47.8	74 28.8	75 06.8	75 33.9	75 12.4	75 31.5	75 16.8	
17 2	W. A. S.	75 03.4	75 37.8	76 05.6	74 20.5	75 05.2	75 40.9	75 07.5	75 36.5	75 19.6	
17 3	W. A. S.	74 58.6	75 32.5	75 41.6	74 23.1	75 04.8	75 44.4	75 20.5	75 30.2	75 17.7	
August.											
15 0	W. T.	75 11.8	75 25.0	75 30.0	74 44.2	75 41.2	75 57.3	75 43.0	75 18.8	75 26.4	
15 3	W. T.	75 00.6	75 14.1	75 41.6	74 49.1	75 12.4	75 59.3	75 36.9	75 20.9	75 21.8	
15 4	W. A. S.	75 19.9	75 08.3	74 47.5	74 26.5	75 03.5	75 53.9	76 12.9	75 38.9	75 18.9	
15 22	W. T.	74 55.9	75 32.8	75 42.0	74 34.8	75 04.2	75 42.6	75 13.4	75 26.3	75 16.5	
15 23	W. T.	74 56.0	75 34.4	75 43.8	74 29.0	75 04.8	75 44.2	75 14.2	75 32.7	75 17.4	
16 2	W. A. S.	75 08.4	75 19.9	75 37.6	74 27.6	75 03.0	75 38.1	76 02.5	75 32.9	75 21.2	75 19.8
16 3	W. A. S.	75 03.7	75 31.3	75 43.3	74 31.8	75 03.9	75 43.9	75 21.4	75 45.6	75 20.6	
17 23	W. T.	75 04.8	75 34.0	75 53.1	74 27.7	75 09.9	75 33.5	75 14.2	75 32.6	75 18.7	
18 0	W. T.	75 04.1	75 33.8	75 44.7	74 19.2	75 02.1	75 40.6	75 08.5	75 32.2	75 15.6	
18 2	W. A. S.	75 10.8	75 31.3	75 47.0	74 28.6	75 17.1	75 41.9	75 21.4	75 28.4	75 20.8	
18 3	W. A. S.	75 16.7	75 36.7	75 43.9	74 27.5	74 58.8	75 41.9	75 14.8	75 41.4	75 20.2	

Observations of Inclination continued from Vol. 1, p. 332; Needles employed "Robinson, No. 2."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1851.											
D. H.											
September.											
15 23	W. A. S.	75 07.5	75 36.4	75 47.6	74 34.1	75 03.5	75 42.1	75 17.6	75 36.0	75 20.6	
16 0	W. A. S.	75 24.9	75 52.3	75 22.9	74 30.4	75 11.9	75 48.5	75 14.5	75 23.7	75 21.2	
16 2	W. A. S.	75 27.6	75 30.1	75 42.7	74 32.1	75 10.7	75 36.0	75 26.0	75 28.9	75 21.7	
16 3	W. A. S.	75 10.4	75 40.4	75 43.3	74 38.7	75 08.6	75 40.2	75 19.7	75 25.2	75 20.8	
17 0	W. T.	75 07.1	75 20.8	75 53.8	74 28.4	75 03.9	75 41.2	75 15.3	75 36.8	75 18.4	
17 2	W. T.	75 06.4	75 31.3	75 56.6	74 22.3	75 03.2	75 41.1	75 13.7	75 36.0	75 18.8	75 20.8
17 3	W. T.	75 14.0	75 27.6	75 56.5	74 13.3	75 06.1	75 41.6	75 13.3	75 26.0	75 17.3	
17 23	J. W.	75 04.0	75 35.7	75 49.2	74 27.9	75 13.6	75 38.8	75 09.7	75 37.9	75 19.6	
18 0	J. W.	75 04.6	75 37.4	75 55.9	74 28.9	75 13.7	75 40.8	75 11.6	75 37.4	75 21.3	
18 2	W. T.	75 39.9	75 18.5	75 53.6	74 11.0	75 07.8	75 37.1	75 13.0	75 38.2	75 19.8	
18 4	W. T.	75 06.8	75 13.9	75 54.6	74 30.4	75 11.8	75 45.9	75 11.7	75 36.9	75 18.9	
October.											
15 23	W. T.	75 08.9	75 22.4	75 52.3	74 28.7	75 05.4	75 46.6	75 14.6	75 38.3	75 19.6	
16 0	W. T.	75 05.5	75 32.2	75 51.8	74 25.9	75 05.3	75 44.6	75 09.8	75 36.7	75 18.9	
16 2	T. M.	75 27.6	75 22.4	75 46.2	75 37.7	75 13.4	75 31.0	75 19.1	75 21.8	75 19.9	
16 3	T. M.	75 24.6	75 18.0	75 52.0	74 38.2	75 16.3	75 25.0	75 21.0	75 32.2	75 20.9	
16 23	J. W.	75 02.4	75 33.4	75 51.4	74 38.4	75 05.0	75 43.0	75 29.8	75 27.0	75 20.0	
17 0	J. W.	74 57.0	75 35.8	75 54.5	74 24.2	75 11.9	75 39.8	75 28.6	75 28.6	75 20.0	75 20.0
17 2	W. A. S.	75 08.3	75 31.3	75 53.7	74 33.2	75 06.2	75 36.0	75 18.2	75 39.5	75 20.8	
17 3	W. A. S.	75 03.3	75 12.6	75 22.5	75 00.0	75 04.6	75 25.9	75 32.6	75 47.0	75 18.6	
17 22	W. A. S.	75 08.9	75 20.7	75 51.6	74 28.1	75 21.3	75 30.7	75 10.2	75 46.2	75 19.7	
17 23	W. A. S.	75 02.3	75 12.8	75 24.5	75 04.8	75 11.1	75 40.1	75 23.3	75 41.3	75 20.0	
17 23	W. A. S.	75 08.5	75 25.3	75 56.4	74 24.2	75 04.1	75 46.7	75 09.8	75 48.2	75 20.4	
18 0	W. A. S.	75 06.6	75 24.3	75 41.6	74 46.7	75 12.6	75 38.5	75 12.5	75 42.0	75 20.6	
November.											
16 23	W. T.	75 03.5	75 29.4	75 55.7	74 25.6	75 23.9	75 43.2	75 15.7	75 34.9	75 21.4	
17 0	W. T.	75 07.1	75 33.0	75 53.6	74 25.4	75 05.6	75 46.7	75 16.4	75 40.3	75 21.0	
17 2	J. W.	75 06.0	75 37.9	75 50.2	74 30.8	75 11.1	75 43.1	75 04.8	75 37.8	75 20.2	
17 3	J. W.	75 08.8	75 34.2	75 53.0	74 30.0	75 14.3	75 38.9	75 05.6	75 30.2	75 19.3	
18 0	T. M.	75 06.0	75 29.4	76 00.0	74 26.2	75 11.4	75 48.2	75 02.4	75 35.8	75 19.9	
18 2	W. A. S.	75 03.2	75 44.2	75 19.3	75 08.6	75 17.7	75 48.7	75 04.9	75 21.5	75 21.0	75 20.4
18 3	W. A. S.	75 07.4	75 24.3	75 56.6	74 48.1	75 11.6	75 45.7	75 13.6	75 33.5	75 20.8	
18 23	W. A. S.	75 03.2	75 36.0	75 53.9	74 29.6	75 10.8	75 41.0	75 09.8	75 32.4	75 19.6	
19 0	W. A. S.	75 18.1	75 23.1	75 53.4	74 21.8	75 02.2	75 47.2	75 17.2	75 35.4	75 19.8	
19 2	J. W.	75 00.2	75 36.6	75 50.9	74 29.8	75 06.0	75 48.8	75 16.0	75 38.8	75 20.9	
19 3	J. W.	75 05.9	75 38.3	75 46.3	74 33.8	75 02.8	75 45.3	75 08.7	75 40.6	75 20.2	
December.											
14 23	W. T.	75 03.4	75 31.7	75 56.3	74 18.5	75 11.2	75 42.7	75 15.0	75 37.1	75 19.5	
15 0	W. T.	75 02.1	75 28.1	75 56.9	74 30.0	75 05.9	75 45.2	75 12.1	75 40.5	75 20.1	
15 2	J. W.	75 03.1	75 27.9	75 51.6	74 22.1	75 10.7	75 53.2	75 44.7	75 04.8	75 19.8	
15 3	J. W.	75 05.4	75 24.5	75 51.3	74 26.0	75 16.7	75 52.7	75 41.6	75 00.0	75 19.7	
15 23	W. A. S.	75 04.3	75 31.7	75 52.0	74 31.8	75 00.6	75 52.4	75 10.5	75 27.5	75 18.8	
16 0	W. A. S.	75 03.2	75 24.8	75 46.7	74 26.9	75 13.4	75 56.3	75 37.3	75 05.2	75 19.2	
16 2	W. T.	75 05.1	75 33.8	75 53.7	74 21.1	75 06.3	75 46.4	75 06.3	75 37.5	75 18.7	75 19.4
16 4	W. T.	75 05.4	75 26.7	75 55.6	74 17.9	75 06.7	75 47.7	75 04.8	75 38.5	75 17.9	
17 23	T. M.	75 06.3	75 29.8	75 58.6	74 23.5	75 11.6	75 42.8	75 14.2	75 30.0	75 19.5	
18 0	T. M.	75 04.0	75 26.8	76 03.0	74 23.4	75 13.6	75 41.6	75 22.0	75 23.0	75 19.6	
18 2	J. W.	75 01.1	75 31.2	75 54.9	74 27.0	75 11.7	75 48.0	75 21.0	75 26.4	75 20.2	
18 3	J. W.	75 12.1	75 21.6	75 49.8	74 29.8	75 18.2	75 41.9	75 24.5	75 20.2	75 19.7	



Observations of Inclination continued from Vol. 1, p. 332; Needles employed "Robinson No. 2," and "Gambey No. 1" in Gambey Circle.

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.	
		Face of Needle.				Face of Needle.						
		Direct.		Reversed.		Direct.		Reversed.				
		a	a'	a''	a'''	b	b'	b''	b'''			
1852.												
D. H.		° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	° ' "	
15 23	W. A. S.	75 09.7	75 33.1	75 53.4	74 25.0	75 05.4	75 30.1	75 10.5	75 46.3	75 19.2	} 75 19.3	
16 0	W. A. S.	75 13.6	75 26.9	75 42.8	74 23.6	75 02.5	75 47.2	75 07.3	75 50.8	75 19.3		
16 2	W. T.	75 00.5	75 35.8	75 55.6	74 24.7	75 14.8	75 36.8	75 11.5	75 33.2	75 19.2		
16 3	W. T.	75 00.9	75 35.7	75 53.5	74 26.6	75 15.2	75 40.9	75 12.8	75 30.9	75 22.0		
16 23	T. M.	74 55.0	75 39.0	75 43.9	74 23.8	75 32.4	75 41.5	75 13.8	75 24.8	75 19.2		
17 0	T. M.	74 54.0	75 42.4	75 43.6	74 33.4	75 24.2	75 46.3	75 13.8	75 17.6	75 19.3		
17 2	J. W.	75 04.6	75 30.8	75 46.1	74 32.2	75 21.5	75 41.8	75 21.4	75 26.1	75 20.5		
17 3	J. W.	75 01.4	75 32.9	75 47.0	74 31.3	75 22.1	75 38.0	75 19.5	75 32.0	75 20.5		
18 23	W. T.	75 10.0	75 26.7	75 56.0	74 19.0	75 10.0	75 43.2	75 10.0	75 30.6	75 18.3		
19 0	W. T.	75 02.2	75 33.0	75 56.6	74 28.3	75 03.8	75 46.9	75 11.5	75 30.8	75 19.2		
19 2	T. M.	74 51.2	75 31.6	75 44.2	74 32.0	75 15.0	75 31.8	75 18.2	75 32.4	75 17.0		
19 3	T. M.	74 53.2	75 37.4	75 38.2	74 30.8	75 07.6	75 36.6	75 22.4	75 36.6	75 17.8		
16 23	J. W.	75 07.0	75 25.6	75 56.4	74 26.2	75 00.7	75 50.5	75 22.2	75 36.1	75 20.6		} 75 19.6
17 0	J. W.	75 16.5	75 30.1	75 59.6	74 29.0	74 55.4	75 50.8	75 16.9	75 35.2	75 21.7		
17 2	T. M.	75 06.0	75 34.2	75 43.0	74 32.4	74 50.2	75 51.4	75 29.2	75 33.2	75 19.9		
17 3	T. M.	75 06.4	75 24.0	75 46.0	74 33.6	75 12.4	75 44.6	75 30.7	75 36.8	75 21.8		
19 0	W. A. S.	75 07.2	75 28.0	75 56.9	74 20.3	75 03.2	75 32.9	75 23.7	75 44.4	75 19.6		
19 1	W. A. S.	75 09.0	75 38.6	75 48.4	74 30.0	75 04.5	75 42.3	75 17.5	75 32.9	75 20.4		
19 1	W. T.	75 04.1	75 38.7	76 04.1	74 31.6	74 46.4	75 43.7	75 16.2	75 33.9	75 19.8		
19 3	W. T.	75 06.5	75 40.8	75 56.0	74 30.8	74 42.8	75 44.1	75 13.5	75 20.9	75 16.9		
22 23	W. A. S.	75 02.6	75 31.8	75 46.4	74 33.8	75 07.8	75 43.7	75 12.1	75 37.5	75 19.5		
23 0	W. A. S.	75 07.4	74 07.4	77 45.8	73 14.7	74 59.7	75 40.4	75 21.6	75 51.6	75 16.1		
23 2	W. A. S.	77 04.0	73 31.9	77 45.0	73 09.0	74 07.4	77 29.8	73 36.7	76 17.5	75 22.6 <sup>a</sup>		
23 3	W. A. S.	77 06.6	73 36.6	77 23.2	73 04.5	73 42.0	77 42.6	73 26.8	76 43.3	75 20.7 <sup>a</sup>		
23 23	W. T.	77 04.2	73 54.9	77 36.5	73 27.0	74 08.4	77 09.2	74 10.1	76 30.8	75 30.0 <sup>a</sup>		
24 1	W. T.	77 19.3	73 40.0	77 52.9	73 12.6	74 11.0	76 52.1	74 09.6	76 29.0	75 27.8 <sup>a</sup>		
24 2	W. T.	77 16.3	73 30.4	77 47.2	73 18.0	74 05.0	76 46.9	74 09.0	76 32.6	75 25.7 <sup>a</sup>		
24 4	W. T.	77 14.0	73 35.0	77 44.0	73 09.4	74 11.0	76 46.3	74 11.3	76 29.0	75 25.0 <sup>a</sup>		
16 23	T. M.	77 12.4	73 34.3	77 44.5	73 15.5	74 07.2	76 48.2	74 06.2	76 29.0	75 24.6 <sup>a</sup>	} 75 19.6	
15 0	T. M.	77 16.1	73 30.4	77 44.2	73 25.4	74 04.2	76 33.6	74 13.3	76 30.2	75 24.6 <sup>a</sup>		
15 2	W. T.	77 09.7	73 49.7	77 39.5	73 44.2	74 14.4	77 03.8	74 06.0	76 27.0	75 31.7 <sup>a</sup>		
15 3	W. T.	77 08.6	73 48.2	77 35.6	73 44.3	74 04.9	77 03.0	74 04.9	76 35.8	75 30.6 <sup>a</sup>		
16 1	W. A. S. <sup>b</sup>	76 19.9	76 09.6	76 44.5	75 34.9	74 54.5	75 53.6	76 14.4	76 07.5	75 59.8 <sup>a</sup>		
16 3	T. M.	75 08.6	75 24.4	75 29.1	75 04.2	75 17.9	75 20.8	75 19.1	75 19.8	75 18.0		
16 23	W. T.	75 09.8	75 23.1	75 30.6	75 06.0	75 20.9	75 20.2	75 29.6	75 14.4	75 19.3		
17 0	W. T.	75 10.1	75 24.0	75 30.3	75 09.3	75 19.5	75 21.8	75 30.0	75 12.5	75 19.6		
17 2	J. W.	75 12.7	75 27.4	75 31.4	75 12.4	75 17.4	75 17.1	75 32.6	75 15.2	75 20.8		
17 3	J. W.	75 11.6	75 25.4	75 30.9	75 13.0	75 14.8	75 20.8	75 31.5	75 13.0	75 20.1		
14 23	T. M.	75 09.2	75 29.6	75 30.4	75 12.6	75 20.4	75 24.4	75 28.2	75 13.0	75 21.0	} 75 20.0	
15 0	T. M.	75 10.2	75 24.4	75 32.2	75 14.8	75 19.4	75 20.6	75 29.9	75 16.0	75 21.0		
15 23	W. A. S.	75 11.0	75 27.5	75 24.8	75 15.0	75 18.6	75 27.8	75 29.3	75 12.3	75 20.8		
16 0	W. A. S.	75 08.3	75 21.6	75 28.2	75 24.0	75 20.1	75 24.2	75 31.5	75 09.4	75 20.9		
16 2	J. W.	75 10.9	75 27.6	75 29.8	75 08.4	75 20.1	75 20.1	75 30.7	75 13.0	75 20.1		
16 3	J. W.	75 12.4	75 28.5	75 26.3	75 14.4	75 20.4	75 15.4	75 31.0	75 10.3	75 19.8		
16 23	W. T.	75 09.5	75 26.1	75 27.1	75 11.1	75 20.4	75 21.1	75 31.0	75 11.7	75 20.2		
17 0	W. T.	75 13.0	75 26.0	75 26.9	75 10.5	75 20.3	75 21.0	75 29.7	75 14.0	75 20.4		
17 2	J. W.	75 09.6	75 26.2	75 30.7	75 09.5	75 17.9	75 19.0	75 29.8	75 13.8	75 19.5		
17 3	J. W.	75 08.6	75 26.9	75 29.6	75 09.1	75 17.6	75 20.4	75 30.5	75 10.6	75 19.1		
18 23	W. A. S.	75 06.9	75 26.0	75 29.2	75 10.0	75 17.4	75 35.6	75 24.9	75 08.8	75 19.8		
19 0	W. A. S.	75 08.8	75 25.8	75 29.1	75 09.5	75 20.1	75 26.6	75 30.4	75 09.0	75 19.9		
19 2	W. A. S.	75 08.0	75 21.9	75 27.7	75 15.5	75 16.6	75 27.8	75 30.2	75 12.3	75 20.0		
19 3	W. A. S.	75 10.8	75 23.7	75 27.9	75 13.2	75 04.7	75 27.2	75 33.9	75 15.5	75 19.6		

<sup>a</sup> Not included in the Monthly Means.

<sup>b</sup> Gambey No. 1, again taken into use.

Observations of Inclination continued from Vol. 1, p. 332; Needle employed, "Gambey No. 1."

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1852.											
		o	i	o	i	o	i	o	i	o	i
May.											
16 23	W. A. S.	75 08.2	75 28.6	75 27.0	75 05.2	75 18.2	75 24.0	75 39.4	75 15.5	75 20.7	
17 0	W. A. S.	75 09.9	75 27.0	75 31.0	75 14.0	75 15.2	75 28.0	75 33.2	75 09.7	75 21.0	
17 2	W. A. S.	75 08.2	75 28.6	75 29.2	75 09.2	75 17.3	75 32.1	75 31.4	75 09.6	75 21.0	
17 3	W. A. S.	75 09.6	75 23.8	75 30.6	75 11.6	75 09.4	75 33.4	75 31.2	75 15.0	75 20.6	
17 23	W. T.	75 09.9	75 21.4	75 29.0	75 03.5	75 15.9	75 30.7	75 29.7	75 19.8	75 21.2	
18 0	W. T.	75 09.7	75 23.8	75 28.5	75 08.6	75 17.2	75 28.6	75 28.7	75 19.2	75 20.5	
18 2	W. A. S.	75 12.4	75 19.4	75 31.6	75 11.5	75 10.4	75 30.2	75 32.1	75 19.8	75 20.9	75 20.8
18 3	W. A. S.	75 09.0	75 23.6	75 27.3	75 07.8	75 14.6	75 32.2	75 32.6	75 18.6	75 20.7	
18 23	T. M.	75 11.6	75 22.4	75 29.0	75 08.0	75 12.4	75 29.2	75 31.0	75 19.2	75 20.3	
19 0	T. M.	75 14.8	75 13.8	75 30.8	75 10.4	75 09.8	75 28.8	75 35.0	75 19.6	75 20.4	
19 2	T. M.	75 14.1	75 28.4	75 17.8	75 14.6	75 14.6	75 28.0	75 30.0	75 17.6	75 20.6	
19 3	T. M.	75 15.6	75 29.6	75 21.4	75 08.2	75 12.0	75 30.0	75 33.2	75 20.2	75 21.2	
June.											
15 23	W. T.	75 11.8	75 21.0	75 28.5	75 10.2	75 20.2	75 31.1	75 30.2	75 17.9	75 22.6	
16 0	W. T.	75 12.0	75 23.0	75 27.4	75 10.0	75 19.0	75 27.8	75 29.7	75 17.8	75 20.8	
16 2	T. M.	75 08.6	75 20.8	25 25.1	75 04.4	75 16.6	75 32.2	75 37.2	75 22.4	75 20.9	
16 3	T. M.	75 12.6	75 20.4	75 25.6	75 08.0	75 14.0	75 25.4	75 39.2	75 21.5	75 20.9	
16 23	W. A. S.	75 13.3	75 21.6	75 27.8	75 11.4	75 08.9	75 32.2	75 37.1	75 11.6	75 20.5	
17 0	W. A. S.	75 13.1	75 25.6	75 28.3	75 09.4	75 17.0	75 26.6	75 32.1	75 17.4	75 21.2	
17 2	W. A. S.	75 07.2	75 22.4	75 30.0	75 08.9	75 16.6	75 27.3	75 30.4	75 21.9	75 20.6	75 20.8
17 3	W. A. S.	75 08.3	75 18.2	75 30.2	75 09.5	75 14.8	75 28.6	75 29.5	75 20.3	75 20.1	
17 23	W. T.	75 10.9	75 20.4	75 29.5	75 08.6	75 17.6	75 26.9	75 30.0	75 22.0	75 20.7	
18 0	W. T.	75 09.9	75 21.4	75 26.7	75 09.9	75 17.5	75 27.3	75 29.8	75 21.8	75 20.5	
18 2	W. A. S.	75 07.3	75 20.2	75 29.6	75 11.4	75 17.1	75 27.9	75 30.3	75 20.3	75 20.5	
18 3	W. A. S.	75 12.6	75 19.9	75 27.9	75 11.2	75 11.0	75 27.0	75 31.2	75 20.6	75 20.2	
July.											
15 23	J. W.	75 12.8	75 20.7	75 29.3	75 07.2	75 19.2	75 24.6	75 30.6	75 15.2	75 19.9	
16 0	J. W.	75 15.4	75 23.8	75 23.4	75 06.4	75 24.0	75 22.8	75 32.7	75 17.2	75 20.7	
16 3	W. T.	75 11.2	75 20.6	75 29.8	75 08.5	75 16.5	75 28.3	75 27.3	75 17.4	75 20.0	
16 4	W. T.	75 11.2	75 20.0	75 28.8	75 10.7	75 16.6	75 27.8	75 28.2	75 17.3	75 20.1	
16 23	T. M.	75 09.7	75 24.5	75 27.9	75 04.0	75 17.2	75 29.1	75 28.9	75 21.2	75 20.3	
17 0	T. M.	75 08.0	75 21.4	75 24.2	75 06.2	75 18.8	75 27.6	75 34.4	75 22.6	75 20.3	
17 3	W. T.	75 12.4	75 25.8	75 27.9	75 04.4	75 15.2	75 27.3	75 25.2	75 18.0	75 19.4	75 19.9
17 3	W. T.	75 10.1	75 21.2	75 28.9	75 04.6	75 16.8	75 29.1	75 25.0	75 17.3	75 19.1	
18 23	W. A. S.	75 08.3	75 20.0	75 29.5	75 09.0	75 19.5	75 28.2	75 30.2	75 13.8	75 19.8	
19 0	W. A. S.	75 12.6	75 27.3	75 30.3	75 06.1	75 10.3	75 24.0	75 29.6	75 19.9	75 20.1	
19 2	J. W.	75 12.7	75 21.4	75 25.6	75 05.0	75 12.1	75 32.8	75 30.2	75 17.2	75 19.6	
19 3	J. W.	75 16.4	75 18.8	75 25.8	75 08.9	75 12.1	75 35.2	75 25.0	75 13.7	75 19.5	
August.											
15 22	W. T.	75 11.7	75 21.3	75 27.0	75 05.6	75 16.0	75 25.4	75 27.3	75 18.2	75 19.1	
16 0	W. T.	75 14.6	75 22.6	75 28.3	75 04.4	75 16.2	75 26.8	75 29.4	75 16.6	75 19.8	
16 2	W. A. S.	75 09.6	75 21.6	75 27.6	75 08.6	75 16.8	75 30.6	75 32.1	75 15.2	75 20.3	
16 3	W. A. S.	75 15.0	75 24.6	75 28.2	75 07.0	75 20.6	75 22.8	75 27.2	75 13.4	75 19.9	
16 23	T. M.	75 16.1	75 20.4	75 25.6	75 10.6	75 14.0	75 29.6	75 27.0	75 11.8	75 21.1	
17 0	T. M.	75 14.0	75 17.4	75 26.0	75 11.2	75 11.8	75 31.8	75 28.5	75 12.2	75 19.1	
17 2	J. W.	75 10.4	75 17.7	75 14.8	75 25.2	75 16.9	75 16.4	75 31.9	75 20.3	75 19.1	75 20.0
17 3	J. W.	75 17.5	75 17.9	75 18.1	75 22.7	75 19.6	75 17.9	75 25.8	75 15.8	75 19.4	
17 23	W. T.	75 09.0	75 40.0	75 16.7	75 27.6	75 32.2	75 07.5	75 37.7	75 00.6	75 21.4	
18 0	W. T.	75 03.0	75 38.2	75 17.0	75 25.0	75 32.8	75 09.7	75 36.0	75 00.9	75 20.9	
18 2	T. M.	74 57.0	75 42.0	75 12.0	75 31.4	75 35.9	75 06.6	75 35.8	74 56.0	75 19.6	
18 3	T. M.	75 05.0	75 39.4	75 11.6	75 31.4	75 34.2	75 08.8	75 37.0	74 59.6	75 20.8	

*Observations of Inclination continued from Vol. 1, p. 332; Needle employed, "Gambey, No. 1."*

Toronto Astron. Time.	Initials of Observers.	Poles Direct.				Poles Reversed.				Inclination.	Monthly Means.
		Face of Needle.				Face of Needle.					
		Direct.		Reversed.		Direct.		Reversed.			
		a	a'	a''	a'''	b	b'	b''	b'''		
1852.											
D. H.		°	'	°	'	°	'	°	'	°	'
September.											
15 23	J. W.	75 05.2	75 36.8	75 20.4	75 23.4	75 33.1	75 09.2	75 40.7	75 00.7	75 21.2	
16 0	J. W.	75 02.0	75 40.5	75 25.4	75 18.2	75 29.9	75 08.6	75 35.9	75 04.4	75 20.6	
16 2	W. A. S.	75 04.2	75 39.2	75 18.2	75 23.2	75 31.9	75 08.8	75 37.6	75 06.2	75 21.2	
16 3	W. A. S.	75 03.4	75 39.5	75 22.2	75 24.5	75 32.2	75 11.2	75 36.2	75 06.2	75 21.9	
16 23	W. T.	75 06.0	75 40.2	75 19.1	75 28.8	75 36.2	75 08.2	75 36.6	75 00.7	75 21.9	
17 0	W. T.	74 57.7	75 41.1	75 19.4	75 25.5	75 35.8	76 08.5	75 37.0	75 01.4	75 21.2	
17 2	T. M.	74 59.8	75 40.7	75 24.0	75 24.4	75 29.2	75 14.7	75 38.2	75 02.6	75 21.7	75 21.6
17 3	T. M.	75 04.8	75 40.0	75 22.8	75 29.2	75 30.0	75 10.0	75 41.0	75 03.8	75 22.7	
17 23	W. A. S.	75 05.6	75 40.8	75 15.2	75 34.6	75 34.8	75 07.8	75 35.2	75 00.4	75 21.8	
18 0	W. A. S.	75 00.1	75 39.5	75 21.4	75 32.8	75 34.2	75 11.1	75 35.8	75 05.0	75 22.5	
18 2	T. M.	75 04.8	75 42.8	75 12.0	75 35.0	75 31.6	75 10.4	75 36.4	75 00.5	75 21.6	
18 3	T. M.	75 04.0	75 41.0	75 16.2	75 29.8	75 30.2	75 12.4	75 37.2	74 56.6	75 20.9	
October.											
15 23	T. M.	75 02.5	75 44.6	75 21.5	75 30.2	75 34.0	75 07.0	75 37.2	74 59.4	75 22.0	
16 0	T. M.	75 04.2	75 42.0	75 20.6	75 31.2	75 30.8	75 10.6	75 36.2	74 55.0	75 21.3	
16 1	W. A. S.	75 00.1	75 40.9	75 20.1	75 33.5	75 27.4	75 10.2	75 38.8	75 04.2	75 22.0	
16 2	W. A. S.	75 04.8	75 40.3	75 21.6	75 36.1	75 27.8	75 11.8	75 37.6	75 00.6	75 22.6	
18 0	J. W.	75 02.1	75 42.3	75 21.4	75 34.2	75 30.8	75 06.0	75 45.0	74 58.5	75 22.5	
18 2	W. T.	75 06.2	75 40.2	75 23.1	75 29.8	75 34.3	75 06.9	75 43.2	75 00.1	75 22.9	75 22.2
18 3	W. T.	75 04.2	75 39.1	75 22.9	75 28.8	75 33.1	75 06.8	75 37.5	75 00.6	75 21.6	
18 23	T. M.	75 05.8	75 41.5	75 14.9	75 27.0	75 35.0	75 11.2	75 42.4	75 00.4	75 22.2	
19 0	T. M.	75 05.6	75 39.5	75 15.6	75 29.6	75 30.8	75 16.8	75 42.0	75 04.6	75 23.0	
19 2	W. A. S.	75 04.4	75 40.7	75 20.7	75 31.9	75 36.0	75 08.2	75 30.5	75 04.2	75 22.2	
19 3	W. A. S.	75 01.4	75 43.7	75 25.0	75 31.1	75 28.7	75 08.6	75 31.1	75 02.3	75 21.5	
November.											
17 23	W. A. S.	75 01.1	75 43.2	75 11.3	75 30.5	75 35.6	75 11.2	75 35.4	75 03.5	75 21.5	
18 0	W. A. S.	75 02.2	75 47.5	75 14.0	75 30.3	75 27.4	75 10.6	75 36.6	75 07.5	75 22.0	
18 2	W. T.	75 01.8	75 41.9	75 19.1	75 26.0	75 35.6	75 06.9	75 39.2	75 00.2	75 21.3	
18 3	W. T.	75 01.8	75 39.3	75 18.8	75 28.3	75 36.5	75 07.6	75 38.9	75 00.5	75 21.5	
18 23	W. A. S.	74 57.6	75 41.6	75 13.0	75 24.6	75 37.8	75 09.2	75 43.8	75 06.2	75 21.6	
19 0	W. A. S.	75 03.3	75 37.9	75 12.0	75 31.4	75 35.8	75 12.2	75 40.1	75 03.5	75 22.0	
19 2	T. M.	75 03.7	75 37.8	75 14.8	75 33.8	75 30.4	75 15.0	75 36.8	75 06.8	75 22.3	75 21.3
19 3	T. M.	74 56.4	75 36.0	75 19.4	75 25.4	75 30.4	75 21.4	75 42.2	75 09.0	75 22.5	
19 23	T. M.	75 05.8	75 39.8	75 08.4	75 23.2	75 30.2	75 08.8	75 39.5	75 02.6	75 19.8	
20 0	T. M.	75 06.0	75 42.2	75 12.4	75 20.0	75 30.7	75 10.6	75 41.0	74 56.4	75 20.0	
20 2	J. W.	75 01.8	75 40.1	75 22.1	75 22.8	75 32.0	75 10.6	75 38.1	74 59.9	75 20.9	
20 3	J. W.	75 02.4	75 43.3	75 15.8	75 26.5	75 32.1	75 06.5	75 40.8	74 56.0	75 20.4	
December.											
15 23	W. T.	75 02.3	75 37.8	75 20.0	75 28.8	75 30.2	75 11.8	75 37.2	75 02.0	75 21.2	
16 0	W. T.	75 02.4	75 37.2	75 16.5	75 27.8	75 31.4	75 08.0	75 38.6	75 02.2	75 20.5	
16 2	J. W.	74 58.8	75 40.2	75 24.4	75 25.6	75 22.9	75 16.2	75 35.0	74 58.6	75 20.2	
16 3	J. W.	74 59.9	75 45.0	75 22.8	75 20.5	75 28.5	75 15.8	75 41.8	74 53.8	75 21.0	
16 23	T. M.	75 05.4	75 32.4	75 27.0	75 13.4	75 27.6	75 12.2	75 41.0	75 02.2	75 20.1	
17 0	T. M.	75 02.6	75 32.8	75 26.8	75 12.0	75 27.8	75 15.6	75 39.2	75 04.0	75 20.0	
17 2	W. T.	75 10.9	75 32.1	75 30.2	75 13.4	75 09.7	75 30.8	75 27.8	75 17.9	75 21.6	75 21.2
17 3	W. T.	75 11.2	75 31.1	75 30.4	75 14.6	75 10.1	75 29.8	75 27.9	75 18.3	75 21.6	
17 23	W. A. S.	75 04.2	75 41.9	75 23.5	75 28.5	75 33.2	75 06.4	75 41.4	74 59.8	75 22.3	
18 0	W. A. S.	75 04.2	75 35.8	75 23.6	75 44.0	75 35.8	75 08.4	75 36.4	75 03.8	75 22.1	
18 2	T. M.	75 06.6	75 39.8	75 24.2	75 22.0	75 26.2	75 10.4	75 45.2	75 01.0	75 21.9	
18 3	T. M.	75 03.7	75 44.4	75 27.0	75 18.2	75 25.2	75 11.0	75 41.6	75 02.0	75 21.5	

**T O R O N T O, 1845-52.**

---

**OBSERVATIONS OF THE ABSOLUTE HORIZONTAL FORCE.**

Magnets employed I. 15 suspended 3.00 inches;															
Date.	Experiments of Deflection.						Experiments of								
	Tem- perature of Magnet.	Distances. $r, r_1, r_2, \&c.$	Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.						
				$k = .000087$	$q = .000234$				$k = .000087$	$q = .000234$					
				Sc. Div.	Therm.		Seconds.	Sc. Div.	Therm.						
1845	°	Feet.	° ' "	°	°		°		°						
January.	15	63.0	1.0 + $\frac{1}{2} l$	11 46 02	565.8	42.6	9.19293	55.0	4.8132	584.1	44.2				
		58.5	1.3 ,,	5 51 06	571.3	43.4	9.19315								
	16	58.4	1.0 ,,	11 45 20	568.4	44.5	9.19244	55.0	4.8126	569.5	44.4				
		52.8	1.3 ,,	5 50 23	564.4	44.7	9.19216								
	17	52.0	1.0 ,,	11 46 07	581.1	44.9	9.19287	48.4	4.8176	575.3	44.7				
		54.7	1.3 ,,	5 49 48	568.9	41.6	9.19146								
February.	14	56.4	1.0 + $\frac{1}{2} l$	11 44 11	592.6	35.7	9.19172	56.0	4.8185	576.2	44.6				
		57.7	1.1 ,,	9 08 27	589.8	35.6	9.19276								
		55.8	1.2 ,,	7 15 01	587.8	35.4	9.19283								
		54.3	1.3 ,,	5 50 39	583.2	35.4	9.19250								
		64.0	1.0 ,,	11 44 43	576.3	45.9	9.19314								
		60.5	1.1 ,,	9 08 30	575.6	45.2	9.19281								
	15	58.7	1.2 ,,	7 15 06	573.0	45.5	9.19295	57.0	4.8138	588.4	47.0				
		58.4	1.3 ,,	5 50 56	572.0	45.5	9.19291								
		57.7	1.0 ,,	11 44 51	579.4	44.6	9.19214								
		56.8	1.1 ,,	9 07 45	578.0	44.7	9.19218								
		55.6	1.2 ,,	7 14 29	578.0	44.7	9.19231								
		55.5	1.3 ,,	5 50 15	575.4	44.7	9.19203								
March.	14	61.5	1.0 + $\frac{1}{2} l$	11 45 12	566.5	49.4	9.19240	52.0	4.8163	566.2	49.4				
		61.3	1.1 ,,	9 08 09	561.7	49.1	9.19256								
		60.0	1.2 ,,	7 14 25	559.8	49.4	9.19230								
	15	58.3	1.3 ,,	5 50 33	563.3	49.2	9.19245					41.0	4.8176	572.9	39.2
		51.0	1.0 ,,	11 44 06	577.9	39.4	9.19160								
		50.9	1.1 ,,	9 07 24	578.2	39.3	9.19195								
55.5	1.2 ,,	7 13 52	573.7	39.4	9.19162										
48.8	1.3 ,,	5 50 09	573.5	39.4	9.19181										
April.	14	48.3	1.0 + $\frac{1}{2} l$	11 38 20	554.6	56.4	9.18805	50.1	4.8461	556.4	58.2				
		48.5	1.1 ,,	9 02 33	551.4	56.2	9.18797								
		48.5	1.2 ,,	7 10 18	540.0	56.2	9.18802								
		48.6	1.3 ,,	5 46 29	535.1	56.3	9.18725								
	15	51.3	1.0 ,,	11 37 29	556.9	59.3	9.18757					47.0	4.8467	545.9	56.7
		51.5	1.1 ,,	9 01 43	558.8	59.2	9.18835								
		51.5	1.2 ,,	7 09 49	554.8	59.2	9.18758								
		51.7	1.3 ,,	5 46 00	560.0	59.3	9.18670								
		47.0	1.0 ,,	11 36 28	550.7	54.6	9.18688								
		47.3	1.1 ,,	9 01 18	549.1	54.7	9.18696								
16	47.8	1.2 ,,	7 09 29	549.3	55.0	9.18719	46.0	4.8449	562.4	54.2					
	47.8	1.3 ,,	5 46 24	549.0	55.4	9.18716									
May.	13	68.1	1.0 + $\frac{1}{2} l$	11 36 20	541.9	69.5	9.18706	68.7	4.8485	550.3	72.5				
		68.8	1.1 ,,	9 00 49	541.1	69.6	9.18685								
		68.8	1.2 ,,	7 08 52	540.0	69.6	9.18685								
		68.8	1.3 ,,	5 45 59	539.1	69.6	9.18691								
	14	62.6	1.0 ,,	11 34 07	537.2	66.9	9.18565					58.5	4.8469	535.4	66.7
		62.8	1.1 ,,	8 59 54	535.2	66.9	9.18605								
		63.0	1.2 ,,	7 08 01	530.8	66.8	9.18592								
		62.8	1.3 ,,	5 44 56	232.4	66.8	9.18550								
		50.2	1.0 ,,	11 34 53	547.4	57.5	9.18594								
		50.5	1.1 ,,	9 00 03	548.8	57.2	0.18601								
		50.4	1.2 ,,	7 08 10	547.3	57.0	9.18590								
		50.4	1.3 ,,	5 44 54	547.2	57.0	9.18529								

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.														
	Log. Values of $m X$	$m$	$X$	Biflar.		Values of $X$	Biflar.		Biflar at 55°		Values of $X$													
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.																
0.29096	0.5520	3.5401	578.7	43.9	3.5409	579.1	42.9	542.7	3.5397	1845														
	0.5522	3.5392								15	January.													
	0.5518	3.5425								16														
0.29106	0.5517	3.5437	577.6	43.9	3.5409	579.1	42.9	542.7	3.5397	17														
	0.5516	3.5372								17														
0.29016	0.5507	3.5429	581.1	41.0	3.5409	579.1	42.9	542.7	3.5397	17														
	0.5507	3.5412								17														
0.29000	0.5514	3.5369	592.9	37.9	3.5408	585.9	42.8	547.6	3.5392	14														
	0.5514	3.5363								582.7	44.9	3.5408	585.9	42.8	547.6	3.5392	15							
	0.5513	3.5380															582.1	45.6	3.5408	585.9	42.8	547.6	3.5392	17
	0.5520	3.5389																						17
0.29086	0.5519	3.5401	582.7	44.9	3.5408	585.9	42.8	547.6	3.5392	15														
	0.5521	3.5397								582.1	45.6	3.5408	585.9	42.8	547.6	3.5392	17							
	0.5520	3.5399															17							
0.29132	0.5518	3.5448	582.1	45.6	3.5408	585.9	42.8	547.6	3.5392	17														
	0.5519	3.5447								582.1	45.6	3.5408	585.9	42.8	547.6	3.5392	17							
	0.5519	3.5441															17							
0.29132	0.5518	3.5453	582.1	45.6	3.5408	585.9	42.8	547.6	3.5392	17														
	0.5518	3.5453								17														
0.29041	0.5511	3.5400	569.3	47.0	3.5409	575.2	43.1	552.4	3.5437	14														
	0.5515	3.5395								581.1	39.2	3.5409	575.2	43.1	552.4	3.5437	15							
	0.5513	3.5404															581.1	39.2	3.5409	575.2	43.1	552.4	3.5437	15
	0.5514	3.5398																						15
0.29016	0.5508	3.5424	581.1	39.2	3.5409	575.2	43.1	552.4	3.5437	15														
	0.5510	3.5413								15														
0.29016	0.5508	3.5422	581.1	39.2	3.5409	575.2	43.1	552.4	3.5437	15														
	0.5510	3.5414								15														
0.28504	0.5453	3.5359	550.9	56.0	3.5387	554.5	55.8	559.1	3.5395	14														
	0.5453	3.5362								554.0	57.3	3.5387	554.5	55.8	559.1	3.5395	15							
	0.5453	3.5360															554.0	57.3	3.5387	554.5	55.8	559.1	3.5395	16
	0.5449	3.5391																						16
0.28493	0.5449	3.5374	554.0	57.3	3.5387	554.5	55.8	559.1	3.5395	15														
	0.5448	3.5383								558.6	54.1	3.5387	554.5	55.8	559.1	3.5395	16							
	0.5450	3.5374															16							
0.28493	0.5444	3.5410	554.0	57.3	3.5387	554.5	55.8	559.1	3.5395	15														
	0.5448	3.5416								16														
0.28526	0.5451	3.5413	558.6	54.1	3.5387	554.5	55.8	559.1	3.5395	16														
	0.5450	3.5403								16														
0.28526	0.5449	3.5404	558.6	54.1	3.5387	554.5	55.8	559.1	3.5395	16														
	0.5449	3.5404								16														
0.28462	0.5443	3.5382	543.8	69.4	3.5419	548.9	64.3	571.2	3.5411	13														
	0.5442	3.5390								546.4	66.4	3.5419	548.9	64.3	571.2	3.5411	14							
	0.5442	3.5390															546.4	66.4	3.5419	548.9	64.3	571.2	3.5411	15
	0.5442	3.5388																						15
0.2849 1	0.5436	3.5452	546.4	66.4	3.5419	548.9	64.3	571.2	3.5411	14														
	0.5439	3.5435								14														
0.2849 1	0.5438	3.5441	546.4	66.4	3.5419	548.9	64.3	571.2	3.5411	14														
	0.5435	3.5458								14														
0.28433	0.5435	3.5416	556.4	57.2	3.5419	548.9	64.3	571.2	3.5411	15														
	0.5436	3.5414								15														
0.28433	0.5429	3.5418	556.4	57.2	3.5419	548.9	64.3	571.2	3.5411	15														
	0.5431	3.5443								15														

Magnets employed I. 15 suspended 3.00 inches;																	
Date.	Experiments of Deflection.						Experiments of										
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.								
				<i>k</i> = .000087	<i>q</i> = .000234				<i>k</i> = .000087	<i>q</i> = .000234							
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.								
1845	°	Feet.	° ' "	°	°	°	°	°	°								
June.	14	62.0	1.0 + $\frac{1}{2} l$	11 34 31	552.5	68.8	9.18589	63.0	4.8489	566.3	69.2						
		61.7	1.1 ,,	9 00 16	553.7	68.0	9.18634										
		62.0	1.2 ,,	7 08 10	546.9	68.1	9.18606										
		62.0	1.3 ,,	5 45 42	544.2	68.2	9.18646										
		59.4	1.0 ,,	11 32 49	567.2	62.0	9.18479										
		59.6	1.1 ,,	8 58 05	566.4	62.0	9.18526										
	16	59.5	1.2 ,,	7 07 04	566.3	62.1	9.18510	58.0	4.8501	558.5	61.5						
		60.2	1.3 ,,	5 44 34	562.2	62.1	9.18500										
		58.3	1.0 ,,	11 32 26	569.8	59.8	9.18455										
	17	58.6	1.1 ,,	8 58 14	570.9	59.8	9.18466	58.0	4.8486	579.6	61.5						
		58.6	1.2 ,,	7 06 47	567.3	59.8	9.18460										
		58.6	1.3 ,,	5 43 46	565.1	59.8	9.18397										
July.	14	75.5	1.0 + $\frac{1}{2} l$	11 31 42	532.3	83.1	9.18430	76.6	4.8553	535.9	85.6						
		75.4	1.1 ,,	8 57 33	534.3	83.2	9.18433										
		75.5	1.2 ,,	7 06 25	535.5	82.7	9.18447										
	15	75.6	1.3 ,,	5 43 43	532.3	82.7	9.18415	72.2	4.8631	524.5	81.0						
		73.6	1.0 ,,	11 30 28	533.6	81.4	9.18362										
		73.8	1.3 ,,	5 42 47	534.9	81.4	9.18204										
	16	73.6	1.0 ,,	11 29 43	524.0	79.8	9.18305	74.3	4.8654	525.6	81.6						
		73.8	1.3 ,,	5 42 46	523.2	79.8	9.18204										
		August.	15	71.5	1.0 + $\frac{1}{2} l$	11 29 44	564.6					73.8	9.18304	69.6	4.8671	560.2	73.5
71.5	1.3 ,,			5 42 37	561.3	73.8	9.18271										
16	69.5		1.0 ,,	11 27 59	554.7	72.9	9.18193	70.6	4.8722	558.2	75.4						
	70.0		1.1 ,,	8 54 59	556.5	73.0	9.18220										
	70.3		1.2 ,,	7 04 15	554.5	73.0	9.18219										
	70.3		1.3 ,,	5 42 15	554.3	73.2	9.18221										
18	74.1	1.0 ,,	11 27 45	557.7	77.4	9.18183	70.4	4.8750	542.9	74.2							
	74.2	1.3 ,,	5 41 53	559.5	77.4	9.18182											
September.	16	60.0	1.0 + $\frac{1}{2} l$	11 15 49	578.2	62.3	9.17415	60.0	4.9172	577.3	63.0						
		60.0	1.1 ,,	8 45 11	580.1	62.4	9.17411										
		60.0	1.2 ,,	6 56 34	587.0	62.1	9.17414										
		60.0	1.3 ,,	5 35 51	579.7	61.7	9.17410										
		60.2	1.0 ,,	11 15 27	580.0	60.4	9.17392										
		60.1	1.1 ,,	8 45 08	578.8	60.8	9.17406										
	17	60.3	1.2 ,,	6 56 49	588.2	60.5	9.17441	58.0	4.9179	571.4	58.1						
		60.0	1.3 ,,	5 35 53	582.0	60.0	9.17395										
		64.4	1.0 ,,	11 15 37	560.8	65.6	9.17408										
	18	64.8	1.3 ,,	5 36 09	562.8	65.6	9.17436	62.4	4.9199	555.9	63.3						
		October.	14	55.3	1.0 + $\frac{1}{2} l$	11 21 20	586.7					57.6	9.17747	54.0	4.9027	579.4	56.8
				55.0	1.1 ,,	8 49 38	588.5					57.6	9.17767				
54.0	1.2 ,,			6 59 48	589.8	57.6	9.17743										
53.3	1.3 ,,			5 38 19	591.5	57.6	9.17701										
15	50.8	1.0 ,,	11 19 50	592.2	54.0	9.17657	50.5	4.9047	583.0	53.8							
	50.8	1.3 ,,	5 38 01	593.1	54.0	9.17658											
	46.3	1.0 ,,	11 19 45	594.1	52.2	9.17647											
16	47.8	1.3 ,,	5 38 03	594.5	52.2	9.17660	43.4	4.9020	590.3	51.6							

I. 18 Deflecting 3.67 inches.															
Vibration.	Results.				Means.			Monthly Means.		Date.					
	Log. Values of <i>m</i> X	<i>m</i>	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X				
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.							
										1845					
0.28454	0.5436	3.5427	554.9	66.3	3.5452	563.1	62.7	587.5	3.5463	14					
	0.5439	3.5409													
	0.5437	3.5419													
	0.5439	3.5403													
0.28433	0.5428	3.5463	567.0	60.7											
	0.5429	3.5418													
	0.5430	3.5450													
	0.5429	3.5454													
0.28459	0.5428	3.5485	567.3	61.1						16					
	0.5429	3.5479													
	0.5428	3.5481													
	0.5424	3.5507													
0.28339	0.5418	3.5445	534.7	82.7	3.5436	535.4	81.5	595.8	3.5403	14					
	0.5419	3.5443													
	0.5420	3.5437													
	0.5418	3.5451													
0.28201	0.5405	3.5416	534.2	80.6						15					
	0.5402	3.5444													
0.28159	0.5402	3.5423	537.3	81.3						16					
	0.5402	3.5427													
0.28128	0.5398	3.5411	556.5	71.3						3.5408	553.2	73.6	602.3	3.5405	15
	0.5396	3.5424													
	0.5385	3.5415													
0.28028	0.5387	3.5404	553.2	73.7											16
	0.5387	3.5404													
	0.5387	3.5403													
0.27987	0.5381	3.5402	549.9	75.7	18										
	0.5381	3.5403													
0.27240	0.5289	3.5416	579.7	61.2	3.5403	573.1	62.6	593.0	3.5402						16
	0.5289	3.5417													
0.27267	0.5289	3.5415	573.0	61.1											17
	0.5282	3.5425													
0.27226	0.5284	3.5403	573.0	61.1						18					
	0.5285	3.5397													
0.27170	0.5288	3.5382	566.7	65.4						17					
	0.5291	3.5401													
0.27192	0.5285	3.5394	566.7	65.4						18					
	0.5287	3.5382													
0.27495	0.5324	3.5379	590.0	56.4						3.5398	593.2	53.7	594.2	3.5412	14
	0.5326	3.5371													
	0.5325	3.5381													
	0.5322	3.5398													
0.27461	0.5318	3.5406	594.7	52.6	15										
	0.5318	3.5405													
0.27478	0.5320	3.5425	594.9	52.0	16										
	0.5320	3.5425													
0.27508	0.5321	3.5420													



Magnets employed I. 15 suspended 3.00 inches;											
Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances. $r, r_1, r_2, \&c.$	Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				$k = .000087$	$q = .000234$				$k = .000087$	$q = .000234$	
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.		
1845	o	Fret.	o	i	ii		o			o	
November.	13	47.8	1.0 + 1/2 l	11 19 13	595.2	54.0	9.17621	48.8	4.9053	603.7	54.8
		48.0	1.3 ,,	5 37 25	594.8	54.0	9.17574				
	14	47.8	1.0 ,,	11 17 09	592.0	54.1	9.17489	48.0	4.9118	603.8	55.1
		48.0	1.3 ,,	5 36 42	590.8	54.2	9.17492				
	15	46.2	1.0 ,,	11 17 29	586.8	54.2	9.17513	46.4	4.9141	594.3	54.6
		46.0	1.3 ,,	5 37 07	586.0	54.5	9.17547				
December.	15	38.8	1.0 + 1/2 l	11 09 29	596.7	45.5	9.16985	36.5	4.9427	601.6	45.3
		37.8	1.3 ,,	5 32 55	587.7	45.5	9.17005				
	16	48.2	1.0 ,,	11 08 24	598.8	45.4	9.16927	53.0	4.9488	607.4	46.3
		59.3	1.3 ,,	5 33 00	598.8	45.0	9.17021				
	17	48.4	1.0 ,,	10 45 42	603.2	45.9	9.15450	51.8	5.0321	602.9	46.5
		48.7	1.1 ,,	8 21 26	602.6	45.8	9.15405				
	18	49.0	1.3 ,,	5 20 50	601.5	45.9	9.15398	38.8	5.0171	597.1	49.6
		39.8	1.0 ,,	10 45 16	597.3	49.5	9.15431				
39.8	1.2 ,,	6 38 14	595.0	49.4	9.15468						
1846											
January.	14	65.8	1.0 + 1/2 l	10 50 52	606.1	44.4	9.15809	68.0	4.9980	607.4	42.5
		64.7	1.1 ,,	8 25 44	606.7	44.9	9.15779				
	15	65.3	1.3 ,,	5 23 16	606.8	44.2	9.15745	57.0	5.0187	601.3	47.9
		56.2	1.0 ,,	10 48 32	613.1	48.3	9.15643				
	16	59.1	1.2 ,,	6 39 50	612.5	48.3	9.15644	48.0	5.0130	615.3	46.8
		59.2	1.3 ,,	5 22 51	612.5	48.2	9.15681				
	17	47.2	1.3 ,,	5 22 58	609.1	39.0	9.15614	50.7	5.0160	610.7	50.5
		44.5	1.0 ,,	10 49 54	603.5	39.0	9.15718				
22	45.0	1.1 ,,	8 24 35	605.0	39.0	9.15666	37.2	5.0227	601.2	49.0	
	49.5	1.0 ,,	10 48 22	617.3	37.1	9.15623					
February.	14	57.9	1.0 + 1/2 l	10 52 06	614.5	45.8	9.15883	63.0	5.0149	608.0	43.4
		55.6	1.1 ,,	8 27 27	611.6	45.9	9.15909				
	16	53.2	1.2 ,,	6 42 43	612.4	46.4	9.15946	54.0	5.0142	615.4	47.5
		54.9	1.3 ,,	5 24 10	608.6	45.7	9.15852				
	17	58.2	1.0 ,,	10 51 47	604.0	44.6	9.15858	44.0	5.0145	613.2	43.7
		58.3	1.1 ,,	8 26 02	607.0	44.5	9.15808				
	17	57.0	1.2 ,,	6 41 53	608.6	45.0	9.15861	53.5	5.0162	605.6	44.5
		59.0	1.0 ,,	10 50 44	605.6	47.2	9.15791				
59.9	1.1 ,,	8 25 34	605.0	47.0	9.15770	52.0	5.0171	605.1	46.2		
										62.0	5.0173
March.	14	41.8	1.0 + 1/2 l	10 43 22	583.8	54.1	9.15281	41.8	5.0514	564.4	54.0
		41.7	1.1 ,,	8 20 22	577.1	54.1	9.15269				
	16	42.7	1.0 ,,	10 43 42	588.7	47.2	9.15304	42.2	5.0483	592.0	54.4
		46.1	1.1 ,,	8 20 22	585.4	47.1	9.15277				
	17	46.8	1.2 ,,	6 36 55	582.4	47.0	9.15310	35.0	5.0463	594.3	46.1
		55.0	1.0 ,,	10 38 57	590.3	45.3	9.15002				
	18	55.6	1.1 ,,	8 16 44	586.3	45.2	9.15003	48.0	5.0444	602.1	47.9
		55.3	1.3 ,,	5 17 47	589.9	45.0	9.14992				
18	54.0	1.0 ,,	10 38 36	590.2	48.4	9.14977	40.0	5.0438	594.9	43.4	
	53.0	1.1 ,,	8 16 51	589.3	48.5	9.15011					
April.	15	67.8	1.0 + 1/2 l	10 34 37	589.2	49.5	9.14704	58.5	5.0623	607.7	47.4
		67.9	1.1 ,,	8 13 34	586.4	49.6	9.14722				
	17	67.7	1.2 ,,	6 31 07	586.2	49.6	9.14679	44.6	5.0601	588.1	47.2
		62.0	1.0 ,,	10 34 24	579.9	55.0	9.14696				
	18	62.7	1.1 ,,	8 13 18	580.6	55.3	9.14704	50.0	5.0604	606.2	51.6
		63.2	1.2 ,,	6 31 26	582.3	55.4	9.14719				
	18	49.4	1.0 ,,	10 34 54	570.7	56.1	9.14730	61.2	5.0785	589.6	49.5
		49.5	1.2 ,,	6 31 44	569.1	56.1	9.14755				
							60.3	5.0806	599.7	50.1	
							52.0	5.0791	580.8	53.0	
							61.5	5.0812	605.1	56.8	
							47.5	5.0828	570.8	55.4	
							49.8	5.0820	579.1	56.6	

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.					
	Log. Values of m X	m	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X				
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.							
										1845					
0.27450	0.5314	3.5412	600.1	54.0	3.5394	599.2	53.8	588.0	3.5370	13					
	0.5312	3.5427													
0.27235	0.5293	3.5378	598.8	54.2										15	
	0.5293	3.5376													
0.27294	0.5298	3.5393	598.7	53.3											
	0.5300	3.5379													
0.26790	0.5235	3.5403	607.4	43.9	3.5415	606.9	46.1	578.5	3.5401	15					
	0.5237	3.5396													
0.26684	0.5226	3.5383	607.9	45.2											
	0.5231	3.5345													
0.25223	0.5052	3.5389	607.3	47.9											
	0.5049	3.5407													
0.25493	0.5049	3.5410	604.9	47.5											
	0.5066	3.5057									18				
	0.5068	3.5492													
										1846					
0.25823	0.5096	3.5413	609.3	45.7	3.5411	615.7	42.3	584.4	3.5419	14					
	0.5094	3.5425													
0.25457	0.5092	3.5439	611.7	49.5											
0.25554	0.5080	3.5435													
0.25502	0.5080	3.5435	616.7	36.5											
	0.5083	3.5419													
0.25378	0.5074	3.5405	616.7	36.5											
	0.5080	3.5363									17				
0.25426	0.5077	3.5384	625.0	37.5											
0.25399	0.5072	3.5390									22				
	0.5099	3.5359	609.7	44.5	3.5346	609.5	44.8	580.7	3.5341						
0.25628	0.5099	3.5347													
0.25535	0.5102	3.5333	609.0	44.0											
	0.5096	3.5371													
0.25424	0.5089	3.5321	609.9	45.8											
0.25462	0.5086	3.5341													
0.25484	0.5090	3.5318	609.9	45.8	3.5377	595.0	48.9	588.4	3.5406						
0.25485	0.5087	3.5359													
	0.5086	3.5366	588.2	51.7											
0.24856	0.5025	3.5331													
0.24939	0.5024	3.5336	598.2	46.8						3.5377	595.0	48.9	588.4	3.5406	
0.24978	0.5031	3.5356													
0.25009	0.5029	3.5366	594.3	46.6											
	0.5031	3.5343													
0.25015	0.5005	3.5426	594.3	46.6											
	0.5005	3.5420													
0.24712	0.5005	3.5433	599.3	50.6											
0.24738	0.4996	3.5385									18				
0.24743	0.4998	3.5372	594.8	49.8	3.5357	591.6	52.7	591.8	3.5376						
0.24432	0.4962	3.5363													
	0.4963	3.5356	592.4	54.9											
0.24395	0.4961	3.5373													
0.24417	0.4961	3.5362	592.4	54.9											
	0.4961	3.5399													
0.24386	0.4962	3.5353	587.6	53.5											
0.24351	0.4960	3.5331									81				
0.24367	0.4962	3.5320													

Magnets employed I. 15 suspended 3.00 inches ;										
Date.	Experiments of Deflection.						Experiments of			
	Tem- perature of Magnet.	Distances. $r, r_1, r_2, \&c.$	Angles. $u, v, w, \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observations.	Bifilar Magnetometer.		Log Values of $\frac{m}{\bar{x}}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.	
				$k = .000087$	$q = .000234$				$k = .000087$	$q = .000234$
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.	
1846	°	Feet.	° ' "	°	°		°		°	
May.	56.8	1.0 + $\frac{1}{2} l$	10 33 57	574.0	59.6	9.14666	49.5	5.0817	567.6	57.8
	57.0	1.1 ,,	8 12 54	572.3	59.7	9.14672	57.1	5.0834	598.4	62.9
	57.1	1.2 ,,	6 30 56	571.3	59.7	9.14667				
	59.5	1.0 ,,	10 34 07	563.0	65.5	9.14682	55.5	5.0839	553.1	63.7
	59.3	1.1 ,,	8 13 15	556.8	65.5	9.14705				
	59.3	1.2 ,,	6 30 58	558.8	65.6	9.14674	58.5	5.0842	583.6	66.8
58.5	1.0 ,,	10 33 58	574.8	63.2	9.14671	51.2	5.0827	568.0	61.5	
58.5	1.2 ,,	6 30 56	574.4	63.2	9.14668	56.8	5.0828	589.0	64.8	
June.	65.5	1.0 + $\frac{1}{2} l$	10 31 44	567.3	71.3	9.14528	61.5	5.0861	561.6	71.0
	65.7	1.2 ,,	6 29 44	569.2	71.3	9.14544	63.0	5.0847	575.4	71.5
	64.8	1.0 ,,	10 32 08	563.0	70.3	9.14555	61.1	5.0854	563.4	69.5
	65.3	1.2 ,,	6 29 33	559.6	70.4	9.14525	63.6	5.0859	587.1	72.5
	67.0	1.0 ,,	10 31 27	571.1	72.0	9.14511	62.5	5.0854	569.5	71.2
66.6	1.2 ,,	6 29 11	570.3	72.0	9.14485	64.9	5.0864	577.2	73.9	
July.	65.6	1.0 + $\frac{1}{2} l$	10 30 34	572.2	70.7	9.14448	60.9	5.0907	563.6	70.7
	65.6	1.2 ,,	6 28 53	573.5	70.7	9.14448	64.0	5.0914	589.3	70.7
	63.3	1.0 ,,	10 31 03	580.4	66.7	9.14479	60.9	5.0936	569.4	66.3
	63.8	1.2 ,,	6 29 14	578.3	66.7	9.14486	62.4	5.0907	585.4	67.0
	65.4	1.0 ,,	10 28 58	580.1	66.4	9.14340	62.7	5.0936	566.5	66.0
	65.7	1.2 ,,	6 29 20	578.5	66.4	9.14500	64.6	5.0899	587.1	67.2
August.	75.0	1.0 + $\frac{1}{2} l$	10 29 33	566.5	77.7	9.14392	70.7	5.1016	546.0	75.9
	75.4	1.1 ,,	8 09 10	567.3	77.7	9.14368	73.2	5.1016	591.0	78.5
	75.6	1.2 ,,	6 28 11	565.5	77.7	9.14385				
	73.7	1.0 ,,	10 29 20	559.3	77.2	9.14375	70.6	5.1034	535.0	76.8
	73.9	1.1 ,,	8 09 11	563.3	77.3	9.14366	72.7	5.1026	560.5	78.2
	74.1	1.2 ,,	6 27 57	566.2	77.3	9.14356				
	74.1	1.0 ,,	10 29 47	556.7	77.4	9.14405	70.3	5.1029	554.4	76.3
	74.5	1.1 ,,	8 09 26	554.9	77.3	9.14388	73.0	5.1051	583.2	79.6
	74.5	1.2 ,,	6 28 12	555.6	77.3	9.14384				
September.	75.7	1.0 + $\frac{1}{2} l$	10 27 22	554.0	77.9	9.14243	72.0	5.1141	550.4	76.2
	75.8	1.1 ,,	8 07 52	551.8	77.9	9.14252	75.0	5.1148	575.9	79.9
	76.0	1.2 ,,	6 26 53	550.4	77.8	9.14242				
	66.3	1.0 ,,	10 27 08	566.7	72.5	9.14215	66.8	5.1120	559.0	73.0
	66.4	1.1 ,,	8 07 42	566.0	72.4	9.14226	65.1	5.1104	588.3	72.3
	66.5	1.2 ,,	6 27 11	566.0	72.4	9.14262				
	66.1	1.0 ,,	10 27 22	585.5	68.1	9.14231	63.9	5.1114	583.4	67.8
	66.3	1.1 ,,	8 07 39	585.0	68.2	9.14222	65.1	5.1106	593.7	68.7
	66.4	1.2 ,,	6 26 55	586.2	68.2	9.14232				
October.	59.9	1.0 + $\frac{1}{2} l$	10 26 36	590.3	60.9	9.14171	55.6	5.1160	596.3	59.8
	60.3	1.1 ,,	8 06 54	594.0	60.9	9.14148				
	60.4	1.2 ,,	6 26 29	591.1	60.9	9.14177	58.5	5.1180	596.4	63.2
	58.2	1.0 ,,	10 27 08	587.0	60.7	9.14205	56.6	5.1179	584.6	60.7
	58.7	1.1 ,,	8 07 26	588.7	60.7	9.14192	55.2	5.1159	601.4	59.0
	58.9	1.2 ,,	6 26 40	588.7	60.7	9.14195				
	55.3	1.0 ,,	10 26 29	601.1	57.8	9.14157	52.2	5.1158	597.5	57.1
	55.8	1.1 ,,	8 06 53	601.1	57.9	9.14147	53.3	5.1168	606.8	58.6
	56.0	1.2 ,,	6 26 15	599.9	58.0	9.14144				

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log Values of $m X$	$m$	$X$	Bifilar.		Values of $X$	Bifilar.		Bifilar at 55°		Values of $X$
				Mean reading on day of observation.	Tem- perature.		Sc. Div.	Tem- perature.			
										1846	
0.24371	0.4954	3.5357	577.9	61.4	3.5349	576.7	63.4	602.1	3.5357	13	
0.24346	0.4957	3.5354		65.2						14	
0.24337	0.4956	3.5340	581.6	63.6						16	
0.24333	0.4957	3.5330									
0.24356	0.4955	3.5344									
	0.4956	3.5354									
	0.4956	3.5354									
0.24315	0.4945	3.5395	577.8	70.4	3.5395	574.3	71.6	613.5	3.5379	16	
0.24315	0.4946	3.5389	574.6	71.5						17	
0.24310	0.4947	3.5382									570.6
0.24310	0.4945	3.5395									
0.24307	0.4944	3.5399									
0.24307	0.4942	3.5409									
0.24218	0.4935	3.5388	578.9	69.0	3.5383	582.1	67.2	622.8	3.5407	14	
	0.4935	3.5388	584.6	66.3						15	
0.24199	0.4936	3.5368									582.7
	0.4937	3.5365									
	0.4929	3.5428									
0.24208	0.4938	3.5363									
0.24045	0.4922	3.5340	563.6	77.0	3.5336	563.4	76.7	624.5	3.5344	13	
	0.4921	3.5350								562.5	76.8
	0.4922	3.5343	564.2	76.4							
0.24020	0.4920	3.5337									
	0.4919	3.5341									
	0.4919	3.5346									
0.24004	0.4921	3.5318									
	0.4920	3.5325									
	0.4920	3.5327									
0.23827	0.4901	3.5313	564.7	77.6	3.5329	577.7	72.1	621.2	3.5322	14	
	0.4901	3.5309								579.8	71.0
	0.4901	3.5313	588.6	67.6							
0.23872	0.4902	3.5343									
	0.4903	3.5338									
	0.4905	3.5323									
	0.4904	3.5339									
0.23880	0.4903	3.5343									
	0.4904	3.5339									
0.23774	0.4895	3.5320	597.3	61.5	3.5322	600.5	59.1	606.9	3.5308	12	
	0.4894	3.5329								598.3	58.5
	0.4895	3.5318	605.9	57.3							
0.23775	0.4897	3.5307									
	0.4896	3.5312									
	0.4896	3.5311									
	0.4895	3.5330									
0.23784	0.4894	3.5333									
	0.4894	3.5335									

Magnets employed I. 15 suspended 3.00 inches;

Date.	Experiments of Deflection.						Experiments of					
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.			
				<i>k</i> =·000087	<i>q</i> =·000234				<i>k</i> =·000087	<i>q</i> =·000234		
				Sc. Div.	Therm.				Sc. Div.	Therm.		
	Feet.	° ' "	°	°		Seconds.	°					
1846 November.	63.3	1.0 + $\frac{1}{2} l$	10 24 53	606.7	54.5	9.14057	64.7	5.1177	614.6	56.1		
	62.7	1.1 ,,	8 06 23	606.6	57.2	9.13925						
	63.3	1.2 ,,	6 25 42	606.6	55.7	9.14103						
	17	53.2	1.0 ,,	10 27 28	615.1	57.8	9.14221	52.7	5.1148	611.7	56.4	
		53.7	1.1 ,,	8 07 13	619.8	56.7	9.14166					
		53.8	1.2 ,,	6 27 40	620.3	56.7	9.14299					
		53.6	1.0 ,,	10 29 13	593.6	58.7	9.14335					
		18	54.1	1.2 ,,	6 26 23	593.6	58.7					9.14156
1846 December.	61.5	1.0 + $\frac{1}{2} l$	10 24 12	641.5	37.7	9.14008	40.0	5.1224	637.9	36.0		
	69.0	1.1 ,,	8 05 52	640.3	37.2	9.14077						
	68.0	1.2 ,,	6 25 37	639.7	37.0	9.14088						
	16	49.3	1.0 ,,	10 24 27	638.8	40.5	9.14009	33.5	5.1183	608.2	39.0	
		54.1	1.1 ,,	8 05 42	639.7	40.8	9.14032					
		54.2	1.2 ,,	6 24 47	639.8	40.8	9.13977					
		17	56.0	1.0 ,,	10 24 50	638.4	42.8					9.14033
			58.2	1.1 ,,	8 05 21	637.8	42.9					9.14009
1847 January.	63.8	1.0 + $\frac{1}{2} l$	10 23 05	635.9	40.8	9.13935	56.6	5.1272	633.3	39.6		
	53.8	1.1 ,,	8 03 46	643.0	41.7	9.13862						
	48.9	1.0 ,,	10 22 56	636.1	35.5	9.13904						
	19	48.7	1.1 ,,	8 04 23	641.4	35.6	9.13909	48.4	5.1223	649.4	35.7	
		49.6	1.2 ,,	6 23 31	647.0	35.7	9.13829					
		53.4	1.0 ,,	10 23 09	647.3	35.7	9.13924					
		52.8	1.1 ,,	8 03 55	651.9	36.2	9.13873					
		55.0	1.2 ,,	6 24 33	650.0	36.7	9.13950					
		57.5	1.0 ,,	10 23 00	631.6	35.7	9.13921					
	21	53.4	1.1 ,,	8 04 56	635.3	36.8	9.13965					
	1847 February.	55.6	1.0 + $\frac{1}{2} l$	10 22 32	639.5	42.8	9.13885	53.9	5.1292	637.8	42.6	
51.1		1.1 ,,	8 04 09	644.2	43.0	9.13891						
66.1		1.0 ,,	10 22 20	640.6	36.4	9.13885						
16		54.7	1.1 ,,	8 03 53	646.4	37.1	9.13873	51.0	5.1314	635.9	36.1	
		45.4	1.2 ,,	6 24 20	648.8	38.7	9.13919					
		17	54.0	1.0 ,,	10 23 04	642.3	45.4					9.13920
		18	41.5	1.0 ,,	10 22 30	642.2	43.7					9.13865
19		62.0	1.0 ,,	10 22 37	633.2	46.8	9.13901					
		54.0	1.1 ,,	8 03 48	636.0	47.3	9.13867					
1847 March.	52.5	1.0 + $\frac{1}{2} l$	10 22 50	623.4	42.6	9.13901	44.0	5.1346	618.7	41.4		
	46.2	1.1 ,,	8 06 23	638.0	42.4	9.14085						
	54.8	1.0 ,,	10 23 03	631.5	39.2	9.13919						
	16	52.4	1.1 ,,	8 04 00	644.5	41.5	9.13880	32.0	5.1273	631.7	36.9	
		50.4	1.2 ,,	6 24 17	643.5	41.7	9.13911					
		49.0	1.0 ,,	10 22 11	621.9	41.8	9.13853					
		49.9	1.1 ,,	8 06 16	642.7	43.8	9.14079					
		52.3	1.2 ,,	6 23 27	648.2	44.7	9.13825					
		59.4	1.0 ,,	10 22 40	615.7	48.6	9.13900					
	18	52.2	1.1 ,,	8 04 48	628.5	50.9	9.13951					

I. 18 Deflecting 3.67 inches.											
Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log. Values of m X	m	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X
				Mean reading on day of observation.	Tem- perature.		Sc. Div.	Tem- perature.			
										1846	
0.23767	0.4893	3.5363	615.0	56.0	3.5310	604.2	57.0	609.2	3.5309	16	
	0.4880	3.5417									
	0.4891	3.5345									
0.23759	0.4897	3.5293	597.4	57.0							
	0.4894	3.5276									
	0.4902	3.5262									
0.23705	0.4900	3.5225	600.2	58.1						17	
	0.4890	3.5299									
0.23724	0.4883	3.5366	645.7	37.7	3.5365	644.5	39.5	604.1	3.5369	15	
	0.4886	3.5338									
	0.4887	3.5333									
0.23746	0.4885	3.5374	644.8	40.1						16	
	0.4886	3.5365									
	0.4883	3.5388									
0.23754	0.4886	3.5368	642.9	40.8						17	
	0.4885	3.5386									
										1847	
0.23618	0.4872	3.5352	643.4	40.5	3.5371	645.5	36.7	600.7	3.5384	18	
0.23618	0.4869	3.5382									
0.23652	0.4874	3.5378									
0.23652	0.4874	3.5377	648.1	35.1						19	
0.23652	0.4870	3.5409									
0.23608	0.4872	3.5353									
0.23608	0.4869	3.5374	648.1	36.7						20	
0.23608	0.4874	3.5342									
0.23668	0.4875	3.5379									
0.23668	0.4878	3.5361	642.5	34.6	21						
0.23578	0.4868	3.5357	639.9	42.0	3.5354	637.8	42.9	599.4	3.5336	15	
0.23578	0.4869	3.5355									
0.23565	0.4867	3.5352									
0.23565	0.4867	3.5357	642.8	16							
0.23565	0.4870	3.5338									
0.23585	0.4870	3.5345									
0.23585	0.4870	3.5345	637.2	43.1						17	
0.23601	0.4869	3.5374									
0.23566	0.4868	3.5345									
0.23566	0.4866	3.5359	632.3	46.5	19						
0.23467	0.4865	3.5321	637.9	40.5	3.5319	635.3	42.5	600.2	3.5315	15	
0.23543	0.4876	3.5247									
0.23585	0.4866	3.5273									
0.23585	0.4867	3.5355	640.8	39.0						16	
0.23550	0.4869	3.5341									
0.23500	0.4864	3.5349									
0.23554	0.4877	3.5257	640.0	42.4						17	
0.23554	0.4862	3.5355									
0.23575	0.4869	3.5356									
0.23608	0.4872	3.5335	622.5	48.0	18						

Magnets employed I. 15 suspended 3.00 inches;

Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances. $r, r_1, r_2, \&c.$	Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				$k = .000087$	$q = .000234$				$k = .000087$	$q = .000234$	
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.		
1847	°	Feet.	° ' "	°	°	°	°	°	°		
April.	49.6	1.0 + $\frac{1}{2} l$	10 23 18	601.9	53.0	9.13930	42.1	5.1347	596.8	53.0	
	47.9	1.1 ,,	8 04 41	615.0	53.6	9.13934	45.0	5.1316	630.4	54.7	
	47.0	1.2 ,,	6 24 20	622.5	54.3	9.13918					
	51.8	1.0 ,,	10 23 15	587.0	49.8	9.13930					
	60.2	1.1 ,,	8 03 37	601.6	50.2	9.13969	44.2	5.1350	583.5	49.7	
	63.4	1.2 ,,	6 24 03	625.9	51.3	9.13906	59.3	5.1325	624.4	52.0	
	57.5	1.0 ,,	10 25 12	598.8	48.8	9.14072					
	52.5	1.1 ,,	8 05 49	611.2	48.6	9.14041	57.0	5.1360	591.9	48.8	
	49.2	1.2 ,,	6 25 09	626.0	48.2	9.14010	49.5	5.1328	629.0	48.6	
	47.7	1.0 ,,	10 24 16	629.6	44.4	9.13995	41.9	5.1345	625.0	43.4	
	May.	56.0	1.0 + $\frac{1}{2} l$	10 22 38	594.4	64.2	9.13802	56.0	5.1348	577.0	63.7
		57.4	1.1 ,,	8 04 28	611.4	65.4	9.13927	59.1	5.1276	613.5	67.1
59.2		1.2 ,,	6 23 53	619.9	66.8	9.13882					
56.0		1.0 ,,	10 23 30	573.7	62.8	9.13953	51.2	5.1337	588.4	60.5	
57.0		1.1 ,,	8 04 33	584.4	63.4	9.13935	55.2	5.1380	598.7	65.4	
57.2		1.2 ,,	6 24 20	605.6	64.4	9.13930					
58.0		1.0 ,,	10 22 48	603.4	66.4	9.13906	53.4	5.1293	596.4	62.6	
56.0		1.0 ,,	10 22 39	590.5	64.0	9.13894	56.8	5.1337	602.5	67.0*	
57.1		1.1 ,,	8 04 21	610.3	64.6	9.13917	54.0	5.1334	587.7	63.3	
57.5		1.2 ,,	6 23 13	611.9	65.0	9.13825	54.7	5.1324	598.6	63.2	
June.	51.5	1.0 + $\frac{1}{2} l$	10 23 23	620.4	54.3	9.13869	48.0	—	612.0	53.7	
	53.5	1.1 ,,	8 04 17	623.2	56.1	9.13906	55.7	5.1306	620.5	59.5	
	55.7	1.2 ,,	6 24 35	625.0	58.3	9.13958					
	57.5	1.0 ,,	10 22 07	603.2	60.7	9.13860					
	58.0	1.1 ,,	8 03 42	620.9	61.3	9.13859	54.0	5.1374	597.2	62.1	
	57.8	1.2 ,,	6 23 38	625.2	62.0	9.13853	57.5	5.1308	633.0	62.2	
	58.9	1.0 ,,	10 22 34	600.9	61.4	9.13893					
	59.8	1.1 ,,	8 04 05	602.0	61.5	9.13898	56.0	5.1305	596.6	60.7	
	60.3	1.2 ,,	6 23 57	620.1	63.1	9.13890	60.0	5.1351	623.2	63.7	
	61.7	1.0 ,,	10 22 21	597.7	64.0	9.13880	58.0	5.1316	593.5	63.3	
	62.0	1.1 ,,	8 03 45	608.5	64.7	9.13870	62.0	5.1280	624.4	65.4	
	July.	72.1	1.0 + $\frac{1}{2} l$	10 23 52	584.3	73.9	9.13999	69.1	5.1441	572.0	73.8
71.0		1.1 ,,	8 02 50	595.4	74.0	9.13800	68.7	5.1376	577.3	73.9	
72.0		1.2 ,,	6 23 32	602.5	73.8	9.13859	70.0	5.1347	594.5	73.1	
73.4		1.0 ,,	10 21 14	583.4	71.8	9.13821	68.2	5.1378	569.9	70.3	
73.9		1.1 ,,	8 03 06	591.6	73.4	9.13828	68.2	5.1399	573.1	71.1	
76.0		1.2 ,,	6 22 57	598.7	74.5	9.13799	75.3	5.1383	601.0	74.6	
78.1		1.0 ,,	10 20 52	582.0	75.7	9.13799	72.0	5.1390	576.5	74.7	
80.5		1.1 ,,	8 03 03	585.4	76.4	9.13832					
78.9		1.0 ,,	10 20 48	594.5	77.8	9.13795	79.0	5.1435	597.8	78.1	
80.0		1.1 ,,	8 02 32	593.4	78.2	9.13785					
August.		73.7	1.0 + $\frac{1}{2} l$	10 18 41	583.5	76.5	9.13643	71.5	5.1404	572.0	77.7
		74.0	1.1 ,,	8 01 31	574.1	76.4	9.13685				
	74.0	1.2 ,,	6 21 23	602.6	76.5	9.13611	71.5	5.1423	599.1	76.0	
	67.5	1.0 ,,	10 19 12	586.2	70.0	9.13670	66.3	5.1403	600.2	69.7	
	68.0	1.1 ,,	8 01 46	586.3	70.0	9.13701					
	68.0	1.2 ,,	6 21 42	591.8	70.1	9.13646	68.2	5.1423	606.8	70.7	
	68.1	1.3 ,,	5 08 12	607.4	70.4	9.13682					
	62.0	1.0 ,,	10 19 04	599.3	65.1	9.13654	61.5	5.1427	600.0	64.6	
	64.0	1.1 ,,	8 01 20	605.6	65.4	9.13657	64.0	5.1448	612.4	67.0	
	64.0	1.2 ,,	6 20 59	618.6	66.2	9.13562					

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.						
	Log. Values of <i>m</i> X	<i>m</i>	X	Biflar.		Values of X	Biflar.		Biflar at 55°		Values of X					
				Mean reading on day of observation.	Tem- perature.		Sc. Div.	Tem- perature.								
										1847						
0.23465	0.4866	3.5303	610.1	52.5	3.5284	614.5	49.2	607.0	3.5308	14	April.					
0.23519	0.4867	3.5301														
	0.4867	3.5308														
	0.4866	3.5303														
0.23462	0.4867	3.5286	613.6	49.3												
0.23512	0.4864	3.5311														
	0.4872	3.5240														
0.23451	0.4870	3.5252	616.2	48.2												
0.23501	0.4869	3.5265														
0.23469	0.4869	3.5267	618.1	46.9												
	0.4863	3.5318	601.5	63.7						3.5315	597.2	63.6	621.9	3.5320	15	May.
0.23471	0.4865	3.5304														
0.23509	0.4863	3.5322														
	0.4867	3.5292														
0.23487	0.4865	3.5300	592.3	63.2												
0.23416	0.4865	3.5301														
0.23524	0.4865	3.5319	596.2	64.5												
0.23492	0.4864	3.5325	598.8	63.1												
0.23504	0.4866	3.5316														
0.23512	0.4861	3.5357														
	0.4865	3.5349	617.4	57.0	3.5334	611.9	60.5	632.1	3.5350						15	June.
0.23543	0.4867	3.5334														
	0.4870	3.5312														
	0.4861	3.5329														
0.23427	0.4861	3.5329	614.3	60.1												
0.23540	0.4862	3.5341														
	0.4864	3.5324														
0.23544	0.4864	3.5322	609.5	61.6												
0.23469	0.4864	3.5325														
0.23526	0.4866	3.5349	606.5	63.2												
0.23592	0.4866	3.5355														
0.23323	0.4867	3.5261	584.6	72.0						3.5310	587.2	73.2	640.4	3.5323	14	July.
0.23432	0.4856	3.5334														
0.23482	0.4860	3.5318														
0.23429	0.4855	3.5318														
0.23393	0.4856	3.5315	588.7	72.0												
0.23424	0.4854	3.5326														
0.23410	0.4851	3.5309														
	0.4853	3.5291	588.2	75.5												
0.23337	0.4851	3.5309														
	0.4850	3.5315														
0.23386	0.4842	3.5370	596.9	74.8	3.5362	602.4	69.5	638.1	3.5352						17	August.
0.23348	0.4844	3.5353														
0.23385	0.4840	3.5382														
	0.4844	3.5359														
	0.4846	3.5346														
0.23352	0.4843	3.5369	601.1	68.3												
	0.4845	3.5354														
0.23341	0.4841	3.5352														
0.23308	0.4842	3.5346	609.3	65.4												
	0.4834	3.5385														



Magnets employed I. 15 suspended 3.00 inches;

Date.	Experiments of Deflection.						Experiments of									
	Tem- perature of Magnet.	Distances. $r, r_1, r_2, \&c.$	Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and mean Bifilar reading on the day of observation.	Bifilar Magnetometer.							
				$k = .000087$	$q = .000234$				$k = .000087$	$q = .000234$						
				Sc. Div.	Therm.				Sc. Div.	Therm.						
	Feet.	° ' "	°	°		Seconds.	°									
1847 September.	15	57.8	1.0 + $\frac{1}{2} l$	10 18 32	596.4	59.1	9.13611	56.2	5.1519	594.0	58.6					
		59.9	1.1 ,,	8 00 59	611.9	60.7	9.13619		60.6	5.1512	618.2	62.4				
		60.3	1.2 ,,	6 21 15	617.2	61.5	9.13592		58.2	5.1575	591.9	60.9				
	59.9	1.0 ,,	10 19 16	588.7	61.5	9.13663										
	60.1	1.1 ,,	8 01 26	598.2	62.0	9.13651										
	16	60.4	1.2 ,,	6 21 45	611.1	62.9	9.13652	61.2	5.1526	622.9	64.2					
		62.2	1.0 ,,	10 18 35	624.8	63.6	9.13612									
		62.4	1.0 ,,	10 19 02	584.9	63.8	9.13643									
	17	63.8	1.1 ,,	8 01 37	593.8	64.6	9.13680	61.0	5.1526	579.9	62.8					
63.8		1.2 ,,	6 41 42	601.9	65.3	9.13637										
1848 January.		16	57.0	1.0 + $\frac{1}{2} l$	10 17 44	619.3	57.3					9.13555	56.5	5.1580	601.9	54.2
	59.4		1.1 ,,	8 00 40	619.3	58.0	9.13592	57.0	5.1509	622.8	58.1					
	61.7		1.0 ,,	10 17 38	605.2	59.2	9.13548	59.8	5.1563	604.0	58.6					
	18	62.8	1.1 ,,	8 01 09	599.3	60.1	9.13637	60.8	5.1580	607.5	63.1					
		61.8	1.2 ,,	6 21 31	605.9	62.2	9.13616									
		63.2	1.0 ,,	10 17 48	607.8	62.2	9.13561									
	19	55.4	1.0 ,,	10 18 21	600.4	60.9	9.13604	53.5	5.1590	585.9	60.0					
		56.0	1.1 ,,	8 01 09	606.8	61.7	9.13641									
		60.0	1.0 ,,	10 18 01	605.9	57.2	9.13580									
20	59.1	1.1 ,,	8 00 36	608.2	58.1	9.13594	60.	5.1538	598.8	57.0						
	1847 November.	16	55.3	1.0 + $\frac{1}{2} l$	10 17 30	608.2					49.0	9.13537	45.5	5.1571	617.3	48.2
			55.5	1.1 ,,	8 00 43	608.9					50.0	9.13590		54.0	5.1581	620.3
53.7			1.2 ,,	6 20 44	628.9	51.0	9.13523	48.2	5.1586	608.6	53.6					
55.0		1.0 ,,	10 17 29	605.2	54.0	9.13534										
57.7		1.1 ,,	8 00 06	611.3	54.4	9.13537										
17		58.0	1.2 ,,	6 20 39	625.2	55.1	9.13548	57.1	5.1566	628.2	55.5					
		50.0	1.0 ,,	10 17 21	619.4	54.0	9.13519									
		50.3	1.1 ,,	7 59 28	623.1	53.8	9.13471									
18		54.4	1.2 ,,	6 21 09	630.5	54.0	9.13564	48.0	5.1574	622.6	53.7					
	1847 December.	16	43.2	1.0 + $\frac{1}{2} l$	10 16 13	636.4	39.6					9.13476	29.0	5.1585	639.5	39.4
			50.0	1.1 ,,	7 59 12	651.6	40.5					9.13445		50.4	5.1590	666.7
50.8			1.2 ,,	6 20 29	662.1	41.1	9.13487	63.3	5.1635	623.8	40.1					
66.1		1.0 ,,	10 17 11	617.2	40.7	9.13532										
60.4		1.1 ,,	8 00 40	617.4	41.5	9.13591										
18		55.1	1.2 ,,	6 20 29	627.1	42.2	9.13493	53.7	5.1663	633.7	42.8					
		48.5	1.0 ,,	10 18 11	612.4	35.9	9.13575									
		47.8	1.1 ,,	8 00 25	616.2	37.1	9.13553									
21		47.0	1.2 ,,	6 21 28	623.8	37.5	9.13592	54.9	5.1708	613.4	35.7					
	51.8	1.0 ,,	10 14 00	629.3	39.9	9.13288										
	55.1	1.1 ,,	7 56 50	640.6	40.9	9.13239										
24	47.4	1.2 ,,	6 19 45	644.3	39.3	9.13400	45.9	5.1709	629.0	37.3						
	1848 January.	17	39.3	1.0 + $\frac{1}{2} l$	10 16 51	615.1					43.7	9.13471	30.7	5.1710	610.3	43.7
			43.6	1.1 ,,	7 59 41	618.3					44.0	9.13472		44.9	5.1665	631.1
44.2			1.2 ,,	6 20 51	624.5	44.8	9.13520	43.5	5.1673	621.5	41.3					
52.7		1.0 ,,	10 17 08	618.4	40.7	9.13506										
47.4		1.1 ,,	7 59 55	625.3	41.0	9.13506										
18		40.7	1.2 ,,	6 20 45	639.4	41.8	9.13504	39.0	5.1650	644.8	41.8					
		54.1	1.0 ,,	10 16 45	626.4	38.2	9.13482									
		49.1	1.1 ,,	7 59 14	633.8	38.7	9.13448									
19		47.4	1.2 ,,	6 19 45	644.3	39.3	9.13400	56.0	5.1640	639.5	38.0					
	47.4	1.2 ,,	6 19 45	644.3	39.3	9.13400	46.0					5.1635	647.3	39.5		

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.										
	Log. Values of m X	m	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X									
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.												
										1847										
0.23185	0.4831	3.5309	613.0	59.1	3.5288	610.1	61.0	623.5	3.5280	15										
0.23188	0.4829	3.5316								16										
0.23090	0.4836	3.5271	613.0	61.0						16										
0.23175	0.4829	3.5270	604.4	63.0						3.5281	610.5	58.1	617.9	3.5278	17					
0.23174	0.4832	3.5289													18					
0.23165	0.4833	3.5274	604.4	63.0											19					
0.23080	0.4825	3.5313	613.9	55.8						3.5300	624.3	53.0	610.3	3.5274	16					
0.23200	0.4827	3.5298	609.0	60.4											3.5271	638.5	39.1	610.6	3.5315	17
0.23110	0.4823	3.5298																		609.0
0.23084	0.4827	3.5262	607.2	59.1																19
0.23061	0.4824	3.5270	611.9	57.2	3.5260	637.4	40.5	604.6	3.5279						20					
0.23105	0.4826	3.5256													611.9	57.2	21			
0.23153	0.4823	3.5278	626.3	50.6											3.5271	638.5	39.1	610.6	3.5315	24
0.23009	0.4824	3.5274																		626.3
0.23088	0.4826	3.5297	620.6	54.6																17
0.23077	0.4824	3.5275	626.0	53.8											3.5260	637.4	40.5	604.6	3.5279	18
0.23066	0.4821	3.5299								626.0	53.8	18								
0.23105	0.4822	3.5297	650.2	40.8						3.5271	638.5	39.1	610.6	3.5315						21
0.23085	0.4822	3.5293																		650.2
0.23114	0.4816	3.5310	629.3	41.5																16
0.23507	0.4816	3.5312	626.4	36.0	3.5260	637.4	40.5	604.6	3.5279	18										
0.23060	0.4815	3.5324								626.4	36.0	21								
0.22993	0.4818	3.5307	648.0	38.1						3.5271	638.5	39.1	610.6	3.5315						24
0.22940	0.4817	3.5227																		648.0
0.22864	0.4813	3.5252	627.7	43.7																3.5260
0.22859	0.4817	3.5267								627.7	43.7	18								
0.22941	0.4811	3.5192	639.3	39.1						3.5260	637.4	40.5	604.6	3.5279	18					
0.22978	0.4810	3.5200													639.3	39.1	19			
0.22847	0.4814	3.5184	645.2	38.8											3.5260	637.4	40.5	604.6	3.5279	
0.22931	0.4801	3.5348								645.2	38.8	18								
0.22916	0.4801	3.5348	627.7	43.7	3.5260	637.4	40.5	604.6	3.5279	19										
0.22953	0.4798	3.5369								627.7	43.7	17								
0.22980	0.4806	3.5245	639.3	39.1						3.5260	637.4	40.5	604.6	3.5279						
0.22980	0.4805	3.5244			639.3	39.1	19													
0.22847	0.4810	3.5226	627.7	43.7	3.5260	637.4	40.5	604.6	3.5279											17
0.22931	0.4811	3.5250																		627.7
0.22916	0.4812	3.5249	645.2	38.8																3.5260
0.22953	0.4812	3.5250			645.2	38.8	17													
0.22980	0.4812	3.5275	627.7	43.7	3.5260	637.4	40.5	604.6	3.5279						18					
0.22980	0.4811	3.5291													627.7	43.7	19			
0.22980	0.4808	3.5311	639.3	39.1											17					

Magnets employed I. 15 suspended 3.00 inches;											
Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', w', &amp;c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				<i>k</i> = .000087	<i>q</i> = .000234				<i>k</i> = .000087	<i>q</i> = .000234	
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.		
1848	°	Feet.	° ' "	°	°	°	°	°	°		
February.	55.1	1.0 + 1/2 l	10 15 53	627.4	47.6	9.13423	53.0	5.1653	638.4	49.8	
	51.7	1.1 ,,	7 59 03	632.3	48.6	9.13436					
	53.2	1.2 ,,	6 20 10	635.1	49.4	9.13454					
	44.7	1.0 ,,	10 17 06	627.8	47.4	9.13494	37.0	5.1642	630.2	46.7	
	57.2	1.1 ,,	7 58 40	632.7	48.0	9.13389					
	65.5	1.2 ,,	6 19 32	642.0	49.2	9.13398					
	52.2	1.0 ,,	10 15 31	626.1	49.2	9.13394	53.8	5.1660	622.4	48.3	
	51.7	1.1 ,,	7 58 40	638.1	50.7	9.13416					
	51.9	1.2 ,,	6 19 45	641.2	51.0	9.13405					
	43.3	1.0 ,,	10 16 42	642.1	49.4	9.13465	40.1	5.1646	634.1	48.4	
	44.0	1.1 ,,	7 59 21	639.1	50.1	9.13441					
	March.	36.0	1.0 + 1/2 l	10 15 41	628.0	43.9	9.13384	32.0	5.1636	625.2	44.1
37.1		1.1 ,,	7 58 59	639.3	44.7	9.13410					
46.2		1.2 ,,	6 19 28	642.1	44.4	9.13366					
47.7		1.0 ,,	10 16 06	645.5	41.1	9.13436	48.0	5.1610	647.2	44.7	
47.3		1.1 ,,	7 59 03	647.9	41.4	9.13429					
51.9		1.2 ,,	6 19 54	649.2	41.5	9.13421					
55.0		1.0 ,,	10 16 11	645.4	41.9	9.13445	51.6	5.1605	649.2	41.8	
51.8		1.0 ,,	10 16 46	639.2	36.0	9.13480					
46.7		1.1 ,,	7 58 58	645.0	36.1	9.13421					
April.		47.5	1.0 + 1/2 l	10 16 37	618.4	55.0	9.13465	44.8	5.1695	610.7	54.8
		49.2	1.1 ,,	7 58 48	629.2	55.8	9.13410				
		55.4	1.2 ,,	6 19 39	636.0	56.2	9.13398				
	55.6	1.0 ,,	10 15 49	614.0	50.7	9.13419	56.0	5.1622	641.0	56.3	
	54.0	1.1 ,,	7 58 45	624.3	50.5	9.13411					
	50.6	1.2 ,,	6 19 15	627.4	49.6	9.13346					
	53.5	1.0 ,,	10 15 35	627.2	48.3	9.13400	51.2	5.1653	629.9	49.5	
	54.9	1.1 ,,	7 58 55	634.0	50.3	9.13427					
	56.0	1.2 ,,	6 19 54	640.2	51.3	9.13427					
	May.	53.4	1.0 + 1/2 l	10 15 01	624.7	57.8	9.13361	50.0	5.1655	618.8	56.9
		53.7	1.1 ,,	7 58 16	635.8	58.5	9.13368				
		53.3	1.2 ,,	6 19 16	641.1	58.8	9.13353				
55.2		1.0 ,,	10 15 31	624.9	59.6	9.13398	53.0	5.1621	639.7	58.6	
56.0		1.1 ,,	7 58 40	639.7	60.2	9.13407					
55.8		1.2 ,,	6 19 10	644.6	60.4	9.13345					
56.0		1.0 ,,	10 16 30	610.4	60.6	9.13467	51.4	5.1651	614.6	58.8	
56.0		1.1 ,,	7 58 46	610.8	61.2	9.13418					
57.0		1.2 ,,	6 20 9	630.3	63.2	9.13458					
June.		72.8	1.0 + 1/2 l	10 14 26	608.4	73.0	9.13345	68.2	5.1648	607.3	69.4
		72.7	1.1 ,,	7 58 01	610.2	76.2	9.13368				
		73.3	1.2 ,,	6 19 39	608.1	78.9	9.13423				
	74.8	1.0 ,,	10 15 38	593.1	81.4	9.13432	72.2	5.1689	607.7	80.2	
	75.3	1.1 ,,	7 58 32	600.8	82.3	9.13420					
	75.8	1.2 ,,	6 19 23	600.9	83.0	9.13394					
	73.8	1.0 ,,	10 14 57	593.0	79.7	9.13382	51.2	5.1653	629.9	49.5	
	73.2	1.1 ,,	7 58 04	598.2	79.7	9.13375					
	73.7	1.2 ,,	6 19 42	601.0	80.4	9.13426					

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.						
	Log. Values of $m X$	$m$	$X$	Bifilar.		Values of $X$	Bifilar.		Bifilar at 55°		Values of $X$					
				Mean reading on day of observation.	Tem- perature.		Sc. Div.	Tem- perature.								
										1848						
0.22956	0.4808	3.5291	640.1	46.3	3.5290	637.1	47.4	607.0	3.5261	16						
	0.4809	3.5286														17
	0.4810	3.5279														18
0.22965	0.4812	3.5262	641.7	47.7											19	
0.22942	0.4806	3.5304														
	0.4805	3.5301														
0.22945	0.4806	3.5304	639.9	48.5												
0.22971	0.4808	3.5295														
	0.4807	3.5299														
0.22959	0.4811	3.5276	626.8	47.2												
0.22934	0.4810	3.5289														
0.22967	0.4807	3.5323	646.4	43.4	3.5308	648.8	39.4	611.7	3.5323	13						
	0.4808	3.5313														
0.23025	0.4807	3.5331														
	0.4812	3.5310	649.9	38.9											14	
0.22994	0.4812	3.5313														15
	0.4811	3.5316														
0.23035	0.4812	3.5306	650.2	35.9												
0.23004	0.4811	3.5267														
0.22901	0.4808	3.5291														
0.22881	0.4810	3.5270	621.7	54.7	3.5295	629.0	50.8	620.9	3.5305	17						
	0.4807	3.5293														
0.23010	0.4806	3.5298														
	0.4806	3.5287	629.2	48.6											18	
0.22926	0.4806	3.5290														19
0.22954	0.4803	3.5312														
0.23024	0.4807	3.5310	636.0	49.1												
	0.4809	3.5299														
0.22931	0.4809	3.5298														
0.22950	0.4806	3.5326	633.7	56.9	3.5319	625.8	58.8	636.3	3.5320	15						
	0.4806	3.5323														
0.23009	0.4805	3.5329														
	0.4809	3.5322	630.4	58.6											16	
0.22959	0.4810	3.5319														17
0.23035	0.4806	3.5344														
0.22910	0.4814	3.5301	613.3	60.9												
	0.4811	3.5321														
0.23138	0.4812	3.5287														
0.22972	0.4802	3.5317	607.5	74.0	3.5298	600.5	76.8	649.7	3.5270	15						
	0.4804	3.5308														
0.22907	0.4807	3.5274														
	0.4806	3.5278	595.4	79.3											16	
0.22933	0.4806	3.5283														17
0.23003	0.4804	3.5294														
0.22951	0.4806	3.5314	598.7	77.1												
	0.4806	3.5317														
0.22999	0.4808	3.5296														

Magnets employed I. 15 suspended 3.00 inches;										
Date.	Experiments of Deflection.						Experiments of			
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.	
				<i>k</i> =.000087	<i>q</i> =.000234				<i>k</i> =.000087	<i>q</i> =.000234
				Sc. Div.	Therm.				Sc. Div.	Therm.
1848	°	et.	° ' "	°	°	°	Seconds.	°	°	
July.	72.4	1.0 + 1/2 l	10 14 12	606.1	71.9	9.13330	70.0 5.1681 594.7	71.4		
	71.8	1.1 ,,	7 57 14	617.7	73.2	9.13298			72.2	75.7
	72.0	1.2 ,,	6 18 29	618.3	73.8	9.13287				
	73.2	1.0 ,,	10 14 11	595.4	74.4	9.13329	70.0 5.1602 584.9	73.4		
	74.6	1.1 ,,	7 57 00	616.2	75.6	9.13281			74.7	76.2
	75.2	1.2 ,,	6 18 58	605.0	76.1	9.13345				
	75.0	1.0 ,,	10 14 34	590.9	77.0	9.13356	70.0 5.1708 579.2	75.1		
	75.4	1.1 ,,	7 57 55	599.4	78.0	9.13365			75.0	78.7
	75.5	1.2 ,,	6 18 46	598.2	78.6	9.13324				
August.	77.8	1.0 + 1/2 l	10 10 24	598.4	79.9	9.13069	78.8 5.1902 582.8	79.1		
	77.8	1.1 ,,	7 54 35	600.2	80.3	9.13056			77.0	80.4
	77.7	1.0 ,,	10 10 08	586.6	78.2	9.13049				
	77.3	1.1 ,,	7 54 25	591.5	78.5	9.13050	73.8 5.1829 579.4	78.0		
	78.1	1.2 ,,	6 16 31	597.9	79.3	9.13068			78.0	79.5
	69.8	1.0 ,,	10 10 04	598.2	72.9	9.13035				
	70.0	1.1 ,,	7 54 22	619.8	73.0	9.13035	68.6 5.1905 583.7	73.2		
	70.2	1.2 ,,	6 16 05	605.0	72.6	9.13009			68.6	72.6
	72.5	1.0 ,,	10 10 52	596.6	73.8	9.13094				
73.0	1.1 ,,	7 54 31	606.8	74.2	9.13052	69.5 5.1877 584.0	73.3			
September.	59.1	1.0 + 1/2 l	10 09 33	602.8	59.9			9.12985	61.1 5.1952 635.3	62.2
	59.5	1.1 ,,	7 53 59	620.4	60.7			9.12986		
	61.1	1.2 ,,	6 15 54	632.9	61.4	9.12975				
	58.1	1.0 ,,	10 09 40	602.7	59.9	9.12991	59.8 5.1928 640.1	62.5		
	59.3	1.1 ,,	7 54 13	627.5	60.9	9.13008			62.2	62.7
	60.2	1.2 ,,	6 15 51	635.6	61.8	9.12969				
	63.8	1.0 ,,	10 09 47	599.0	63.1	9.13008	64.2 5.1969 624.0	64.2		
	63.9	1.1 ,,	7 54 15	610.3	63.4	9.13016			64.2	64.2
	64.2	1.2 ,,	6 15 58	625.1	63.8	9.12987				
October.	51.3	1.0 + 1/2 l	10 08 40	600.5	55.8	9.12912	46.7 5.2002 600.8	56.4		
	55.0	1.1 ,,	7 53 20	602.2	55.7	9.12920			59.7	55.3
	60.7	1.2 ,,	6 15 13	623.6	55.7	9.12894				
	56.3	1.0 ,,	10 10 05	594.4	53.9	9.13017	50.0 5.2104 589.6	53.2		
	57.9	1.1 ,,	7 54 30	609.4	54.5	9.13031			56.0	54.7
	60.1	1.0 ,,	10 08 46	600.1	53.5	9.12930				
	65.4	1.1 ,,	7 53 56	604.5	54.0	9.13033	49.7 5.2208 611.8	52.7		
	63.7	1.1 ,,	7 53 41	606.4	56.1	9.13010			56.0	55.0
	64.0	1.2 ,,	6 15 35	608.9	56.1	9.12943				
63.0	1.0 ,,	10 09 14	616.4	56.9	9.12964	58.0 5.2025 607.7	56.0			
November.	63.5	1.0 + 1/2 l	10 08 43	604.1	49.0			9.12933	61.0 5.1996 618.9	57.1
	58.0	1.1 ,,	7 53 55	648.4	50.5			9.12977		
	55.4	1.2 ,,	6 15 11	644.6	51.3	9.12886				
	51.7	1.0 ,,	10 08 27	615.9	51.3	9.12898	54.0 5.2083 621.8	51.9		
	53.9	1.1 ,,	7 53 28	626.1	51.6	9.12933			42.7	51.2
	52.4	1.2 ,,	6 15 29	632.3	51.9	9.12915				
	48.0	1.0 ,,	10 08 50	611.9	50.3	9.12919	52.0 5.2113 626.9	52.0		
	49.0	1.1 ,,	7 53 28	618.7	51.3	9.12926			46.0	49.7
	55.4	1.2 ,,	6 15 28	631.9	52.2	9.12918				

I. 18 Deflecting 3.67 inches.														
Vibration.	Results.				Means.			Monthly Means.		Date.				
	Log. Values of <i>m X</i>	<i>m</i>	<i>X</i>	Biflar.		Values of <i>X</i>	Biflar.		Biflar at 55°		Values of <i>X</i>			
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.						
										1848				
0.22918	0.4800	3.5309	604.8	72.5	3.5315	599.2	74.4	648.3	3.5306	18				
0.22900	0.4798	3.5322								19				
0.23051	0.4797	3.5327	598.7	74.2						0.22880	0.4803	3.5334	3.5327	20
0.22880	0.4800	3.5353												
0.22873	0.4803	3.5327	594.2	76.6						0.22552	0.4766	3.5279	3.5284	15
0.22867	0.4799	3.5280												
	0.4797	3.5297	588.8	79.0						0.22672	0.4770	3.5322	3.5301	16
0.22552	0.4766	3.5279												
0.22588	0.4765	3.5284	594.4	77.5						0.22641	0.4770	3.5321	3.5314	17
0.22672	0.4770	3.5322												
0.22641	0.4771	3.5314	602.0	72.3	0.22543	0.4766	3.5301	3.5311	18					
0.22543	0.4766	3.5301												
0.22636	0.4765	3.5311	601.3	72.8	0.22634	0.4768	3.5302	3.5302	15					
0.22590	0.4770	3.5285												
0.22634	0.4768	3.5302	622.5	60.3	0.22459	0.4756	3.5268	3.5267	16					
	0.4756	3.5268												
0.22459	0.4761	3.5267	624.8	60.8	0.22495	0.4755	3.5271	3.5281	19					
0.22495	0.4758	3.5281												
0.22498	0.4759	3.5272	615.4	63.5	0.22468	0.4757	3.5252	3.5289	17					
0.22468	0.4756	3.5258												
0.22432	0.4757	3.5252	622.7	54.1	0.22357	0.4746	3.5253	3.5252	19					
0.22432	0.4755	3.5263												
0.22357	0.4746	3.5253	607.4	53.8	0.22344	0.4747	3.5252	3.5261	20					
0.22344	0.4747	3.5252												
0.22198	0.4745	3.5160	616.5	54.2	0.22198	0.4745	3.5154	3.5211	21					
0.22251	0.4745	3.5154												
0.22236	0.4742	3.5211	621.9	55.4	0.22292	0.4737	3.5168	3.5217	17					
0.22292	0.4737	3.5168												
0.22334	0.4750	3.5217	625.7	50.3	0.22334	0.4748	3.5245	3.5248	19					
0.22386	0.4748	3.5245												
0.22386	0.4749	3.5248	619.8	51.0	0.22214	0.4740	3.5194	3.5175	22					
0.22214	0.4740	3.5194												
0.22236	0.4743	3.5175	620.8	51.4	0.22236	0.4738	3.5212	3.5191	23					
0.22181	0.4736	3.5191												
0.22185	0.4738	3.5177	620.8	51.4	0.22185	0.4738	3.5164	3.5169	21					
0.22165	0.4736	3.5164												
0.22165	0.4736	3.5167	619.8	51.0	0.22137	0.4736	3.5167	3.5170	22					
0.22137	0.4736	3.5170												

Magnets employed I. 15 suspended 3.00 inches;											
Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances. $r, r', r'', \&c.$	Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				$k = .000087$	$q = .000234$				$k = .000087$	$q = .000234$	
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.		
1848	°	Feet.	° ' "	°	°		°		°		
December.	19	56.4	1.0 + $\frac{1}{2} l$	10 08 28	637.3	51.2	9.12902	57.0 54.0	5.1996 5.2041	640.8 656.4	50.7 52.3
		58.4	1.1 ,,	7 52 55	642.7	51.8	9.12888				
		56.7	1.2 ,,	6 15 17	652.5	52.0	9.12898				
	20	48.5	1.0 ,,	10 09 31	640.2	45.9	9.12968	35.4 52.1	5.2046 5.1998	646.0 664.5	45.6 47.6
		55.8	1.1 ,,	7 52.51	645.9	46.7	9.12879				
		53.7	1.2 ,,	6 15.03	657.6	47.4	9.12866				
	21	45.5	1.0 ,,	10 08.21	653.9	45.6	9.12882	39.0 47.0	5.2051 5.2038	648.9 670.2	45.5 44.8
		51.4	1.1 ,,	7 53 15	659.3	45.0	9.12900				
		52.7	1.2 ,,	6 14 42	666.7	44.7	9.12825				
1849				$k = .00036$	$q = .000114$						
January.	15	56.4	1.0 + $\frac{1}{2} l$	10 07 43	364.4	38.9	9.12850	49.4 44.4	5.2099 5.2091	367.2 370.0	39.6 41.2
		56.1	1.1 ,,	7 53 04	364.8	40.3	9.12902				
		45.7	1.2 ,,	6 15 14	370.1	41.2	9.12879				
	16	48.1	1.0 ,,	10 07 12	365.6	35.3	9.12803	32.1 42.0	5.2065 5.2051	363.6 371.4	35.1 37.1
		51.7	1.1 ,,	7 51 45	367.2	36.0	9.12767				
		46.5	1.2 ,,	6 14 23	367.8	36.8	9.12782				
	17	53.0	1.0 ,,	10 07 27	365.6	39.9	9.12828	53.3 39.1	5.2028 5.2079	366.5 370.1	39.9 40.3
		47.1	1.1 ,,	7 52 15	366.3	40.7	9.12812				
		41.4	1.2 ,,	6 14 11	368.5	40.3	9.12753				
February.	17	42.4	1.0 + $\frac{1}{2} l$	10 06 40	366.5	29.4	9.12790	31.5 45.1	5.2069 5.2073	368.6 371.4	28.0 31.3
		46.9	1.1 ,,	7 51 45	367.2	30.6	9.12767				
		45.9	1.2 ,,	6 14 21	369.5	31.1	9.12778				
	19	52.5	1.0 ,,	10 06 27	362.3	28.3	9.12757	42.0 52.2	5.2118 5.2095	360.2 367.7	27.2 32.3
		54.1	1.1 ,,	7 51 44	370.5	30.3	9.12788				
		56.2	1.2 ,,	6 13 53	366.2	30.6	9.12737				
	20	48.1	1.0 ,,	10 06 56	362.7	33.2	9.12783	32.0 48.1	5.2129 5.2125	359.2 368.1	32.0 35.5
		49.5	1.1 ,,	7 52 15	366.3	34.9	6.12816				
		48.4	1.2 ,,	6 14 39	368.8	35.3	9.12816				
March.	19	48.0	1.0 + $\frac{1}{2} l$	10 6 44	364.8	43.2	9.12771	42.0 52.7	5.2034 5.2097	363.4 374.0	42.9 44.4
		51.6	1.1 ,,	7 51 36	369.6	43.9	9.12759				
		51.9	1.2 ,,	6 13 42	371.9	44.2	9.12710				
	20	58.0	1.0 ,,	10 07 13	367.0	45.4	9.12817	43.7 51.8	5.2084 5.2094	368.7 369.7	45.0 46.6
		56.6	1.1 ,,	7 51 24	367.8	45.9	9.12747				
		54.4	1.2 ,,	6 13 51	371.1	46.4	9.12729				
	21	58.6	1.0 ,,	10 06 21	361.4	49.5	9.12757	51.7 58.0	5.2066 5.2067	363.9 368.5	49.2 49.5
		52.8	1.1 ,,	7 51 51	360.8	39.9	9.12784				
		58.4	1.2 ,,	6 14 07	365.8	49.8	9.12766				
April.	19	44.0	1.0 + $\frac{1}{2} l$	10 05 37	365.0	49.6	9.12687	42.7 39.2	5.2082 5.1914	362.1 364.2	49.3 48.0
		45.1	1.1 ,,	7 51 45	366.5	49.8	9.12765				
		46.3	1.2 ,,	6 13 46	367.4	49.8	9.12712				
	20	43.0	1.0 ,,	10 05 48	367.5	48.3	9.12703	40.0 43.8	5.1899 5.2127	365.7 372.8	48.2 49.9
		43.5	1.1 ,,	7 50 51	371.3	49.2	9.12681				
		45.2	1.2 ,,	6 13 36	372.6	50.4	9.12690				
	21	44.8	1.0 ,,	10 05 44	367.9	49.2	9.12695	40.5 43.5	5.2141 5.2165	364.7 372.1	49.1 50.5
		45.7	1.1 ,,	7 50 45	368.4	49.5	9.12675				
		44.9	1.2 ,,	6 13 24	370.4	50.1	9.12665				

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.							
	Log. Values of m X	m	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X						
				Mean reading on day of observation.	Tem- perature.		Sc. Div.	Tem- perature.									
										1848							
0.22382	0.4739	3.5217	653.6	50.1	3.5248	657.6	46.5	632.5	3.5241	19							
0.22316	0.4723	3.5263								0.4745	3.5258	0.4748	3.5223	20			
0.22287	0.4743	3.5259	656.5	46.9						0.4743	3.5259	21					
0.22378	0.4732	3.5265								0.4742	3.5242	0.4743	3.5235				
0.22280	0.4743	3.5235	662.8	42.6						0.4740	3.5270						
0.22307	0.4740	3.5270															
															1849		
0.22206	0.4735	3.5222	369.1	40.2						3.5249	370.6	38.5	367.3	3.5272	15		
0.22217	0.4738	3.5201													0.4738	3.5212	0.4736
0.22252	0.4736	3.5266	371.2	36.3											0.4729	3.5280	17
0.22293	0.4729	3.5280													0.4736	3.5275	0.4737
0.22284	0.4737	3.5250	371.4	39.1											0.4736	3.5251	
0.22234	0.4736	3.5251			0.4734	3.5280											
0.22255	0.4733	3.5275	371.5	29.3	3.5246	369.7	30.8	364.1	3.5270						17		
0.22247	0.4733	3.5272													0.4734	3.5268	0.4729
0.22170	0.4731	3.5239	369.6	29.8											0.4731	3.5239	20
0.22215	0.4728	3.5260													0.4728	3.5260	0.4729
0.22146	0.4729	3.5226	368.1	33.4											0.4731	3.5213	
0.22163	0.4731	3.5213								0.4730	3.5212						
0.22310	0.4734	3.5274	368.0	43.7						3.5274	368.1	46.2	365.6	3.5277	19		
0.22212	0.4733	3.5276													0.4731	3.5298	0.4734
0.22226	0.4734	3.5239	369.0	46.2											0.4730	3.5268	21
0.22217	0.4729	3.5276													0.4729	3.5276	0.4733
0.22263	0.4733	3.5282	367.2	48.6											0.4735	3.5271	
0.22265	0.4735	3.5271			0.4734	3.5278											
0.22231	0.4735	3.5352	369.9	50.2	3.5299	370.3	49.4	368.7	3.5300						19		
0.22509	0.4739	3.5321													0.4736	3.5243	0.4734
0.22534	0.4736	3.5243	370.6	48.9											0.4733	3.5345	21
0.22156	0.4734	3.5341													0.4734	3.5341	0.4731
0.22132	0.4731	3.5245	370.4	49.2											0.4720	3.5253	
0.22092	0.4720	3.5256								0.4720	3.5256						



Magnets employed I. 15 suspended 3.00 inches;

Date.	Experiments of Deflection.						Experiments of			
	Tem- perature of Magnet.	Distances. $r, r_1, r_2, &c.$	Angles. $u, u', u'', &c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.	
				$k = .00036$	$q = .000114$				$k = .00036$	$q = .000114$
		Feet.	° ' "	Sc. Div.	Therm.		Seconds.	Sc. Div.	Therm.	
1849	°	Feet.	° ' "		°				°	
May.	57.6	1.0 + $\frac{1}{2} l$	10 05 18	366.6	59.0	9.12582	56.8	5.2057	364.6	58.7
	58.3	1.1 ,,	7 48 59	369.9	59.4	9.12529	58.2	5.2046	366.4	60.3
	59.2	1.2 ,,	6 13 06	369.3	59.9	9.12649				
	60.3	1.0 ,,	10 05 09	364.8	60.6	9.12675	57.2	5.2031	364.3	59.8
	59.7	1.1 ,,	7 50 53	363.5	61.1	9.12704				
	59.7	1.2 ,,	6 13 26	364.9	61.5	9.12691	59.6	5.2042	364.4	61.8
	60.3	1.0 ,,	10 04 06	366.0	61.1	9.12613				
61.2	1.1 ,,	7 50 01	371.7	61.2	9.12632	56.9	5.2041	360.8	60.3	
61.7	1.2 ,,	6 12 49	370.8	61.6	9.12620					
June.	74.2	1.0 + $\frac{1}{2} l$	10 03 23	367.5	70.5	9.12568	71.0	5.2088	367.0	69.0
	74.1	1.1 ,,	7 49 19	369.1	70.5	9.12579				
	74.2	1.2 ,,	6 11 36	369.3	70.5	9.12475	76.6	5.2122	367.0	72.3
	75.9	1.0 ,,	10 03 00	362.1	70.1	9.12542				
	78.4	1.1 ,,	7 48 42	367.3	73.4	9.12540	72.0	5.2043	363.5	69.3
	79.7	1.2 ,,	6 12 10	371.2	73.8	9.12570				
	79.9	1.0 ,,	10 03 08	363.8	74.3	9.12557	78.0	5.2074	366.5	74.9
81.7	1.1 ,,	7 49 28	362.5	75.9	9.12603					
83.0	1.2 ,,	6 12 59	365.0	77.8	9.12664	78.7	5.2060	364.6	76.2	
										83.0
July.	76.0	1.0 + $\frac{1}{2} l$	10 01 43	348.3	68.6	9.12453	74.5	5.2096	345.6	68.2
	77.4	1.1 ,,	7 48 19	352.0	70.3	9.12496				
	77.9	1.2 ,,	6 11 15	352.8	71.6	9.12460	76.0	5.1985	353.9	72.0
	79.1	1.0 ,,	10 01 40	350.1	71.8	9.12451				
	80.0	1.1 ,,	7 48 11	354.6	73.2	9.12483	75.0	5.2115	346.7	70.5
	80.2	1.2 ,,	6 11 46	356.9	74.5	9.12523				
	83.5	1.0 ,,	10 02 38	344.5	75.5	9.12523	79.4	5.2117	356.0	75.3
85.7	1.1 ,,	7 48 50	348.9	78.2	9.12549					
85.2	1.2 ,,	6 11 54	350.1	79.4	9.12543	78.2	5.2158	341.6	73.0	
										84.5
August.	72.0	1.0 + $\frac{1}{2} l$	10 00 24	337.0	68.6	9.12351	68.7	5.2230	335.1	68.1
	73.1	1.1 ,,	7 47 30	338.9	69.1	9.12410				
	73.8	1.2 ,,	6 10 34	339.5	69.7	9.12374	72.8	5.2206	342.2	70.2
	77.8	1.0 ,,	9 59 46	335.6	71.8	9.12314				
	76.2	1.1 ,,	7 47 37	337.7	72.5	9.12425	73.5	5.2194	334.5	71.3
	76.0	1.2 ,,	6 10 55	338.9	73.0	9.12419				
	77.8	1.0 ,,	10 00 58	335.7	73.1	9.12400	75.5	5.2191	339.8	73.2
78.0	1.1 ,,	7 47 35	337.0	73.5	9.12424					
78.1	1.2 ,,	6 11 09	340.4	74.3	9.12447	74.2	5.2227	329.9	72.4	
										77.8
September.	62.0	1.0 + $\frac{1}{2} l$	10 00 22	327.6	60.7	9.12336	58.8	5.2288	325.5	60.6
	62.0	1.1 ,,	7 47 55	330.5	60.8	9.12435				
	61.7	1.2 ,,	6 10 30	334.3	61.4	9.12353	61.7	5.2282	335.1	61.4
	64.2	1.0 ,,	9 59 48	328.8	60.5	9.12299				
	64.1	1.1 ,,	7 46 22	331.3	61.4	9.12294	60.2	5.2280	327.7	60.2
	64.2	1.2 ,,	6 10 35	334.2	62.1	9.12364				
	69.7	1.0 ,,	9 59 04	332.6	63.0	9.12254	64.0	5.2284	334.5	62.1
69.1	1.1 ,,	7 46 11	332.8	64.1	9.12283					
69.9	1.2 ,,	6 10 20	334.2	64.7	9.12342	64.8	5.2202	331.5	62.9	
										68.8

I. 18 Deflecting 3.67 inches.											
Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log. Values of $m X$	$m$	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.			
										1849	
0.22281	0.4730	3.5318	369.1	59.2	3.5345	368.4	60.2	369.6	3.5340	16	
0.22300	0.4721	3.5381									
0.22325	0.4728	3.5340									
	0.4731	3.5340									
	0.4733	3.5324									
0.22307	0.4732	3.5329									
0.22307	0.4728	3.5362									
	0.4729	3.5354									
0.23282	0.4728	3.5359									
										18	
										18	
0.22237	0.4722	3.5337	368.4	70.5	3.5358	367.0	73.0	370.2	3.5328	18	
	0.4723	3.5332									
0.22184	0.4719	3.5366									
0.22327	0.4726	3.5382									
	0.4725	3.5382									
0.22266	0.4727	3.5370									
0.22289	0.4726	3.5373									
	0.4728	3.5354									
	0.4732	3.5329									
										20	
										17	
0.22226	0.4714	3.5382	352.0	70.3	3.5353	350.8	73.2	356.2	3.5350	17	
	0.4716	3.5365									
0.22191	0.4713	3.5379									
0.22195	0.4712	3.5377									
	0.4714	3.5369									
0.22194	0.4716	3.5352									
0.22116	0.4712	3.5321									
	0.4714	3.5315									
0.22164	0.4714	3.5318									
										17	
0.22000	0.4698	3.5347	338.5	68.9	3.5334	338.2	70.8	344.4	3.5350	16	
	0.4701	3.5323									
0.22042	0.4699	3.5338									
0.22062	0.4698	3.5381									
	0.4704	3.5336									
0.22068	0.4705	3.5338									
0.22008	0.4699	3.5325									
	0.4701	3.5315									
0.22019	0.4697	3.5305									
										18	
										19	
0.21903	0.4690	3.5306	333.4	60.6	3.5320	334.0	61.7	337.3	3.5333	19	
	0.4695	3.5266									
	0.4691	3.5290									
	0.4688	3.5323									
0.21910	0.4688	3.5325									
	0.4692	3.5297									
	0.4689	3.5370									
0.21980	0.4690	3.5358									
	0.4694	3.5334									
										21	

Magnets employed I. 15 suspended 3.00 inches;

Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', w', &amp;c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempe- rature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				<i>k</i> = .00036	<i>q</i> = .000114				<i>k</i> = .00036	<i>q</i> = .000114	
				Sc. Div.	Therm.				Sc. Div.	Therm.	
1849	°	Feet.	° ' "	°	°	Seconds.	°	°			
October.	16	57.6	1.0 + $\frac{1}{2}l$	10 00 38	332.7	56.7	9.12349	57.4	5.2363	332.2	56.7
		58.1	1.1 ,,	7 46 55	333.7	56.8	9.12336	57.8	5.2335	336.0	57.2
		58.4	1.2 ,,	6 10 12	335.2	57.1	9.12310				
	17	58.0	1.0 ,,	10 00 13	331.5	58.8	9.12320	53.6	5.2325	330.2	58.7
		58.2	1.1 ,,	7 47 21	335.1	59.0	9.12376	59.6	5.2333	338.2	59.7
		54.3	1.2 ,,	6 10 20	337.8	59.3	9.12326				
	18	55.5	1.0 ,,	10 01 25	330.7	56.2	9.12300	51.0	5.2309	330.0	55.9
		55.5	1.1 ,,	7 46 27	332.4	56.4	9.12289	55.6	5.2321	333.7	57.4
		56.9	1.2 ,,	6 10 04	337.4	55.1	9.12294				
November.	16	57.1	1.0 + $\frac{1}{2}l$	9 59 38	332.3	50.0	9.12277	46.4	5.2322	333.7	49.6
		57.6	1.1 ,,	7 46 25	334.0	50.4	9.12291	52.4	5.2365	336.9	51.4
		56.4	1.2 ,,	6 09 38	335.8	50.4	9.12242				
	17	55.3	1.0 ,,	9 59 03	332.6	50.9	9.12242	59.2	5.2319	338.2	52.3
		62.0	1.1 ,,	7 45 41	334.4	51.2	9.12228				
		59.3	1.2 ,,	6 10 21	338.3	51.9	9.12330				
	19	65.0	1.0 ,,	10 00 10	331.4	52.5	9.12326	53.3	5.2275	332.5	52.2
		62.2	1.1 ,,	7 45 55	330.8	52.9	9.12251	56.0	5.2358	336.1	53.6
		57.0	1.2 ,,	6 10 11	333.8	53.2	9.12308				
December.	18	51.7	1.0 + $\frac{1}{2}l$	9 58 48	331.0	42.5	9.12210	37.8	5.2396	332.1	42.2
		52.5	1.1 ,,	7 46 01	330.7	42.7	9.12245	52.8	5.2396	333.7	43.3
		53.3	1.2 ,,	6 09 25	331.8	42.8	9.12213				
	19	54.5	1.0 ,,	9 58 35	332.6	42.5	9.12198	44.4	5.2373	332.5	42.1
		54.0	1.1 ,,	7 45 30	333.3	42.9	9.12200	54.5	5.2366	333.2	43.8
		53.7	1.2 ,,	6 09 24	333.3	43.3	9.12212				
	20	58.1	1.0 ,,	9 58 45	332.5	52.2	9.12215	50.8	5.2395	333.2	52.0
		59.1	1.1 ,,	7 46 08	331.0	52.3	9.12266	55.9	5.2381	330.7	52.8
		57.8	1.2 ,,	6 08 56	329.0	52.6	9.12163				
1850	16	63.5	1.0 + $\frac{1}{2}l$	9 58 20	334.0	46.7	9.12191	44.4	5.2384	331.9	46.2
		67.9	1.1 ,,	7 45 06	335.3	46.9	9.12243	58.0	5.2396	336.0	47.5
		59.4	1.2 ,,	6 09 31	336.2	47.4	9.12233				
	17	53.3	1.0 ,,	9 58 11	333.3	48.4	9.12168	39.0	5.2392	331.5	48.1
		60.8	1.1 ,,	7 44 38	334.2	48.5	9.12129	57.3	5.2384	336.4	49.1
		59.5	1.2 ,,	6 09 00	335.3	48.8	9.12180				
	18	56.8	1.0 ,,	9 58 32	332.1	48.5	9.12199	39.2	5.2416	334.0	48.0
		66.1	1.1 ,,	7 45 48	330.8	48.8	9.12244	60.7	5.2431	334.1	48.5
		62.5	1.2 ,,	6 09 32	331.7	48.8	9.12265				
February.	16	55.6	1.0 + $\frac{1}{2}l$	9 58 54	319.7	42.1	9.12223	28.5	5.2445	319.1	41.6
		61.2	1.1 ,,	7 45 17	321.9	42.4	9.12188	52.0	5.2414	326.4	44.6
		54.2	1.2 ,,	6 09 08	324.3	43.6	9.12181				
	18	59.2	1.0 ,,	9 58 26	322.5	46.2	9.12193	58.0	5.2376	323.3	46.0
		58.0	1.1 ,,	7 45 21	324.1	46.8	9.12191	52.0	5.2391	328.5	47.4
		54.7	1.2 ,,	6 09 25	327.5	47.4	9.12215				
	19	49.4	1.0 ,,	9 58 10	324.0	45.9	9.12161	30.5	5.2405	326.8	46.5
		48.3	1.1 ,,	7 44 17	322.3	45.5	9.12080	50.8	5.2405	325.3	45.2
		58.0	1.2 ,,	6 08 31	322.8	45.2	9.12115				

I. 18 Deflecting 3.67 inches.															
Vibration.	Results.				Means.			Monthly Means.		Date.					
Log. Values of $m X$	$m$	X	Biflar.		Values of X	Biflar.		Biflar at 55°	Values of X						
			Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.								
										1849					
0.21796	0.4685	3.5256	335.1	57.1	3.5279	336.0	57.3	334.6	3.5253	16					
	0.4685	3.5262													
	0.4683	3.5273													
0.21828	0.4685	3.5281	336.5	58.5											
	0.4689	3.5259													
	0.4686	3.5280													
0.21850	0.4686	3.5299	336.3	56.2											
	0.4685	3.5303													
	0.4685	3.5301													
0.21801	0.4682	3.5287	337.4	51.0						3.5300	336.9	51.9	334.9	3.5288	16
	0.4683	3.5282													
	0.4680	3.5302													
0.21846	0.4682	3.5320	338.1	51.7											
	0.4681	3.5327													
	0.4687	3.5285													
0.21848	0.4686	3.5287	335.3	53.0											
	0.4683	3.5318													
	0.4686	3.5294													
0.21715	0.4674	3.5280	332.8	43.0	3.5286	332.7	46.4	329.1	3.5275						18
	0.4676	3.5266													
	0.4674	3.5279													
0.21757	0.4675	3.5303	334.3	44.4											
	0.4675	3.5301													
	0.4676	3.5297													
0.21728	0.4675	3.5284	331.1	51.9											
	0.4677	3.5263													
	0.4672	3.5305													
0.21724	0.4669	3.5291	335.4	47.2						3.5280	334.8	47.7	328.0	3.5223	16
	0.4675	3.5270													
	0.4675	3.5275													
0.21736	0.4672	3.5306	335.9	48.8											
	0.4670	3.5322													
	0.4673	3.5301													
0.21673	0.4670	3.5267	333.1	47.2											
	0.4672	3.5249													
	0.4674	3.5241													
0.21652	0.4671	3.5250	326.0	43.7	3.5284	326.3	44.9	321.7	3.5265						16
	0.4669	3.5264													
	0.4669	3.5267													
0.21737	0.4674	3.5296	325.8	46.8											
	0.4674	3.5297													
	0.4675	3.5287													
0.21699	0.4670	3.5253	327.0	44.3											
	0.4666	3.5327													
	0.4668	3.5312													

Magnets employed I. 15 suspended 3.00 inches ;											
Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances. $r, r', r'', \&c.$	Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				$k = .00036$	$q = .000114$				$k = .00036$	$q = .000114$	
				Sc. Div.	Therm.		Seconds.	Sc. Div.	Therm.		
1850		Feet.	° ' "		°						
March.	18	69.0	1.0 + $\frac{1}{2} l$	9 58 12	317.8	44.6	9.12191	42.6	5.2381	318.1	44.2
		66.3	1.1 ,,	7 44 21	320.1	44.8	9.12110				
	61.8	1.2 ,,	6 09 33	322.3	45.1	9.12242	57.8	5.2377	323.3	45.2	
	68.3	1.0 ,,	9 57 14	319.5	44.6	9.12118	38.5	5.2382	320.5	44.6	
	73.3	1.1 ,,	7 44 09	319.2	44.9	9.12100					
	70.4	1.2 ,,	6 08 24	320.8	45.3	9.12117	63.2	5.2293	323.7	46.1	
	56.3	1.0 ,,	9 57 04	321.1	44.3	9.12091	29.3	5.2409	321.8	43.6	
	61.2	1.2 ,,	7 44 51	322.2	44.8	9.12150					
April.	17	52.9	1.0 + $\frac{1}{2} l$	9 57 46	315.9	43.8	9.12131	33.3	5.2398	314.9	44.0
		54.0	1.1 ,,	7 44 54	318.9	44.0	9.12144				
	53.9	1.2 ,,	6 08 21	322.8	44.4	9.12089	52.4	5.2402	323.0	44.9	
	63.8	1.0 ,,	9 57 25	320.8	47.0	9.12122	38.3	5.2403	315.7	45.9	
	64.6	1.1 ,,	7 44 42	322.3	47.2	9.12140					
	64.2	1.2 ,,	6 08 52	322.4	47.3	9.12162	62.5	5.2411	324.2	47.6	
	65.2	1.0 ,,	9 57 15	317.2	49.1	9.12116	48.5	5.2392	317.0	48.4	
	61.3	1.2 ,,	7 44 46	317.9	49.5	9.12147					
May.	18	51.6	1.0 + $\frac{1}{2} l$	9 58 04	313.3	50.9	9.12156	48.0	5.2387	309.6	50.5
		53.0	1.1 ,,	7 45 15	316.4	51.7	9.12176				
	54.7	1.2 ,,	6 08 50	318.3	52.6	9.12146	53.9	5.2406	317.2	53.4	
	63.1	1.0 ,,	9 57 45	312.4	47.2	9.12145	50.2	5.2400	310.6	47.2	
	64.4	1.1 ,,	7 44 40	315.7	47.1	9.12136					
	62.1	1.2 ,,	6 08 13	318.2	46.8	9.12084	50.8	5.2432	320.4	46.9	
	56.9	1.0 ,,	9 58 00	314.9	47.4	9.12159	49.5	5.2418	313.1	47.1	
	57.9	1.2 ,,	7 44 40	315.9	48.0	9.12128					
June.	17	68.0	1.0 + $\frac{1}{2} l$	9 57 50	314.9	62.9	9.12161	63.3	5.2443	312.6	62.5
		68.5	1.1 ,,	7 43 33	316.8	64.2	9.12037				
	70.2	1.2 ,,	6 08 07	316.8	65.3	9.12081	70.3	5.2466	316.2	65.7	
	75.9	1.0 ,,	9 56 42	315.0	69.3	9.12079	71.0	5.2432	313.9	68.2	
	77.6	1.1 ,,	7 42 34	318.2	70.1	9.11946					
	78.0	1.2 ,,	6 07 07	319.3	72.3	9.11961	78.2	5.2418	318.9	73.8	
	79.7	1.0 ,,	9 53 14	315.3	73.5	9.11844	75.3	5.2518	316.0	72.2	
	80.2	1.2 ,,	7 43 04	316.3	74.0	9.12022					
July.	16	79.7	1.0 + $\frac{1}{2} l$	9 15 36	319.0	75.9	9.09019	76.8	5.4460	313.1	75.4
		80.4	1.1 ,,	7 12 54	317.9	76.4	9.09019				
	80.5	1.2 ,,	5 43 03	319.6	76.6	9.09141	79.9	5.4433	320.2	76.7	
	85.1	1.0 ,,	9 17 15	317.1	79.6	9.09169	81.9	5.4458	315.0	78.6	
	82.7	1.1 ,,	7 11 30	317.7	79.8	9.08963					
	79.0	1.2 ,,	5 42 41	319.1	79.7	9.08996	80.2	5.4429	319.9	79.1	
	70.5	1.0 ,,	9 13 31	315.6	68.4	9.08851	68.0	5.4522	314.0	68.9	
	73.4	1.2 ,,	7 11 20	320.1	68.5	9.08931					
				329.3	69.3	9.09002	71.8	5.4436	320.0	69.8	

I. 18 Deflecting 3.67 inches.															
Vibration.		Results.			Means.			Monthly Means.		Date.					
Log. Values of $m X$	$m$	$X$	Bifilar.		Values of $X$	Bifilar.		Bifilar at 55°	Values of $X$						
			Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.								
										1850					
0.21739	0.4673	3.5298	323.4	44.9	3.5310	324.3	45.6	318.9	3.5278	18					
	0.4669	3.5331													
	0.4676	3.5277													
0.21730	0.4669	3.5324	324.7	46.5						19					
	0.4668	3.5331													
	0.4670	3.5325													
0.21690	0.4666	3.5319	324.9	45.5						20					
	0.4668	3.5299													
	0.4670	3.5288													
0.21703	0.4669	3.5303	321.4	44.6						3.5309	321.1	47.2	318.9	3.5312	17
	0.4670	3.5302													
	0.4667	3.5325													
0.21695	0.4667	3.5308	321.0	46.9	18										
	0.4668	3.5305													
	0.4670	3.5291													
0.21714	0.4671	3.5318	320.8	50.1	19										
	0.4669	3.5306													
	0.4667	3.5324													
0.21713	0.4671	3.5301	315.0	52.1	3.5300	315.5	49.4	316.4	3.5333	18					
	0.4672	3.5293													
	0.4670	3.5305													
0.21681	0.4668	3.5293	315.6	47.3						20					
	0.4667	3.5296													
	0.4665	3.5317													
0.21693	0.4664	3.5291	315.8	48.8	21										
	0.4668	3.5304													
	0.4668	3.5303													
0.21622	0.4665	3.5262	316.4	64.7	3.5319	316.5	69.9	321.1	3.5319	17					
	0.4658	3.5313													
	0.4661	3.5295													
0.21681	0.4665	3.5316	317.8	70.8						18					
	0.4658	3.5374													
	0.4659	3.5367													
0.21576	0.4647	3.5370	315.3	74.2	19										
	0.4655	3.5300													
	0.4658	3.5278													
0.18395	0.4335	3.5228	315.7	75.7	3.5239	318.0	74.4	321.7	3.5210	16					
	0.4335	3.5228													
	0.4392	3.5179													
0.18402	0.4343	3.5170	318.7	77.3						17					
	0.4333	3.5253													
	0.4335	3.5240													
0.18440	0.4330	3.5314	319.5	70.2	18										
	0.4334	3.5282													
	0.4357	3.5254													

Magnets employed I. 15 suspended 3.00 inches;										
Date.	Experiments of Deflection.						Experiments of			
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.	
				$k=.00036$	$q=.000114$				$k=.00036$	$q=.000114$
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.	
1850	°	Feet.	° ' "	°	°	°	°	°	°	°
August.	72.0	1.0 + $\frac{1}{2} l$	9 15 00	316.7	68.3	9.08969	68.2	5.4521	313.6	67.9
	70.9	1.1 ,,	7 13 35	318.9	68.8	9.09155	69.8	5.4565	313.7	68.6
	71.8	1.2 ,,	5 44 06	317.2	68.8	9.09168				
	67.8	1.0 ,,	9 16 43	314.8	64.8	9.09095	65.6	5.4511	311.0	64.6
	67.5	1.1 ,,	7 13 11	314.5	65.0	9.09111				
	67.8	1.2 ,,	5 43 36	316.4	65.3	9.09098	67.8	5.4552	315.8	65.4
	69.4	1.0 ,,	9 17 34	309.2	66.5	9.09164				
	68.7	1.1 ,,	7 13 34	312.0	66.6	9.09150	68.6	5.4492	306.8	66.3
68.1	1.2 ,,	5 43 53	310.7	66.8	9.09133					
September.	66.3	1.0 + $\frac{1}{2} l$	9 15 54	307.5	60.9	9.09026	62.0	5.4528	305.0	59.9
	66.6	1.1 ,,	7 12 33	310.7	62.0	9.09047	68.2	5.4552	308.4	63.1
	67.5	1.2 ,,	5 43 04	310.0	62.5	9.09038				
	65.7	1.0 ,,	9 15 39	307.4	61.1	9.09010	60.7	5.4523	304.0	60.4
	67.2	1.1 ,,	7 12 57	310.4	62.4	9.09086				
	67.6	1.2 ,,	5 43 17	310.7	63.0	9.09056	67.8	5.4522	310.3	63.6
	72.3	1.0 ,,	9 16 15	307.1	66.5	9.09066				
	72.2	1.1 ,,	7 12 54	311.6	67.2	9.09086	69.6	5.4513	304.2	65.8
72.6	1.2 ,,	5 43 24	313.8	68.2	9.09078					
October.	62.2	1.0 + $\frac{1}{2} l$	9 12 57	313.1	51.6	9.08797	50.4	5.4538	311.6	50.7
	65.4	1.1 ,,	7 09 22	313.4	51.5	9.08725	61.6	5.4570	311.1	53.4
	65.3	1.2 ,,	5 41 05	313.2	52.5	9.08775				
	64.2	1.0 ,,	9 12 48	314.7	52.9	9.08787	54.0	5.4567	312.2	52.7
	58.0	1.0 ,,	9 12 43	312.7	53.5	9.08773				
	60.5	1.1 ,,	7 10 01	313.1	54.3	9.08776	58.0	5.4539	314.8	57.7
	60.5	1.2 ,,	5 42 17	315.0	55.1	9.08823				
	59.9	1.0 ,,	9 12 53	315.5	56.0	9.08789	60.2	5.4508	313.7	58.3
64.5	1.0 ,,	9 12 42	311.6	59.6	9.08782					
November.	44.0	1.0 + $\frac{1}{2} l$	9 10 29	310.0	45.5	9.08580	41.9	5.4582	309.0	45.3
	50.6	1.1 ,,	7 08 49	311.9	46.0	9.08651	53.3	5.4557	315.3	47.5
	51.7	1.2 ,,	5 40 53	315.5	46.8	9.08731				
	54.7	1.0 ,,	9 10 26	309.2	47.2	9.08590	48.3	5.4526	306.9	47.2
	62.8	1.1 ,,	7 09 04	312.8	47.4	9.08692				
	60.6	1.2 ,,	5 40 36	315.2	47.6	9.08709	60.7	5.4531	313.7	47.8
	56.3	1.0 ,,	9 12 12	309.7	46.4	9.08731				
	61.8	1.1 ,,	7 09 17	313.5	46.3	9.08713	42.6	5.4532	309.4	46.2
66.1	1.2 ,,	5 40 56	314.0	46.3	9.08757					
December.	—	1.0 + $\frac{1}{2} l$	9 12 30	310.3	41.9	9.08745	41.2	5.4547	310.2	41.4
	—	1.1 ,,	7 09 06	311.2	43.4	9.08679	55.1	5.4666	312.6	43.2
	55.7	1.2 ,,	5 41 42	311.9	43.3	9.08741				
	49.7	1.0 ,,	9 11 57	305.4	41.2	9.08701	30.3	5.4583	303.2	41.7
	65.4	1.1 ,,	7 09 50	307.3	41.0	9.08773				
	59.5	1.2 ,,	5 40 55	306.0	41.1	9.08747	54.9	5.4676	309.6	41.2
	50.7	1.0 ,,	9 12 16	306.8	43.5	9.08728				
	54.4	1.1 ,,	7 09 28	305.5	43.4	9.08731	28.7	5.4692	305.5	43.9
54.1	1.2 ,,	5 40 54	311.9	43.7	9.08739					

I. 18 Deflecting 3.67 inches.											
Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log. Values of $m X$	$m$	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X
				Mean reading on day of observation.	Tem- perature.		Sc. Div.	Tem- perature.			
										1850	
0.18238	0.4325	3.5184	313.7	66.9	3.5138	312.4	66.0	320.1	3.5192	16	
	0.4335	3.5109									
	0.4335	3.5104									
0.18256	0.4333	3.5141	312.8	64.7							
	0.4334	3.5134									
	0.4333	3.5139									
0.18317	0.4339	3.5138	310.6	66.3							
	0.4338	3.5143									
	0.4337	3.5150									
0.18237	0.4328	3.5158	308.2	61.5	3.5155	308.9	63.6	311.8	3.5159	16	
	0.4329	3.5153									
	0.4328	3.5157									
0.18266	0.4328	3.5180	309.4	62.7							
	0.4334	3.5148									
	0.4331	3.5161									
0.18251	0.4330	3.5151	309.1	66.5							
	0.4331	3.5142									
	0.4331	3.5146									
0.18209	0.4318	3.5243	313.2	52.6	3.5252	314.5	55.9	312.5	3.5223	15	
	0.4315	3.5272									
	0.4318	3.5252									
0.18212	0.4318	3.5247	314.7	55.3							
	0.4318	3.5253									
	0.4319	3.5249									
0.18262	0.4321	3.5233	315.6	59.7							
	0.4319	3.5247									
	0.4321	3.5270									
0.18182	0.4304	3.5319	313.3	46.7	3.5297	312.8	47.0	311.5	3.5312	19	
	0.4307	3.5291									
	0.4311	3.5258									
0.18258	0.4308	3.5347	312.5	48.0							
	0.4312	3.5305									
	0.4313	3.5298									
0.18248	0.4314	3.5285	312.8	46.3							
	0.4313	3.5292									
	0.4315	3.5275									
0.18123	0.4264	3.5229	308.7	41.7	3.5219	308.9	43.5	306.4	3.5233	16	
	0.4306	3.5255									
	0.4309	3.5231									
0.18084	0.4305	3.5230	308.3	43.4							
	0.4307	3.5201									
	0.4307	3.5211									
0.18022	0.4303	3.5195	309.7	45.5							
	0.4303	3.5194									
	0.4307	3.5221									



Magnets employed I. 15 suspended 3.00 inches;

Date.	Experiments of Deflection.						Experiments of			
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°C, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°C, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.	
				<i>k</i> = .00036	<i>q</i> = .000114				<i>k</i> = .00036	<i>q</i> = .000114
			Sc. Div.	Therm.			Seconds.	Sc. Div.	Therm.	
1851	°	Feet.	° ' "	°	°		°		°	
January.	49.0	1.0 + $\frac{1}{2}l$	9 11 51	302.2	48.2	9.08694	39.8	5.4602	304.7	47.8
	48.8	1.1 ,,	7 09 00	301.0	48.6	9.08668	55.6	5.4643	306.8	49.3
	57.4	1.2 ,,	5 40 30	306.2	49.2	9.08691				
	68.3	1.0 ,,	9 12 15	304.8	48.9	9.08747	49.2	5.4851	305.0	49.2
	66.5	1.1 ,,	7 09 28	303.4	48.5	9.08736				
	63.2	1.2 ,,	5 41 00	303.5	48.6	9.08762	61.0	5.4693	305.2	48.8
	57.7	1.0 ,,	9 12 02	298.7	43.9	9.08719				
55.8	1.1 ,,	7 09 37	298.4	44.1	9.08738	33.3	5.4670	299.7	43.8	
53.4	1.2 ,,	5 40 40	300.0	44.5	9.08707					
February.	70.7	1.0 + $\frac{1}{2}l$	9 10 50	302.3	39.9	9.08645	41.6	5.4622	300.6	39.1
	70.2	1.1 ,,	7 08 29	301.3	40.1	9.08643				
	61.5	1.2 ,,	5 40 34	304.7	40.6	9.08535	58.7	5.4656	305.1	40.9
	46.7	1.0 ,,	9 12 11	300.6	43.2	9.08717				
	52.6	1.1 ,,	7 09 25	302.3	43.4	9.08714	31.9	5.4762	298.1	42.8
	50.3	1.2 ,,	5 41 37	305.4	44.3	9.08823				
	62.4	1.0 ,,	9 12 08	295.4	45.3	9.08732	49.7	5.4773	304.0	44.6
57.6	1.1 ,,	7 09 30	296.6	45.7	9.08727					
54.6	1.2 ,,	5 40 20	295.5	46.2	9.08675	45.1	5.4764	290.1	44.3	
March.	55.5	1.0 + $\frac{1}{2}l$	9 10 33	294.3	45.5	9.08600	49.4	5.4588	294.2	45.3
	55.8	1.1 ,,	7 08 40	299.3	46.7	9.08646				
	58.2	1.2 ,,	5 39 57	300.9	46.1	9.08613	55.4	5.4698	301.6	45.9
	61.5	1.0 ,,	9 12 18	295.3	45.7	9.08745				
	64.8	1.1 ,,	7 09 39	296.3	45.9	9.08753	42.2	5.4638	298.2	45.5
	59.9	1.2 ,,	5 39 42	301.4	47.4	9.08593				
	55.3	1.0 ,,	9 10 25	294.5	43.6	9.08591	61.0	5.4614	302.6	47.4
59.2	1.1 ,,	7 08 20	295.3	43.8	9.08613					
62.3	1.2 ,,	5 39 55	299.6	44.2	9.08623	46.2	5.4628	295.2	43.4	
April.	57.4	1.0 + $\frac{1}{2}l$	9 11 01	297.5	48.3	9.08639	47.7	5.4628	296.3	48.9
	56.9	1.1 ,,	7 08 05	298.7	49.8	9.08586				
	56.3	1.2 ,,	5 39 45	299.2	50.1	9.08593	54.0	5.4672	299.2	50.4
	56.7	1.0 ,,	9 10 06	294.4	51.4	9.08567				
	62.5	1.1 ,,	7 08 02	299.1	51.9	9.08586	45.3	5.4650	292.0	51.0
	64.5	1.2 ,,	5 39 55	301.7	52.5	9.08627				
	54.5	1.0 ,,	9 11 14	294.9	55.3	9.08653	64.2	5.4654	302.1	52.7
53.8	1.1 ,,	7 08 39	296.1	55.6	9.08638					
54.8	1.2 ,,	5 39 57	301.8	55.7	9.08618	51.5	5.4711	299.5	55.8	
May.	57.6	1.0 + $\frac{1}{2}l$	9 10 06	292.1	57.7	9.08563	56.3	5.4625	289.5	57.2
	57.0	1.1 ,,	7 07 35	293.2	58.2	9.08536				
	57.3	1.2 ,,	5 39 53	295.2	58.5	9.08611	57.7	5.4652	295.9	58.8
	60.8	1.0 ,,	9 10 01	293.3	58.6	9.08565				
	61.9	1.1 ,,	7 09 29	294.4	59.3	9.08732	56.5	5.4625	293.7	57.7
	62.3	1.2 ,,	5 38 56	294.8	60.0	9.08492				
	66.0	1.0 ,,	9 10 34	289.5	61.9	9.08616	62.9	5.4629	294.3	60.3
66.3	1.1 ,,	7 08 02	290.8	62.3	9.08592					
65.9	1.2 ,,	5 39 45	290.0	63.0	9.08607	65.2	5.4696	288.5	61.5	
						65.7	5.4688	292.0	63.3	

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log. Values of $m X$	$m$	$X$	Bifilar.		Values of $X$	Bifilar.		Bifilar at 55°		Values of $X$
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.			
										1851	
0.18098	0.4305	3.5239	305.8	49.2	3.5189	302.2	47.3	300.3	3.5195	15	January.
	0.4304	3.5250									
	0.4305	3.5240									
0.17914	0.4298	3.5144	298.5	48.8							
	0.4297	3.5148									
	0.4299	3.5138									
0.17982	0.4300	3.5182	302.4	44.0							
	0.4301	3.5174									
	0.4300	3.5187									
0.18072	0.4300	3.5248	302.8	40.6						3.5172	
	0.4300	3.5250									
	0.4295	3.5293									
0.17863	0.4295	3.5135	296.0	44.4							
	0.4294	3.5136									
	0.4300	3.5092									
0.17878	0.4295	3.5135	295.1	46.2							
	0.4296	3.5137									
	0.4293	3.5118									
0.18075	0.4299	3.5268	300.3	45.5	3.5252	301.0	45.5	296.7	3.5235		17
	0.4301	3.5249									
	0.4300	3.5259									
0.18089	0.4306	3.5215	300.8	46.8							
	0.4306	3.5172									
	0.4299	3.5276									
0.18102	0.4300	3.5283	301.8	44.1							
	0.4301	3.5273									
	0.4302	3.5270									
0.18055	0.4300	3.5244	298.8	49.8						3.5246	297.9
	0.4297	3.5266									
	0.4298	3.5263									
0.18053	0.4296	3.5273	298.1	52.0							
	0.4297	3.5265									
	0.4298	3.5248									
0.17990	0.4297	3.5213	296.8	54.5							
	0.4297	3.5218									
	0.4295	3.5226									
0.18082	0.4298	3.5286	293.3	57.9	3.5274	291.6	59.7	294.5	3.5292		
	0.4296	3.5297									
	0.4300	3.5267									
0.18102	0.4298	3.5293	291.8	59.1							
	0.4306	3.5226									
	0.4295	3.5223									
0.18.05	0.4298	3.5252	289.7	62.1							
	0.4297	3.5262									
	0.4298	3.5256									

Magnets employed I. 15 suspended 3.00 in ches ;											
Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				$k = .00036$	$q = .000114$				$k = .00036$	$q = .000114$	
		Feet.	° ' "	Sc. Div.	Therm.		Seconds.	Sc. Div.	Therm.		
1851	°										
June.	17	64.5	1.0 + $\frac{1}{2}l$	9 14 55	293.0	63.6	9.08953	63.0	5.4441	289.5	63.0
		65.4	1.1 ,,	7 11 07	291.8	63.9	9.08901				
	18	66.0	1.2 ,,	5 41 59	292.7	64.2	9.08891	65.9	5.4447	294.3	65.0
		73.8	1.0 ,,	9 15 24	293.6	63.5	9.08001				
		72.3	1.1 ,,	7 10 42	294.8	63.8	9.08869	63.5	5.4542	291.1	63.0
		68.5	1.2 ,,	5 41 31	295.3	64.2	9.08835				
		67.4	1.0 ,,	9 14 22	291.0	64.0	9.08913	67.5	5.4461	295.1	65.1
		69.0	1.1 ,,	7 11 24	292.1	64.4	9.08939				
		69.1	1.2 ,,	5 42 08	293.7	64.7	9.08913	63.5	5.4467	287.6	63.6
July.	15	70.6	1.0 + $\frac{1}{2}l$	9 13 44	284.9	70.0	9.08870	67.2	5.4555	282.5	70.3
		71.9	1.1 ,,	7 11 13	285.0	69.8	9.08918				
	16	72.2	1.2 ,,	5 42 01	292.5	70.4	9.08903	73.2	5.4489	289.3	71.1
		78.0	1.0 ,,	9 13 04	287.9	72.1	9.08826				
		78.5	1.1 ,,	7 10 14	293.0	73.3	9.08830	73.5	5.4456	286.2	71.0
		79.8	1.2 ,,	5 41 35	295.9	74.5	9.08858				
		80.0	1.0 ,,	9 12 42	295.4	75.4	9.08800	80.0	5.4525	294.8	75.1
		80.3	1.1 ,,	7 09 53	295.7	75.5	9.08798				
		80.2	1.2 ,,	5 41 11	296.5	76.7	9.08809	76.8	5.4530	293.4	73.3
August.	15	69.2	1.0 + $\frac{1}{2}l$	9 12 56	286.2	64.9	9.08801	65.9	5.4540	284.0	64.4
		70.3	1.1 ,,	7 09 52	286.5	65.3	9.08783				
	16	69.0	1.2 ,,	5 41 02	289.6	65.8	9.08775	69.1	5.4582	290.3	66.3
		69.0	1.0 ,,	9 13 51	287.7	65.8	9.08875				
		69.3	1.1 ,,	7 10 06	287.4	65.6	9.08805	65.0	5.4573	283.3	64.9
		69.8	1.2 ,,	5 41 46	289.8	65.8	9.08872				
		66.2	1.0 ,,	9 11 51	283.3	63.8	9.08716	69.9	5.4520	290.1	65.9
		67.1	1.1 ,,	7 09 09	284.4	64.0	9.08696				
		69.9	1.2 ,,	5 40 29	288.5	65.2	9.08707	61.0	5.4546	287.8	62.8
September.	16	61.5	1.0 + $\frac{1}{2}l$	9 12 36	267.0	58.5	9.08769	58.8	5.4610	265.4	58.2
		61.8	1.1 ,,	7 08 17	274.1	59.4	9.08611				
	17	62.5	1.2 ,,	5 41 24	274.7	59.6	9.08811	62.5	5.4612	274.9	60.1
		64.6	1.0 ,,	9 12 13	268.0	60.8	9.08741				
		65.5	1.1 ,,	7 09 32	273.0	62.8	9.08741	60.9	5.4633	268.1	60.3
		66.3	1.2 ,,	5 41 00	272.5	62.9	9.08766				
		63.2	1.0 ,,	9 11 53	270.2	61.2	9.08714	64.9	5.4644	273.5	63.1
		64.3	1.1 ,,	7 09 16	270.3	61.4	9.08715				
		65.9	1.2 ,,	5 40 51	273.7	63.5	9.08747	62.2	5.4613	269.3	60.7
October.	16	47.0	1.0 + $\frac{1}{2}l$	9 11 30	277.8	52.3	9.08664	45.3	5.4640	277.3	52.3
		47.8	1.1 ,,	7 08 16	278.7	52.5	9.08592				
	17	48.6	1.2 ,,	5 40 24	279.9	52.5	9.08664	49.4	5.4681	281.2	53.3
		50.8	1.0 ,,	9 11 16	276.3	51.7	9.08650				
		52.0	1.1 ,,	7 08 40	275.8	51.9	9.08638	48.1	5.4627	274.9	51.0
		52.7	1.2 ,,	5 39 59	278.2	52.7	9.08620				
		55.8	1.0 ,,	9 11 15	277.4	54.2	9.08656	52.9	5.4639	279.5	53.2
		59.3	1.1 ,,	7 08 54	278.0	54.5	9.08671				
		60.1	1.2 ,,	5 40 00	278.1	54.8	9.08624	54.1	5.4648	276.4	53.4
						58.5	5.4641	279.2	55.4		

I. 18 Deflecting 3.67 inches.											
Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log. Value of $m X$	$m$	X	Bifilar.		Values of X	Bifilar.		Bifilar at 55°		Values of X
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.			
										1851	
0.18392	0.4332	3.5253	293.5	64.0	3.5245	293.6	64.3	298.0	3.5264	17	
	0.4329	3.5274									
	0.4329	3.5278									
0.18300	0.4330	3.5197	294.5	63.8						18	
	0.4324	3.5251									
	0.4321	3.5264									
0.18304	0.4325	3.5234	292.9	65.2						19	
	0.4326	3.5223									
	0.4325	3.5234									
0.18267	0.4322	3.5236	288.3	70.6						3.5255	292.2
	0.4324	3.5217									
	0.4324	3.5223									
0.18318	0.4322	3.5275	293.9	74.1	16						
	0.4322	3.5273									
	0.4323	3.5262									
0.18282	0.4319	3.5271	294.3	76.2	17						
	0.4319	3.5271									
	0.4319	3.5267									
0.18212	0.4315	3.5242	288.7	65.4	3.5258	288.9	65.2	290.7	3.5240		
	0.4314	3.5249									
	0.4314	3.5253									
0.18229	0.4319	3.5219	289.0	65.5						16	
	0.4316	3.5248									
	0.4329	3.5220									
0.18251	0.4313	3.5293	289.0	64.7						18	
	0.4312	3.5300									
	0.4312	3.5296									
0.18124	0.4310	3.5222	272.6	59.2						3.5223	272.6
	0.4302	3.5283									
	0.4312	3.5202									
0.18080	0.4306	3.5213	271.9	61.0	17						
	0.4306	3.5214									
	0.4307	3.5203									
0.18092	0.4305	3.5229	273.3	62.2	18						
	0.4305	3.5228									
	0.4307	3.5215									
0.18042	0.4300	3.5229	281.6	53.1	3.5247	280.5	54.0	275.9	3.5194		
	0.4298	3.5257									
	0.4301	3.5228									
0.18082	0.4302	3.5251	280.6	52.8						17	
	0.4301	3.5255									
	0.4301	3.5263									
0.18073	0.4302	3.5245	279.2	56.0						18	
	0.4302	3.5238									
	0.4300	3.5257									

Magnets employed I. 15 suspended 3.00 inches;																
Date.	Experiments of Deflection.						Experiments of									
	Tem- perature of Magnet.	Distances. <i>r, r', r'', &amp;c.</i>	Angles. <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values $\frac{m}{\bar{X}}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.							
				<i>k</i> = .00036 Sc. Div.	<i>q</i> = .000114 Therm.				<i>k</i> = .00036 Sc. Div.	<i>q</i> = .000114 Therm.						
1851	°	Feet.	° ' "	°	°	°	Seconds.	°	°	°						
November.	17	63.7	1.0 + 1/2 l	9 07 05	348.6	49.4	9.08338	61.6	5.4837	348.6	49.4					
		65.8	1.1 ,,	7 05 26	349.0	49.7	9.08330									
	18	62.7	1.2 ,,	5 38 04	351.7	50.0	9.08388	58.9	5.4891	353.7	50.0					
		51.7	1.0 ,,	9 07 21	347.1	48.8	9.08348									
		52.3	1.1 ,,	7 04 55	347.6	48.8	9.08263									
		51.8	1.2 ,,	5 38 07	351.8	49.0	9.08381									
		62.7	1.0 ,,	9 07 02	348.8	48.9	9.08334									
		64.0	1.1 ,,	7 06 01	349.5	49.2	9.08384									
19	59.6	1.2 ,,	5 37 56	351.9	50.0	9.08368	56.8	5.4828	346.9	48.8						
	51.6	1.0 ,,	9 07 02	348.8	48.9	9.08334										
December.	15	43.3	1.0 + 1/2 l	9 07 26	343.5	42.5	9.08340	38.0	5.4871	342.4	42.3					
		45.6	1.1 ,,	7 05 44	346.4	42.0	9.08333									
	16	46.0	1.2 ,,	5 37 08	347.7	41.6	9.08347	44.1	5.4848	348.3	41.6					
		40.4	1.0 ,,	9 07 13	343.5	35.5	9.08318									
		43.0	1.1 ,,	7 05 56	344.8	35.6	9.08354									
		37.7	1.2 ,,	5 38 10	348.2	37.4	9.08366									
		52.0	1.0 ,,	9 07 08	342.6	33.4	9.08322									
		51.9	1.1 ,,	7 05 46	344.7	34.2	9.08340									
		18	50.0	1.2 ,,	5 38 14	346.5	34.8					9.08392	37.8	5.4828	342.0	35.3
			46.4	1.0 ,,	9 07 08	342.6	33.4					9.08322				
1852	16	42.7	1.0 + 1/2 l	9 06 04	345.4	33.2	9.08229	35.9	5.4923	346.6	32.5					
		50.7	1.1 ,,	7 05 02	344.4	33.9	9.08263									
		59.4	1.2 ,,	5 37 26	345.4	38.1	9.08298									
		59.5	1.3 ,,	4 32 18	345.8	38.5	9.08294									
		62.5	1.0 ,,	9 07 13	339.8	37.6	9.08342									
		64.8	1.1 ,,	7 04 55	339.0	37.9	9.08271									
	17	58.7	1.2 ,,	5 37 56	338.3	38.9	9.08366	49.8	5.4808	340.6	39.8					
		53.6	1.3 ,,	4 32 35	338.8	39.8	9.08339									
		39.6	1.0 ,,	9 06 56	346.6	31.2	9.08291									
	19	38.9	1.1 ,,	7 05 29	347.5	33.2	9.08294	33.7	5.4911	345.3	30.5					
		54.8	1.2 ,,	5 37 08	347.7	41.6	9.08347									
	January.	16	42.7	1.0 + 1/2 l	9 06 04	345.4	33.2	9.08229	54.8	5.4850	346.6	39.6				
			50.7	1.1 ,,	7 05 02	344.4	33.9	9.08263								
		17	59.4	1.2 ,,	5 37 26	345.4	38.1	9.08298	56.2	5.4816	343.2	36.9				
			59.5	1.3 ,,	4 32 18	345.8	38.5	9.08294								
			62.5	1.0 ,,	9 07 13	339.8	37.6	9.08342								
			64.8	1.1 ,,	7 04 55	339.0	37.9	9.08271								
			58.7	1.2 ,,	5 37 56	338.3	38.9	9.08366								
53.6			1.3 ,,	4 32 35	338.8	39.8	9.08339									
19		39.6	1.0 ,,	9 06 56	346.6	31.2	9.08291	49.8	5.4808	340.6	39.8					
		38.9	1.1 ,,	7 05 29	347.5	33.2	9.08294									
February.		17	39.3	1.0 + 1/2 l	9 04 53	336.6	34.9	9.08130	32.9	5.5072	336.3	34.3				
			41.2	1.1 ,,	7 04 06	339.3	35.9	9.08152								
	19	42.1	1.2 ,,	5 36 30	343.8	36.2	9.08156	42.3	5.5052	344.3	36.9					
		35.5	1.0 ,,	9 05 38	326.9	35.7	9.08184									
	23	54.8	1.0 ,,	9 04 20	330.9	47.9	9.08115	31.0	5.5074	317.9	35.1					
		54.9	1.1 ,,	7 03 42	329.6	48.0	9.08133									
		52.2	1.2 ,,	5 36 13	334.9	48.3	9.08132									
		47.5	1.0 ,,	9 03 58	333.5	47.7	9.08068									
	24	49.0	1.1 ,,	7 04 17	333.9	47.8	9.08187	47.0	5.5088	333.2	47.8					
		49.8	1.2 ,,	5 36 12	334.9	48.0	9.08127									
March.	15	51.0	1.0 + 1/2 l	9 04 02	337.0	48.2	9.08076	46.1	5.5081	335.8	48.2					
		51.8	1.1 ,,	7 03 35	340.5	49.0	9.08118									
	16	51.4	1.2 ,,	5 36 24	340.2	49.1	9.08155	49.1	5.5169	341.6	48.6					
		53.9	1.0 ,,	9 03 54	337.8	45.9	9.08069									
	17	53.6	1.1 ,,	7 02 59	340.2	43.3	9.08058	56.4	5.5159	334.0	45.3					
		53.7	1.2 ,,	5 35 44	340.4	46.5	9.08072									
		48.3	1.0 ,,	9 04 20	336.4	45.4	9.08097									
		50.4	1.1 ,,	7 03 12	336.5	46.2	9.08085									
	17	51.8	1.2 ,,	5 35 59	336.9	46.9	9.08103	51.8	5.5092	338.8	47.3					

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log. Values of $m X$	$m$	$X$	Bifilar.		Values of $X$	Bifilar.		Bifilar at 55°		Values of $X$
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.			
										1851	
0.17722	0.4268	3.5232	352.4	50.2	3.5240	352.8	49.8	351.6	3.5245	17	
	0.4268	3.5235									
	0.4271	3.5211									
0.17751	0.4271	3.5238	352.7	48.8							
	0.4267	3.5273									
	0.4273	3.5225									
0.17792	0.4271	3.5262	353.2	50.4							
	0.4274	3.5241									
	0.4273	3.5247									
0.17713	0.4268	3.5227	347.6	41.1						3.5215	347.6
	0.4267	3.5229									
	0.4268	3.5224									
0.17693	0.4266	3.5227	348.5	36.6							
	0.4268	3.5212									
	0.4268	3.5208									
0.17667	0.4266	3.5215	346.6	34.5							
	0.4267	3.5208									
	0.4269	3.5187									
0.17687	0.4262	3.5261	346.9	36.1	3.5241	344.9	36.3	337.8	3.5225	16	
	0.4263	3.5247									
	0.4264	3.5233									
0.17764	0.4264	3.5234	344.1	33.6							
	0.4270	3.5246									
	0.4266	3.5274									
0.17638	0.4271	3.5236	343.7	39.3							
	0.4271	3.5247									
	0.4263	3.5215									
0.17394	0.4263	3.5214	340.9	37.0	3.5165	338.3	42.6	336.1	3.5185	17	
	0.4243	3.5182									
	0.4244	3.5173									
0.17382	0.4244	3.5171	335.4	37.0							
	0.4245	3.5155									
	0.4239	3.5167									
0.17343	0.4239	3.5160	338.0	47.8							
	0.4240	3.5161									
	0.4237	3.5186									
0.17343	0.4243	3.5137	338.8	48.8							
	0.4239	3.5162									
	0.4235	3.5163									
0.17298	0.4237	3.5148	339.5	48.0	3.5176	339.1	47.0	337.1	3.5182	15	
	0.4239	3.5133									
	0.4238	3.5199									
0.17375	0.4238	3.5202	341.2	46.2							
	0.4238	3.5198									
	0.4239	3.5179									
0.17356	0.4239	3.5185	336.6	46.7							
	0.4239	3.5185									
	0.4239	3.5178									

Magnets employed I. 15 suspended 3.00 inches;

Date.	Experiments of Deflection.						Experiments of				
	Tem- perature of Magnet.	Distances.  <i>r, r', r'', &amp;c.</i>	Angles.  <i>u, u', u'', &amp;c.</i> reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values  of $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempe- rature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		
				<i>k</i> =.00036  Sc. Div.	<i>q</i> =.000114  Therm.				<i>k</i> =.00036  Sc. Div.	<i>q</i> =.000114  Therm.	
1852	°	Feet.	° ' "	°	°	°	Seconds.	°	°		
April.	16	49.5	1.0 + $\frac{1}{2}l$	9 12 33	336.7	52.8	9.08745	48.3	5.5033	331.4	52.5
		49.8	1.1 ,,	7 12 37	337.2	53.1	9.08779				
		51.1	1.2 ,,	5 41 11	340.7	53.4	9.08764				
	17	47.7	1.0 ,,	9 12 20	334.1	52.8	9.08725	47.6	5.4926	335.6	52.0
		48.2	1.1 ,,	7 09 27	334.8	52.9	9.08706				
		47.1	1.2 ,,	5 40 51	339.4	53.0	9.08717				
	19	49.3	1.0 ,,	9 11 45	339.6	49.1	9.08681	48.3	5.5024	340.6	48.9
		49.9	1.1 ,,	7 09 31	340.6	49.3	9.08716				
		49.1	1.2 ,,	5 40 22	344.0	50.6	9.08630				
May.	17	56.0	1.0 + $\frac{1}{2}l$	9 09 53	338.3	58.8	9.08545	55.4	5.4970	336.9	58.6
		56.0	1.1 ,,	7 07 28	339.4	58.8	9.08518				
		55.7	1.2 ,,	5 39 21	341.4	58.8	9.08539				
	18	51.3	1.0 ,,	9 10 16	338.3	54.4	9.08569	50.2	5.4962	334.0	53.8
		51.8	1.1 ,,	7 07 56	337.9	54.5	9.08560				
		53.2	1.2 ,,	5 39 23	346.0	54.4	9.08539				
	19	55.2	1.0 ,,	9 10 43	341.2	54.7	9.08607	52.7	5.4993	336.4	54.0
		55.9	1.1 ,,	7 07 33	340.7	54.0	9.08527				
		53.1	1.2 ,,	5 39 35	341.6	55.1	9.08563				
June.	16	80.2	1.0 + $\frac{1}{2}l$	9 10 56	336.1	76.8	9.08657	76.3	5.5037	330.9	76.8
		81.0	1.1 ,,	7 08 28	342.4	77.0	9.08652				
		81.6	1.2 ,,	5 39 49	339.7	77.5	9.08631				
	17	71.5	1.0 ,,	9 10 24	338.0	71.8	9.08604	80.3	5.5038	345.0	78.6
		71.7	1.1 ,,	7 08 29	339.3	71.8	9.08640				
		71.8	1.2 ,,	5 40 00	333.8	72.0	9.08640				
	18	71.9	1.0 ,,	9 10 19	334.2	72.0	9.08600	69.5	5.5002	331.7	72.0
		73.0	1.1 ,,	7 07 09	335.8	72.0	9.08507				
		74.8	1.2 ,,	5 39 12	336.0	72.0	9.08545				
July.	16	72.6	1.0 + $\frac{1}{2}l$	9 08 57	321.0	70.4	9.08492	70.0	5.5018	321.0	70.0
		73.0	1.1 ,,	7 06 53	325.6	71.4	9.08480				
		73.4	1.2 ,,	5 39 13	331.6	72.6	9.08544				
	17	72.8	1.0 ,,	9 09 00	324.4	70.1	9.08498	71.5	5.5048	331.7	73.0
		74.0	1.1 ,,	7 07 03	325.0	70.5	9.08497				
		73.7	1.2 ,,	5 38 38	330.5	72.3	9.08469				
	19	68.2	1.0 ,,	9 08 35	324.2	67.3	9.08457	71.6	5.5005	322.2	69.4
		69.4	1.1 ,,	7 06 45	325.1	67.6	9.08462				
		68.8	1.2 ,,	5 38 39	327.4	68.5	9.08466				
August.	16	67.5	1.0 + $\frac{1}{2}l$	9 08 29	310.4	68.4	9.08447	65.6	5.5066	307.9	68.2
		68.0	1.1 ,,	7 06 44	312.4	68.5	9.08457				
		68.0	1.2 ,,	5 38 49	314.5	68.7	9.08485				
	17	68.9	1.0 ,,	9 07 56	308.7	66.8	9.08408	67.8	5.5091	312.4	68.2
		69.4	1.1 ,,	7 06 15	310.8	67.6	9.08412				
		70.1	1.2 ,,	5 38 29	311.2	67.8	9.08446				
	18	71.0	1.0 ,,	9 08 23	306.3	68.7	9.08446	67.5	5.5057	307.7	66.8
		72.7	1.1 ,,	7 06 34	309.8	69.3	9.08449				
		74.2	1.2 ,,	5 38 45	311.7	70.0	9.08494				

I. 18 Deflecting 3.67 inches.

Vibration.	Results.				Means.			Monthly Means.		Date.	
	Log. Values of $m X$	$m$	$X$	Bifilar.		Values of $X$	Bifilar.		Bifilar at 55°		Values of $X$
				Mean reading on day of observation.	Temperature.		Sc. Div.	Temperature.			
										1852	
0.17475	0.4276	3.4966	341.2	53.4	3.4986	342.2	52.1	338.9	3.4986	16	
	0.4278	3.4952									
	0.4277	3.4959									
0.17518	0.4278	3.4991	342.2	52.7							
	0.4277	3.4998									
	0.4277	3.4994									
0.17501	0.4275	3.5002	343.3	50.2							
	0.4276	3.4988									
	0.4272	3.5021									
0.17583	0.4272	3.5090	343.3	57.5	3.5073	340.7	55.4	340.5	3.5069	17	
	0.4270	3.5101									
	0.4271	3.5094									
0.17583	0.4273	3.5080	341.1	54.1							
	0.4273	3.5083									
	0.4271	3.5092									
0.17507	0.4271	3.5035	337.8	54.7							
	0.4267	3.5026									
	0.4269	3.5052									
0.17467	0.4272	3.4998	333.0	77.0	3.5027	334.3	74.0	339.1	3.5013	16	
	0.4272	3.5009									
	0.4270	3.5009									
0.17510	0.4272	3.5037	335.3	72.9							
	0.4274	3.5022									
	0.4273	3.5023									
0.17488	0.4271	3.5029	334.6	72.2							
	0.4266	3.5067									
	0.4266	3.5054									
0.17470	0.4263	3.5066	326.2	70.4	3.5074	326.7	69.5	329.7	3.5055	16	
	0.4262	3.5071									
	0.4266	3.5045									
0.17491	0.4266	3.5072	327.4	70.8							
	0.4264	3.5073									
	0.4263	3.5085									
0.17486	0.4263	3.5087	326.5	67.3							
	0.4263	3.5087									
	0.4263	3.5084									
0.17396	0.4258	3.5054	310.9	67.1	3.5074	310.7	67.7	316.9	3.5103	16	
	0.4258	3.5050									
	0.4259	3.5039									
0.17454	0.4259	3.5093	310.4	66.7							
	0.4259	3.5092									
	0.4260	3.5079									
0.17494	0.4262	3.5094	310.9	69.3							
	0.4262	3.5093									
	0.4264	3.5076									



Magnets employed I. 15 suspended 3.00 inches;												
Date.	Experiments of Deflection.						Experiments of					
	Tem- perature of Magnet.	Distances. $r, r', r'', \&c.$	Angles. $u, u', u'', \&c.$ reduced to Tem- perature of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.		Log. Values $\frac{m}{X}$	Tem- perature of Magnet.	Time of one vibra- tion corrected for torsion of thread and rate of Chronometer, also reduced to Tempera- ture of 50°, and to the mean Bifilar reading on the day of observation.	Bifilar Magnetometer.			
				$k=.00036$	$q=.000114$				$k=.00036$	$q=.000114$		
		Feet.	$^{\circ} \quad ' \quad ''$	Sc. Div.	Therm.		Seconds.	Sc. Div.	Therm.			
1852 September.	16	58.0	1.0 + $\frac{1}{2} l$	9 04 09	306.4	59.1	9.08096	57.2	5.5248	305.3	59.1	
		58.8	1.1 ,,	7 03 27	307.4	59.4	9.08115					
	17	59.4	1.2 ,,	5 36 12	308.5	59.6	9.08138	60.3	5.5255	311.9	60.2	
		62.5	1.0 ,,	9 05 41	302.7	59.7	9.08223					
	18	63.8	1.1 ,,	7 03 55	304.0	60.0	9.08168	60.0	5.5286	303.2	59.6	
		62.5	1.2 ,,	5 35 18	311.3	62.0	9.08028					
	October.	16	63.7	1.0 ,,	9 04 39	304.0	61.2	9.08143	63.1	5.5249	310.8	61.9
			65.1	1.1 ,,	7 04 22	304.5	62.0	9.08214				
		17	65.2	1.2 ,,	5 36 32	307.7	61.8	9.08197	62.1	5.5250	301.8	60.6
			47.3	1.0 + $\frac{1}{2} l$	9 04 50	304.8	53.4	9.08135				
November.	18	48.0	1.1 ,,	7 03 06	306.2	53.3	9.08063	45.6	5.5285	304.5	53.6	
		50.0	1.2 ,,	5 36 15	308.0	53.3	9.08144					
	19	56.0	1.0 ,,	9 05 02	304.3	56.0	9.08164	55.7	5.5277	298.3	55.8	
		56.9	1.1 ,,	7 03 44	305.0	56.2	9.08139					
	December.	16	58.9	1.2 ,,	5 36 35	302.3	57.2	9.08190	59.8	5.5298	304.2	57.2
			52.5	1.0 ,,	9 04 03	302.3	55.5	9.08080				
		17	54.2	1.1 ,,	7 03 45	305.0	55.8	9.08138	49.6	5.5261	305.6	55.4
			55.9	1.2 ,,	5 36 13	307.0	56.6	9.08137				
December.	18	52.9	1.0 + $\frac{1}{2} l$	9 03 43	300.7	44.0	9.08054	44.7	5.5298	305.6	43.8	
		57.7	1.1 ,,	7 02 52	301.8	44.3	9.08053					
	19	66.9	1.2 ,,	5 35 34	306.1	45.5	9.08068	68.0	5.5315	308.6	46.7	
		53.0	1.0 ,,	9 03 38	304.9	46.4	9.08048					
	December.	17	53.6	1.1 ,,	7 03 15	305.1	46.7	9.08087	52.2	5.5259	306.1	46.1
			51.8	1.2 ,,	5 35 28	307.7	47.3	9.08036				
		18	50.0	1.0 ,,	9 03 48	307.2	45.0	9.08057	51.5	5.5266	308.4	47.5
			51.6	1.1 ,,	7 02 57	307.9	45.0	9.08054				
December.	16	49.5	1.2 ,,	5 35 25	309.5	45.5	9.08027	49.8	5.5244	307.0	45.2	
		64.2	1.0 + $\frac{1}{2} l$	9 03 06	307.7	42.3	9.08010					
	17	65.0	1.1 ,,	7 02 26	308.4	42.4	9.08017	63.2	5.5253	307.4	42.1	
		55.9	1.2 ,,	5 35 24	312.5	42.9	9.08033					
	December.	17	49.1	1.0 ,,	9 03 04	311.4	45.1	9.07999	54.7	5.5286	312.6	43.0
			52.9	1.1 ,,	7 02 57	311.4	45.0	9.07952				
18		50.8	1.2 ,,	5 35 34	314.5	45.3	9.08045	44.5	5.5323	311.6	45.2	
		50.0	1.0 ,,	9 03 24	308.6	36.7	9.08026					
December.	18	54.2	1.1 ,,	7 02 19	308.4	36.7	9.07990	49.8	5.5321	314.7	45.4	
		54.7	1.2 ,,	5 35 25	305.3	37.0	9.08033					
								44.2	5.5281	307.5	36.6	
								51.5	5.5325	307.8	37.1	

I. 18 Deflecting 3.67 inches.

Vibration.		Results.				Means.			Monthly Means.		Date.
Log. Values of <i>m</i> X.	<i>m</i>	X	Bifilar.		Values of X.	Bifilar.		Bifilar at 55°.	Values of X.		
			Mean reading on Day of observation.	Temperature.		Sc. Div.	Temperature.				
										1852	
0.17119	0.4227	3.5084	308.4	59.8	3.5059	307.8	60.7	311.2	3.5079	16	September.
	0.4228	3.5076									
	0.4228	3.5067									
0.17096	0.4222	3.5024	308.0	60.4							
	0.4229	3.5046									
	0.4222	3.5103									
0.17105	0.4228	3.5060	306.9	62.0							
	0.4231	3.5030									
	0.4230	3.5038									
0.17064	0.4227	3.5046	309.8	54.6	3.5047	308.4	56.3	310.5	3.5068	16	October.
	0.4223	3.5075									
	0.4227	3.5043									
0.17062	0.4227	3.5034	308.1	57.4							
	0.4226	3.5043									
	0.4228	3.5023									
0.17065	0.4224	3.5069	307.3	56.8							
	0.4226	3.5045									
	0.4226	3.5046									
0.17030	0.4221	3.5065	308.2	46.0	3.5078	309.2	46.3	306.1	3.5073	18	November.
	0.4220	3.5065									
	0.4220	3.5060									
0.17097	0.4224	3.5094	309.1	47.2							
	0.4226	3.5079									
	0.4223	3.5000									
0.17058	0.4222	3.5075	310.4	45.8							
	0.4222	3.5076									
	0.4221	3.5088									
0.17092	0.4221	3.5108	312.0	43.2	3.5091	312.1	41.8	306.1	3.5067	16	December.
	0.4221	3.5105									
	0.4222	3.5100									
0.17029	0.4218	3.5087	311.9	44.5							
	0.4216	3.5105									
	0.4215	3.5069									
0.17032	0.4220	3.5077	312.4	37.7							
	0.4218	3.5091									
	0.4215	3.5075									

*The following Memorandum regarding the elements of the calculations of the Absolute Horizontal Force Observations has been supplied by CAPTAIN YOUNGHUSBAND.*

THE series of observations of Absolute Horizontal Intensity detailed in this volume was commenced in January 1845, and continued without any interruption whatever to December 1852; it extends therefore over a period of eight complete years.

The observations were made on three days in each month, always about the same part of the month, the first day being on or about the 16th. Generally three distances were employed, and complete experiments of deflection and vibration made on each day. The instrument with which the observations were made was the portable unifilar magnetometer, and the same instrument, and the same deflecting magnet has been used throughout the whole series. The *near end* of the deflecting magnet was placed at 1.0, 1.1, 1.2, and occasionally at 1.3 feet from the centre of the suspended magnet; consequently the distances of deflection were 1.0, 1.1, 1.2, and 1.3 feet, + in each case half the length of the deflecting magnet. These distances correspond to 1.1527, 1.2527, 1.3527, &c. feet, as graduated on the deflecting tube of the unifilar, and the observations were calculated at Toronto in accordance with these data, to the end of the year 1851; but a very careful measurement of the graduation having been made by Captain Lefroy in October, 1851, by means of a beam compass, and referred to a brass standard measure of Troughton and Simms' manufacture, the true distances were found to be 1.1508, 1.2508, 1.3508, and 1.4508, respectively, at a standard temperature of 50°. The portion of the original calculations which include the distances of deflection as a function have accordingly been recalculated, using the new distances, the numerical values of which having been in each case made to correspond to the actual distance by multiplying the observed distance by  $1 + .00001(t^\circ - 50^\circ)$ ,  $t^\circ$  being the observed temperature, and .00001 the coefficient of expansion of the tube.

The series of deflections, as far as Dec. 1851, was formed into five groups, and the coefficient P. calculated for each group by means of the formula for two distances. The results were found as follows:—

From group 1,	P =	− .00516
, , 2,	=	− .00160
, , 3,	=	− .00279
, , 4,	=	− .00470
, , 5,	=	− .00559

The mean of these gives  $P = - .00395$ , which is the value employed in the calculations.

The Log. value of  $\pi^2 K$  used throughout is 1.6558266.

The bifilar magnetometer was observed at short regular intervals during the progress of the two parts of the experiment, and the observations of deflection and vibration reduced to a uniform reading, that reading being the mean reading for the day of observation. The monthly mean results, which correspond in the first instance to the mean bifilar reading of the three days on which the observations were made, have in the final columns been reduced to the mean bifilar reading for the month in which the observations were made.

MONTHLY DETERMINATION OF THE DECLINATION WITH A PORTABLE DECLINOMETER.

The Description of the Declinometer with which these Determinations were made, and of the mode of its employment, is given in the Abstracts, Adjustments, and Comments prefixed to this Volume, page iii. The Declination is West.

1845			1845			1846					
DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.			
	° ' "	Sc. Div.		° ' "	Sc. Div.		° ' "	Sc. Div.			
JANUARY.	20	1 29.63	112.27	JULY.	19	1 36.62	103.05	JANUARY.	19	1 33.03	112.08
	25	1 28.63	114.68		19	1 38.24	100.80		20	1 32.63	114.17
	25	1 29.22	116.94		19	1 34.60	110.63		20	1 34.20	110.96
	27	1 27.05	115.82		19	1 28.03	115.96		20	1 33.43	110.71
	27	1 23.38	120.02		21	1 29.90	114.49		21	1 30.25	118.85
	28	1 33.01	108.88		21	1 37.54	105.11		21	1 30.43	115.44
	Mean .	1 28.49	113.93		Mean .	1 34.16	108.34		Mean .	1 32.33	113.70
FEBRUARY.	13	1 25.99	114.68	AUGUST.	18	1 34.54	107.01	FEBRUARY.	19	1 28.59	115.76
	15	1 23.03	118.74		18	1 28.82	113.15		19	1 29.69	113.22
	15	1 26.40	114.67		20	1 34.43	105.85		19	1 29.66	113.03
	17	1 26.23	115.84		20	1 36.84	102.54		21	1 31.67	109.88
	17	1 30.79	109.25		20	1 36.68	104.31		21	1 31.68	110.17
	Mean .	1 26.69	114.36		Mean .	1 34.26	106.57		21	1 31.85	110.05
MARCH.	19	1 35.12	109.85	SEPTEMBER.	17	1 35.71	105.99	MARCH.	19	1 26.77	117.03
	20	1 41.85	95.98		18	1 33.91	109.83		19	1 29.87	110.86
	22	1 34.34	108.78		18	1 36.72	104.64		20	1 24.13	120.81
	22	1 33.08	112.86		18	1 36.60	104.68		20	1 28.02	115.18
	24	1 35.24	107.23		18	1 35.79	106.48		20	1 31.34	110.76
	24	1 37.96	104.16		19	1 36.21	108.02		20	1 34.75	106.05
Mean .	1 36.26	106.48	Mean .	1 35.82	106.61	Mean .	1 29.15	113.45			
APRIL.	17	1 32.81	112.00	OCTOBER.	17	1 34.82	109.44	APRIL.	21	1 26.51	117.71
	18	1 34.84	108.73		17	1 34.14	110.70		21	1 31.32	110.79
	18	1 37.97	104.92		18	1 28.96	119.84		21	1 33.70	107.18
	19	1 26.62	121.63		18	1 34.82	113.22		21	1 36.20	103.94
	19	1 36.52	106.82		20	1 33.52	110.89		22	1 28.57	114.79
	19	1 38.58	104.30		Mean .	1 32.65	112.82		22	1 33.55	107.84
Mean .	1 34.56	109.73	Mean .	1 32.65	112.82	Mean .	1 31.64	110.37			
MAY.	20	1 34.48	109.13	NOVEMBER.	18	1 31.86	111.53	MAY.	18	1 35.43	104.00
	20	1 35.57	109.38		18	1 33.46	109.94		18	1 39.79	97.94
	20	1 34.92	109.49		18	1 33.77	107.91		18	1 33.41	107.20
	20	1 34.12	111.41		18	1 31.38	109.57		18	1 32.78	107.98
	23	1 33.25	113.07		19	1 29.31	112.74		19	1 27.51	116.35
	23	1 36.18	106.13		19	1 31.15	110.67		19	1 31.22	110.72
Mean .	1 34.75	109.77	Mean .	1 31.82	110.39	Mean .	1 33.36	107.36			
JUNE.	24	1 31.55	111.63	DECEMBER.	20	1 32.31	116.80	JUNE.	19	1 34.12	105.14
	25	1 31.14	108.87		20	1 32.21	112.31		19	1 32.93	107.58
	25	1 31.71	111.14		22	1 30.32	116.33		20	1 27.65	115.39
	26	1 40.03	103.72		22	1 31.74	113.09		20	1 29.71	112.21
	26	1 30.66	114.80		22	1 31.94	111.78		20	1 31.66	109.52
	26	1 29.56	114.88		22	1 31.86	113.65		20	1 33.10	107.21
	27	1 34.50	110.00		Mean .	1 31.73	113.99		Mean .	1 31.53	109.51
	27	1 31.78	113.16		Mean .	1 31.73	113.99		Mean .	1 31.53	109.51

## Monthly Determination of the Declination with a Portable Declinometer—continued.

1846			1847			1847					
DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.			
	° ' "	Sc. Div.		° ' "	Sc. Div.		° ' "	Sc. Div.			
JULY.	20	1 30.04	114.36	JANUARY.	27	1 30.56	114.60	JULY.	23	1 36.77	105.55
	20	1 33.79	109.05		27	1 33.76	111.40		23	1 35.95	105.81
	20	1 36.96	108.62		27	1 32.95	113.20		24	1 32.50	109.91
	20	1 34.61	109.08		28	1 32.86	113.84		26	1 38.28	101.33
	20	1 34.93	108.82		28	1 32.51	113.48		26	1 41.45	98.12
	20	1 35.77	107.51		28	1 34.96	111.62		26	1 36.13	107.13
	Mean .	1 34.35	109.57		Mean .	1 32.93	113.02		Mean .	1 36.85	104.64
AUGUST.	18	1 36.93	103.58	FEBRUARY.	23	1 36.80	108.38	AUGUST.	20	1 38.03	105.06
	18	1 31.31	111.56		23	1 36.00	106.40		25	1 36.80	105.25
	19	1 36.18	104.73		25	1 38.42	105.79		25	1 39.21	102.00
	19	1 39.07	100.82		25	1 37.65	104.80		26	1 36.73	105.42
	19	1 37.19	104.65		25	1 36.05	107.69		26	1 40.25	100.93
	19	1 35.17	106.42		26	1 36.50	106.74		26	1 34.21	108.35
	Mean .	1 35.97	105.29		Mean .	1 36.90	106.63		Mean .	1 37.81	104.05
SEPTEMBER.	17	1 33.61	111.08	MARCH.	23	1 38.71	100.68	SEPTEMBER.	24	1 40.21	101.02
	17	1 39.24	102.42		24	1 38.47	102.77		25	1 41.98	98.17
	17	1 33.48	110.39		24	1 35.93	105.03		27	1 40.95	103.97
	18	1 32.40	111.58		24	1 31.53	110.10		28	1 31.93	112.09
	18	1 36.53	106.04		25	1 33.87	107.76		28	1 40.47	100.14
	18	1 38.33	103.11		26	1 37.81	102.50		28	1 37.83	103.81
	Mean .	1 35.60	107.44		Mean .	1 36.05	104.81		Mean .	1 38.24	104.24
OCTOBER.	15	1 31.87	113.19	APRIL.	23	1 38.12	103.25	OCTOBER.	25	1 37.80	106.22
	15	1 33.96	109.95		23	1 38.15	103.34		26	1 36.53	106.74
	15	1 33.74	111.21		23	1 36.33	104.67		27	1 30.98	118.36
	16	1 33.81	109.87		23	1 36.58	105.26		27	1 36.72	107.46
	16	1 35.20	107.84		24	1 39.73	101.40		28	1 35.60	110.54
	16	1 34.16	109.27		Mean .	1 37.78	103.58		28	1 37.72	108.38
	Mean .	1 33.79	110.22		Mean .	1 37.78	103.58		Mean .	1 35.90	109.62
NOVEMBER.	19	1 32.00	111.79	MAY.	27	1 38.37	102.66	NOVEMBER.	24	1 39.93	102.23
	19	1 34.74	109.55		27	1 36.08	105.45		24	1 38.46	105.26
	19	1 37.68	105.19		28	1 35.53	106.27		25	1 29.40	119.63
	19	1 37.45	105.86		28	1 36.20	103.91		25	1 34.25	112.69
	20	1 32.08	113.18		28	1 36.00	104.41		25	1 37.85	106.69
	20	1 35.67	107.99		28	1 32.62	109.28		25	1 47.36	93.36
	Mean .	1 34.94	108.93		Mean .	1 35.80	105.33		Mean .	1 37.88	106.64
DECEMBER.	21	1 34.15	110.31	JUNE.	26	1 38.13	102.17	DECEMBER.	24	1 40.18	104.63
	21	1 34.74	111.30		26	1 38.02	102.44		27	1 37.00	107.97
	21	1 33.98	111.21		26	1 35.90	105.54		27	1 37.30	109.13
	22	1 30.74	114.09		26	1 34.85	107.48		28	1 30.50	116.65
	22	1 34.32	111.22		28	1 39.46	99.51		28	1 31.63	114.77
	22	1 35.79	109.96		28	1 35.23	107.46		28	1 36.30	108.42
	Mean .	1 33.96	111.35		Mean .	1 36.93	104.10		Mean .	1 35.48	110.26

Monthly Determination of the Declination with a Portable Declinometer—continued.

1848			1848			1849					
DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.			
	° ' "	Sc. Div.		° ' "	Sc. Div.		° ' "	Sc. Div.			
JANUARY.	20	1 38·82	105·16	JULY.	22	1 42·88	105·11	FEBRUARY.	21	1 46·52	1084·27 <sup>a</sup>
	21	1 32·38	114·09		24	1 39·22	110·63		21	1 45·10	1088·93
	21	1 34·37	111·35		24	1 41·15	106·91		22	1 44·55	1090·71
	21	1 38·40	105·65		25	1 39·07	109·16		23	1 34·43	1110·79
	21	1 38·08	106·21		26	1 40·70	108·70		23	1 43·10	1092·99
	22	1 32·15	115·43		26	1 40·90	107·36		24	1 34·82	1112·96
Mean .	1 35·70	109·65	Mean .	1 40·65	107·94	Mean .	1 41·42	1096·78			
FEBRUARY.	23	1 30·58	122·34	AUGUST.	22	1 41·08	109·54	MARCH.	22	1 40·43	145·84
	24	1 37·22	114·77		23	1 42·75	109·03		23	1 33·55	154·89
	24	1 39·10	111·09		24	1 40·13	111·48		23	1 38·53	146·58
	24	1 37·40	114·50		24	1 43·77	106·72		23	1 43·47	140·42
	24	1 29·93	124·24		25	1 42·60	107·59		24	1 33·77	153·88
	25	1 31·13	123·07		26	1 40·73	105·68		24	1 44·75	139·76
Mean .	1 34·23	118·33	Mean .	1 41·84	108·34	Mean .	1 39·08	146·89			
MARCH.	22	1 34·93	115·26	SEPTEMBER.	22	1 39·65	108·79	APRIL.	24	1 38·93	143·81
	22	1 43·48	104·38		22	1 39·17	110·68		25	1 33·67	152·68
	23	1 40·43	108·24		23	1 40·62	107·95		25	1 42·75	139·05
	23	1 44·97	102·32		23	1 38·55	111·48		25	1 43·06	140·72
	23	1 31·85	121·28		24	1 35·03	116·66		26	1 41·37	142·21
	24	1 35·93	115·01		24	1 45·33	102·57		26	1 40·80	141·94
Mean .	1 38·60	111·08	Mean .	1 39·72	109·69	Mean .	1 40·10	143·40			
APRIL.	22	1 38·47	112·73	OCTOBER.	24	1 41·52	106·59	MAY.	21	1 39·30	146·16
	22	1 41·95	107·65		24	1 39·43	109·57		22	1 37·55	148·26
	24	1 38·90	112·05		25	1 44·47	104·44		22	1 44·25	138·51
	24	1 41·07	109·35		25	1 44·03	105·96		24	1 36·13	149·43
	25	1 38·00	113·46		26	1 41·17	109·58		25	1 34·00	152·84
	25	1 41·33	108·81		26	1 41·68	108·43		25	1 40·42	144·36
Mean .	1 39·95	110·67	Mean .	1 42·05	107·43	Mean .	1 38·61	146·59			
MAY.	23	1 38·12	111·17	DECEMBER.	27	1 33·15	116·63	JUNE.	22	1 43·97	138·83
	23	1 40·05	108·69		27	1 38·20	109·13		22	1 43·43	140·05
	24	1 36·85	112·02		27	1 38·27	109·16		23	1 34·23	153·67
	24	1 42·28	103·89		28	1 33·17	115·38		23	1 40·60	144·55
	25	1 35·98	113·55		28	1 36·93	110·96		25	1 44·58	137·14
	25	1 38·22	110·50		28	1 39·20	108·04		25	1 45·13	138·01
Mean .	1 38·58	109·97	Mean .	1 36·49	111·55	Mean .	1 41·99	142·04			
JUNE.	21	1 40·32	107·82	1849 JANUARY.	23	1 38·54	113·81	JULY.	23	1 39·47	145·46
	21	1 39·97	109·10		23	1 39·83	111·49		23	1 42·10	140·90
	22	1 32·95	118·58		23	1 50·52	97·38		23	1 45·33	137·73
	24	1 32·42	119·92		23	1 47·00	102·62		24	1 34·72	150·47
	24	1 36·38	114·47		24	1 31·70	122·60		24	1 38·13	146·43
	24	1 39·63	110·28		24	1 40·25	111·39		24	1 39·20	144·48
Mean .	1 36·94	113·36	Mean .	1 41·31	109·88	Mean .	1 39·82	144·25			

<sup>a</sup> Small Declinometer.

## Monthly Determination of the Declination with a Portable Declinometer—continued.

1849			1850			1850			1851		
DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.
	° /	Sc. Div.		° /	Sc. Div.		° /	Sc. Div.		° /	Sc. Div.
AUGUST.	20	1 41·15	142·54	FEBRUARY.	21	1 40·88	145·46	AUGUST.	20	1 47·13	359·00
	23	1 41·23	142·62		21	1 41·80	143·70		20	1 40·42	361·44
	23	1 37·07	148·64		25	1 36·28	153·15		21	1 43·73	357·17
	23	1 36·30	150·00		25	1 40·33	146·30		21	1 44·13	355·85
	24	1 40·18	144·67		26	1 35·40	153·63		21	1 48·37	350·67
	24	1 42·50	141·49		26	1 38·67	149·69		21	1 47·33	351·80
	Mean .	1 39·74	144·99		Mean .	1 38·89	148·65		Mean .	1 45·18	355·99
SEPTEMBER.	24	1 43·12	144·48	MARCH.	22	1 37·87	151·70	SEPTEMBER.	24	1 44·35	358·15
	25	1 34·62	154·42		22	1 40·90	147·75		24	1 45·87	352·52
	25	1 38·06	150·47		22	1 45·20	141·72		25	1 45·27	355·78
	35	1 41·12	146·38		23	1 31·18	160·72		25	1 48·27	351·44
	25	1 42·75	144·04		25	1 39·87	147·76		25	1 44·03	354·75
	25	1 39·63	147·23		26	1 37·74	150·98		26	1 42·18	359·52
	Mean .	1 39·88	147·84		Mean .	1 38·79	150·10		Mean .	1 45·00	255·36
OCTOBER.	20	1 37·17	150·28	APRIL.	24	1 41·67	347·40*	OCTOBER.	21	1 43·73	362·04
	20	1 40·85	145·08		24	1 43·85	343·75		21	1 42·40	363·27
	20	1 42·08	142·89		24	1 42·92	344·78		22	1 43·17	362·22
	22	1 44·28	138·71		25	1 35·92	356·02		23	1 43·45	361·22
	22	1 46·80	135·81		26	1 33·28	359·92		23	1 42·48	363·03
	23	1 37·25	149·21		26	1 37·47	354·27		24	1 33·23	376·04
	Mean .	1 41·40	14·66		Mean .	1 39·18	351·02		Mean .	1 41·41	364·64
NOVEMBER.	22	1 40·90	144·18	MAY.	23	1 48·52	342·70	NOVEMBER.	25	1 43·68	360·06
	22	1 42·73	141·92		23	1 45·10	347·93		25	1 42·85	361·89
	23	1 39·60	146·31		23	1 40·53	354·09		26	1 46·68	363·35
	23	1 35·65	151·36		23	1 39·63	355·73		26	1 48·30	359·84
	23	1 39·20	146·61		24	1 38·82	356·18		27	1 39·42	365·97
	24	1 46·81	146·29		24	1 41·20	352·62		27	1 43·02	360·84
	Mean .	1 40·82	146·08		Mean .	1 42·30	351·54		Mean .	1 43·99	361·99
DECEMBER.	22	1 36·58	153·81	JUNE.	21	1 40·54	355·49	DECEMBER.	26	1 42·35	360·05
	22	1 36·53	150·03		21	1 42·22	356·26		27	1 42·40	360·82
	24	1 37·95	152·85		21	1 39·97	358·01		27	1 42·65	360·91
	27	1 36·23	154·63		21	1 38·92	357·04		27	1 42·15	361·70
	27	1 35·48	155·24		22	1 33·58	365·74		28	1 38·85	367·83
					22	1 36·83	362·08		28	1 42·18	362·72
	Mean .	1 36·55	153·31		Mean .	1 38·67	359·10		Mean .	1 41·76	362·34
1850 JANUARY.	23	1 36·42	152·42	JULY.	23	1 38·38	361·71	1851 JANUARY.	21	1 42·57	360·07
	23	1 38·43	144·57		23	1 39·87	359·94		21	1 43·03	358·60
	25	1 32·47	157·40		23	1 40·58	358·57		21	1 48·42	351·69
	25	1 33·48	156·41		23	1 41·45	357·14		22	1 38·87	366·83
	25	1 35·39	150·30		23	1 41·38	356·89		22	1 44·63	358·04
	25	1 39·47	146·34		24	1 34·68	365·43		22	1 47·70	353·67
	Mean .	1 35·94	151·24		Mean .	1 39·39	359·95		Mean .	1 44·20	358·15

\* Large Declinometer finally dismantled. Portable Declinometer.

Monthly Determination of the Declination with a Portable Declinometer.

1851			1851			1851					
DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.	DATE.	Declination Observed.	Reading of the Observatory Declinometer.			
	° ' "	Sc. Div.		° ' "	Sc. Div.		° ' "	Sc. Div.			
FEBRUARY.	24	1 43·07	363·10	JUNE.	23	1 42·65	360·00	OCTOBER.	21	1 43·55	358·60
	24	1 43·03	363·72		23	1 42·67	361·28		22	1 44·93	353·38
	25	1 42·10	363·00		23	1 42·92	360·59		22	1 47·92	351·84
	25	1 42·50	364·39		24	1 38·52	367·33		23	1 39·83	364·52
	25	1 46·58	357·91		24	1 41·10	362·85		23	1 46·05	354·62
	25	1 46·08	358·53		24	1 43·08	360·21		23	1 46·55	355·00
Mean .	1 43·89	361·77	Mean .	1 41·82	362·04	Mean .	1 44·80	356·33			
MARCH.	24	1 45·37	356·72	JULY.	21	1 42·38	358·26	NOVEMBER.	24	1 48·73	349·40
	25	1 43·28	360·20		22	1 41·22	360·73		24	1 46·40	354·26
	25	1 44·27	359·15		22	1 41·43	360·04		25	1 40·60	360·74
	25	1 45·53	357·65		22	1 44·80	356·24		25	1 44·28	355·40
	26	1 35·17	372·12		22	1 46·48	353·84		26	1 43·82	355·60
	26	1 36·60	370·10		22	1 44·03	356·80		26	1 43·35	355·36
Mean .	1 41·70	362·66	Mean .	1 43·39	357·65	Mean .	1 44·53	355·13			
APRIL.	23	1 45·63	357·46	AUGUST.	21	1 46·73	354·54	DECEMBER.	22	1 50·13	346·62
	23	1 41·28	363·97		21	1 44·67	358·30		22	1 47·95	349·24
	23	1 43·85	359·85		22	1 48·10	353·00		22	1 45·93	355·26
	23	1 46·72	356·12		22	1 49·03	352·54		23	1 43·52	357·62
	24	1 42·92	361·04		23	1 46·65	356·86		23	1 48·50	351·56
	24	1 44·47	359·12		23	1 47·77	357·86		23	1 50·33	349·14
Mean .	1 44·15	359·59	Mean .	1 47·16	355·52	Mean .	1 47·73	351·57			
MAY.	20	1 45·25	355·56	SEPTEMBER.	23	1 46·78	354·04				
	20	1 46·32	354·26		23	1 46·70	353·46				
	20	1 44·22	357·64		24	1 49·48	350·54				
	20	1 42·95	360·22		24	1 49·18	350·32				
	21	1 44·95	357·12		25	1 42·02	360·56				
	21	1 45·18	360·38		25	1 44·57	356·33				
Mean .	1 44·81	357·53	Mean .	1 46·45	354·21						