RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1852.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1852.)

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MAGNETOMETERS.

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The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory, as it existed in the year 1847, will be found in the Introduction to the Volume of the Magnetical and Meteorological Observations for that year, at page lxxx. Since that time the following alterations have occurred :—

In February 1848, Mr. Lovelace resigned, and was replaced by Mr. John Charles Henderson.

In 1849, the establishment of observers was reduced, with the intention of carrying on the observations and reductions on a more limited scale, and the only assistants retained were Mr. Glaisher the Superintendant, and Mr. Henderson; Mr. Humphreys about this time having resigned. Mr. Downs was still, however, employed as a computer to the establishment.

In 1852, on the occasion of the death of Mr. Ellis, Mr. Henderson was transferred to the Astronomical Department of the Observatory, and his place was filled by Mr. Downs.

No important change has since that time occurred in the establishment; but in general one and sometimes two or more supernumerary assistants are found necessary to assist in the observations and reductions.

For description of the three Magnetometers, the method of observing by the Telescope, and the method of reducing the observations, the reader is referred to the *Greenwich Magnetical and Meteorological Observations* for 1847, Introduction, pages i to xlii; and to corresponding parts of the preceding volumes.

During the year 1852, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two observations only have been taken; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 3, 7, February 8, 18, March 28, April 3, May 14, 15, July 15, August 20, 28, September 2, October 23, 29, November 25, December 7 and 20.

Observations of the angle of torsion of the HORIZONTAL FORCE MAGNETOMETER were made on January 5. The angle determined was 42°.58′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on January 5 and 6, resulting in the conclusion, that the scale-readings were nearly identical and had nearly the usual value when the reading of the torsion-circle was 144° (marked end West); and 230° (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 144°.

The number used for the variation of horizontal force corresponding to a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·002056.

The correction for temperature is $0{\cdot}0000809\,(t-32) + 0{\cdot}000000762\,(t-32)^2$, where t is the temperature in degrees of Fahrenheit's scale. This is *not* applied to any of the results of observation.

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made two, three, or four times a week. The adopted time of vibration till April 13 was 20ˢ·42; from April 14 to May 31, 22ˢ·7; from June 1 to November 4, 21ˢ·45; and from November 4 to the end of the year, 20ˢ·00.

Observations for the time of vibration in a horizontal plane were made in 1848, July, and the time was found to be 24ˢ·0164 from 7000 vibrations. The values of the disturbing force, in terms of the whole vertical force, corresponding to one

division of the scale, are inferred to be 0·000856 till April 13; 0·000693 from April 14 to May 31; 0·000798 from June 1 to November 4; and 0·000892 from November 5 to the end of the year; and these numbers are used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 \times (t-32)^2$. This is *not* applied to any of the results of observation.

The methods adopted in the use of the Photographic Apparatus; in the determination of zeros both for time and for magnetic indications; and in the translation into numbers of the indications given by the Photographic Traces, for arbitrary times; are in every respect the same as those described in the Addendum to the Introduction to the *Greenwich Magnetical and Meteorological Observations*, 1847, pages lxxxiii to xc.

It is proper, however, to mention that, in measuring the ordinates of the Vertical Force Curves, the same difficulty that is mentioned in the three preceding volumes has still occasionally been felt. Apparently without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities, but, at times, by a considerable quantity. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

In general the ordinates of the Photographic Curves have been measured so frequently, including all maxima and minima, that a reader, laying down a succession of points by means of the given times as abscissæ, and the given measures of force as ordinates, connecting these points by straight lines, and attending to the symbols as explained in the foot-notes, will very nearly reproduce the original curves.

At times when the Vertical Force trace is dislocated, two ordinates have been taken for the same abscissa; these are connected by a brace, and the difference of the numbers included by the brace indicates the amount of the disturbance.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 1		Jan. 1		Jan. 1				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 23. 55	0. 15	·1083	0. 15	·01209	1. 40	44 ·0	48 ·0
2. 20	23. 30	2. 30	·1072	2. 20	·01140	3. 40	45 ·5	49 ·0
2. 28	22. 15	8. 0	·1082	4. 30	·01019	9. 40	42 ·0	46 ·0
4. 0	21. 10	9. 0	·1067	7. 38:	·00830	21. 45	40 ·0	45 ·0
8. 42	21. 0	9 20:	·1057	10. 16	·00900			
9. 54	6. 15	10. 0	·1067	12. 0	·00925			
9. 59	8. 25	10. 6	·1075	16. 2	·01185			
10. 6	7. 30	10. 30	·1057	23. 30	·01180			
	***	12. 0	·1073					
14. 2	22. 0	14. 7	·1083					
14. 40	20. 10	14. 50:	·1079					
17. 0	22. 20	21. 10	·1091					
17. 45	19. 0	23. 50:	·1074					
21. 50	19. 0							
23. 30	22. 20							
Jan. 2		Jan. 2		Jan. 2				
1. 0	22. 22. 55	0. 10	·1074	0. 15	·01170	1. 40	43 ·0	47 ·8
7. 0	19. 30	2. 30:	·1082	2. 0	·01059	3. 35	47 ·0	49 ·0
10. 46	17. 35	8. 20:	·1080	4. 30	·00760	9. 32	46 ·0	49 ·0
13. 14	19. 45	11. 30:	·1077	5. 30	·00619	21. 40	45 ·0	50 ·0
13. 40	18. 10	14. 10:	·1077	12. 15	·00585			
17. 30	19. 25	20. 35	·1082	14. 28	·00564			
21. 30	18. 15	21. 0	·1079	21. 49	·00554			
23. 58	27. 0	22. 0:	·1081	23. 9	·00607			
		23. 20	·1071	23. 55	·00602			
Jan. 3		Jan. 3		Jan. 3				
1. 30	22. 26. 20	1. 5	·1071	0. 4	·00612	1. 40	47 ·5	53 ·0
4. 0	24. 35	3. 20	·1073	3. 34	·00722	3. 40	49 ·0	53 ·0
5. 15	26. 40	5. 20	·1068	4. 40	{·00731	9. 40	49 ·0	53 ·0
6. 10	24. 15	7. 35:	·1075		{·00844	22. 40	48 ·0	53 ·5
7. 30	25. 30	11. 25	·1077	5. 10	·00806			
9. 38	22. 50	12. 35	·1065	5. 40	·00801			
9. 52	23. 50	13. 0:	·1075	7. 48:	·00765			
12. 30	20. 25	14. 20:	·1062	10. 23	·00800			
12. 50	22. 30	15. 5:	·1070	12. 43	·00890			
13. 24	17. 0	15. 40	·1065	13. 7	·00885			
13. 53	16. 0	19. 10	·1080	14. 25	·00920			
14. 36	21. 45	19. 16	·1072	16. 48	·00959			
15. 20	18. 35	19. 30:	·1078	18. 30	·00922			
16. 30	23. 25		***	19. 11	·00888			
17. 40	20. 35	21. 35	·1074	19. 17	·00880			
18. 32	23. 50	22. 25:	·1067	22. 52	·00767			
19. 14	23. 35	23. 27	·1078	23. 42	·00751			
19. 20	25. 0							
19. 27	23. 0							
20. 3	24. 0							
20. 23	21. 35							
20. 51	23. 0							
	***							
22. 50	23. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 4		Jan. 4		Jan. 4				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 27. 15	0. 0	·1070	0. 15	·00768	7. 40	46 ·0	52 ·0
	***		***	3. 32	·00844	21. 48	39 ·0	44 ·5
0. 8	26. 0	0. 50	·1052	4. 3	·00828			
	***		***	4. 30	·00848			
0. 20	28. 45	1. 5	·1066		***			
	***		***	5. 45	·00859			
0. 29	27. 25	3. 0	·1057	6. 11	·00905			
	***	3. 40	·1078	6. 26	·00920			
1. 33	39. 0	4. 5	·1071	8. 32	·00961			
	***		***	8. 48	·01023			
2. 40	29. 35	4. 30	·1083	9. 4	·01015			
	***	5. 10	·1054		***			
3. 24	28. 5	5. 30	·1070	10. 3	·01005			
	***	6. 5	·1040	10. 33	·01060			
4. 2	32. 30		***	10. 43	·01040			
	***	7. 10	·1060	10. 55	·01025			
4. 41	32. 0	7. 40	·1052	11. 15	·00972			
	***	8. 10	·1067	11. 46	·01040			
5. 3	37. 10	8. 42	·1041	12. 14	·01121			
	***		***	13. 46	·01244			
5. 28	26. 25	10. 0	·1078	14. 30	·01211			
	***	10. 6	·1078	19. 48	·01150			
6. 14	33. 25	10. 30:	·1054		***			
	***		***	23. 0	·01132			
6. 38	27. 30	11. 7	·1096	23. 23	·01151			
	***	11. 30:	·1067	23. 44	·01192			
7. 28	25. 0	11. 45:	·1075					
	***	12. 0:	·1060					
7. 32	27. 30		***					
	***	13. 45	·1077					
8. 22	25. 45	15. 15:	·1068					
	***		***					
8. 52	16. 0	18. 15	·1086					
	***		***					
9. 15	26. 55	19. 0	·1076					
	***		***					
9. 47	0. 35	22. 0	·1085					
	***							
10. 9	9. 40							
	***							
10. 22	6. 0							
	***							
11. 3	29. 25							
	***							
11. 32	10. 35							
	***							
12. 29	24. 25							
	***							
12. 44	21. 10							
	***							
13. 6	24. 5							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 4								
h m	° ′ ″	h m		h m		h m	°	°
13. 15	22. 23. 5							
	***							
13. 31	26. 30							
	***							
13. 43	25. 25							
	***							
13. 59	27. 30							
	***							
15. 40	30. 0							
	***							
18. 15	26. 0							
	***							
18. 57	28. 15							
	***							
19. 20	31. 15							
	***							
19. 41	25. 30							
	***							
19. 46	29. 20							
	***							
19. 53	26. 5							
	***							
20. 1	28. 5							
	***							
22. 2	23. 20							
	***							
23. 20	29. 0							
	***							
23. 38	22. 20							
	***							
23. 50	31. 10							
	***							
Jan. 5		Jan. 5		Jan. 5				
1. 30	22. 26. 25	1. 30	·1132	1. 2	·01160	1. 49	44 ·0	48 ·0
	***		***	1. 17	·01143	3. 40	48 ·0	53 ·5
1. 45	27. 55	3. 10	·1130	1. 29	·01141	9. 45	48 ·0	51 ·5
	***		***	3. 51	·00801	21. 40	44 ·0	47 ·8
2. 3	26. 0	3. 55:	·1125	4. 10	·00760			
	***		***	4. 32	·00672			
3. 29	27. 0	4. 10	·1135	4. 38	·00674			
	***		***	4. 52	·00709			
4. 22	22. 55	4. 30	·1116	8. 7	·00655			
	***		***	8. 19	·00643			
4. 48	12. 55	4. 50	·1140	8. 34	·00649			
	***		***	8. 54	·00605			
5. 45	23. 20	5. 50	·1131	9. 5	·00609			
	***		***	9. 22	·00582			
6. 30	24. 5	6. 25	·1134	9. 33	·00595			
	***		***	10. 19	·00590			
7. 16	21. 0	7. 0:	·1126	13. 30	·00610			
	***	7. 20	·1138	23. 33	·01090			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 5		Jan. 5		Jan. 5				
h m	° ′ ″	h m		h m		h m	°	°
8. 4	22. 23. 0	7. 53	·1128	23. 10	·01071			
	***		***	23. 13	·01083			
8. 23	10. 30	8. 17	·1130					
	***	8. 45	·1162					
8. 48	27. 50	8. 58	·1136					
	***	9. 10	·1152					
9. 3	20. 0	9. 31	·1120					
	***	9. 48	·1158					
9. 18	26. 30	10. 10	·1140					
	***	10. 33	·1143					
9. 33	14. 0	10. 50	·1131					
	***	11. 37	·1130					
9. 59	21. 5	11. 54	·1137					
	***	12. 12	·1132					
10. 15	19. 30	12. 47	·1140					
	***	12. 55	·1137					
10. 45	20. 30	13. 15	·1140					
	***	15. 12	·1138					
11. 1	17. 15	15. 27:	·1144					
	***	15. 40	·1138					
12. 43	26. 10	16. 26	·1146					
	***	17. 35	·1144					
13. 44	24. 0	17. 52	·1151					
	***	19. 0	·1144					
14. 53	27. 10		***					
	***	22. 0	·1140					
15. 18	24. 45							
	***							
15. 57	28. 50							
	***							
18. 15	23. 0							
	***							
19. 0	24. 55							
	***							
21. 18	21. 50							
	***							
22. 46	23. 0							
	***							
23. 28	27. 15							
	***							
23. 40	24. 0							
	***							
Jan. 6		Jan. 6		Jan. 6				
1. 28	22. 29. 5	0. 42	·1017	0. 21	·01040	1. 40	47 ·5	51 ·0
	***	2. 10	·1012	1. 23	·00990	3. 40	49 ·5	53 ·0
2. 30	28. 25	2. 42	·0978	2. 44	·00772	9. 40	50 ·5	54 ·4
	***	3. 5	·1014	3. 5	·00740	21. 40	49. 0	52 ·4
3. 0	16. 40		***	4. 1	·00790			
	***	5. 18	·1023		·00871			
3. 58	25. 55	5. 35	1012	6. 44	·00750			
	***	6. 18	1036	8. 38	·00760			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

January 5d. 22h. The adjustment of the Horizontal Force Magnet was altered, so as to make the readings less by about 0 ·012.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 6		Jan. 6		Jan. 6		h m	o	o
h m	o ′ ″	h m		h m				
5. 28	22. 21. 30	6. 40	·1020	8. 53	·00740			
	***		***	12. 24	·00823			
5. 50	14. 25	8. 10	·1013	19. 30	·01098			
	***	8. 34	·1056	22. 43	·01050			
6. 32	20. 35		***		***			
	***	8. 48	·1023					
6. 44	16. 45		***					
	***	9. 55	·1016					
7. 58	23. o	11. 45	·1026					
	***	12. 54	·1026					
8. 22	10. 30		***					
	***	13. 16	·1034					
8. 44	21. 30	13. 42	·1026					
	***	16. 12	·1018					
9. 10	14. o		***					
	***	18. 12	·1032					
9. 45	21. 45	23. 45	·1016					
	***	23. 59	·1016					
12. 29	20. 50							
	***							
13. 24	27. o							
	***							
13. 54	21. 40							
	***							
14·30	23. 30							
	***							
15. 24	21. o							
	***							
16. 45	24. 40							
	***							
17. 50	22. o							
	***							
18. 26	21. 5							
	***							
22. 12	20. 25							
	***							
23. 57	24. o							
	***							
Jan. 7		Jan. 7		Jan. 7				
1. o	22. 25. 30	0. 40	·1012	0. 34	·00867	1. 40	52 ·0	55 ·4
	***		***	1. 31	·00757	3. 40	54 ·0	57 ·0
2. 20	27. o	4. 20	·1005	2. 20	·00846	9. 40	53 ·0	57 ·0
	***	9. 48	·1018		***	21. 40	46 ·0	50 ·4
3. 31	22. 20	10. o	·1026	4. 19	·00862			
	***	10. 13	·1022	4. 33	·00960			
6. 39	19. 15		***	9. 22	·01096			
	***	12. 24	·1018	13. 57	·01411			
7. 10	22. o	19. 26	·1038	22. 25	·01283			
	***	23 59	·1027	23. 30	·01298			
9. 50	22. o							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 7						h m	o	o
h m	o ′ ″	h m		h m				
10. 50	22. 18. o							
	***							
11. 15	20. 5							
	***							
15. 30	24. 50							
	***							
20. 30	23. 10							
	***							
22. o	19. o							
	***							
23. 58	25. o							
	***							
Jan. 8		Jan. 8		Jan. 8				
1. o	22. 25. 15	1. o	·1023	0. 40	·01321	1. 40	47 ·5	52 ·8
	***	2. 31	·1017	2. 40:	·01241	3. 40	50 ·0	55 ·0
5. 50	21. 5	7. 42	·1028	7. 46	·00675	9. 40	49 ·0	54 ·0
	***	8. 40	·1014	11. 44	·00791	21. 40	47 ·5	52 ·5
8. o	23. 10	10. 48	·1026	18. o	·00770			
	***	12. 40	·1020	21. 52	·00861			
8. 46	19. 25	13. 12	·1027					
	***	15. 33	·1023					
11. 38	18. 35	20. 42	·1032					
	***		***					
11. 46	22. 40	23. 42	·1024					
	***	23. 45	·1032					
12. 39	15. 50	23. 46	·1018					
	***							
13. 20	20. o							
	***							
17. 38	22. 15							
	***							
20. 30	23. 25							
	***							
22. 17	19. 10							
	***							
23. 50	23. 25							
	***							
Jan. 9		Jan. 9		Jan. 9				
1. o	22. 23. 45	0. 2	·1026	1. 40:	·01165	1. 40	49 ·0	53 ·0
	***	0. 5	·1018	4. 41:	·00959	3. 40	50 ·0	54 ·0
3. 30	23. 5	2. 50	·1022	6. 38:	·00935	9. 40	47 ·0	49 ·0
	***		***	10. 27	·01189	21. 40	39 ·0	42 ·5
4. 45	23. 35	3. 56	·1022	14. 2	·01100			
	***	5. 24	·0997	22. 39	·01020			
5. 8	21. o	6. 12:	·1019					
	***	6. 27	·1013					
6. o	24. 40		***					
	***	7. 15	·1026					
6. 30	24. o	8. 14	·1022					
	***		***					

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Jan. 9		Jan. 9						
h m	° ′ ″	h m		h m		h m	°	°
6. 46	22. 24. 50	9. 0	·1028					
	***	9. 33	·1022					
7. 20	22. 45	12. 12	·1023					
	***	13. 14	·1032					
8. 2	25. 0	13. 30:	·1045					
	***	14. 32	·1036					
9. 8	21. 45	18. 30	·1035					
	***		***					
10. 8	23. 50	19. 30	·1040					
	***	21. 0	·1036					
13. 0	23. 0	21. 30:	·1040					
	***	23. 59	·1019					
13. 20	20. 15							
	***							
13. 50	25. 5							
	***							
14. 36	18. 55							
	***							
17. 30	23. 0							
	***							
18. 30	24. 35							
	***							
18. 48	24. 0							
	***							
21. 0	24. 35							
	***							
22. 7	21. 35							
	***							
23. 45	26. 0							
	***							
Jan. 10		Jan. 10		Jan. 10				
1. 0	22. 25. 30	0. 15	·1020	3. 3	·00800	1. 40	44 ·0	45 ·5
1. 20	23. 10		***	4. 31	·00500	3. 40	46 ·0	49 ·0
5. 30	21. 35	6. 20	·1028	5. 30	·00499	9. 40	44 ·0	48 ·0
	***		***	9. 0	·00445	22. 50	46 ·0	50 ·5
6. 42	23. 10	7. 20	·1012	9. 32	·00471			
	***		***	9. 50	·00450			
7. 26	18. 50	7. 50	·1026	10. 3	·00460			
	***		***	10. 19	·00429			
7. 45	17. 40	8. 10	·1027	13. 48	·00615			
	***	8. 22	·1015	18. 40	·00850			
8. 33	26. 15		***	22. 12	·00651			
	***	8. 40	·1013	23. 55	·00584			
8. 44	24. 0	8. 56	·1022		***			
	***	9. 20	·1010					
9. 5	27. 10	9. 33	·1011					
	***	9. 45	·1022					
9. 25	25. 20	9. 50	·1014					
	***	10. 5	·1046					
9. 43	26. 0	10. 10	·1038					
	***	10. 13	·1047					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 10		Jan. 10						
h m	° ′ ″	h m		h m		h m	°	°
10. 3	22. 13. 45	10. 44	·1012					
	***	11. 0	·1013					
10. 42	21. 35	11. 15	·1020					
	***		***					
11. 2	17. 15	12. 0	·1025					
	***	12. 10	·1025					
12. 15	22. 30		***					
	***	13. 33	·1020					
13. 23	17. 20		***					
	***	14. 30	·1047					
13. 51	20. 0	15. 10	·1024					
	***		***					
14. 41	13. 50	18. 34	·1042					
	***		***					
15. 8	17. 5	21. 3	·1032					
	***		***					
15. 17	16. 0	22. 52	·1030					
	***							
16. 30	22. 30							
	***							
18. 18	21. 25							
	***							
21. 5	20. 10							
	***							
21. 20	22. 0							
	***							
21. 37	19. 10							
	***							
22. 32	21. 0							
	***							
22. 42	24. 0							
	***							
22. 53	22. 45							
	***							
Jan. 11		Jan. 11		Jan. 11				
1. 0	22. 29. 30	0. 0	·1025	2. 40	·00800	10. 0	50 ·0	58 ·0
	***		***	5. 14	·00954	21. 40	50 ·0	52 ·0
1. 15	30. 15	1. 13	·0995		***			
	***		***	10. 7	·00900			
1. 28	27. 30	1. 26	·0997		(†)			
	***		***	11. 10	·00828			
1. 39	30. 00	1. 29	·0993	15. 48	·01323			
	***		***	17. 40	·01302			
1. 47	26. 10	1. 35	·1000					
	***		***					
1. 51	28. 5	1. 42	·0998					
	***		***					
2. 27	24. 40	1. 50	·1013					
	***	1. 54	·1010					
2. 45	27. 30		***					
	***	2. 42	·1024					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 11		Jan. 11						
m	° ′ ″	h m		h m		h m	°	°
3. 8	22. 25. 20	3. 45	·1027					
	***	4. 52	·0998					
4. 5	28. 0		***					
5. 36	21. 55	7. 4	·1021					
6. 10	25. 20		***					
7. 30	18. 40	7. 9	·1018					
7. 54	14. 5		***					
8. 30	20. 20	7. 18	·1020					
8. 42	19. 0		***					
9. 4	21. 30	7. 20	·1016					
10. 12	19. 15		***					
11. 2	20. 35	7. 33	·1024					
11. 36	19. 0	7. 50	·1020					
12. 2	20. 35	8. 3	·1034					
16. 0	22. 0	8. 34	·1020					
16. 36	23. 55		***					
16. 48	23. 0	11. 0	·1019					
17. 2	24. 25	11. 40	·1008					
17. 24	22. 30	11. 50	·1028					
18. 57	21. 0	12. 35	·1023					
20. 15	20. 10	13. 0	·1020					
20. 46	21. 30	15. 20	·1024					
21. 59	19. 10	17. 0	·1020					
23. 46	22. 20	17. 35	·1024					
			***					
		18. 15	·1020					
		20. 15	·1026					
			***					
		23. 40	·1008					
		23. 59	·1004					
Jan. 12		Jan. 12		Jan. 12				
1. 30	22. 25. 30	1. 15	·1003	1. 36	·01155	1. 40	54 ·0	55 ·0
6. 0	22. 30		***	2. 29	·01077	3. 40	56 ·0	58 ·8
7. 50	22. 10	3. 9	·1004	4. 38	·00812	9. 40	56 ·0	58 ·8
8. 32	12. 45	5. 35	·1014	5. 17	·00858	21. 45	50 ·0	56 ·0
8. 59	19. 30		***	5. 41	{ ·00855			
9. 20	15. 5	5. 48	·1013		{ ·00891			
10. 10	21. 30	7. 10	·1013	8. 54	·00851			
11. 13	21. 0		***	11. 57	·00800			
11. 37	25. 45	8. 20:	·1003	13. 30	·00842			
11. 56	22. 15		***	22. 16	·01414			
12. 40	24. 10	8. 45	·1013	23. 55	·01400			
13. 28	21. 20	9. 10	·1010					
15. 23	24. 5	9. 30	·1016					
16. 31	24. 40	10. 0	·1006					
19. 26	24. 0	11. 18	·1010					
19. 36	21. 55	11. 26	·1016					
20. 0	24. 0	12. 0	·1019					
20. 8	22. 55	12. 13	·1015					
22. 16	22. 35	12. 23	·1020					
22. 47	20. 50	12. 30	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 12		Jan. 12						
h m	° ′ ″	h m		h m		h m	°	°
23. 45	22. 24. 30	13. 0:	·1014					
		13. 30	·1016					
		16. 18	·1017					
		18. 50	·1026					
			***					
		19. 26	·1020					
			***					
		19. 42	·1026					
			***					
		20. 0	·1024					
			***					
		22. 5	·1018					
		23. 0	·1005					
			***					
		23. 59	·1000					
Jan. 13		Jan. 13		Jan. 13				
1. 0	22. 23. 25	3. 0:	·0996	0. 58	·01431	1. 40	51 ·8	54 ·0
2. 0	25. 20		***	2. 58	·01436	3. 40	52 ·0	56 ·0
7. 18	21. 30	5. 30	·1006	6. 14	·01237	9. 40	54 ·0	55 ·0
7. 43	18. 30	7. 23	·1011		†	21. 50	52 ·0	54 ·8
8. 3	20. 0	7. 35	·1005	9. 40	·00907*			
8. 40	15. 5	8. 46	·1019	21. 50	·00860*			
10. 11	20. 15		***					
10. 32	18. 0	10. 26	·0996					
12. 10	21. 0	12. 0	·1006					
13. 7	17. 10	12. 30	·1004					
13. 26	18. 30	13. 0	·1013					
13. 44	16. 30	13. 45	·1004					
15. 30	22. 15	20. 50	·1018					
19. 17	22. 35	23. 59	·0995					
22. 10	19. 45							
23. 57	22. 0							
Jan. 14		Jan. 14		Jan. 14				
1. 0	22. 23. 35	1. 0	·0989	1. 40	·00805*	1. 40	55 ·0	58 ·4
3. 30	24. 30	3. 0	·0988	3. 40	·00835*	3. 40	57 ·0	60 ·3
6. 0	21. 35	9. 20	·1009	9. 40	·00788*	9. 40	57 ·0	57 ·0
9. 48	23. 35	12. 0	·1008	21. 40	·01266*	21. 40	52 ·2	53 ·0
10. 8	22. 20	19. 30	·1022					
13. 0	24. 25	20. 30	·1024					
15. 15	24. 50	23. 29	·1009					
18. 0	23. 0							
21. 59	20. 35							
23. 45	23. 0							
Jan. 15		Jan. 15		Jan. 15				
1. 0	22. 24. 5	0. 32	·1003	1. 0	·01247	1. 40	55 ·0	55 ·5
9. 0	23. 25	2. 15	·0995	1. 55	·01200	3. 40	56 ·0	58 ·0
9. 26	22. 25	7. 30	·1008	2. 50	·01081	9. 40	57 ·0	61 ·0
21. 22	21. 5	11. 26	·1013	4. 2	·00820	21. 40	54 ·0	59 ·4

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

The time-piece of the Vertical Force Magnet stopped on January 13, and on January 14 was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 15		Jan. 15		Jan. 15				
h m	° ′ ″	h m		h m		h m	°	°
21. 59	22. 18. 55	12. 0	·1010	5. 40	·00860			
23. 45	23. 0	12. 35	·1010	8. 16	·00825			
		12. 45	·1014	9. 59	·00821			
		20. 30	·1018	10. 35	·00813			
		23. 30	·0996	12. 42	·00915			
		23. 59	·0996	14. 8	·00942			
				16. 48	·00940			
				19. 33	·00841			
				20. 33	·00821			
				22. 50	·00868			
				23. 21	·00885			
Jan. 16		Jan. 16		Jan. 16				
1. 0	22. 25. 0	2. 30	·0992	2. 12	·00820	1. 40	57 ·0	59 ·4
6. 20	22. 5	7. 30	·1009	3. 20	·00879	3. 40	59 ·0	61 ·4
9. 30	23. 30	12. 0	·1014	4. 18	·00887	9. 40	57 ·0	60 ·2
13. 47	22. 55	12. 42	·1014	5. 8	·00870	21. 40	51 ·5	55 ·4
18. 0	23. 40	17. 30	·1024	6. 2	·00833			
18. 28	24. 35	19. 0	·1030	7. 54:	·00855			
20. 30	22. 25	23. 30	·1006	18. 32	·01462			
21. 0	19. 25	23. 59	·1005	22. 20	·01430			
23. 45	22. 30			23. 51	·01454			
Jan. 17		Jan. 17		Jan. 17				
1. 0	22. 24. 25	0. 30	·1005	2. 59	·01318	1. 40	54 ·0	57 ·5
2. 48	27. 0	1. 20	·1004	3. 36	·01250	3. 40	56 ·0	58 ·5
6. 0	23. 25	2. 0	·1008	4. 42	·01091	9. 40	53 ·5	58 ·0
8. 8	26. 30	3. 50:	·0999	5. 53:	·00945	22. 40	44 ·0	49 ·0
10. 51	21. 40	4. 25	·1009	9. 0	{ ·00842			
11. 50	23. 0	6. 30	·1007		{ ·01005			
12. 42	21. 25	7. 10	·1000	14. 13	·01415			
13. 8	24. 0	8. 0	·1000	19. 0	·01321			
13. 55	21. 0		***	19. 46	·01341			
18. 0	24. 35	9. 0	·0990	22. 46	·01242			
20. 36	23. 20	9. 50	·1000					
22. 15	23. 5	11. 15	·1011					
23. 45	23. 50	12. 42	·1014					
		12. 55	·1023					
		14. 45	·1024					
		18. 0	·1034					
		22. 50	·1025					
		23. 45	·1027					
Jan. 18		Jan. 18		Jan. 18				
1. 0	22. 23. 5	0. 0	·1027	0. 10	·01260	7. 50	47 ·0	52 ·0
2. 31	26. 10	6. 15	·1028	1. 46	·01311	21. 40	44 ·8	48 ·5
3. 5	23. 25	13. 0	·1030	3. 41	·01280			
9. 0	23. 0	13. 10	·1033	5. 27:	·01181			
12. 28	25. 20	13. 50	·1032	9. 36	·00930			
12. 47	24. 25	14. 10	·1030	13. 46:	·00980			
14. 30	26. 25	14. 19	·1034	16. 51	·01146			
20. 45	23. 0	15. 0	·1030	18. 40	·01270			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 18		Jan. 18		Jan. 18				
h m	° ′ ″	h m		h m		h m	°	°
21. 37	22. 19. 50	17. 0	·1033	18. 42	·01264			
23. 53	23. 55	19. 0	·1034					
		19. 30	·1036					
		21. 30	·1031					
		23. 40	·1014					
		23. 59	·1012					
Jan. 19		Jan. 19		Jan. 19				
1. 17	22. 27. 15	0. 50	·1008	0. 20	·01271	1. 40	47 ·0	51 ·0
5. 36	22. 30	1. 30	·1012	1. 29	·01175	3. 40	50 ·0	53 ·4
6. 8	24. 20	2. 30	·1005	2. 20	·01058	9. 40	51 ·0	55 ·0
	***	3. 45	·1005	3. 54	·00682	21. 40	48 ·0	51 ·0
11. 17	23. 0	4. 30	·1012	4. 16	·00700			
	***	4. 37:	·1030	5. 36	·00790			
11. 22	18. 0	4. 55	·1025	6. 58	·00685			
	***		***		***			
11. 25	19. 2	5. 15	·1024	8. 2	·00646			
	***		***		***			
11. 47	9. 45	7. 55	·1033	8. 10:	·00636			
	***		***		***			
12. 15	14. 0	8. 5	·1044	11. 25	·00710			
	***	8. 12	·1026		***			
12. 45	5. 0		***	11. 45	·00730			
	***	10. 12	·1032		***			
13. 29	21. 6	10. 16	·1022	12. 5	·00747			
	***	10. 18	·1025		***			
13. 47	24. 35		***	12. 15	·00770			
	***	10. 21	·1020		***			
14. 15	22. 40		***	12. 30	·00704			
	***	10. 30	·1023	12. 42	·00661			
14. 33	28. 0		***	13. 10	·00740			
	***	10. 36	·1018	14. 5	·00735			
14. 38	25. 5		***	14. 36	·00761			
	***	10. 40	·1020	14. 41	·00748			
14. 40	27. 50		***	14. 45	·00763			
	***	11. 3	·1000		***			
14. 57	18. 25		***	14. 59	·00730			
	***	11. 57	·0990	15. 5	·00737			
15. 0	20. 10		***	15. 8	·00733			
	***	12. 39	·1016	15. 41	·00700			
15. 50	9. 0	12. 41	·1014	15. 45	·00645			
	***	12. 53	·0966	15. 48	·00670			
16. 24	30. 50		***	16. 12	·00767			
	***	13. 52	·1018	16. 33	·00770			
17. 10	18. 5	14. 0:	·1012		***			
	***	14. 30	·1018	17. 45	·00780			
17. 33	22. 0	14. 32	·1034		***			
	***	14. 40	·1010	18. 8	·00745			
17. 42	16. 50	14. 45	·1022		***			
	***	14. 50	·1022	18. 18	·00754			
17. 44	26. 0	14. 58	·1000		***			
	***	15. 3	·1000	18. 28	·00745			
					***			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 19		Jan. 19		Jan. 19				
h m	° ′ ″	h m		h m		h m	°	°
17. 45	22. 17. 50	15. 6	·0984	18. 40	·00784			
	***	15. 22	·0998		***			
18. 28	41. 45	15. 42	·0955	19. 47	·00830			
	***	15. 46	·0986		***			
19. 0	27. 35	15. 52	·0968	22. 40	·00989			
	***	16. 7	·0991		***			
19. 9	33. 30	16. 12	·0983					
	***	16. 45:	·1015					
19. 15	28. 5		***					
	***	17. 24	·0999					
19. 47	39. 50		***					
	***	17. 34	·1018					
21. 0	18. 20	17. 38	·1005					
	***	17. 43	·1025					
21. 7	20. 15	17. 45	·0994					
	***	17. 50	·1023					
21. 14	18. 30		***					
	***	18. 8	·0970					
23. 22	26. 20		***					
	***	18. 29	·0988					
23. 27	24. 20		***					
	***	18. 30	·0972					
23. 54	27. 30		***					
	***	18. 56	·1064					
			***					
		19. 10	·1057					
			***					
		19. 36	·1006					
			***					
		19. 40	·1017					
			***					
		20. 12	·0984					
		20. 15	·0995					
			***					
		20. 34	·0980					
			***					
		20. 45	·0987					
			***					
		21. 0	·0970					
			***					
		21. 8	·0980					
			***					
		21. 40	·0970					
			***					
		22. 32	·0978					
			***					
		23. 43	·0962					
			***					
		23. 59	·0962					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 20		Jan. 20		Jan. 20				
h m	° ′ ″	h m		h m		h m	°	°
1. 2	22. 30. 0	0. 0	·0962	1. 0	·00922	1. 40	51 ·4	54 ·0
1. 7	32. 30		***		***	3. 40	54 ·0	57 ·0
1. 11	29. 10	1. 40	·0964	1. 28	·00899	9. 40	54 ·5	56 ·8
1. 20	37. 30		***	1. 40	·00895	21. 40	45 ·0	48 ·0
1. 37	32. 55	2. 0	·0980	2. 57	·00768			
1. 40	35. 25		***	4. 4	·00843			
1. 54	30. 5	3. 24	·0984		***			
2. 3	33. 45		***	5. 10	·00821			
2. 31	26. 45	3. 45	·0950	5. 24	·00895			
2. 57	29. 0		***	5. 31	·00910			
3. 19	26. 0	4. 6	·0998	9. 2	·00848			
3. 35	31. 25		***	9. 10	·00856			
3. 38	29. 45	4. 18	·0998	9. 33	·00822			
3. 42	30. 0		***	9. 46	·00794			
3. 53	18. 0	5. 28	·0954	11. 10	·00711			
4. 1	16. 20		***	11. 18:	·00722			
4. 21	27. 0	5. 42	·0991	19. 39	·01398			
4. 27	24. 0	6. 0	·0966	22. 20	·01374			
4. 42	28. 0	6. 37:	·0976					
4. 45	27. 0	6. 50	·0964					
4. 53	27. 35		***					
5. 10	23. 50	8. 30	·0968					
5. 12	25. 0		***					
5. 28	9. 0	8. 45	·0985					
5. 44	20. 10	9. 0	·0966					
6. 2	15. 0	9. 20	·0995					
6. 12	18. 0	9. 32	·0970					
6. 23	14. 0	9. 48	·1022					
6. 43	22. 10	10. 52	·1000					
6. 58	20. 20	11. 12	·0965					
7. 30	23. 25	11. 22	·0973					
8. 40	17. 20		***					
8. 58	22. 55	12. 33	·0984					
9. 16	11. 30	16. 18	·1000					
9. 30	24. 25	18. 42	·1016					
9. 42	12. 0	19. 26	·1003					
9. 56	27. 15	20. 30	·1002					
10. 51	14. 0	20. 45:	·1010					
11. 9	17. 0	21. 10	·1002					
11. 19:	13. 5	22. 40:	·0990					
12. 51	20. 25	23. 0:	·0982					
15. 11	27. 0	23. 30:	·0978					
17. 3	25. 5	23. 59	·0986					
18. 44	31. 30							
20. 28	25. 30							
20. 40	23. 10							
20. 58	24. 30							
21. 17	20. 0							
21. 25	21. 45							
22. 3	21. 25							
22. 51	23. 30							
23. 27	22. 55							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 20 h m	° ′ ″	h m		h m		h m	°	°
23. 55	22. 26. 25							
Jan. 21		Jan. 21		Jan. 21				
1. 30	22. 27. 35	0. 0	·0986	0. 18	·01421	1. 40	49 ·2	52 ·8
1. 59	29. 30	1. 10	·0978	3. 26:	·01338	3. 40	51 ·0	53 ·0
	***		***	10. 45	·01088	9. 40	51 ·5	54 ·0
2. 10	27. 10	2. 34	·0976	12. 38	·00984	21. 40	57 ·0	51 ·0
2. 22	28. 5	3. 30	·0995		***			
2. 40	24. 55	4. 4	·0989	18. 58	·00670			
	***	5. 36	·0991	20. 15	·00685			
3. 41	27. 0	5. 54	·0986	23. 55	·00768			
	***		***					
6. 13	18. 0	9. 0	·1007					
7. 30	23. 0	10. 45	·1009					
9. 44	20. 30	11. 36:	·1003					
11. 13	18. 55		***					
11. 35	19. 50	12. 30	·1020					
11. 50	19. 5	12. 48	·1010					
12. 15	21. 45		***					
12. 39	19. 30	15. 56	·1018					
13. 10	23. 5	16. 50	·1007					
13. 21	22. 0	17. 0	·1010					
13. 31	23. 0		***					
	***	18. 20:	·1012					
14. 45	17. 25		***					
15. 7	20. 35	18. 45	·1002					
15. 38	16. 55		***					
	***	20. 30	·1008					
17. 3	24. 35		***					
17. 16	22. 0	23. 40	·0990					
17. 45	22. 35		***					
18. 38	27. 15	23. 59	·0990					
22. 20	21. 5							
23. 45	23. 25							
Jan. 22		Jan. 22		Jan. 22				
1. 15	22. 24. 55	1. 0	·0986	0. 30	·00790	1. 40	54 ·0	56 ·3
1. 28	27. 25	1. 18	·0985	2. 29	·00730	3. 40	55 ·5	58 ·0
2. 18	25. 20	1. 30	·0997	3. 25	·00801	9. 40	50 ·5	54 ·5
2. 26	26. 50		***		***	21. 40	45 ·0	49 ·0
2. 51	24. 5	3. 4	·0998	4. 18	·01001			
	***	3. 35	·0935	5. 8	·00930			
3. 24	34. 55		***	5. 12	·00945			
3. 40	30. 5	4. 12	·0980	5. 42	·00950			
3. 47	31. 45	4. 17	·0962	6. 14	·00900			
3. 52	30. 0	4. 27	·0974	6. 24	·00995			
3. 59	33. 0	4. 37	·0974	8. 16	·00955			
4. 2	31. 45	4. 40	·0994	8. 40	·00995			
4. 10	35. 5	4. 50	·1006	10. 38:	·01062			
4. 16	31. 0	4. 57	·0975	14. 13	·01389			
4. 21	32. 40	5. 0	·0985	17. 40	·01340			
4. 31	27. 30	5. 10	·0958	21. 38	·01300			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 22 h m	° ′ ″	Jan. 22 h m		Jan. 22 h m		h m	°	°
4. 45	22. 37. 45	5. 14	·0966	23. 55	·01345			
4. 52	24. 30	5. 18	·0957					
5. 0	29. 25	5. 35	·0958					
5. 4	24. 10		***					
5. 8	25. 35	5. 48	·0972					
5. 11	23. 40	6. 2	·0960					
	***		***					
5. 26	26. 0	6. 57	·0972					
5. 31	24. 20		***					
5. 50	32. 0	7. 5	·0966					
6. 1	27. 35		***					
	***	7. 15	·0976					
6. 16	29. 0		***					
7. 6	24. 50	8. 3	·0965					
7. 10	25. 30		***					
7. 20	21. 20	8. 40	·0978					
7. 58	25. 0	8. 57	·0970					
8. 33	13. 20		***					
9. 0	23. 25	9. 50	·0986					
9. 58	22. 40	10. 0	·0992					
10. 30	24. 0		***					
13. 30	23. 35	12. 30	·0993					
15. 0	27. 0		***					
18. 30	24. 40	15. 15	·1006					
21. 57	20. 40	16. 30	·1007					
23. 16	22. 20	17. 8	·1014					
23. 50	25. 0	18. 42	·1013					
			***					
		19. 0	·1010					
		19. 20	·1014					
		20. 24	·1014					
		21. 30	·1008					
			***					
		23. 45	·0998					
		23. 59	·0992					
Jan. 23		Jan. 23		Jan. 23				
1. 0	22. 28. 25	0. 5	·0986	0. 19	·01349	1. 40	48 ·0	51 ·0
	***	0. 30	·0990	1. 18	·01310	3. 40	49 ·0	53 ·5
1. 15	31. 10	0. 40	·0992	3. 50	·01082	9. 40	49 ·5	53 ·5
1. 21	30. 5	1. 5:	·0974	4. 12	·01111	21. 40	43 ·5	47 ·5
1. 28	33. 0		***	4. 54	·00882			
1. 35	31. 30	1. 27	·0978	5. 55	·00910			
1. 49	32. 40	1. 33	·0971	6. 18	·00814			
2. 11	29. 35	1. 55	·0982	6. 40	·00830			
2. 32	32. 50	2. 3:	·0970		***			
2. 37	31. 35		***	7. 54	·00750			
2. 43	34. 10	2. 52	·0986	8. 23	·00730			
2. 48	33. 0		***	8. 42	·00932			
2. 59	35. 15	3. 30	·0974	9. 5	·00890			
3. 27	30. 0		***		***			
3. 31	30. 35	3. 34	·0984	9. 37	·00845			
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 23		Jan. 23		Jan. 23				
h m	° ′ ″	h m		h m		h m	°	°
3. 38	22. 26. 50	4. 2	·0986	16. 0	·01310			
3. 43	28. 20		***	18. 30	·01295			
	***	4. 10	·0978	22. 10	·01282			
4. 0	26. 0		***	23. 50	·01317			
	***	4. 16	·1003					
4. 12	31. 35		***					
4. 20	27. 5	4. 33	·1004					
4. 24	31. 25		***					
4. 38	16. 0	4. 38	·0972					
4. 42	24. 0		***					
4. 48	18. 0	4. 45	·0990					
	***		***					
5. 15	29. 35	4. 52	·0982					
5. 27	27. 0	5. 3	·0990					
3. 39	28. 45	5. 15	·0976					
6. 0	10. 0		***					
6. 4	16. 15	5. 26	·0985					
6. 9	14. 30		***					
6. 27	33. 0	5. 35	·0977					
6. 39	18. 0	5. 54	·0985					
6. 53	19. 35	5. 58	·1015					
6. 58	18. 25	6. 5	·1014					
7. 12	20. 0	6. 26	·0945					
7. 20	18. 55	6. 45	·0980					
	***	6. 54	·0972					
7. 58	28. 0		***					
8. 3	24. 5	7. 42	·0975					
8. 7	26. 50		***					
8. 13	21. 25	7. 57	·0970					
8. 24	30. 0	8. 2	·0983					
	***	8. 7	·0976					
8. 40	17. 5	8. 16	·0991					
8. 50	20. 35	8. 27	·0960					
8. 57	13. 5		***					
	***	8. 53	·0984					
9. 1	13. 20	9. 2	·1016					
9. 7	23. 50	9. 12	·0976					
9. 17	11. 5	9. 23	·1013					
9. 28	25. 50	9. 35	·0958					
	***	9. 50	·0976					
9. 46	17. 0		***					
9. 52	20. 25	12. 0	·1000					
9. 58	18. 35	12. 20	·1003					
11. 33	23. 15	13. 10	·0998					
12. 15	22. 0	13. 26	·1004					
13. 42	24. 45	15. 7	·1002					
14. 9	24. 0	15. 36:	·1018					
14. 47	25. 0	16. 18	·1008					
15. 24	30. 30	18. 56	·1014					
16. 24	25. 20	20. 52	·1012					
20. 0	23. 35	23. 25	·0997					
22. 0	19. 50	23. 59	·1000					
23. 57	22. 23. 30							
Jan. 24		Jan. 24		Jan. 24				
1. 0	22. 24. 35	0. 52	·0997	1. 30:	·01242	1. 40	47 ·0	50 ·4
6. 0	23. 5		***	10. 31	·00854	3. 40	50 ·0	54 ·0
8. 24	22. 0	3. 57	·0993	10. 34	·00840	9. 40	49 ·0	52 ·4
8. 32	20. 10		***		***	23. 11	47 ·0	50 ·0
9. 34	20 30	4. 30	·1000	12. 18	·00755			
9. 44	19. 0		***	13. 14	·00675			
10. 31	19. 25	5. 58	·1000		***			
	***		***	18. 50	·00610			
10. 54	16. 5	10. 30	·1007	19. 30	·00639			
11. 32	18. 15	10. 34	·1029	20. 0	·00647			
11. 50	17. 30		***	20. 43:	·00622			
	***	10. 50	·1015		***			
12. 43	21. 0		***	23. 18	·00794			
	***	12. 26	·1007					
13. 36	19. 30	12. 36:	·1018					
	***	12. 48	·1013					
18. 0	26. 0		***					
	***	13. 7	·1023					
19. 30	27. 45	13. 25	·1021					
	***	13. 32	·1016					
20. 26	24. 0		***					
	***	14. 55	·1010					
20. 34	25. 10		***					
	***	17. 19:	·1016					
22. 0	20. 30	18. 20	·1026					
	***	19. 5	·1022					
23. 1	25. 0		***					
	***	21. 37	·1022					
23. 10	23. 0	22. 18	·0997					
	***	23. 22	·0986					
23. 13	24. 50							
Jan. 25		Jan. 25		Jan. 25				
0. 0	22. 22. 5	0. 9	·1014	0. 0	·00839	11. 16	50 ·4	54 ·0
	***	0. 14	·1003		***	21. 40	47 ·0	50 ·0
0. 3	23. 35	0. 15	·1010	1. 53	·00873			
	***	0. 17	·1003	3. 45	·00805			
0. 10	21. 0	0. 18	·1006	5. 6	·00691			
	***	0. 21	·1001	6. 1	·00780			
0. 25	24. 5	0. 27	·1013	7. 3	·00770			
	***	0. 36	·1007	7. 43	·00740			
0. 29	21. 15	0. 40	·1020	7. 49	·00750			
	***	0. 43	·1009	8. 4	·00712			
0. 38	24. 5	0. 45	·1023	9. 48	·00740			
	***	0. 48	·1006	10. 18	·00680			
0. 41	22. 45	0. 50	·1018	10. 54	·00690			
	***	0. 56	·1012		***			
0. 44	24. 40		***	11. 54	·00721			
	***	1. 33	·1013	12. 4	·00702			
					***			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 25		Jan. 25		Jan. 25				
h m	° ′ ″	h m		h m		h m	°	°
0. 47	22. 22. 15	1. 36	·1003	12. 16	·00750			
	***		***	12. 30	·00743			
0. 49	25. 0	1. 50	·1018	12. 37	·00762			
	***		***	14. 0	·00712			
1. 53	27. 0	2. 2	·0996	17. 15	·00892			
	***		***	22. 2	·01355			
2. 2	25. 0	2. 13	·1016					
	***		***					
2. 29	27. 20	2. 23	·1000					
	***	2. 28	·1012					
2. 45	25. 15		***					
5. 0	25. 20	2. 42	·0996					
5. 11	24. 10		***					
5. 40	25. 55	3. 18:	·1008					
6. 29	15. 30		***					
6. 43	22. 0	3. 40	·1000					
6. 51	20 50		***					
7. 0	23. 35	4. 13	·1000					
7. 33	25. 0		***					
7. 45	17. 0	4. 33	·1012					
8. 1	32. 25	5. 5	·1000					
8. 20	16. 55	5. 30	·1004					
8. 23	17. 0		***					
	***	5. 48	·0995					
9. 23	23. 10		***					
9. 32	20. 10	6. 18	·0990					
9. 39	22. 5	6. 34	·1003					
9. 42	18. 15		***					
9. 50	26. 5	6. 42	·0995					
9. 58	23. 10	6. 52	·1003					
10. 27	26. 50	7. 0	·1000					
10. 54	11. 0	7. 15	·1009					
11. 5	14. 50	7. 25	·1009					
11. 11	13. 10	7. 34	·1003					
11. 31	17. 25	7. 48:	·1026					
11. 40	15. 25	7. 52	·1026					
12. 2	22. 0	8. 10	·0978					
12. 15	15. 55	8. 26	·0993					
12. 43	24. 40		***					
12. 52	20. 30	9. 26	·0982					
13. 8	23. 55		***					
13. 42	12. 0	9. 36	·0990					
14. 27	21. 15	9. 50	·1008					
14. 31	19. 5	9. 54	·0998					
14. 40	21. 10	10. 9	·1007					
14. 57	18. 40	10. 27	·0983					
15. 55	23. 0		***					
16. 12	21. 35	11. 57	·0984					
16. 59	23. 10	12. 0	·0966					
17. 21	21. 10	12. 16	·0997					
17. 46	22. 40	12. 23	·0989					
17. 59	21. 50	12. 34	·1001					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 25		Jan. 25						
h m	° ′ ″	h m		h m		h m	°	°
22. 2	22. 21. 0	12. 43	·0989					
23. 47	23. 40	12. 59	·1002					
			***					
		13. 18	·0990					
			***					
		13. 45	·1022					
			***					
		14. 28	·0996					
		14. 35	·1000					
		14. 48	·1000					
		15. 3	·1010					
			***					
		16. 8	·1006					
		17. 15	·1015					
			***					
		20. 36	·1010					
			***					
		23. 59	·0996					
Jan. 26		Jan. 26		Jan. 26				
1. 30	22. 25. 20	0. 34	·0990	1. 24	·01370	1. 40	53 ·0	56 ·4
3. 41	26. 0	3. 30	·1000	3. 0	·01211	3. 40	54 ·0	57 ·5
4. 8	21. 35	4. 0:	·0980	3. 57	·01040	9. 40	53 ·0	56 ·3
4. 23	21. 30	4. 35	·1006	4. 40	·00923	21. 40	49 ·0	52 ·5
4. 51	24. 0	4. 55:	·0991	5. 16	·00815			
5. 15	15. 30	5. 25	·1018	5. 29	·00830			
5. 48	22. 0	6. 2	·0992	8. 6	·00743			
6. 53	15. 55		***	13. 10:	·00719			
7. 22	20. 30	6. 40	·0997	17. 29	·00880			
9. 43	19. 10	7. 3	·1020	18. 6	·00875			
10. 0	18. 0		***		***			
11. 59	22. 40	8. 30	·1006	19. 8	·00984			
14. 6	23. 45		***		***			
14. 47	20. 40	9. 55	·1002	21. 9	·01092			
15. 44	25. 30		***	23. 55	·01170			
16. 1	24. 0	10. 15	·1009					
16. 39	27. 10		***					
16. 43	25. 10	13. 38	·1007					
17. 50	35. 55		***					
18. 30	22. 0	13. 46	·1014					
18. 45	23. 35	14. 2	·1006					
18. 48	21. 40	14. 10	·1018					
	***	14. 22	·1010					
19. 27	25. 40	15. 37	·1004					
19. 31	22. 55	15. 47	·1011					
	***		***					
19. 57	23. 35	16. 29	·1003					
21. 0	19. 50	17. 36	·1017					
23. 0	24. 35	17. 45:	·1012					
23. 30	22. 10	18. 2	·1021					
23. 50	23. 5	18. 50	·1003					
		19. 7	·1004					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Jan. 26 h m		h m		h m	°	°
		21. 32	·1000					
		23. 6	·0978					
		23. 59	·0992					
Jan. 27		Jan. 27		Jan. 27				
0. 30	22. 24. 25	0. 5	·0994	0. 45	·01158	1. 40	51 ·0	54 ·0
			***					
1. 53	26. 0			3. 5	·01090	3. 40	52 ·0	55 ·0
2. 4	28. 10	0. 40	·1000	3. 54	·01041	9. 40	52 ·0	54 ·5
			***					
4. 0	22. 20			5. 32:	·00985	21. 40	46 ·5	51 ·0
5. 38	21. 25	3. 48	·1000	10. 28:	·00700			
			***					
6. 24	13. 50			21. 16	·01385			
8. 0	22. 10	5. 35	·1003	23. 2	·01358			
			***					
12. 0	23. 0							
18. 0	24. 0	5. 57	·0990					
			***					
20. 43	22. 25							
21. 22	19. 0	6. 39	·1011					
			***					
23. 45	24. 25							
		16. 0	·1016					
			***					
		17. 40	·1023					
		18. 45	·1022					
		21. 8	·1017					
		21. 18	·1012					
		23. 0	·1004					
		23. 59	·1002					
Jan. 28		Jan. 28		Jan. 28				
1. 0	22. 25. 30	0. 15	·1002	2. 24	·01350	1. 40	47 ·8	51 ·5
	***		***	4. 10	·01209	3. 40	49 ·0	53 ·0
2. 53	25. 0	4. 57	·1015	4. 18:	·01191	12. 0	47 ·0	52 ·0
6. 0	22. 5		***	9. 17:	·00856	21. 45	42 ·5	46 ·5
11. 30	24. 0	7. 30	·1016	16. 36	·01295			
14. 30	23. 55	9. 30	·1019	16. 40	·01289			
15. 30	27. 0	9. 35	·1016	18. 45	·01262			
			***					
16. 40	23. 35			19. 33	·01280			
20. 30	23. 55	16. 33	·1035	20. 28	·01260			
21. 43	19. 35	16. 58	·1031	22. 18	·01217			
23. 57	24. 10	18. 7	·1039	23. 54	·01264			
		21. 54	·1028					
		23. 15	·1018					
		23. 59	·1016					
Jan. 29		Jan. 29		Jan. 29				
1. 30	22. 24. 0	0. 27	·1015	0. 30	·01272	1. 40	46 ·0	50 ·5
3. 0	24. 5	3. 29	·1009	2. 25	·01110	3. 40	49 ·0	53 ·0
			***					
6. 30	21. 20			4. 23	·00645	9. 40	50 ·8	54 ·0
8. 0	23. 0	6. 58	·1018	5. 53	·00681	21. 45	47 ·0	51 ·0
			***					
8. 15	22. 30			8. 12	·00630			
9. 37	24. 20	7. 13:	·1025	10. 15	·00620			
			***					
10. 13	18. 40			11. 9	·00643			
10. 18	19. 50	8. 16	·1012	12. 47	·00661			
10. 58	17. 0	9. 45	·1016	13. 24:	·00622			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 29 h m	° ′ ″	Jan. 29 h m		Jan. 29 h m		h m	°	°
11. 11	22. 21. 50	10. 31	·0996	21. 57	·01224			
11. 26	17. 25	11. 2	·1014					
12. 31	22. 30	11. 17	·0997					
12. 45	17. 35	11. 34	·1008					
14. 30	23. 30	11. 55	·0999					
18. 0	22. 10	12. 9	·1000					
21. 30	20. 0	12. 32	·1010					
23. 45	28. 0	12. 46	·1044					
		13. 36	·1004					
		21. 10	·1024					
		21. 24	·1021					
		22. 47	·1002					
		23. 22	·1000					
		23. 59	·0989					
Jan. 30		Jan. 30		Jan. 30				
1. 30	22. 30. 0	0. 8	·0989	1. 12	·01070	1. 40	53 ·0	55 ·8
3. 0	31. 5	2. 22	·0996	2. 33	·00797	3. 40	55 ·0	57 ·8
	***	3. 8	·0986	3. 9	·00825	9. 40	53 ·5	57 ·0
3. 40	24. 35	3. 11	·0991	3. 44	·00842	21. 40	44 ·5	48 ·0
4. 27	28. 10	3. 19:	·0983	5. 15	·00794			
6. 14	25. 0	3. 53	·0996	6. 48	·00780			
6. 41	28. 30	4. 58	·1000	7. 9	·00998			
7. 10	23. 30	6. 28	·1002	8. 21	·01064			
7. 56	24. 35	6. 58	·0976	9. 2:	·01185			
8. 30	22. 0		***	11. 28	·01410			
9. 47	22. 0	10. 3	·1009	11. 32	·01404			
10. 20	17. 10		***	12. 4	·01439			
11. 33	20. 50	11. 7	·0999	14. 43	·01385			
12. 28	12. 15		***	16. 11	·01308			
13. 30	23. 0	11. 27	·1015	17. 3	·01268			
14. 7	21. 10	11. 32	·1018	17. 29	·01288			
14. 32	22. 50		***	17. 57	·01270			
14. 45	30. 0	12. 30	·1015	22. 45	·01265			
16. 7	15. 20	12. 45	·1003	23. 58	·01320			
16. 47	19. 5		***					
17. 0	17. 30	14. 37	·1023					
17. 43	23. 30	14. 45:	·1008					
20. 25	20. 25	15. 15	·1027					
21. 37	27. 0	16. 28	·1039					
21. 52	23. 0	17. 14	·1010					
22. 3	26. 45	17. 57	·1037					
22. 45	22. 0	18. 20	·1026					
23. 0	23. 30	20. 6	·1032					
			***					
23. 30	22. 5							
23. 58	25. 0	21. 20	·1005					
		21. 48	·1005					
		22. 3	·1019					
			***					
		23. 24	·1016					
		23. 32	·1003					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers iucluded by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Jan. 30 h m		h m		h m	°	°
		23. 59	·1010					
Jan. 31		Jan. 31		Jan. 31				
1. 30	22. 26. 0	0. 2	·1011	2. 0	·01250	1. 40	47 ·0	50 ·5
	***	0. 45	·1005		***	3. 40	48 ·8	51 ·0
1. 38	25. 5	1. 52	·1003	5. 8	·01088	12. 30	53 ·0	56 ·0
	***		***	6. 23	·00929	22. 59	54 ·5	57 ·0
2. 29	30. 25	2. 6	·1013	7. 57	·00731			
3. 31	26. 55	2. 34	·1003	8. 40	·00794			
4. 11	27. 5		***	8. 50	·00763			
4. 17	29. 10	3. 36	·1000	10. 50	·00710			
5. 2	16. 35		***	11. 3	·00695			
5. 10	18. 0	4. 27	·1015	11. 15	·00691			
5. 27	11. 10		***	11. 45	·00660			
6. 15	28. 30	4. 52	·1000	13. 0	·00721			
6. 28	20. 5		***	18. 20	·00667			
6. 40	21. 0	6. 10	·1017		***			
6. 52	19. 0	6. 29	·1086	22. 43	·00685			
7. 5	21. 30	6. 40	·1006					
7. 27	14. 25	6. 50	·0994					
8. 5	24. 30	7. 16	·0985					
8. 39	9. 15	7. 31	·1005					
8. 48	19. 40	7. 51	·1007					
8. 56	15. 50	8. 11	·0991					
	***	8. 34	·0993					
9. 22	19. 5	8. 45	·1027					
9. 33	18. 25	8. 57	·0998					
10. 10	21. 0		***					
10. 45	20. 30	10. 33	·1004					
11. 7	14. 30	10. 48:	·1014					
11. 45	18. 30	11. 2	·1009					
	***	11. 20:	·1017					
13. 10	16. 30	11. 48:	·0993					
14. 6	18. 35	12. 12	·1000					
14. 33	16. 30	12. 30:	·0991					
15. 30	23. 0	13. 40	·1014					
16. 6	20. 0	14. 7	·1003					
16. 28	23. 30		***					
16. 45	19. 30	16. 17	·1000					
17. 0	21. 25	16. 37	·1013					
17. 13	20. 0	16. 56	·1003					
17. 35	21. 20		***					
18. 18	17. 0	17. 32	·1017					
19. 14	28. 25		***					
	***	19. 29	·1010					
19. 47	23. 0	19. 35	·1020					
	***	19. 40	·1006					
20. 43	23. 10	19. 58	·1024					
20. 48	18. 15	20. 2	·1013					
20. 50	22. 0		***					
20. 57	18. 0	20. 22	·1012					
21. 7	21. 10	20. 29	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 31 h m	° ′ ″	Jan. 31 h m		h m		h m	°	°
21. 13	22. 19. 10	20. 31	·1014					
	***	20. 36	·1025					
22. 34	24. 50	20. 50	·1004					
23. 14	28. 10	20. 58	·1082					
		20. 59	·1011					
		21. 0	·1020					
		21. 14	·1009					
		21. 26	·1019					
			***					
		22. 30	·0972					
		23. 9	·0999					
		23. 59	·0987					
Feb. 1		Feb. 1		Feb. 1				
0. 0	22. 28. 30	0. 32	·0980	0. 0	·00719	4. 35	57 ·0	61 ·0
0. 12	31. 5		***	0. 30	·00771	22. 0	52 ·0	58 ·0
0. 31	27. 0	1. 0:	·0986	1. 0	·00805			
1. 12	31. 0		***	2. 30	·00910			
1. 21	28. 45	1. 15	·0970	3. 17	·00903			
1. 27	30. 30		***	4. 30	·00958			
1. 31	27. 45	1. 19	·0976		(†)			
1. 40	30. 40		***	22. 10	·01658			
2. 0	24. 45	1. 27	·0968	23. 45	·01665			
2. 52	29. 0		***	23. 55	·01648			
3. 29	26. 35	1. 35	·0975					
4. 15	29. 10		***					
4. 41	27. 0	1. 40	·0970					
5. 2	22. 35		***					
5. 19	18. 40	2. 17	·0988					
	(†)		***					
6. 45	15. 20	2. 50	·0987					
6. 59	17. 10		***					
7. 8	14. 55	3. 0	·0976					
7. 24	18. 0	3. 40	·0991					
7. 33	17. 0	4. 25	·0985					
7. 46	21. 30		(†)					
7. 54	19. 55	10. 10	·0996					
	***		***					
8. 40	22. 0	11. 34	·0983					
8. 59	17. 10	11. 45	·1004					
9. 12	19. 40	12. 30	·0983					
9. 27	18. 10	13. 0	·1000					
9. 56	22. 0							
10. 26	17. 5							
10. 50	20. 25							
11. 3	26. 0							
11. 15	19. 0							
11. 47	27. 50							
12. 5	23. 20							
12. 18	25. 40							
12. 40	18. 0							
13. 12	15. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 1								
h m	° ′ ″	h m		h m		h m	°	°
13. 58	22. 23. 30							
15. 0	18. 10							
15. 33	26. 5							
16. 10	25. 50							
16. 29	22. 5							
17. 10	20. 20							
18. 17	27. 30							
20. 13	21. 0							
20. 58	20. 20 ***							
21. 55	22. 15							
22. 8	21. 20							
23. 0	22. 50							
23. 6	21. 0							
23. 15	23. 10							
23. 28	22. 40							
23. 33	23. 0							
23. 40	22. 5							
23. 59	29. 0							
Feb. 2		Feb. 2		Feb. 2				
1. 30	22. 24. 30	0. 3	·0998 ***	1. 28	·01520 ***	1. 40	55 ·0	61 ·0
1. 42	26. 35					3. 40	58 ·0	61 ·5
1. 48	24. 10	1. 30	·1001 ***	2. 9	·01430	9. 40	55 ·0	62 ·0
1. 51	25. 25			2. 40	·01400	21. 40	52 ·0	57 ·5
2. 8	23. 50	2. 0:	·0982 ***	4. 34	·01172			
2. 12	26. 30			6. 24	·01053			
2. 24	24. 25 ***	2. 56	·0998 ***	6. 31	·01230			
2. 47	28. 30	4. 10	·0995 ***	6. 46	{ ·01220 ·01252			
3. 36	21. 10			9. 22	·01212			
4. 10	24. 15	5. 1	·0993	9. 36	·01231			
6. 10	20. 10	5. 10	·1001 ***	10. 15:	·01210			
7. 0	23. 0			19. 2	·01553			
7. 45	20. 20 ***	6. 35	·1001 ***	20. 40	·01530			
				21. 40	·01570			
8. 10	22. 0	7. 0	·1010 ***	21. 51	·01563			
9. 0	20. 5			23. 54	·01570			
9. 22	9. 35	7. 15	·1005					
9. 31	10. 35	7. 35:	·1006					
9. 41	13. 30	8. 22	·0993					
9. 43	12. 0	8. 35	·1032 ***					
9. 57	15. 10							
10. 5	14. 5	9. 40	·0995 ***					
10. 32	16. 50							
10. 46	15. 10	10. 18	·0987					
11. 15	18. 0	10. 25	·0966					
11. 43	21. 55	10. 35	·0990 ***					
12. 32	18. 0							
13. 0	22. 30	11. 57	·1008					
14. 29	21. 0	12. 18:	·1000					
15. 50	22. 35	13. 7:	·1008 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 2		Feb. 2						
h m	° ′ ″	h m		h m		h m	°	°
16. 31	22. 20. 55	16. 38	·1003 ***					
19. 2	24. 25							
20. 21	22. 25	19. 49	·1015 ***					
20. 30	24. 0							
21. 56	18. 25	21. 25:	·0996 ***					
22. 38	19. 0							
23. 7	22. 10	22. 0:	·1003 ***					
23. 13	21. 0							
23. 43	23. 30	22. 12	·0998					
		22. 20	·1004 ***					
		23. 0	·1000					
Feb. 3		Feb. 3		Feb. 3				
0. 30	22. 24. 30	0. 15	·1000 ***	0. 30	·01590	1. 40	55 ·0	58 ·0
1. 16	23. 30			1. 48	·01615	3. 40	57 ·0	59 ·8
3. 0	26. 0	1. 30:	·0994 ***	5. 0	{ ·01203 ·01357	9. 40	56 ·0	60 ·8
4. 19	19. 15					21. 45	48 ·0	53 ·0
4. 58	20. 30	2. 45	·1000 ***	5. 28	·01351			
5. 11	19. 10			6. 20	·01430			
8. 8	21. 55	3. 25	·0991 ***	6. 59	·01440			
8. 40	13. 45			9. 15:	·01575			
9. 1	13. 0	4. 25	·0991	11. 17:	·01700			
9. 32	18. 30	4. 34	·0997 ***	18. 18	·01513			
9. 48	17. 50			19. 0	·01532			
10. 58	20. 0	4. 50	·0997	23. 0	·01465			
12. 47	23. 30	5. 0	·0992					
14. 3	22. 30	6. 10	·0990 ***					
15. 33	24. 10							
16. 20	22. 0	7. 55	·1002					
18. 0	23. 35	8. 18	·0994					
20. 30	22. 0	8. 54	·1025 ***					
21. 32	19. 5							
22. 20	22. 0	9. 15	·1025 ***					
23. 5	18. 50							
23. 46	22. 0	10. 45	·0997 ***					
		12. 18	·1005					
		15. 20	·1013					
		17. 25	·1014					
		20. 10	·1025					
		22. 4	·1012 ***					
		23. 59	·1015					
Feb. 4		Feb. 4		Feb. 4				
1. 0	22. 23. 10	0. 30:	·1009	1. 30	·01492	1. 40	50 ·5	55 ·0
2. 0	24. 35	2. 0	·0997	8. 8	·00825	3. 40	54 ·0	59 ·0
2. 16	24. 0	3. 30:	·0999	13. 0	·00801	11. 27	54 ·0	60 ·5
3. 0	25. 35	4. 30:	·0992	15. 49	·00774	21. 45	58 ·0	62 ·0
6. 16	21. 35	6. 18	·1003	18. 50	·00811			
6. 36	22. 50	7. 50	·1006	23. 50	·00810			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 4	° ′ ″	Feb. 4	
h m		h m	
7. 57	22. 20. 5	8. 3	·1018
8. 7	14. 20		***
8. 15	16. 15	9. 2	·1020
9. 0	11. 0	9. 50	·1000
10. 36	19. 10	10. 30	·1000
11. 2	17. 10	10. 50	·1006
14. 15	20. 45		***
16. 44	20. 0	11. 15	·1002
19. 0	20. 5	12. 40	·1008
21. 23	17. 10	12. 55	·1003
23. 52	21. 40	14. 15	·1012
		15. 0	·1007
		16. 40	·1010
		20. 30	·1008
		22. 30	·0994
			***
		23. 59	·1000
Feb. 5		Feb. 5	
1. 0	22. 23. 40	0. 30	·0996
1. 30	28. 0	1. 10	·1000
2. 12	26. 5	1. 26	·1000
2. 53	26. 55	3. 18	·0984
3. 46	23. 0		***
5. 0	24. 25	4. 26:	·0998
6. 48	20. 5	5. 0	·0990
7. 24	24. 30	5. 10	·0996
7. 52	20. 20	6. 36	·0996
8. 27	21. 10	7. 0	·1002
8. 38	19. 0	7. 42:	·0988
8. 50	22. 0		***
9. 3	19. 5	8. 33	·0995
10. 0	21. 45	8. 45:	·1003
11. 28	20. 15	8. 55:	·0991
11. 45	9. 5	9. 15	·0999
	***	10. 15	·1003
14. 15	23. 25	11. 28	·0999
14. 49	20. 10	11. 50:	·1029
15. 48	24. 30	12. 34	·0987
16. 4	23. 0		***
16. 27	25. 0	14. 20	·1001
17. 15	21. 10		***
18. 0	22. 25	15. 40	·0999
18. 19	21. 20	16. 0	·1002
20. 0	22. 5		***
21. 18	19. 10	20. 16	·1012
23. 57	22. 20	21. 30	·1000
		22. 40	·1001
		23. 48	·0995
		23. 59	·0997

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m		h m	°	°
Feb. 5				
1. 5	·00808	1. 40	59 ·0	63 ·0
2. 12	·00880	3. 40	59 ·0	63 ·0
2. 33	·00938	9. 40	59 ·0	61 ·0
	·01530	21. 40	55 ·0	58 ·5
5. 8	·01320			
7. 40	·01165			
11. 40	·01150			
12. 22:	·01146			
22. 30	·01574			
23. 59	·01595			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 6	° ′ ″	Feb. 6	
h m		h m	
1. 0	22. 24. 0	0. 55	·1000
2. 0	26. 20	2. 24	·1000
2. 40	25. 10	2. 35	·0994
3. 31	28. 5	3. 0	·1002
3. 45	27. 0		***
4. 8	29. 25	3. 35	·1000
4. 42	18. 0	3. 40	·1008
	***		***
6. 0	28. 15	4. 10	·0963
6. 42	25. 30		***
7. 40	29. 40	4. 58	·1002
8. 51	19. 25	5. 15	·0991
10. 3	22. 0		***
10. 59	6. 20	5. 33	·0997
11. 20	15. 0		***
11. 41	8. 30	5. 56	·0985
12. 4	21. 0	6. 24	·0998
12. 30	19. 30	6. 40	·0988
13. 59	23. 25		***
14. 31	27. 0	7. 20	·1001
15. 15	20. 50	7. 33	·0992
16. 32	30. 20		***
17. 49	22. 45	8. 0	·0991
20. 43	22. 20	8. 15	·1001
22. 40	20. 15	8. 27	·0992
23. 10	22. 50	8. 33	·0996
		8. 40	·0990
		8. 55	·0999
		9. 22	·1000
		9. 30	·1006
			***
		9. 50	·1006
		10. 15	·0994
			***
		10. 50	·0983
			***
		11. 15	·1005
		11. 25	·1002
		11. 45:	·1028
		12. 5	·1000
			***
		14. 27	·1005
		14. 32	·1010
			***
		16. 26	·1008
		16. 38	·1017
			***
		18. 34	·1024
			***
		20. 0	·1024
			***
		21. 55	·1018

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m		h m	°	°
Feb. 6				
1. 10	·01590	1. 40	57 ·0	59 ·8
3. 30	·01431	3. 35	58 ·0	60 ·0
4. 5	·01390	9. 40	55 ·0	61 ·0
5. 33	·01340	21. 47	46 ·3	52 ·0
7. 40	·01229			
10. 42:	·01333			
11. 15	·01389			
12. 0	·01410			
12. 18	·01400			
13. 55	·01561			
15. 13	·01501			
17. 8	·01440			
22. 30	·01339			
23. 59	·01390			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Feb. 6						
h m	° ′ ″	h m		h m		h m	°	°
		22. 5	·1020					
			***					
		23. 20	·1002					
			***					
		23. 59	·1002					
Feb. 7		Feb. 7		Feb. 7				
1. 0	22. 25. 0	0. 20	·1000	1. 42	·01420	1. 40	49 ·0	53 ·8
1. 21	29. 5	3. 27	·0985	2. 28	·01370	3. 40	52 ·0	56 ·5
1. 32	25. 30		***	2. 38	·01339	9. 40	54 ·0	58 ·4
	***	4. 27	·0990	2. 57	·01322	22. 40	51 ·0	56 ·0
2. 28	29. 35		(†)	4. 47	·00953			
2. 48	20. 45	6. 35	·0987	6. 26	·01006			
	***		***	8. 13	·01000			
3. 19	25. 0	6. 56	·0977	8. 38	·00967			
3. 40	24. 5	7. 2	·0986	8. 54	·00980			
4. 30	26. 0	7. 8	·0981	9. 52	·00940			
6. 3	24. 10	7. 18	·0981	12. 28	·00938			
6. 16	21. 35	8. 6	·0989	13. 42:	·00865			
7. 55	21. 0	8. 24	·1028	20. 17	·01304			
8. 15	11. 50		***	21. 14	·01318			
	(†)	8. 29	·1026	23. 37	·01405			
9. 0	22. 5	8. 34	·0988					
9. 30	10. 30	8. 52	·1016					
9. 46	18. 0	9. 2	·0999					
10. 2	14. 40	9. 12	·1006					
	(†)	9. 21	·0994					
12. 33	19. 50	9. 35	·1018					
12. 50	17. 0	9. 54	·0990					
13. 10	22. 55	10. 4	·0997					
13. 40	16. 0	11. 37	·0994					
	***	11. 45	·0997					
15. 41	21. 30	12. 15	·0991					
16. 15	18. 25	12. 27	·1000					
17. 3	22. 30	15. 33	·1000					
17. 51	20. 15	16. 15	·1008					
18. 6	21. 45		(†)					
	(†)	18. 39	·1010					
21. 44	18. 5		***					
	(†)	20. 28	·1006					
			***					
		22. 22	·1011					
		23. 32	·1002					
		23. 59	·1002					
Feb. 8		Feb. 8		Feb. 8				
1. 37	22. 24. 0	0. 10:	·1000	0. 5	·01423	9. 13	54 ·0	60 ·0
2. 22	26. 30	0. 30	·0998	1. 0:	·01448	21. 40	50 ·0	56 ·0
	***		***		***			
3. 25	24. 10	2. 10	·0988	10. 9	·00992			
3. 48	26. 40	3. 30	·0988	10. 30	·00998			
7. 19	21. 30	4. 33	·1002	10. 47	·00983			
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 8		Feb. 8		Feb. 8				
h m	° ′ ″	h m		h m		h m	°	°
7. 59	22. 4. 0	6. 56	·0986	11. 26	·00960			
	***	7. 36	·1032	19. 12:	·01164			
9. 31	21. 0	8. 18	·1002	20. 33:	·01237			
10. 39	19. 55	9. 26	·1000	23. 35	·01451			
10. 58	16. 0	9. 50	·1006					
11. 15	18. 50	10. 12	·0999					
11. 31	10. 10	10. 34:	·1005					
	(†)	10. 50	·0999					
13. 30	19. 0	11. 10	·1027					
14. 3	21. 5	11. 35	·1002					
15. 10	19. 0	17. 0	·1006					
17. 43	24. 0		(†)					
18. 9	21. 5	18. 54	·1016					
21. 30	23. 0	21. 15	·1008					
22. 31	20. 10	21. 37	·1014					
23. 30	19. 55		***					
		23. 59	·0992					
Feb. 9		Feb. 9		Feb. 9				
1. 15	22. 24. 35	0. 30	·0992	1. 58	·01374	1. 40	52 ·5	57 ·0
2. 41	27. 0	2. 5	·0993	3. 47	·01271	3. 40	54 ·0	59 ·0
5. 45	21. 0	2. 32	·0980	5. 10	·01140	9. 40	52 ·0	58 ·0
7. 30	23. 10	3. 30	·0999	6. 15:	·01103	21. 45	44 ·5	49 ·0
8. 24	21. 0	7. 45	·1007	9. 30:	·00979			
16. 30	24. 55	8. 12	·1002	15. 30	·01437			
20. 0	23. 15	9. 12	·1012	22. 8	·01330			
22. 3	18. 30	20. 27	·1033	23. 55	·01371			
23. 44	22. 30	23. 59	·1005					
Feb. 10		Feb. 10		Feb. 10				
1. 0	22. 25. 10	1. 0	·1000	1. 30	·01344	1. 40	46 ·3	52 ·0
2. 42	27. 25	8. 56	·1023	4. 40	·00884	3. 40	50 ·0	56 ·5
7. 2	19. 50	15. 58	·1027	5. 45	·00890	10. 10	50 ·0	52 ·0
8. 10	22. 0	20. 32:	·1036	6. 33	·00925	21. 40	44 ·0	49 ·0
8. 32	20. 20	21. 30	·1030	10. 30:	·00842			
9. 0	22. 0	23. 55	·1000	17. 30	·01383			
17. 2	24. 0			20. 48	·01345			
21. 59	18. 5			22. 0	·01315			
23. 51	22. 0			23. 58	·01357			
Feb. 11		Feb. 11		Feb. 11				
0. 30	22. 23. 5	1. 0	·0990	0. 50	·01328	1. 40	47 ·0	53 ·0
2. 1	26. 10	4. 40	·1006	3. 38	·00913	3. 40	51 ·0	56 ·8
7. 0	20. 50	6. 3	·1006	4. 8	·00947	9. 40	53 ·0	58 ·0
7. 38	18. 55	20. 12:	·1050	5. 30	·00952	21. 46	42 ·0	47 ·5
10. 30	22. 35	21. 15	·1044	6. 31	·01010			
12. 20	21. 40	23. 55	·1012	10. 12:	·00896			
18. 43	24. 15			16. 2	·01406			
22. 2	17. 15			22. 2	·01276			
23. 50	21. 25			23. 53	·01314			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 12		Feb. 12		Feb. 12				
h m	° ′ ″	h m		h m		h m	°	°
0. 45	22. 23. 5	0. 15	·1012	1. 10	·01310	1. 40	46 ·5	51 ·0
2. 30	25. 40	2. 47	·1002	3. 45	·00895	3. 40	52 ·0	57 ·0
7. 0	21. 25	8. 15	·1026	6. 16	·00955	9. 40	51 ·0	54 ·0
9. 38	23. 25		***	10. 0:	·00870	21. 46	43 ·0	48 ·0
11. 1	18. 10	12. 27	·1015	16. 40	·01355			
15. 26	26. 30	17. 12	·1032	22. 0	·01300			
16. 0	23. 5	21. 3	·1035	23. 50	·01330			
16. 38	24. 50	23. 55	·1015					
17. 49	22. 0							
21. 3	21. 0							
22. 0	17. 45							
23. 50	21. 25							
Feb. 13		Feb. 13		Feb. 13				
0. 30	22. 22. 5	0. 18	·1010	1. 0	·01301	1. 40	46 ·0	52 ·0
2. 16	25. 15	5. 57	·1013	4. 57	·00830	3. 40	49 ·0	54 ·0
5. 38	21. 55	6. 13	·1006	6. 50	·00895	9. 40	49 ·5	54 ·8
6. 0	22. 35	7. 34	·1013	12. 30:	·00850	21. 48	45 ·0	51 ·0
6. 15	21. 15	9. 0	·1010	23. 5	·01328			
9. 47	19. 30	10. 22	·1017					
10. 14	16. 0		***					
11. 35	20. 25	20. 35	·1030					
17. 59	20. 30	23. 5	·1012					
19. 40	23. 0	23. 50	·1012					
20. 22	20. 55							
20. 58	21. 50							
21. 57	18. 0							
23. 45	21. 0							
Feb. 14		Feb. 14		Feb. 14				
1. 30	22. 23. 35	0. 30	·1014	1. 28	·01232	1. 40	49 ·4	53 ·3
6. 0	21. 10	1. 15	·1027	3. 51	·01005	3. 40	51 ·0	55 ·0
11. 30	21. 30	14. 30	·1044	4. 30	·00936	9. 40	50 ·0	55 ·8
12. 1	20. 0		***	5. 28	·00850	23. 20	45 ·0	51 ·0
12. 41	21. 25	20. 56	·1058	6. 37	{ ·00900			
17. 20	24. 30	21. 8	·1054		{ ·01156			
19. 0	20. 45	21. 15	·1066	10. 30	·01038			
20. 36	19. 5	21. 20	·1057	12. 44	·01093			
21. 12	16. 0	21. 22	·1067	14. 0:	·01099			
21. 32	20. 0		***	17. 38	·01395			
	***	21. 44	·1014	18. 58	·01360			
21. 39	18. 55	21. 45	·1060	20. 13	·01375			
21. 40	32. 0	21. 46	·1034		***			
21. 45	18. 5	21. 47	·1050	21. 40	·01315			
21. 50	22. 37. 50	21. 57	·0892	21. 52	·01275			
	***		(†)	22. 18	·01364			
22. 9	21. 54. 30	22. 2	·0892	22. 38	·01301			
	***		***	22. 45	·01371			
22. 31	22. 10. 25	22. 32	·1090	22. 50	·01321			
	***	22. 40	·0947	22. 55	·01371			
22. 41	21. 56. 30	22. 50	·1027	23. 2	·01346			
22. 43	54. 55	22. 54	·0986	23. 18	·01425			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 14		Feb. 14		Feb. 14				
h m	° ′ ″	h m		h m		h m	°	°
22. 48	21. 43. 20	23. 0	·1060	23. 32	·01390			
22. 57	47. 45	23. 3	·1024					
23. 1	21. 40. 30	23. 18	·1106					
23. 18	22. 8. 20	23. 27	·1050					
23. 32	21. 57. 0	23. 40	·1080					
23. 46	22. 21. 40		***					
Feb. 15		Feb. 15		Feb. 15				
0. 0	22. 27. 0	0. 15	·1006	0. 0	·01420	11. 38	49 ·0	55 ·4
0. 10	30. 55	0. 24	·1014		***	21. 40	48 ·0	53 ·0
	***	0. 37	·0976	0. 54	·01450			
0. 32	24. 0	0. 39	·0980		***			
	***	0. 45	·0973	1. 14	·01405			
0. 41	23. 10	0. 49	·0982		***			
0. 52	32. 20	1. 10	·0938	1. 25	·01450			
1. 20	14. 50	1. 48	·0966		***			
1. 27	16. 50	2. 0	·0915	1. 49	·01404			
1. 33	14. 0	2. 19	·0918		***			
1. 54	27. 30	2. 39	·0961	2. 0	·01435			
	***	2. 56	·0903		***			
2. 23	12. 50		(†)	2. 15	·01413			
2. 29	22. 14. 25	3. 8	·0902		***			
	***	3. 12	·0930	2. 24	·01456			
2. 44	21. 57. 30	3. 18	·0916		***			
2. 47	22. 0. 0	3. 36	·1022	2. 35	·01442			
3. 1	21. 48. 20		***		***			
	***	3. 59	·1019	3. 1	·01528			
3. 13	22. 17. 20	4. 2	·1030		***			
	***		***	5. 19	·01362			
3. 32	21. 55. 15	4. 34	·1028	6. 24	·01230			
	***	4. 50	·1042		***			
3. 47	22. 0. 40		***	7. 18	·01114			
4. 12	21. 50. 30	6. 2	·1030		***			
4. 37	22. 13. 0		***	8. 13	·01070			
4. 41	11. 20	6. 22	·1062		***			
	***		***	8. 24	·01081			
5. 1	21. 10	6. 55	·1022		***			
5. 4	18. 5		***	8. 46	·01040			
	***	7. 18	·1055		***			
5. 29	27. 0		***	9. 2	·00990			
5. 40	21. 10	8. 18	·1016		***			
	***		***	9. 18	·00988			
5. 58	16. 45	8. 45	·1034		***			
	***		***	10. 17	·00937			
6. 3	20. 0	9. 19	·1019		***			
	***		***	10. 26	·00921			
6. 8	17. 15	9. 32	·1039		***			
	***		***	11. 41	·00910			
6. 18	23. 15	9. 55	·1020		***			
	***		***	11. 49	·00857			
6. 29	21. 5	10. 22	·1033	11. 54	·00833			
	***		***	11. 59	·00843			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 15		Feb. 15		Feb. 15				
h m	° ′ ″	h m		h m		h m	°	°
6. 47	22. 29. 0	10. 40	·1008	12. 4	·00830			
	***		***		***			
7. 20	20. 5	11. 0	·1028	12. 9	·00826			
	***		***	12. 19	·00799			
7. 48	27. 30	11. 53	·1010	12. 40	·00670			
8. 10	25. 35		***	12. 46	·00645			
	***	12. 0	·1030	12. 56	·00583			
8. 45	13. 10		***	13. 1	·00560			
9. 2	17. 30	12. 2	·1018	13. 13	·00535			
9. 21	9. 0		***	13. 25	·00525			
9. 42	20. 25	12. 5	·1027	13. 32	·00540			
	***	12. 14	·1005	13. 48	·00511			
10. 1	16. 30		***	14. 1	·00381			
10. 21	21. 30	12. 32	·1020	14. 12	·00400			
10. 36	19. 20	12. 35	·1010	14. 27	·00495			
10. 54	13. 45		***	14. 32	·00465			
11. 13	22. 45	12. 55	·1066	14. 41	·00480			
11. 17	22. 0		***	14. 47	·00365			
11. 28	25. 30	13. 19	·1038	15. 1	·00431			
11. 31	23. 40	13. 37	·1088	15. 6	·00335			
11. 49	31. 0	13. 50	·1018	15. 12	·00422			
11. 58	17. 0		***	15. 14	·00390			
	***	14. 2	·1047	15. 25	·00595			
12. 10	27. 0		***	15. 32	·00590			
	***	14. 20	·1019	15. 46	·00513			
12. 18	23. 55	14. 32	·1073	15. 58	·00560			
	***		***		***			
12. 30	27. 35	14. 41	·1044	16. 15	·00551			
	***		***	16. 29	·00521			
12. 41	19. 30	14. 59	·1091	16. 45	·00550			
	***		***	16. 56	·00530			
12. 43	23. 5	15. 48	·0986		***			
	***		***	19. 13	·00825			
12. 48	22. 0	16. 14	·1024	19. 58	·00830			
	***	16. 36	·0987		***			
12. 59	32. 20		***	23. 4	·01220			
	***	16. 56	·0981	23. 14	·01210			
13. 10	27. 0	17. 1	·0991	23. 25	·01233			
	***		***					
13. 12	28. 30	17. 30	·0952					
13. 17	21. 0		***					
13. 20	24. 30	18. 40	·1014					
13. 26	20. 0		***					
13. 29	32. 55	19. 22	·0977					
	***	19. 29	·0987					
13. 38	30. 15	19. 32	·0979					
	***	19. 43	·0996					
13. 44	32. 0	20. 3:	·0980					
	***	20. 16	·0988					
13. 47	27. 30	20. 25	·0980					
	***	20. 31	·0994					
13. 51	31. 0		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 15		Feb. 15				Feb. 15		
h m	° ′ ″	h m		h m		h m	°	°
13. 57	22. 27. 30	20. 36	·0946					
	***		***					
14. 6	37. 5	23. 3	·0990					
	***		***					
14. 21	31. 30	23. 59	·0985					
	***							
14. 31	36. 10							
	***							
14. 40	30. 55							
14. 43	36. 35							
14. 50	27. 30							
	***							
15. 6	42. 0							
	***							
16. 1	27. 0							
	***							
16. 25	29. 35							
17. 31	20. 35							
17. 51	23. 25							
	***							
18. 33	16. 35							
	***							
19. 26	35. 30							
19. 38	37. 10							
	***							
20. 0	28. 10							
	***							
20. 29	23. 30							
	***							
20. 33	27. 25							
	***							
20. 52	21. 35							
20. 56	24. 25							
21. 6	17. 5							
	***							
21. 10	23. 25							
	***							
21. 14	19. 5							
	***							
21. 20	22. 40							
21. 29	18. 0							
21. 30	20. 0							
21. 38	17. 0							
21. 41	19. 25							
21. 43	16. 35							
	***							
22. 8	13. 30							
	***							
22. 19	19. 0							
	***							
22. 28	15. 0							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15								
h m	° ′ ″	h m		h m		h m	°	°
22.34	22. 24. 0							
22.39	17. 5 ***							
22.44	25.55 ***							
22.50	22.10 ***							
22.54	26.20 ***							
23. 2	23. 0 ***							
23.10	28. 0 ***							
23.24	24.15 ***							
23.44	22.50 ***							
Feb. 16		Feb. 16		Feb. 16				
1.20	22. 23.25 ***	0.13	·0972 ***	1.40	·01230 ***	1.40	51 ·0	55 ·0
						3.40	54 ·0	57 ·8
2.52	23.35	0.52	·0993 ***	2.27	·01200	9.40	53 ·0	58 ·0
3. 6	27. 0			2.36	·01210	21.46	53 ·0	58 ·5
3.28	23. 0	2.33	·0998 ***	3.10	·01155 ***			
3.33	25. 5							
4.11	20.20	3. 9	·0965 ***	3.33	·01132 ***			
4.27	22.30							
4.55	19.35	3.33	·0990 ***	3.45	·01090 ***			
5.12	4. 5							
5.28	15.40	5. 5	·0984	4. 8	·01061 ***			
5.36	11. 0	5.25	·1050					
5.41	12.35	5.32	·1010 ***	4.59	·01083 ***			
5.49	10. 5 ***							
		6.45	·0974	5.17	·01130 ***			
6.40	19.50	7. 3	·0992					
6.49	19. 0	7.47	·0995 ***	5.29	·01082 ***			
7. 8	20.20							
7.22	8.10 ***	8. 2	·0985	5.45	·01051 ***			
		8.18	·1003					
7.52	17.25	9. 6	·0969	7.30	·01075 ***			
8.10	12. 0	9.24	·0990					
8.34	22. 0	9.30	·0978	7.34	·01180			
8.50	19.45	9.45	·0990	9. 8	·01075 ***			
8.59	22.20	10. 5	·0986					
9.13	16. 0	10.18	·0972	11.46	·01070			
9.23	22.45	10.36	·0984 ***	12.30	·01030			
9.41	13. 0			12.49	·01045			
10.10	21. 0	11.38	·0972 ***	15.10	·01072			
10.30	13. 0			21.12	·00968			
11.20	18.25 ***	12. 5	·0993	23.52	·01080			
		12.32	·0960					
11.42	16.20 ***	12.57	·0996					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16		Feb. 16		Feb. 16				
h m	° ′ ″	h m		h m		h m	°	°
12. 6	22. 24. 10	13.14	·0991					
12.44	16. 0	13.24	·0980					
13. 0	22.15 ***	13.38	·0980					
		13.53	·0987 ***					
13.46	16. 5 ***							
		16.50	·0982 ***					
14.54	21.25							
15.38	19. 0 ***	18.22	·0992					
16.45	23.10 ***	18.33	·0984 ***					
17.46	20. 0 ***	20.48	·0975 ***					
18.31	23. 0	22.49	·0939					
18.42	21.30	23.31	·0951					
19. 1	23. 0 ***		***					
		23.38	·0941 ***					
19.40	20. 0 ***							
		23.55	·0952					
20.15	22.10 ***							
20.44	19.20 ***							
20.53	22.40 ***							
21.11	18.50 ***							
21.28	18.30 ***							
21.34	21.10 ***							
21.45	19.10 ***							
21.48	22.20							
21.52	20.20 ***							
22.40	22.30 ***							
23.19	21. 0 ***							
23.53	26.30							
Feb. 17		Feb. 17		Feb. 17				
0.40	22.31. 0 ***	0.29	·0933	1. 0	·01140	1.40	56 ·0	60 ·3
		0.36	·0970	1.23	·01160	3.40	60 ·5	65 ·0
0.50	33.30 ***		***	1.36	·01233	9.40	60 ·0	64 ·3
		1.28	·0956	2.17	·01183	21.40	53 ·5	58 ·5
1.28	26.10 ***		***	3.51	·01200 ***			
		3.40	·0981					
3. 0	27.35	3.53	·0967	4.30	·01265			
4. 0	22.30 ***	3.58	·0973	5.57	·01310			
		4. 1	0966	6.26	·01300			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 17	° ′ ″	Feb. 17		Feb. 17		h m	°	°
h m		h m		h m				
4. 20	22. 14. 30	4. 8	·0965	6. 39	·01325			
4. 53	20. 0	4. 32	·0991	8. 30	·01335			
5. 37	19. 30		***	9. 10	·01321			
5. 58	11. 0	5. 48	·0977	10. 2:	·01401			
6. 5	14. 50	6. 2	·0998	14. 42	·01590			
6. 10	13. 35	6. 7	·0986	14. 45	·01611			
6. 28	17. 30	6. 14	·0989		***			
6. 34	15. 10	6. 29	·0966	15. 14	·01565			
7. 0	18. 25	6. 42	·0973	15. 32	·01570			
7. 14	11. 15	7. 10	·0965	15. 43	·01550			
7. 30	16. 0	7. 20	·0975	15. 56	·01565			
7. 43	12. 30	7. 31	·0970	16. 31	·01530			
8. 20	19. 5		***	16. 45	·01480			
8. 31	12. 55	8. 21	·0967	17. 2	·01500			
8. 48	21. 0	8. 37	·1005	17. 9	·01494			
9. 9	22. 35	9. 21	·0963	18. 27	·01594			
9. 28	16. 55		***	19. 2	·01575			
9. 58	19. 0	14. 43	·0991	19. 3	·01530			
10. 6	15. 5	14. 46	·1018	19. 4	·01600			
10. 22	16. 25		***	19. 10	.01526			
10. 42	13. 35	15. 4	·1023	19. 12	·01581			
	***	15. 25	·0996	19. 15	·01549			
14. 44	28. 0		***	19. 29	.01641			
	***	15. 34	·0997	19. 46	·01231			
15. 10	39. 0		***	19. 48	·01289			
15. 30	34. 0	15. 50	·0984	19. 56	·01121			
15. 36	34. 35		***	19. 59	·01310			
15. 53	26. 0	16. 0	.0996	20. 1	·01260			
	***		***	20. 2	·01350			
16. 2	28. 0	16. 6	·0990	20. 3	·01305			
	***		***	20. 5	·01348			
16. 15	25. 20	16. 23	·1001	20. 10	·01230			
	***		***	20. 12	·01292			
16. 43	38. 50	16. 45	·0971	20. 20	·00910			
	***		***	20. 21	·01076			
17. 29	20. 35	17. 0:	·0990	20. 31	·00860			
17. 59	22. 30		***	20. 35	·00967			
18. 2	19. 50	17. 45	·1000	20. 36	·01021			
	***		***	20. 38	·01168			
18. 14	24. 0	18. 38	·0988	20. 40	·01072			
	***	18. 41	·0957	20. 41	·01228			
18. 24	20. 5	18. 42	·1038	20. 42	·01181			
	***	18. 44	·0969	20. 43	·01290			
18. 30	29. 10	18. 46	·1009	20. 44	·01235			
	***	18. 47	·0988	20. 44½	·01285			
18. 40	19. 0	18. 49	·1025	20. 45	.01270			
18. 41	32. 0	18. 50	·0982	20. 46	·01350			
18. 42	20. 15	18. 51	·0997	20. 47	·01239			
18. 45	29. 35	18. 52	·0981	20. 48	·01326			
18. 46	19. 5		***	20. 49	·01265			
18. 52	29. 0	18. 57	·0978·	20. 50	·01380			
18. 53	13. 5		***	20. 52	·01320			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 17	° ′ ″	Feb. 17		Feb. 17		h m	°	°
h m		h m		h m				
18. 57	22. 23. 30	18. 59	·1027	20. 58	·01432			
19. 0	9. 25	19. 2	·0983	20. 59	·01335			
19. 1	16. 0	19. 3	·1044	21. 0	·01422			
19. 2	6. 0		***	21. 3	·01285			
19. 7	23. 35	19. 9	·0943	21. 6	·01494			
	***	19. 11	·1006	21. 8	·01420			
19. 11	16. 25	19. 12	·0953	21. 9	·01481			
19. 13	22. 25	19. 13	·1015	21. 16	·01202			
19. 14	4. 10		***	21. 20	·01459			
	***	19. 14	·0946	21. 22	·01350			
19. 16	10. 45	19. 17	·0990	21. 23	·01430			
19. 18	4. 0	19. 18	·0966	21. 25	·01370			
19. 20	8. 25		***	21. 26	·01460			
19. 21	2. 0	19. 21	·1006	21. 27	·01410			
	***		***	21. 28	·01480			
19. 45	46. 0	19. 25	·0965	21. 29	·01441			
19. 49	35. 20		***	21. 30	·01520			
19. 56	45. 5	19. 29	·1005	21. 32	·01445			
20. 0	13. 50		(†)	21. 33	·01630			
	***	21. 33	·1040	21. 34	·01475			
20. 13	35. 0	21. 43	·0922	21. 34	·01671			
20. 19	9. 30	21. 45	·0938	21. 40	·01490			
20. 22	33. 0	21. 48	·0924	21. 42	·01601			
20. 25	8. 5	21. 54	·0924	21. 43	·01538			
20. 27	34. 25		***	21. 46	·01581			
	***	22. 3	·0982	21. 57	·01500			
20. 36	8. 0	22. 6	·0952	21. 58	·01590			
	***	22. 8	·0972	21. 59	·01570			
20. 44	14. 45		***	22. 6	·01635			
	***	22. 12	·0946	22. 9	·01620			
20. 50	6. 30		***	22. 18	·01659			
	***	22. 18	·0966	22. 24	·01606			
20. 58	19. 0		***	22. 25	·01635			
	***	22. 22	·0925	22. 28	·01592			
21. 3	9. 10	22. 25	·0938	22. 29	·01627			
	***	22. 28	·0910	22. 30	·01601			
21. 11	25. 35		***	22. 32	·01650			
	***	22. 38	·0986	22. 36	·01610			
21. 17	1. 55	22. 40	·0950	22. 41	·01650			
21. 20	22. 24. 25	22. 46	·0986	22. 43	·01610			
	***		***	22. 47	·01650			
21. 30	21. 58. 0	22. 50	·0942	22. 50	·01628			
	***	22. 52	·1022	22. 54	·01653			
21. 39	22. 27. 30	22. 55	·0938	22. 56	·01598			
	***		***	22. 57	·01731			
21. 58	9. 35	22. 58	·1000	22. 58	·01600			
	***	23. 0	·0956	22. 59	·01671			
22. 12	24. 5		***	23. 6	·01642			
	***	23. 5	·0972	23. 10	·01675			
22. 15	18. 10		***	23. 16	·01654			
	***	23. 27	·0942	23. 23	·01630			
22. 21	22. 0	23. 29	·0986	23. 24	·01676			
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 17		Feb. 17		Feb. 17				
h m	° ′ ″	h m		h m		h m	°	°
22. 25	22. 12. 0	23. 30	·0938	23. 26	·01634			
	***		***	23. 27	·01655			
22. 30	14. 30	23. 36	·1012	23. 28	·01640			
	***		***	23. 29	·01676			
22. 37	10. 55	23. 37	·0942	23. 30	·01640			
	***	23. 38	·1164	23. 32	·01680			
22. 45	20. 0	23. 39	·1005	23. 34	·01612			
	***		***	23. 36	·01680			
22. 54	4. 10	23. 44	·1033	23. 39	·01603			
	***	23. 45	·0960	23. 40	·01701			
23. 0	26. 50	23. 46	·1075	23. 41	·01580			
	***	23. 47	·0967	23. 42	·01730			
23. 5	18. 50	23. 48	·1038	23. 44	·01524			
	***		***	23. 46	·01562			
23. 26	22. 27. 0	23. 52	·0945	23. 47	·01900			
	***	23. 56	·1074	23. 56	·01570			
23. 44	21. 58. 45	23. 57	·0971	23. 57	·01781			
	***	23. 58	·0995	23. 59	·01632			
23. 45	22. 37. 25	23. 59	·0952					
	***							
23. 50	18. 0							
	***							
23. 59	35. 20							
	***							
Feb. 18		Feb. 18		Feb. 18				
0. 5	22. 19. 5	0. 0	·1018	0. 4	·01680	1. 40	54 ·5	61 ·0
	***	0. 1	·0990	0. 9	·01810	3. 40	56 ·0	62 ·0
0. 12	36. 0	0. 3	·1037	0. 12	·01679	9. 40	52 ·0	58 ·0
	***	0. 5	·0944	0. 14	·01760	21. 53	42 ·0	46 ·5
0. 23	17. 0	0. 12	·1017	0. 15	·01780			
	***	0. 13	·0944	0. 20	·01680			
0. 39	28. 0	0. 15	·1006	0. 45	·01768			
	***		***	0. 47	·01750			
0. 41	17. 0	0. 18	·0943	0. 49	·01790			
	***	0. 20	·0981	0. 53	·01780			
1. 4	27. 30		***	1. 0	·01840			
	***	0. 22	·0951	1. 4	·01801			
1. 12	32. 25	0. 24	·0982	1. 6	·01821			
	***		***	1. 9	·01790			
1. 34	24. 0	0. 29	·0970	1. 12	·01820			
	***		***	1. 27	·01737			
1. 40	29. 35	0. 33	·0941	1. 29	·01808			
2. 9	32. 4	0. 38	·0962	1. 37	·01732			
2. 47	14. 30		***	2. 41	·02064			
3. 2	29. 30	0. 40	·0952	2. 44	·02035			
	***		(†)	2. 45	·02120			
3. 10	32. 40	2. 34	·1000	2. 47	·02091			
3. 23	17. 0		***	2. 50	·02155			
3. 37	33. 30	2. 42	·1074	2. 56	·02105			
3. 40	27. 0	2. 45	·1038	2. 57	·02131			
3. 43	31. 35		***	3. 2	·02011			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 18		Feb. 18		Feb. 18				
h m	° ′ ″	h m		h m		h m	°	°
3. 54	22. 28. 35	2. 50	·1104	3. 9	·02098			
	***		***	3. 18	·02080			
4. 0	33. 5	3. 9	·0997	3. 25	·02121			
	***		***	3. 44	·01961			
4. 8	27. 0	3. 22	·1125	3. 45	·01980			
	***		***	3. 52	·01932			
4. 23	34. 10	3. 26	·1050	3. 57	·01954			
	***		***	4. 15	·01850			
4. 36	21. 5	3. 46	·1122	4. 22	·02048			
4. 38	30. 50		***	4. 30	·01960			
4. 44	18. 0	3. 56	·1062	4. 37	·02138			
4. 48	35. 5	3. 57	·1078	4. 48	·01920			
4. 54	16. 0		***	4. 59	·02030			
	***	4. 27	·1020	5. 5	·01951			
5. 1	23. 0	4. 33	·1080	5. 10	·02011			
5. 7	11. 25	4. 35	·1038	5. 48	·01630			
	***		***	6. 48	·01572			
5. 20	25. 50	4. 47	·1084	7. 55	·01605			
	***		***	8. 45	·01527			
5. 27	21. 50	4. 58	·1016	9. 18	·01630			
5. 30	26. 15	5. 1	·1048	10. 35	·01542			
	***		***	11. 30	·01402			
5. 59	17. 30	5. 4	·1033	11. 42	·01423			
6. 1	22. 30		***	12. 0	·01331			
	***	5. 10	·1057	12. 14	·01356			
6. 41	19. 0		***	12. 43	·01397			
6. 56	21. 25	5. 12	·1030	13. 6	·01387			
7. 13	16. 0		***	13. 34	·01426			
7. 34	20. 20	5. 19	·1083	15. 5	·01312			
	***		***	16. 2	·01378			
8. 23	11. 35	5. 51	·0938	17. 10	·01320			
8. 41	30. 0		***	23. 58	·01371			
	***	6. 1	·0954					
9. 4	14. 30		***					
	***	6. 16	·0937					
9. 10	22. 17. 25		***					
9. 17	21. 58. 30	6. 28	·0953					
9. 31	22. 37. 35		***					
	***	7. 0	·0936					
10. 19	6. 55		***					
	***	7. 29	·0953					
10. 29	11. 0		***					
	***	8. 18	·0945					
10. 35	7. 20		***					
	***	8. 30	·0977					
10. 55	22. 10		***					
	***	9. 0	·0922					
11. 17	0. 0	9. 16	·0941					
	***	9. 24	·1021					
11. 22	22. 1. 25	9. 45	·0944					
11. 24	21. 59. 0		***					
	***	10. 0:	·0954					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 18		Feb. 18						
h m	° ′ ″	h m		h m		h m	°	°
11. 54	22. 18. 25	10. 26	·1008					
12. 2	13. 0	10. 33	·0996					
12. 20	20. 35		***					
	***	10. 36	·1018					
12. 29	16. 20		***					
12. 49	22. 50	11. 4	·0964					
13. 0	17. 35		***					
13. 3	19. 50	11. 20	·0997					
13. 11	12. 55		***					
13. 16	18. 35	11. 36	·0974					
13. 21	18. 0		***					
13. 48	27. 15	12. 2	·0966					
14. 34	17. 35	12. 18	·0984					
14. 48	20. 0	12. 29	·0967					
15. 27	13. 30		***					
	***	14. 55	·0945					
16. 27	24. 15		***					
17. 2	27. 0	16. 1	·0970					
17. 13	21. 25		***					
	***	17. 9	·0963					
18. 6	32. 0	17. 32:	·0984					
	***		***					
18. 30	24. 55	18. 10	·0973					
	***		***					
18. 52	31. 50	18. 33	·0982					
	***	19. 0	·0964					
19. 3	28. 30		***					
19. 11	32. 40	19. 10	·0971					
19. 20	30. 0	19. 19	·0960					
	***		***					
19. 41	30. 25	20. 30	·0953					
20. 51	20. 25		***					
22. 28	18. 0	21. 24	·0944					
	***		***					
23. 58	24. 15	21. 34	·0961					
			***					
		23. 40	·0970					
			***					
Feb. 19		Feb. 19		Feb. 19				
2. 38	22. 36. 40	0. 28	·0946	1. 0	·01385	1. 40	47 ·8	52 ·5
	***		***	1. 6	·01385	3. 40	50 ·0	55 ·0
3. 21	26. 0	0. 30	·0966	1. 18	·01450	9. 53	49 ·0	54 ·0
	***		***	1. 51	·01300	21. 40	45 ·0	46 ·0
3. 33	31. 5	0. 48	·0942	2. 43	·01255			
3. 50	24. 0		***	2. 48	·01342			
4. 1	29. 30	1. 3	·0990	2. 53	·01261			
	***		(†)	2. 56	·01299			
4. 17	24. 5	4. 50	·0897	2. 57	·01263			
	***		***	3. 0	·01290			
4. 27	28. 5	5. 5	·0984	3. 9	·01180			
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 19		Feb. 19		Feb. 19				
h m	° ′ ″	h m		h m		h m	°	°
4. 43	22. 17. 5	5. 35	·0950	3. 50	{ ·01050			
4. 50	23. 35		(†)		{ ·01070			
	***	7. 14	·0923	4. 28	·01018			
4. 59	20. 45		***	4. 44	·01081			
5. 5	27. 25	7. 46	·0961	4. 46	·01053			
5. 17	18. 0	7. 56	·0933	4. 49	·01080			
5. 24	20. 0		(†)	4. 54	·01063			
5. 59	1. 25	14. 11	·1126	5. 24	·01130			
6. 20	11. 30		***	5. 36	·01140			
6. 29	8. 0	14. 26	·1065	5. 45	·01203			
6. 58	19. 0	14. 38	·1126	6. 11	·01140			
7. 2	17. 5	14. 47	·1010	6. 28	·01170			
7. 11	22. 24. 25	14. 58	·1188	7. 10	·01080			
7. 27	21. 26. 30	15. 12	·1028	7. 15	·00997			
	***		***	7. 20	·01013			
7. 44	57. 50	15. 18	·1047	7. 24	·00993			
	***		***	7. 26	·01040			
8. 6	34. 35	15. 54	·0980	7. 50	·00960			
	***	16. 11	·0996	8. 8	·00790			
8. 18	47. 0		***	8. 10	·00830			
8. 31	21. 43. 10	16. 18	·1028	8. 15	·00682			
	***		***	8. 18	·00762			
8. 58	22. 3. 25	16. 30	·1007	8. 23	·00690			
9. 6	21. 55. 0		***	8. 40	·00846			
9. 11	22. 8. 35	16. 45	·1049	8. 45	·00760			
9. 20	21. 55. 15		***	8. 51	·01000			
9. 29	22. 15. 55	16. 50	·1018	9. 5	·00671			
9. 33	21. 55. 30		***	9. 9	·00744			
9. 40	22. 8. 35	16. 52	·1032	9. 12	·00652			
9. 52	21. 46. 0	17. 0	·1008	9. 17	·00780			
9. 58	22. 11. 25		***	9. 23	·00600			
10. 0	21. 53. 0	17. 5	·1027	9. 28	·00729			
10. 12	22. 9. 30	17. 11	·1007	9. 31	·00640			
10. 17	21. 50. 25		***	9. 37	·00710			
	***	17. 21	·1040	9. 41	·00386			
10. 29	55. 55		***	9. 48	·00500			
	***	17. 42	·1002	9. 52	·00320			
10. 34	21. 52. 0	17. 44	·1018	9. 59	·00560			
	***	17. 48	·1007	10. 14	·00218			
11. 1	22. 18. 50	17. 49	·1018	10. 15	·00280			
	***	17. 56	·1008	10. 18	·00050			
11. 32	21. 33. 0	17. 59	·1024	10. 39	·00356			
11. 43	56. 55		***	10. 45	·00250			
	***	18. 58	·0958	10. 58	·00376			
11. 55	50. 0		***	11. 2	·00134			
11. 59	59. 55	19. 10	·0985	11. 9	·00304			
12. 2	40. 25	19. 17	·0944	11. 15	·00100			
12. 3	48. 30		***	11. 31	·00430			
12. 12	21. 27. 30	19. 29	·1004	11. 37	·00159			
	***		***	11. 40	·00240			
12. 46	22. 46. 0	19. 47	·0960	11. 45	·00015			
	***	19. 50	·0995	11. 53	·00521			
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 19		Feb. 19		Feb. 19		h m	o	o
h m	o ′ ″	h m		h m				
13. 1	21. 59. 5	19. 58	·0983	12. 2	·00266			
	***		***	12. 9	·00590			
13. 15	21. 48. 0	20. 3	·1022	12. 13	·00555			
13. 30	22. 9. 5	20. 7	·0966	12. 16	·00690			
	***		***	12. 23	·00030			
13. 41	21. 56. 30	20. 15	·1010	12. 32	·00380			
	***	20. 18	·0945	13. 2	·00050			
14. 1	22. 13. 10		***	13. 18	·00550			
	***	20. 20	·0958	13. 25	·00565			
14. 15	0. 0		***	13. 32	·00489			
	***	20. 31	·0937	14. 15	·00945			
14. 30	22. 9. 0	20. 37	·0990	14. 17	·00920			
	***		***	14. 23	·00946			
14. 47	21. 56. 35	20. 48	·0944	14. 53	·00820			
14. 54	22. 2. 5	20. 56	·1023	15. 9	·00877			
14. 59	21. 57. 5		***	15. 21	·00796			
	***	21. 1	·1020	15. 40	·00988			
15. 9	22. 4. 35		***	15. 43	·00941			
	***	21. 13	·0927	15. 47	·01014			
15. 18	1. 15	21. 18	·0970	16. 10	·00825			
	***	21. 29	·0937	16. 14	·00850			
15. 29	11. 35	21. 30	·0958	16. 22	·00646			
15. 32	8. 35	21. 31	·0945	16. 29	·00686			
15. 40	17. 25	21. 35	·0964	16. 33	·00630			
15. 45	14. 5		***	16. 45	·00856			
	***	21. 46	·0940	17. 2	·00912			
16. 10	51. 0		***	17. 13	·00883			
16. 33	13. 30	21. 47	·0965	17. 21	·00913			
	***		***	17. 50	·00713			
16. 45	23. 5	22. 5	·0963	18. 0	·00778			
	***		***	18. 6	·00699			
16. 59	17. 0	22. 18	·0983	18. 9	·00795			
17. 27	52. 30	22. 20	·0951	18. 22	·00729			
	(†)	22. 27	·0975	18. 43	·00781			
18. 32	53. 0	22. 29	·0965	19. 31	·01070			
18. 45	37. 20	22. 31	·0980	20. 10	·01030			
	***	22. 33	·0967	21. 32	·01304			
19. 23	53. 0	22. 37	·0981		·01194			
	(†)	22. 42	·0968	22. 16	·01322			
20. 14	46. 0	22. 47	·0973	22. 20	·01280			
20. 27	49. 0	22. 50	·0961	23. 10	·01318			
	***	22. 53	·0972	23. 58	·01360			
21. 12	26. 30	23. 0	·0959					
	***		***					
22. 6	33. 35	23. 35	·0978					
	***	23. 43	·0987					
22. 16	25. 35	23. 58	·0996					
	***							
23. 35	31. 35							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 20		Feb. 20		Feb. 20		h m	o	o
h m	o ′ ″	h m		h m				
0. 51	22. 29. 0	0. 7	·0973	0. 46	·01361	1. 40	45 ·0	50 ·8
1. 3	24. 35	0. 13	·0990		***	3. 40	48 ·0	52 ·5
	***		***	1. 39	·01291	9. 40	48 ·0	53 ·0
1. 20	29. 0	0. 33	·0977	1. 43	·01335	21. 45	39 ·0	46 ·0
	***	0. 49	·1000	2. 4	·01310			
1. 42	21. 20	0. 56	·0981		***			
1. 50	26. 20	1. 2	·1000	3. 17	·01030			
	***		***	3. 37	·01058			
2. 29	17. 5	1. 16	·1016	3. 45	·01002			
	***	1. 28	·0997	3. 52	·01048			
3. 8	25. 30	1. 34	·1012	4. 7	·01001			
	***	1. 40	·0992		***			
3. 50	10. 20	1. 45	·1029	5. 18	·00970			
4. 1	23. 0		***	6. 1	·00996			
4. 12	16. 35	2. 29	·1037	6. 12	·01068			
	***	2. 37	·1008	7. 58	·00873			
4. 29	19. 10	2. 48	·1000	8. 13	·00850			
5. 5	11. 25	3. 1	·1017	8. 18	·00853			
5. 36	17. 10	3. 19	·0982	8. 38	·00801			
5. 42	15. 35	3. 40	·1040	14. 10	·00898			
5. 54	17. 0	3. 42	·1011	17. 18	·01290			
	(†)	3. 56	·1052	19. 44	·01247			
6. 31	6. 0	4. 6	·1005	23. 39	·01295			
	***		***	23. 52	·01305			
7. 57	19. 20	4. 24	·1020					
8. 1	31. 40		***					
8. 19	11. 10	4. 46	·1002					
	***		***					
8. 31	27. 5	5. 18	·1006					
8. 50	15. 0	5. 28	·0991					
8. 57	18. 5	5. 33	·0997					
9. 16	10. 25	5. 42	·0984					
9. 41	14. 0	5. 52	·0993					
9. 50	12. 0		***					
10. 10	20. 45	6. 12	·0964					
10. 23	13. 0	6. 17	·1036					
10. 33	23. 30	6. 30	·1004					
10. 50	13. 30	6. 40	·1006					
11. 1	15. 30	6. 48	·0988					
11. 11	14. 40	6. 52	·1000					
11. 20	20. 25	7. 1	·0986					
11. 48	15. 20		***					
12. 13	23. 15	7. 44	·0986					
12. 42	18. 0		***					
13. 32	27. 30	7. 52	·1020					
14. 14	16. 20	8. 3	·0986					
14. 49	19. 40	8. 10	·0982					
15. 7	17. 35	8. 19	·1022					
	***		***					
16. 30	28. 10	8. 35	·0978					
17. 57	24. 30		***					
19. 12	28. 10	8. 50	·1006					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 20		Feb. 20						
h m	° ′ ″	h m		h m		h m	°	°
19. 50	22. 23. 15	9. 0	·0989					
	***		***					
20. 28	24. 20							
20. 59	19. 50	9. 26	·0996					
	***		***					
23. 33	24. 55	10. 0	·0969					
23. 39	21. 0		***					
23. 41	27. 0	10. 13	·0979					
23. 48	24. 10	10. 29	·1002					
		10. 43	·0969					
		10. 59	·0987					
			***					
		11. 13	·0983					
		11. 29	·0969					
		11. 52	·0994					
			***					
		13. 6	·0986					
		13. 15	·1008					
			***					
		14. 5	·0985					
		14. 20	·1001					
			***					
		15. 32	·0982					
			***					
		18. 2	·1004					
		18. 51	·0995					
		19. 24	·0999					
			***					
		23. 0	·0976					
		23. 38	·0979					
		23. 39	·0960					
		23. 40	·0978					
			***					
		23. 52	·0970					
Feb. 21		Feb. 21		Feb. 21				
0. 27	22. 35. 30	0. 12	·0989	0. 45	·01302	1. 40	44 ·0	48 ·8
	***		***	1. 45	·01295	3. 40	48 ·0	52 ·5
0. 58	28. 35	1. 43	·1024	3. 47	·01057	9. 40	49 ·2	54 ·5
1. 2	33. 0		***	4. 0	·01080	22. 55	46 ·0	52 ·0
1. 10	27. 25	2. 14	·0976	4. 10	·01062			
1. 13	29. 55	2. 27	·1003	4. 17	·01125			
	***	2. 29	·0998	4. 35	·01130			
1. 28	27. 35	2. 37	·1006	5. 12	·01027			
	***	2. 46	·0979	5. 22	·01049			
1. 45	36. 5	2. 50	·0992	5. 40	·01002			
	***	2. 58	·0980	6. 0	·01049			
2. 13	29. 40	3. 2	·0994	9. 12	·00872			
2. 33	37. 0	3. 27	·1029	9. 37	·00801			
2. 48	31. 0	3. 28	·1016	9. 49	·00813			
	***	3. 32	·1028	9. 59	·00760			
3. 6	35. 20	3. 43	·1029	10. 3	·00896			
3. 13	24. 35	3. 47	·1014	10. 12	·00660			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 21		Feb. 21		Feb. 21				
h m	° ′ ″	h m		h m		h m	°	°
3. 46	22. 34. 5	3. 50	·1025	10. 20	·00730			
	***		***	10. 32	·00686			
4. 3	22. 0	3. 55	·1031	10. 40	·00722			
	***		***	11. 10	·00680			
4. 15	25. 10	4. 10	·0994	13. 0	·00745			
4. 27	16. 25		***	13. 42	·00573			
4. 32	27. 50	4. 27	·1038	14. 21	·00674			
4. 39	15. 30	4. 32	·1010	14. 42	·00665			
4. 53	27. 10		***	15. 31	·00761			
	***	4. 41	·1040	23. 17	·01327			
5. 19	17. 30		***					
5. 40	26. 0	5. 7	·0984					
6. 0	10. 10		***					
	***	5. 24	·1028					
6. 53	21. 0	5. 44	·0972					
	***	5. 46	·0981					
7. 12	17. 0	5. 50	·0969					
	***	6. 2	·1010					
7. 27	20. 0		***					
	***	6. 45	·0967					
7. 57	11. 5		***					
	***	7. 4	·0994					
8. 24	17. 25	7. 14	·0986					
8. 49	6. 5	7. 21	·0994					
9. 4	10. 30	7. 47	·0981					
9. 14	6. 20	8. 0	·0993					
	***	8. 5	·0986					
9. 35	20. 15	8. 27	·1000					
9. 50	9. 0	8. 43	·0981					
9. 57	22. 15. 30	8. 48	·0996					
10. 3	21. 32. 0	9. 5	·0977					
10. 10	22. 14. 10	9. 14	·0981					
10. 21	21. 44. 0	9. 24	·0955					
10. 46	22. 22. 0	9. 34	·0973					
11. 12	5. 0	9. 45	·0947					
	***	9. 46	·0960					
11. 33	7. 25	9. 47	·0947					
11. 40	4. 25	9. 54	·0965					
12. 1	12. 0	10. 0	·0932					
	***	10. 8	·1044					
12. 31	10. 0	10. 16	·0941					
12. 44	3. 30	10. 30	·1009					
13. 0	7. 15	10. 37	·0996					
13. 3	5. 0	10. 42	·1013					
13. 11	14. 15	11. 12	·0935					
13. 20	6. 25	11. 17	·0946					
	***		***					
14. 13	21. 5	12. 21	·0951					
	***		***					
15. 0	13. 30	12. 42	·0939					
15. 31	27. 20	12. 58	·0961					
15. 46	23. 0	13. 17	·0940					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 21		Feb. 21						
h m	° ′ ″	h m		h m		h m	°	°
18. 43	22. 27. 10	13. 35	·0943					
	***		***					
19. 55	21. 30	13. 54	·0982					
	***		***					
23. 28	23. 5	15. 26	·0983					
			***					
		15. 36	·0973					
			***					
		17. 11	·0995					
			***					
		18. 35	·0988					
			***					
		19. 52	·1000					
		20. 3	·1010					
		20. 8	·1003					
		20. 11	·1014					
		20. 15	·1004					
			***					
		21. 10	·0996					
			***					
		22. 0	·0981					
			***					
		23. 19	·0973					
		23. 30	·0964					
			***					
		23. 42	·0971					
			***					
		23. 59	·0982					
Feb. 22		Feb. 22		Feb. 22				
0. 0	22. 25. 5	0. 11	·0986	0. 0	·01372	7. 35	49 ·0	55 ·0
	***		***	2. 40	·01491	21. 40	43 ·0	48 ·0
2. 0	28. 55	1. 9	·0990	11. 0	·01026			
2. 27	22. 0		***	16. 30	·01400			
4. 11	26. 0	2. 13	·0969	23. 0	·01340			
	***		***					
4. 44	21. 5	2. 47	·1008					
	***		***					
9. 58	21. 0	4. 26	·0986					
10. 19	14. 55		***					
11. 7	20. 25	4. 39	·1004					
11. 20	19. 20		***					
13. 30	24. 5	5. 10	·0985					
19. 30	22. 0	5. 19	·1000					
21. 54	18. 0		***					
23. 51	24. 5	5. 29	·0987					
		5. 32	·0995					
			***					
		10. 7	·1000					
			***					
		10. 47	·1010					
		11. 17	·1000					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Feb. 22						
h m	° ′ ″	h m		h m		h m	°	°
		19. 13	·1011					
			***					
		22. 2	·1003					
		22. 50	·0995					
		23. 21	·0983					
		23. 59	·0987					
Feb. 23		Feb. 23		Feb. 23				
1. 0	22. 25 45	0. 13	·0986	1. 21	·01278	1. 40	46 ·5	52 ·0
1. 32	35. 30	1. 7	·0989	1. 33	·01286	3. 40	52 ·0	57 ·5
2. 29	26. 0	1. 29	·1000	1. 42	·01247	9. 45	49 ·0	54 ·8
	***	1. 34	·1023	3. 32	·01085	21. 40	43 ·0	48 ·5
3. 1	31. 55	1. 40	·1000	3. 45	·01079			
3. 7	29. 50	1. 41	·1008	4. 14	·00984			
3. 13	32. 0	1. 58	·0991		·01047			
3. 36	24. 25		***	5. 11	·00917			
4. 3	22. 5	2. 27	·0985		·00946			
4. 42	28. 5		***	5. 46	·00913			
5. 36	22. 30	3. 2	·1008	6. 30	·01000			
	***		***	10. 28:	·00873			
6. 30	3 45	3. 30	·0980	18. 1	·01370			
6. 40	7. 25		***	21. 51	·01299			
6. 46	6. 25	4. 3	·0999		·00911			
8. 0	23. 55	4. 40	·1004	23. 45	·00983			
11. 2	19. 20	5. 3:	·0991					
12. 45	23. 40	5. 30	·0997					
	***		***					
14. 0	20. 30	5. 59	·0985					
	***	6. 31	·1023					
16. 20	26. 40	6. 42	·1010					
18. 0	22. 50		***					
21. 4	19. 15	7. 57	·0994					
23. 52	24. 30	9. 1	·1000					
		9. 47	·1002					
		10. 45	·1005					
		11. 13	·1014					
		11. 45	·1000					
			***					
		12. 25	·1008					
		12. 37	·1020					
			***					
		14. 33	·1002					
			***					
		16. 44	·1004					
			***					
		19. 28	·1016					
			***					
		22. 9	·0997					
		23. 28	·0987					
		23. 57	·0992					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 24		Feb. 24		Feb. 24				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 24. 35	0. 8	·0991	1. 10	·00931	1. 40	48 ·0	52 ·5
1. 59	27. 15	0. 10	·0999	2. 29	·00821	3. 40	51 ·0	53 ·0
	***	0. 13	·0991	5. 33	·00862	9. 40	49 ·5	55 ·5
6. 0	20. 5	0. 16	·0998	7. 5	{ ·00913	21. 45	45 ·0	50 ·5
9. 22	20. 55	0. 22	·0992		{ ·01051			
20. 30	20. 0	1. 0	·0985	9. 2	·00929			
21. 26	17. 0	2. 1	·0993	12. 30:	·00990			
23. 57	20. 5	2. 47	·0988	17. 30	·01361			
			***	22. 0	·01320			
		9. 20	·1003	23. 30	·01346			
		19. 29	·1018					
		20. 33	·1016					
		23. 59	·0993					
Feb. 25		Feb. 25		Feb. 25				
1. 0	22. 23. 20	0. 1	·0993	1. 30	·01297	1. 40	48 ·0	52 ·3
7. 30	20. 0	1. 53	·0992	5. 20	·00866	3. 40	52 ·0	55 ·5
9. 28	21. 45	3. 22	·1000	6. 41	·00921	9. 40	50 ·0	55 ·8
10. 8	20. 5	6. 40	·1000	8. 24	{ ·00880	21. 40	45 ·0	50 ·5
18. 0	21. 10		***		{ ·00978			
	***	20. 8	·1024	15. 10	·01373			
19. 34	26. 0	20. 14	·1018	21. 50	·01286			
20. 17	21. 0	21. 15	·1023					
20. 46	22. 35	22. 31	·1000					
21. 17	20. 20		***					
	***	23. 14	·0994					
23. 36	26. 50	23. 32	·0999					
		23. 59	·0994					
Feb. 26		Feb. 26		Feb. 26				
1. 0	22. 24. 10	0. 2	·0995	0. 0	·01326	1. 40	48 ·0	53 ·3
	***	1. 27	·1001	1. 30	·01240	3. 40	51 ·0	56 ·5
2. 28	28. 20	1. 43	·0995	5. 3	·00876	9. 40	51 ·0	57 ·0
2. 44	26. 10	2. 30:	·1000	6. 51	·00973	21. 45	45 ·5	50 ·8
	***	2. 45	·0993	12. 0:	·00912			
3. 11	28. 10		***	18. 42	·01403			
	***	3. 9	·1000	22. 4	·01345			
3. 35	25. 20	3. 22	·0991					
	***	3. 45	·0996					
3. 50	26. 40	4. 2	·0988					
	***		***					
6. 0	22. 20	4. 35	·0989					
6. 49	19. 25	4. 40	·1003					
7. 56	25. 20	4. 45	·0985					
8. 16	23. 25		***					
8. 39	25. 20	6. 0	·1006					
9. 0	22. 10	6. 42	·0982					
11. 0	20. 35	7. 7	·0993					
11. 30	14. 35	8. 24	·1000					
12. 2	20. 40	8. 47	·0992					
14. 42	22. 0	9. 33	·1002					
15. 7	20. 5	10. 10	·0996					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 26		Feb. 26						
h m	° ′ ″	h m		h m		h m	°	°
21. 16	22. 21. 0	11. 32	·1002					
21. 33	18. 20	11. 37	·1005					
	***	12. 2	·0998					
23. 13	20. 15	18. 23	·1012					
23. 57	23. 30	23. 6	·1001					
		23. 13	·1004					
		23. 22	·1002					
		23. 37	·1005					
Feb. 27		Feb. 27		Feb. 27				
1. 30	22. 24. 30	1. 30	·1002	0. 10	·01372	1. 40	48 ·0	52 ·5
3. 20	23. 35		***	1. 30	·01340	3. 40	50 ·0	53 ·5
3. 28	22. 0	3. 10	·1007	6. 0	·00890	9. 40	51 ·5	56 ·5
3. 40	25. 50	3. 25	·0998	7. 48	·00970	21. 47	45 ·5	51 ·5
3. 52	24. 0	3. 42	·1014	9. 6	·00933			
	***	3. 50	·1006	9. 17	·00970			
5. 12	27. 10		***	10. 33	·00920			
6. 21	24. 0	4. 32	·1004	11. 46:	·01039			
6. 32	26. 5	4. 33	·1015	17. 30	·01345			
6. 57	23. 10	4. 40	·0999	23. 48	·01300			
7. 6	26. 20		***					
8. 1	20. 5	5. 10	·0998					
8. 30	22. 50	5. 14	·1020					
8. 41	20. 5		***					
9. 0	22. 23. 5	5. 41	·1022					
9. 15	21. 54. 45	6. 8	·0996					
	***		***					
10. 22	22. 18. 55	6. 52	·0987					
10. 30	16. 15	7. 16	·0995					
10. 58	19. 50		***					
11. 27	11. 0	7. 30	·1009					
	***	7. 36	·0996					
12. 10	11. 40	7. 42	·1012					
12. 30	17. 0		***					
13. 0	14. 10	8. 37	·0992					
	***	8. 47	·1000					
13. 45	15. 5		***					
	***	9. 10	·0956					
14. 37	20. 10		***					
	***	9. 30	·1006					
15. 13	15. 55		***					
	***	9. 44	·0984					
16. 15	24. 20	9. 45	·1006					
	***	9. 55	·0984					
17. 40	14. 30	10. 0	·1000					
18. 29	20. 45		***					
18. 48	18. 40	10. 28	·0972					
	***		***					
19. 10	26. 10	11. 26	·0987					
	***		***					
19. 26	20. 35	11. 37	·0986					
	***	11. 55	·1008					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 27		Feb. 27						
h m	° ′ ″	h m		h m		h m	°	°
19. 36	22. 20. 30	11. 59	·1006					
	***		***					
20. 42	21. 0	12. 9	·1002					
20. 51	24. 25		***					
	***	12. 54	·0976					
22. 43	21. 30	13. 22	·0985					
23. 0	27. 0	13. 42	·0981					
23. 13	23. 5	14. 1	·0993					
23. 27	25. 20		***					
	***	15. 3	·0979					
23. 46	24. 55	15. 21	·0992					
			***					
		17. 44	·0999					
			***					
		18. 33	·0987					
			***					
		19. 9:	·1007					
		19. 37	·1007					
		19. 56	·1007					
		20. 5	·1003					
		20. 36	·1000					
		20. 45	·1008					
			***					
		22. 44	·0989					
		22. 58	·1004					
		23. 12	·0987					
		23. 55	·0979					
Feb. 28		Feb. 28		Feb. 28				
1. 10	22. 27. 0	1. 3	·0996	1. 30	·01190	1. 40	49 ·0	53 ·5
2. 0	24. 10		***	4. 22	·00930	3. 40	53 ·0	57 ·0
	***	3. 5	·1000	7. 20	·00936	9. 40	50 ·5	57 ·0
3. 17	27. 50		***	11. 12:	·00907	23. 12	44 ·0	47 ·8
	***	3. 10	·1006	13. 24	·01030			
4. 5	20. 20		***	13. 50	·00976			
4. 30	20. 10	3. 55	·0978	15. 55	·01315			
5. 0	23. 30	4. 20	·1005	20. 0	·01347			
6. 57	21. 10		***	21. 0	{·01320			
7. 14	18. 5	4. 40	·1004		{·01192			
7. 28	20. 10		***	23. 12	·01280			
7. 40	17. 25	4. 55	·0990					
	***		***					
8. 16	19. 0	7. 30	·1002					
8. 33	15. 10		***					
9. 10	21. 15	7. 54	·1015					
10. 28	21. 25	8. 2	·1006					
11. 0	18. 30		***					
11. 21	26. 25	8. 27	·1007					
12. 37	18. 10		***					
13. 31	33. 0	8. 48	·1022					
14. 57	11. 0	9. 12	·1004					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 28		Feb. 28						
h m	° ′ ″	h m		h m		h m	°	°
16. 44	22. 23. 0	11. 8	·1018					
17. 19	18. 25	11. 23:	·1004					
18. 22	26. 10		***					
	***	11. 51	·1022					
22. 12	22. 0	12. 10	·1006					
	***		***					
22. 43	30. 0	12. 42	·1010					
	***	12. 56	·1000					
23. 1	24. 5	13. 27	·1020					
		13. 58	·0996					
			***					
		14. 34	·1014					
			***					
		17. 23	·1012					
			***					
		17. 58	·1000					
			***					
		18. 34	·1012					
			***					
		18. 42	·1005					
			***					
		20. 49	·1014					
			***					
		22. 8	·0978					
			***					
		22. 15	·0992					
			***					
		22. 27	·0977					
			***					
		22. 30	·0992					
			***					
		22. 32	·0982					
			***					
		22. 39	·0995					
			***					
		22. 45	·0976					
			***					
		23. 0	·1000					
Feb. 29		Feb. 29		Feb. 29				
0. 0	22. 25. 20	0. 24	·1012	0. 18	·01282	7. 13	45 ·3	51 ·6
0. 20	29. 5	0. 46	·1000	7. 27	·01270	21. 40	39 ·0	46 ·0
1. 0	25. 0		***	9. 15	·01129			
1. 28	28. 0	2. 38:	·1017	12. 30	·01120			
1. 54	24. 30		***	13. 35	·01079			
	***	3. 38	·1010	15. 27	·01250			
2. 35	27. 50	3. 56	·1022	17. 53	·01211			
	***		***	17. 59	·01160			
3. 42	24. 0	5. 13	·0992	18. 53	·01240			
3. 59	28. 0		***	21. 58	·01234			
	***	5. 36	·1006	22. 11	·01181			
5. 22	26. 35	5. 47	·0993	23. 47	·01158			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 29		Feb. 29						
h m	° ′ ″	h m		h m		h m	°	°
6. 2	22. 11. 45	6. 6	·1020					
6. 22	18. 0	6. 32	·0994 ***					
6. 37	15. 10							
7. 9	17. 25	6. 50	·1001 ***					
7. 16	11. 50							
7. 26	12. 0	7. 15	·0985					
7. 40	24. 0	7. 26	·1058 ***					
7. 54	17. 30							
8. 6	21. 50	7. 45	·1012 ***					
8. 20	17. 35							
8. 46	21. 20	7. 55	·1022 ***					
9. 2	19. 30							
9. 27	21. 35	8. 12	·1005					
10. 13	19. 25	8. 35	·1012					
10. 25	21. 0	8. 52	·1007					
10. 40	19. 10 ***	9. 8	·1014					
		9. 50	·1005					
12. 34	23. 10	10. 10	·1013 ***					
13. 8	31. 15							
13. 37	21. 0	11. 30	·1007					
14. 16	15. 35	11. 58	·1013					
15. 47	24. 45	12. 30	·1002 ***					
15. 59	23. 30							
16. 30	28. 10	13. 8	·1018 ***					
18. 22	21. 10							
19. 3	24. 15	13. 35	·1015					
21. 2	21. 0	14. 2	·0996					
22. 57	25. 0	14. 35:	·1010					
23. 6	28. 25	15. 40	·1015					
23. 13	26. 50 ***	16. 25	·1006 ***					
23. 56	29. 0	17. 46	·1028 ***					
		18. 32	·1016 ***					
		20. 45	·1018 ***					
		22. 23:	·1000 ***					
		23. 30	·1005					
		23. 59	·1000 ***					
Mar. 1		Mar. 1		Mar. 1				
1. 30	22. 28. 20 ***	0. 33	·0994 ***	1. 30	·01029	1. 40	45 ·0	50 ·5
				2. 46	·00802	3. 40	48 ·0	53 ·5
2. 34	28. 50	1. 18	·1012 ***	6. 0	·00815	9. 40	49 ·5	56 ·0
3. 1	24. 0			7. 30	·00889	21. 40	48 ·0	52 ·0
6. 17	21. 0	2. 30	·1002 ***	11. 45:	·00820			
7. 2	8. 45			18. 0	·01010			
8. 26	22. 35	3. 25:	·1018 ***	23. 44	{ ·01362			
9. 2	15. 35				{ ·01319			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 1		Mar. 1						
h m	° ′ ″	h m		h m		h m	°	°
9. 14	22. 16. 40	6. 40	·1000					
9. 23	12. 15	7. 4	·1016 ***					
9. 32	11. 35							
10. 40	22. 10	9. 0	·1001					
12. 12	24. 0 ***	9. 10	·1007					
		9. 20	·1004					
15. 33	18. 0	9. 32	·1018 ***					
15. 59	14. 55							
16. 30	18. 10 ***	11. 10	·1000					
		11. 28	·1000 ***					
17. 10	16. 25 ***							
		13. 52	·1012					
22. 2	21. 25	14. 30:	·1003 ***					
23. 50	28. 0							
		15. 26:	·1018 ***					
		17. 30	·1008					
		18. 35	·1016 ***					
		19. 15:	·1008 ***					
		20. 45	·1014 ***					
		22. 0:	·1000 ***					
		23. 0	·1000					
		23. 59	·0991					
Mar. 2		Mar. 2		Mar. 2				
1. 30	22. 28. 0	0. 30	·0986	0. 30	·01342	1. 40	49 ·5	54 ·4
6. 30	20. 30	1. 0	·0994	2. 0	·01270	3. 40	53 ·0	58 ·8
6. 47	18. 30	1. 40	·0997	5. 9	·00883	9. 22	52 ·0	57 ·0
9. 0	23. 55	2. 0:	·0991	6. 45	·00910	21. 40	41 ·8	47 ·0
15. 0	23. 20	2. 30	·1000	6. 53:	·00985			
16. 30	20. 45	6. 40	·1000	14. 12	·01392			
20. 0	23. 35	9. 10	·1010	18. 30	·01278			
21. 6	19. 0	9. 22	·1002	23. 34	·01215			
23. 40	22. 25	12. 0	·1002					
		17. 4	·1018					
		23. 40	·1005					
Mar. 3		Mar. 3		Mar. 3				
0. 52	22. 26. 0	0. 30	·1002	1. 0	·01185	1. 40	45 ·0	48 ·8
3. 15	24. 5	3. 23	·1008	3. 15	·00884	3. 40	51 ·0	54 ·0
	(†)		(†)		(†)	9. 40	50 ·5	55 ·5
6. 30	21. 0	9. 28	·1004	9. 30:	·00788	21. 40	41 ·0	46 ·0
7. 12	20. 5	10. 12	·1010	15. 48	·01320			
8. 32	21. 0	10. 30	·1006 ***	22. 0	·01220			
8. 52	23. 50							
9. 40	21. 45	16. 0	·1012					
12. 0	24. 35	20. 30	·1025					
15. 30	21. 0	22. 30	·1004					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 3		Mar. 3						
h m	° ′ ″	h m		h m		h m	°	°
16. 6	22. 23. 15	23. 50	·1004					
17. 26	20. 25							
19. 44	22. 30							
20. 57	18. 0							
21. 18	20. 20							
23. 47	24. 10							
Mar. 4		Mar. 4		Mar. 4				
1. 0	22. 25. 30	0. 30	·1005	0. 30	·01160	1. 40	47 ·0	51 ·8
1. 44	28. 0		***	1. 30	·01055	3. 40	51 ·0	55 ·0
3. 0	24. 5	2. 56	·1000	2. 48	·00808	9. 40	52 ·0	56 ·4
4. 40	21. 25	3. 15	·1007	4. 15	·00891	21. 40	39 ·0	44 ·5
6. 7	20. 25		***	6. 2	·00859			
8. 1	24. 35	5. 10	·1002	7. 20	·00910			
8. 24	15. 20		***	9. 35:	·00847			
8. 58	15. 10	6. 19	·1012	14. 41	·01330			
10. 29	22. 30		***	22. 0	·01140			
10. 50	18. 0	7. 15	·1002	23. 50	·01190			
12. 35	29. 10	7. 54	·1007					
13. 17	19. 0	8. 15	·1000					
14. 8	23. 45	8. 35:	·1014					
14. 42	21. 0		***					
15. 38	24. 40	9. 0	·1012					
16. 8	21. 10	9. 28	·0998					
20. 0	22. 5	10. 10	·0998					
21. 21	17. 0	10. 24	·1005					
23. 47	24. 10	10. 38	·0997					
		11. 0:	·1006					
		11. 25	·0999					
		12. 23	·1001					
		12. 35:	·1018					
		12. 58	·1009					
			***					
		15. 17	·1014					
		15. 40	·1024					
			***					
		20. 40	·1020					
			***					
		23. 15	·1003					
		23. 59	·1005					
Mar. 5		Mar. 5		Mar. 5				
1. 15	22. 27. 0	0. 0	·1005	1. 30	·01126	1. 40	44 ·2	48 ·3
1. 38	25. 55	1. 9	·1007	3. 23	·00788	3. 40	48 ·6	53 ·0
	***	2. 18	·1014	7. 15	·00885	9. 40	51 ·0	56 ·0
4. 30	26. 25		***	9. 47:	·00840	21. 40	40 ·0	45 ·3
5. 46	22. 30	3. 41	·1010	15. 40	·01280			
6. 30	26. 10	4. 0	·1018	22. 0	·01140			
8. 28	22. 10		***	23. 45	·01180			
8. 50	28. 5	4. 55	·1009					
9. 40	21. 30		***					
9. 59	24. 30	7. 42	·1005					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 5		Mar. 5						
h m	° ′ ″	h m		h m		h m	°	°
10. 27	22. 20. 0	8. 40	·1015					
10. 36	21. 30	9. 0	·0998					
10. 54	19. 0		***					
	***	9. 55	·1009					
11. 42	24. 5	10. 18	·0993					
	***	10. 27	·0999					
13. 17	20. 35	10. 39	·0990					
	***	11. 0	·1005					
14. 3	24. 0	11. 17:	·1001					
	***		***					
15. 24	18. 55	15. 0	·1028					
	***	15. 35:	·1023					
16. 53	22. 0	17. 0	·1034					
	***		***					
17. 9	18. 20	17. 25	·1028					
	***	18. 30	·1036					
17. 45	21. 30	19. 45:	·1020					
	***	20. 30	·1022					
18. 23	18. 10		***					
	***	21. 55	·1007					
19. 21	22. 20		***					
	***	22. 41	·1006					
21. 42	18. 0		***					
23. 52	27. 0	23. 40	·0993					
Mar. 6		Mar. 6		Mar. 6				
1. 30	22. 27. 10	0. 30	·1000	0. 30	·01165	1. 40	45 ·5	51 ·0
	***	1. 10	·1006	2. 0	·01001	3. 40	48 ·0	54 ·0
3. 0	32. 15	1. 32	·1002	3. 7	·00795	9. 40	51 ·0	55 ·5
4. 48	26. 30	2. 56	·1015	4. 32	{·00870	22. 40	41 ·0	47 ·0
5. 1	28. 35	3. 7	·1006		{·01005			
5. 27	20. 0	3. 40:	·1024	5. 20	·00928			
5. 50	15. 35		***	7. 5	·00980			
	***	4. 42	·1004	8. 51	·00901			
6. 38	24. 0	4. 58	·1009	9. 9:	·00960			
	***		***	14. 30	·01301			
7. 0	17. 25	5. 24	·0992	18. 30	·01210			
	***	5. 30	·0998	20. 10	·01235			
7. 37	16. 10	5. 45	·0995	22. 43	·01177			
	***	6. 0	·1008					
9. 8	19. 50		***					
9. 33	5. 25	6. 47	·0992					
	***		***					
9. 58	15. 0	8. 0	·1003					
	***	8. 10	·0988					
10. 15	12. 0		***					
	***	9. 30	·1008					
12. 0	23. 0	9. 40	·1036					
	***		***					
14. 9	21. 30	10. 28	·0995					
	***		***					
14. 33	28. 10	11. 10	·1007					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 6		Mar. 6						
h m	° ′ ″	h m		h m		h m	°	°
15. 7	22. 21. 0	13. 48	·1018					
	***	14. 18	·1014					
16. 11	16. 5	14. 38:	·1026					
	***	17. 4	·1008					
17. 30	23. 50	19. 0:	·1027					
	***	19. 52:	·1018					
18. 40	20. 0	20. 25:	·1022					
	***	22. 50	·1004					
19. 13	21. 20	23. 28	·0992					
	***							
20. 3	20. 5							
	***							
20. 57	21. 30							
	***							
21. 32	18. 0							
	***							
22. 51	24. 0							
Mar. 7		Mar. 7		Mar. 7				
0. 0	22. 28. 20	0. 0	·1000	1. 0	·01205	7. 45	50 ·0	58 ·0
0. 30	31. 10	0. 14	·1004	3. 50	·00807	21. 40	45 ·0	50 ·7
1. 19	28. 30	1. 16	·0990	7. 15	·00980			
2. 40	31. 0	2. 17	·1012	10. 30:	·00798			
4. 29	27. 0	4. 43	·1009	16. 38	·01310			
4. 43	22. 25		***	18. 15	·01267			
4. 59	15. 30	4. 51	·1012	22. 30	·01354			
	***	5. 0	·1025					
6. 11	22. 30		***					
	***	6. 58	·1000					
7. 19	10. 0	7. 14	·0982					
	***	7. 32	·0999					
8. 0	15. 0	7. 47	·0992					
8. 29	9. 50	8. 24	·0995					
8. 52	21. 0	8. 43:	·1016					
9. 16	1. 5	9. 9:	·0974					
10. 0	16. 0	9. 28:	·1016					
	***		***					
11. 8	17. 20	9. 49	·0999					
	***		***					
11. 30	10. 25	11. 24	·1000					
	***	11. 39:	·1012					
13. 50	9. 0	13. 7	·0995					
	***	14. 30	·1014					
14. 40	12. 45	16. 17	·1014					
	***	16. 57:	·1033					
15. 12	5. 0		***					
	***	18. 28	·1017					
16. 2	6. 5	19. 35	·1018					
16. 50	13. 35	21. 13	·0988					
17. 16	10. 55	22. 16	·0996					
	***	23. 20	·0983					
18. 30	20. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7								
h m	° ′ ″	h m		h m		h m	°	°
19. 40	22. 25. 20							
	***							
20. 45	22. 35							
	***							
22. 0	27. 20							
22. 45	25. 15							
23. 48	30. 0							
Mar. 8		Mar. 8		Mar. 8				
0. 30	22. 30. 0	0. 57	·0993	1. 0	·01300	1. 40	49 ·0	53 ·4
0. 59	27. 25	1. 28:	·1006	4. 18	·00920	3. 40	52 ·0	56 ·3
2. 0	30. 30	2. 13	·0993	7. 37	·00922	9. 40	54 ·0	57 ·8
2. 13	28. 0	3. 8	·1005	7. 44:	·00980	21. 40	47 ·0	53 ·0
5. 0	20. 40	3. 22	·0995	17. 0	·01420			
7. 0:	19. 20		***	18. 40	·01360			
	***	11. 24	·1017	20. 0	·01393			
16. 18	21. 55	16. 43	·1016	22. 20	·01340			
	***	17. 20:	·1037	23. 30	·01395			
16. 56	29. 35	18. 7	·1023					
	***	18. 30	·1025					
17. 45	18. 0	18. 43	·1016					
	***	21. 21	·1009					
18. 22	21. 5	22. 47	·0994					
18. 40	20. 30	23. 55	·0995					
19. 13	22. 30							
	***							
21. 57	16. 20							
	***							
23. 50	23. 0							
Mar. 9		Mar. 9		Mar. 9				
0. 40	22. 26. 15	1. 30	·1000	1. 30	·01304	1. 40	50 ·8	55 ·4
1. 34	30. 0		***	4. 15	·00946	3. 40	54 ·0	58 ·4
	***	4. 0	·1018	5. 57	·00944	9. 40	57 ·0	62 ·0
3. 0	28. 35		***	7. 30	·01050	21. 46	47 ·8	53 ·5
	***	4. 30	·1005	7. 47	·01025			
4. 6	30. 35		***	7. 55	·01130			
	***	5. 5	·1011	10. 0:	·01045			
6. 33	22. 0		***	15. 8	·01439			
	***	5. 28	·1004	18. 0	·01408			
7. 0	23. 55		***	20. 0	·01445			
7. 32	18. 20	5. 40:	·1008	23. 30	·01380			
7. 45	21. 0	5. 55	·1000					
8. 3	11. 0	6. 24	·1021					
	***		***					
8. 47	18. 5	7. 15	·1000					
9. 36	10. 35		***					
	***	7. 34	·1008					
11. 10	18. 5	7. 53	·0983					
	***	8. 8	·1014					
11. 33	16. 10		***					
	***	8. 46	·1002					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 9		Mar. 9						
h m	° ′ ″	h m		h m		h m	°	°
12. 57	22. 22. 40 ***	9. 35	·1019 ***					
14. 12	10. 35 ***	10. 11	·1001 ***					
16. 0	21. 5 ***	11. 5	·1012 ***					
16. 45	20. 15 ***	11. 40	·1001 ***					
17. 36	23. 5 ***	12. 32	·1008					
		12. 46	·1040 ***					
19. 37	20. 25							
20. 2	17. 25 ***	14. 35	·0998					
		16. 0	·1018					
21. 3	21. 0 ***	16. 16	·1010 ***					
22. 17	18. 30 ***	20. 8	·1014 ***					
23. 40	27. 50 ***	23. 46	·1006 ***					
23. 57	27. 0 ***							
Mar. 10		Mar. 10		Mar. 10				
0. 30	22. 25. 30	0. 28	·0974 ***	1. 0	·01370	1. 40	49 ·8	54 ·5
1. 14	30. 5 ***			4. 30:	·01280	3. 40	51 ·8	56 ·4
		2. 34	·0999 ***	10. 0:	·00829	9. 40	53 ·0	58 ·0
1. 44	26. 0 ***			17. 20	·01380	21. 40	47 ·3	52 ·8
		5. 27	·1005 ***	19. 22	·01400			
2. 40	29. 0 ***				·01311			
		5. 50	·0996	22. 15	·01317			
5. 29	22. 5	6. 12	·1010 ***					
6. 8	12. 5							
7. 28	20. 5	7. 50	·1011					
7. 56	15. 20	8. 4	·1024					
8. 15	20. 20	8. 35:	·1007					
8. 57	10. 45	9. 4	·1018 ***					
10. 0	19. 0 ***							
		10. 0	·1009 ***					
11. 0	17. 50 ***							
		12. 40	·1013					
11. 20	20. 5 ***	13. 13	·1020					
		13. 32	·1037					
12. 0	16. 30 ***	14. 28	·1014					
		17. 30	·1022 ***					
12. 45	18. 5 ***							
		20. 4	·1023 ***					
13. 28	13. 0 ***							
		22. 35	·1001 ***					
13. 39	14. 10 ***							
		23. 59	·1001 ***					
13. 57	12. 25 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 10								
h m	° ′ ″	h m		h m		h m	°	°
15. 0	22. 20. 20 ***							
19. 0	20. 35 ***							
21. 44	17. 15 ***							
23. 50	23. 0							
Mar. 11		Mar. 11		Mar. 11				
1. 8	22. 27. 35	3. 42	·1004	0. 10	·01345	1. 40	49 ·2	53 ·4
3. 10	29. 35	6. 37	·1020	1. 30:	·01322	3. 40	51 ·0	55 ·0
6. 41	22. 15 ***	7. 2	·1015 ***	10. 0:	·00768	9. 40	51 ·0	56 ·0
				17. 0	·01149	21. 40	47 ·0	52 ·8
16. 0	22. 5 ***	12. 45	·1030	20. 0	·01380			
		13. 0	·1024 ***	21. 15	·01332			
16. 32	25. 30 ***				·01242			
		16. 24	·1026	23. 30	·01315			
16. 59	23. 30 ***	16. 36	·1034 ***	23. 59	·01298			
17. 30	25. 35	20. 55	·1030 ***					
17. 52	22. 35							
18. 10	24. 35 ***	22. 28	·1018					
		22. 34	·1020					
19. 0	20. 5 ***	22. 39	·1014					
		22. 41	·1018					
21. 10	17. 5 ***	22. 50	·1006 ***					
23. 58	30. 0	23. 59	·1000					
Mar. 12		Mar. 12		Mar. 12				
0. 47	22. 29. 5	0. 24:	·0971	1. 30	·01172 ***	1. 40	55 ·4	57 ·3
0. 50	34. 5	0. 50	·1002			3. 40	54 ·0	58 ·8
1. 10	30. 5	1. 16:	·0981	4. 15	·00897	9. 40	54 ·0	58 ·2
1. 33	35. 5	1. 36	·1002	7. 30	·00957	21. 40	46 ·0	50 ·5
2. 11	30. 25	2. 8	·0981	10. 0:	·00870			
2. 23	33. 0 ***	2. 30	·0993 ***	16. 2	·01388 ***			
2. 57	29. 30 ***	2. 56	·0988 ***	22. 0	·01330			
				23. 30	·01365			
3. 33	36. 25	3. 17	·1012 ***					
4. 31	22. 20							
5. 40	25. 10 ***	3. 32	·1011 ***					
7. 10	15. 30 ***	4. 0	·0964 ***					
9. 18	22. 5 ***	5. 33	·1005					
		6. 15	·0983					
10. 50	25. 0 ***	6. 26	·0992					
		6. 34	·0988					
12. 38	22. 30 ***	6. 41	·0994					
		6. 48:	·0988 ***					
13. 0	25. 30 ***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12						
h m	° ′ ″	h m		h m		h m	°	°
14. 0	22. 22. 0	8. 10	·1008					
	***	8. 26	·1005					
15. 26	25. 5		***					
	***	10. 30	·1014					
17. 15	17. 30	10. 45	·1024					
	***		***					
18. 58	25. 0	12. 45	·1014					
	***	13. 15:	·1022					
19. 37	21. 0	13. 53	·1013					
	***		***					
19. 56	26. 35	15. 52	·1020					
	***	17. 10	·1016					
20. 14	20. 5	17. 24	·1022					
	***		***					
20. 43	17. 30	18. 30	·1006					
	***		***					
23. 14	30. 0	19. 42	·1025					
	***		***					
23. 55	26. 0	21. 45	·1000					
	***		***					
		22. 43	·0960					
			***					
		23. 32	·0974					
			***					
		23. 59	·0972					
			***					
Mar. 13		Mar. 13		Mar. 13				
0. 33	22. 27. 0	1. 15	·1006	1. 30	·01282	1. 40	50 ·0	54 ·5
	***		***	5. 10	·00880	3. 40	54 ·0	58 ·0
2. 33	29. 55	3. 38	·1006	7. 15	·00925	9. 40	53 ·0	58 ·0
	***	3. 56	·0998	10. 0:	·00845	23. 11	44 ·0	49 ·0
3. 44	28. 0	4. 15	·0998	14. 55	·01333			
4. 20	21. 0		***	18. 15	·01246			
	***	5. 18	·1020	21. 40	{ ·01275			
5. 20	18. 25	5. 48	·0990		{ ·01185			
	***		***	23. 28	·01210			
5. 36	21. 0	6. 30	·1013					
6. 15	14. 0		***					
	***	7. 5	·1008					
7. 30	20. 45	7. 28	·1016					
	***		***					
8. 41	18. 50	9. 3	·1014					
	***		***					
10. 34	19. 50	9. 56	·1024					
	***		***					
11. 3	25. 15	10. 40	·1020					
	***	10. 57	·1040					
11. 35	19. 0	11. 18	·1025					
	***		***					
11. 54	26. 10	11. 51	·1046					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13		Mar. 13						
h m	° ′ ″	h m		h m		h m	°	°
12. 10	22. 18. 0	12. 0	·1038					
	***	12. 15	·1050					
12. 50	21. 5	12. 58	·1003					
13. 13	17. 50	13. 8	·1010					
13. 24	20. 0		***					
	***	15. 52	·1020					
13. 52	17. 35	15. 56	·1024					
	***		***					
14. 13	21. 0	18. 4	·1022					
	***		***					
15. 30	23. 55	19. 35	·1036					
	***		***					
17. 30	28. 20	21. 15	·1015					
	***		***					
18. 34	29. 20	23. 28	·1012					
	***		***					
20. 58	18. 10	23. 59	·1010					
	***		***					
22. 30	18. 30							
23. 25	23. 0							
Mar. 14		Mar. 14		Mar. 14				
0. 0	22. 23. 25	2. 1	·1007	0. 30	·01212	9. 40	48 ·0	53 ·0
	***		***	10. 30:	·00714	21. 40	44 ·0	49 ·8
1. 46	27. 30	4. 5	·1026	20. 44	·01280			
	***	4. 29	·1012	21. 16	·01255			
4. 0	25. 35	4. 54	·1014	21. 19	·01195			
5. 18	19. 30		***	23. 15	·01220			
	***	5. 35	·1025					
7. 45	20. 0		***					
	***	8. 38	·1028					
8. 42	16. 5	11. 22	·1033					
9. 30	20. 10	11. 40	·1037					
12. 48	20. 5		***					
13. 12	23. 0	11. 53	·1029					
13. 31	20. 15	13. 32	·1042					
14. 8	29. 20	13. 48	·1030					
14. 45	23. 25		***					
15. 39	26. 0	14. 24	·1038					
16. 2	24. 0		***					
17. 23	20. 55	16. 4	·1028					
	***		***					
18. 45	26. 5	16. 10	·1032					
	***		***					
19. 51	20. 45	16. 42	·1036					
	***		***					
21. 0	18. 30	16. 53	·1027					
	***		***					
21. 31	15. 0	18. 0	·1034					
23. 54	25. 0	18. 32	·1021					
			***					
		19. 13	·1020					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 14 h m		h m		h m	°	°
		19. 33	·1026					
			***					
		23. 5	·1022					
			***					
		22. 22	·1013					
		22. 47	·1016					
			***					
		23. 58	·0994					
Mar. 15		Mar. 15		Mar. 15				
0. 28	22. 27. 30	1. 5	·1000	1. 0	·01132	1. 40	49 ·3	53 ·4
5. 8	21. 55		***	3. 45	·00790	3. 40	51 ·0	55 ·0
7. 0	18. 10	3. 10	·1012	6. 25	·00820	9. 40	52 ·5	57 ·0
7. 38	19. 20		***	7. 32	·00878	21. 40	49 ·5	54 ·0
8. 2	11. 5	5. 12	·1022	11. 10:	·00745			
8. 28	15. 10	5. 28	·1031	22. 45	·01315			
8. 43	12. 30		***	23. 48	·01280			
9. 3	15. 0	6. 5	·1014					
9. 58	10. 50		***					
10. 42	22. 0	6. 20	·1019					
11. 15	8. 10		***					
11. 33	15. 0	6. 52	·1009					
	***	7. 42	·1022					
16. 30	23. 10	7. 50	·1011					
	***	8. 3	·1020					
18. 21	19. 30	9. 15	·1017					
	***		***					
19. 30	18. 25	9. 29	·1021					
	***	10. 10	·1008					
21. 54	13. 55		***					
23. 59	25. 40	10. 35	·1023					
		11. 2	·1014					
		11. 14	·1042					
		11. 59:	·1008					
		12. 17	·1019					
			***					
		18. 52	·1026					
			***					
		20. 42	·1018					
			***					
		22. 52	·1000					
		23. 0	·1007					
			***					
		28. 40	·0995					
		28. 50	·1004					
Mar. 16		Mar. 16		Mar. 16				
0. 36	22. 29. 10	0. 2	·0996	1. 0	·01204	1. 40	53 ·0	55 ·8
0. 57	27. 35		***	4. 53	·00880	3. 40	54 ·0	59 ·0
	***	1. 48	·1021	7. 30	·00944	9. 40	55 ·0	59 ·0
1. 50	31. 0		***	10. 0:	·00880	21. 40	48 ·7	54 ·0
	***	2. 44	·1011	17. 57	·01448			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 16		Mar. 16		Mar. 16				
h m	° ′ ″	h m		h m		h m	°	°
7. 0	22. 18. 5	3. 17	·1022	19. 4	·01445			
	***		***	20. 8	·01376			
9. 14	22. 0			23. 45	·01425			
	***	3. 46	·1017					
15. 7	23. 50		***					
	***	5. 12	·1020					
16. 33	21. 5	5. 22	·1014					
	***		***					
18. 9	25. 0	6. 7	·1005					
	***		***					
19. 20	22. 0	7. 3	·1016					
	***		***					
22. 11	20. 0	11. 59	·1024					
23. 11	26. 20		***					
23. 58	26. 0	13. 4	·1021					
			***					
		15. 0	·1033					
			***					
		16. 50	·1027					
			***					
		18. 20	·1027					
			***					
		19. 5	·1030					
			***					
		20. 13	·1021					
		20. 33	·1011					
		21. 16	·1009					
		21. 47	·0995					
			***					
		22. 28	·1000					
			***					
		23. 52	·0987					
Mar. 17		Mar. 17		Mar. 17				
0. 30	22. 28. 15	0. 42	·0994	2. 1	·01370	1. 40	51 ·5	56 ·0
	***		***	6. 15	·00916	3. 40	55 ·0	58 ·0
1. 36	32. 0	1. 40	·1009	7. 30	·00960	9. 40	54 ·0	58 ·0
	***		***	10. 0	·00876	21. 40	48 ·0	53 ·0
1. 58	27. 0	1. 56	·0992	15. 16	·01370			
	***	2. 13	·1005	16. 8	·01320			
2. 38	31. 30	2. 22	·1000	16. 40	·01340			
	***	2. 32	·1009	18. 0	·01310			
4. 22	26. 40	3. 1	·1009	23. 48	·01370			
	***		***					
4. 45	17. 40	3. 28	·0992					
5. 13	19. 50		***					
5. 40	15. 0	4. 21	·1009					
6. 30	19. 25	4. 40	·1000					
	***	4. 56	·1017					
8. 28	18. 0	5. 39	·1013					
8. 52	13. 55	6. 3	·1021					
9. 18	19. 30		***					
9. 31	16. 55	8. 15	·1015					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 17		Mar. 17						
h m	° ′ ″	h m		h m		h m	°	°
12. 11	22. 22. 10	8. 30	·1025					
12. 27	24. 55	8. 48	·1019					
12. 37	21. 35	9. 5	·1030					
12. 51	27. 0	10. 2	·1034					
13. 20	20. 0	10. 30	·1026					
13. 41	23. 45 ***	11. 0	·1028					
		11. 17:	·1023					
14. 33	16. 0 ***	11. 31	·1027 ***					
15. 48	18. 30	12. 40	·1031					
16. 4	15. 45	13. 0	·1045					
16. 49	25. 25	13. 28	·1026					
17. 2	23. 35	14. 20	·1023					
17. 29	27. 5 ***	14. 53	·1037					
		15. 40	·1044					
18. 43	20. 20 ***	15. 47	·1039					
		15. 55	·1041					
19. 41	25. 55 ***	16. 44	·1023					
		16. 38	·1033 ***					
21. 12	18. 20							
21. 27	21. 0 ***	17. 14	·1033					
		17. 28	·1024 ***					
21. 49	19. 30 ***							
		18. 8	·1037					
23. 58	26. 40 ***	18. 29	·1033					
		18. 52	·1040 ***					
		19. 32	·1027					
		20. 48	·1018					
		21. 22	·1021 ***					
		22. 26	·1016 ***					
		22. 39	·1008 ***					
		23. 58	·1018					
Mar. 18		Mar. 18		Mar. 18				
0. 54	22. 29. 20 ***	0. 22	·1007 ***	1. 32	·01320	1. 40	50 ·8	55 ·0
				6. 46	·00825	3. 40	53 ·0	56 ·0
6. 30	18. 0 ***	1. 58	·1000 ***	7. 29	·00855	9. 40	52 ·0	57 ·0
				9. 19:	·00804	21. 40	45 ·4	52 ·0
11. 14	23. 30 ***	2. 45	·1022 ***	16. 21	·01345			
				20. 11	·01340			
14. 24	21. 40 ***	14. 59	·1037	20. 15	·01285			
		15. 33	·1027 ***	23. 45	·01312			
14. 46	30. 25 ***							
		18. 26	·1039					
15. 37	22. 30 ***	19. 0	·1031 ***					
18. 30	20. 45 ***	20. 55	·1033					
		21. 48	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 18		Mar. 18						
h m	° ′ ″	h m		h m		h m	°	°
19. 33	22. 22. 20 ***	21. 58	·1014					
		22. 29	·1017					
20. 58	17. 5 ***	22. 48	·1008 ***					
23. 57	27. 30	23. 59	·1012					
Mar. 19		Mar. 19		Mar. 19				
0. 30	22. 29. 0	0. 57	·1011 ***	1. 0	·01280	1. 40	49 ·0	54 ·5
1. 14	25. 30			4. 28	·00850	3. 40	54 ·0	58 ·4
1. 30	27. 25	1. 33	·1030 ***	10. 0:	·00820	9. 40	53 ·8	57 ·5
1. 54	25. 30			16. 25	·01352	21. 40	45 ·0	50 ·5
2. 23	28. 30 ***	2. 21	·1034 ***	22. 28	·01301			
				22. 38	·01265			
5. 30	13. 25	3. 4	·1026 ***					
7. 0	19. 10 ***							
		3. 33	·1036 ***					
10. 27	20. 0 ***							
		4. 6	·1020 ***					
11. 54	25. 25							
12. 12	22. 0 ***	5. 15	·1037					
		5. 24	·1029					
12. 40	24. 55 ***	6. 0	·1036					
		6. 17	·1025 ***					
13. 33	21. 0							
13. 59	28. 0 ***	10. 32	·1038 ***					
14. 30	23. 10 ***	11. 40	·1031					
		11. 46	·1042					
16. 47	21. 10 ***	12. 20	·1032 ***					
18. 30	26. 45 ***	13. 3	·1045					
		13. 40	·1033 ***					
21. 6	15. 25 ***							
		14. 29	·1042 ***					
23. 57	24. 25 ***							
		15. 28	·1039 ***					
		16. 47	·1038					
		17. 38	·1028					
		18. 52	·1035 ***					
		20. 24	·1037 ***					
		22. 12	·1016 ***					
		23. 59	·1013 ***					
Mar. 20		Mar. 20		Mar. 20				
0. 0	22. 24. 10 ***	0. 17	·1019 ***	1. 30	·01061	1. 40	51 ·0	55 ·0
				2. 31	·00865	3. 40	55 ·0	59 ·8
1. 10	27. 5	2. 45	·1014 ***	4. 12	·01079	9. 40	59 ·0	63 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 20		Mar. 20		Mar. 20				
h m	° ′ ″	h m		h m		h m	°	°
1. 30	22. 30. 0	3. 19	·1018	4. 45	·01037	23. 7	47 ·0	52 ·0
	***		***	6. 3	·01105			
2. 45	27. 0	3. 42	·1000	8. 46	·00980			
	***		***	10. 3	·01034			
3. 32	29. 20	4. 10	·1040	10. 44	·01032			
	***		***	11. 15:	·00983			
4. 6	19. 0	4. 40	·1013	14. 46	·01445			
	***		***	19. 0	·01390			
5. 30	21. 30	5. 8	·1020	20. 40	·01312			
	***		***	23. 15	·01360			
5. 58	18. 10	5. 38	·1011					
6. 16	7. 15		***					
7. 10	19. 5	5. 48	·1019					
	***		***					
9. 16	15. 0	6. 15	·1034					
	***	6. 41	·1012					
9. 32	9. 5		***					
	***	8. 40	·1017					
9. 45	13. 0		***					
	***	9. 30	·0999					
10. 0	10. 30	9. 45	·1012					
	***	9. 49	·1009					
10. 35	14. 0	10. 6	·1022					
	***	10. 35	·1001					
10. 59	30. 0	10. 48	·1026					
	***	11. 5	·0987					
11. 20	9. 0		***					
	***	11. 15	·0990					
11. 38	17. 20	11. 32	·1039					
	***	11. 46	·1014					
11. 59	11. 40		***					
	***	12. 10	·1018					
14. 21	21. 55	12. 24	·1012					
15. 0	26. 35		***					
	***	13. 15	·1022					
16. 30	22. 5		***					
	***	15. 0	·1018					
19. 39	22. 55		***					
	***	16. 16	·1031					
21. 10	13. 55		***					
	***	20. 10	·1026					
23. 22	23. 0		***					
		21. 56	·1020					
			***					
		22. 38	·1012					
		23. 18	·1017					
		23. 34	·1010					
			***					
Mar. 21		Mar. 21		Mar. 21				
0. 0	22. 22. 50	0. 2	·0999	0. 0	·01353	9. 40	58 ·0	63 ·0
0. 58	27. 55	0. 56	·1017	1. 30	·01260	21. 40	50 ·0	55 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 21		Mar. 21		Mar. 21				
h m	° ′ ″	h m		h m		h m	°	°
1. 12	22. 25. 0	1. 8	·1012	3. 40	·00890			
	***	3. 5	·1019	7. 27	·01041			
3. 23	26. 10	5. 11	·1025	9. 22	·00960			
	***	5. 30:	·1018	9. 45:	·01000			
7. 30	17. 25	5. 56	·1015	16. 3	·01469			
	***	6. 26	·1017	21. 0	·01400			
8. 48	6. 40	6. 33	·1028	23. 15	·01448			
9. 4	22. 10. 25		***					
9. 28	21. 59. 20	7. 30	·1028					
10. 8	22. 13. 0		***					
	***	8. 0	·1010					
12. 8	24. 35	8. 45:	·1010					
	***		***					
13. 18	17. 15	9. 42:	·1036					
	***	10. 20	·1006					
14. 0	20. 40		***					
	***	11. 24	·1014					
17. 12	21. 20	11. 48	·1036					
	***	12. 6	·1034					
17. 42	25. 0	12. 18	·1026					
	***	12. 24	·1022					
21. 0	12. 0		***					
	***	15. 10	·1022					
23. 57	20. 35	15. 27	·1029					
	***	15. 50	·1017					
			***					
		17. 55	·1019					
			***					
		19. 28	·1035					
			***					
		20. 45	·1019					
			***					
		21. 21	·1025					
			***					
		23. 59	·1006					
			***					
Mar. 22		Mar. 22		Mar. 22				
0. 30	22. 25. 20	1. 21	·1009	1. 0	·01345	1. 40	56 ·0	60 ·0
1. 37	29. 25		***	2. 50	·01010	3. 40	62 ·0	67 ·5
4. 48	25. 0	1. 56	·0996	5. 24	·01081	9. 40	64 ·0	67 ·0
5. 28	15. 0	2. 24	·1003	5. 47	·01141	21. 40	53 ·0	56 ·0
6. 8	21. 0	2. 34	·0996	6. 45	·01080			
7. 0	20. 0		***	7. 38	·01120			
7. 42	12. 40	4. 57	·1009	8. 35:	·01070			
8. 30	18. 30		***	15. 30	·01504			
	***	5. 33	·1028	23. 27	·01380			
12. 3	21. 40		***	23. 38	·01340			
	***	7. 27	·1004					
12. 28	19. 0	7. 56	·1033					
	***	8. 30	·1010					
12. 50	24. 30	9. 45	·1003					
	***		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.22		Mar.22						
h m	° ′ ″	h m		h m		h m	°	°
13. 16	22. 20. 0	11. 45	·1016					
	***	12. 0	·1026					
14. 0	24. 25	12. 30	·1018					
	***	12. 45	·1026					
15. 22	19. 35		***					
	***	15. 54	·1026					
17. 2	23. 30	16. 30	·1019					
	***		***					
19. 0	21. 35	19. 12	·1029					
	***		***					
21. 17	13. 10	21. 25	·1019					
	***	23. 30	·0992					
23. 47	25. 0							
Mar.23		Mar.23		Mar.23				
0. 0	22. 25. 30	0. 0	·0992	0. 30	·01320	1. 40	57 ·0	61 ·0
1. 45	29. 55		***	3. 14	·00952	3. 40	59 ·0	65 ·0
9. 9	18. 0	4. 18	·1004	7. 0	·01120	9. 40	64 ·0	69 ·0
9. 32	15. 15		***	9. 20:	·01121	21. 40	53 ·0	57 ·0
	***	9. 3	·1007	14. 15	·01558			
10. 50	20. 10	9. 28	·1001	18. 0	·01458			
11. 31	18. 35	9. 58	·1001	19. 30	·01471			
	***		***	22. 45	·01333			
19. 0	21. 55	11. 10	·1014					
	***	12. 5	·1005					
21. 33	12. 5	12. 29	·1013					
23. 59	22. 20	20. 15	·1024					
		23. 10	·1001					
		23. 59	·1000					
Mar.24		Mar.24		Mar.24				
1. 0:	22. 26. 0	0. 45	·1002	1. 30	·01315	1. 40	55 ·5	60 ·0
2. 45	26. 30	19. 30	·1037	5. 7	·00890	3. 40	57 ·0	64 ·0
6. 30	20. 0	23. 59	·1009	9. 0:	·00841	9. 40	58 ·0	62 ·5
	***			15. 47	·01405	21. 40	48 ·0	52 ·5
19. 41	22. 0			15. 53	·01380			
	***			18. 56	·01345			
21. 12	14. 5			19. 0	·01311			
23. 58	22. 30			19. 20	·01335			
				21. 30	·01280			
				23. 45	·01327			
Mar.25		Mar.25		Mar.25				
0. 30	22. 23. 45	0. 20	·1005	1. 0	·01298	1. 40	53 ·0	57 ·0
2. 30	26. 30	9. 16	·1024	5. 30	·00774	3. 40	60 ·0	64 ·5
7. 0	19. 25	10. 5	·1020	7. 32	·00820	9. 40	55 ·5	59 ·0
9. 24	21. 0	10. 18	·1029	9. 24:	·00760	21. 40	49 ·0	53 ·5
10. 5	18. 30	10. 48	·1017	16. 40	·01358			
	***	20. 2	·1035	23. 30	·01280			
19. 0	20. 5	22. 27	·1014					
	***	23. 50	·1014					
20. 50	15. 10							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.25								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 25. 35							
Mar.26		Mar.26		Mar.26				
0. 31	22. 26. 50	0. 30	·1017	1. 30	·01181	1. 40	53 ·5	57 ·0
	***		***	4. 10	·00780	3. 40	56 ·0	60 ·0
2. 42	29. 10	2. 42	·1037		***	9. 40	56 ·0	60 ·0
	***		***	6. 15	·00820	21. 40	46 ·0	50 ·0
5. 13	27. 10	4. 42	·1046	8. 10	·00837			
	***	4. 47	·1034	8. 28	·00916			
5. 31	22. 30		***	9. 41	·00910			
	***	5. 12	·1060	10. 30	·00998			
5. 40	24. 30		***	10. 44	·01092			
	***	5. 28	·1027	10. 51	·01037			
6. 10	21. 45		***	11. 1	·01054			
6. 16	25. 0	5. 42	·1038		***			
6. 30	21. 35		***	12. 0:	·00929			
7. 15	23. 0	5. 48	·1052	15. 30	·01290			
7. 31	19. 20	5. 51	·1038	19. 0	·01175			
	***		***	23. 30	·01260			
8. 2	31. 0	6. 0	·1044					
	***	6. 2	·1022					
8. 23	12. 20	6. 20	·1067					
8. 25	14. 35	6. 28	·1054					
8. 44	5. 3	6. 34	·1060					
9. 7	10. 0	6. 50	·1031					
9. 12	8. 0	6. 58	·1028					
9. 45	19. 20		***					
10. 0	16. 0	7. 35	·1048					
10. 27	24. 0	7. 48	·1038					
10. 35	15. 0	7. 50	·1047					
10. 37	22. 16. 30	8. 15	·0988					
10. 48	21. 48. 20	8. 22	·1002					
11. 57	22. 12. 10	8. 30	·0985					
12. 12	10. 25		***					
12. 37	16. 55	8. 52	·0995					
12. 57	10. 55	9. 2	·0988					
13. 3	15. 45	9. 29	·1002					
13. 29	7. 10	9. 43	·0981					
	***	10. 15	·1000					
14. 41	18. 55	10. 30	·0980					
	***	10. 35	·0996					
16. 20	21. 0	10. 42	·0984					
16. 46	28. 0	11. 0	·1008					
16. 54	24. 20	11. 15	·0983					
	***	11. 32	·0970					
17. 23	32. 0	11. 50	·0988					
	***	12. 30	·0966					
18. 10	23. 0	12. 56	·1005					
	***	13. 7	·0991					
19. 8	33. 0	13. 22	·0987					
	***	13. 33	·1008					
20. 0	24. 0		***					
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 26		Mar. 26						
h m	° ′ ″	h m		h m		h m	°	°
20. 34	22. 29. 5	13. 57	·0991					
	***	14. 2	·0997					
21. 50	18. 3	14. 6	·0990					
	***	14. 15	·1003					
22. 9	21. 30	14. 22	·0996					
	***		***					
23. 22	24. 45	15. 33	·0995					
	***	15. 52	·0979					
23. 34	20. 0	16. 20	·1004					
	***		***					
23. 52	25. 15	17. 10	·1011					
	***		***					
23. 59	24. 25	17. 40:	·0999					
	***	17. 47	·1008					
			***					
		18. 51	·0988					
			***					
		19. 29	·1009					
		19. 41	·1006					
		19. 46	·0995					
		20. 6	·1007					
			***					
		21. 35	·0987					
			***					
		21. 51	·0991					
			***					
		22. 46	·0974					
		22. 59	·1008					
		23. 13	·0983					
		23. 16	·0990					
		23. 32	·0970					
			***					
		23. 48	·0988					
		23. 53	·0981					
Mar. 27		Mar. 27		Mar. 27				
0. 35	22. 26. 5	0. 37	·0983	2. 0	·01240	1. 40	49 ·0	53 ·0
	***	1. 29	·0989	5. 48	·00899	3. 40	51 ·0	55 ·0
2. 16	26. 0	1. 42	·0983	6. 0	·00871	9. 40	51 ·0	55 ·0
	(†)	2. 23	·1012	6. 10	·00904	22. 40	43 ·0	47 ·0
4. 32	23. 30		***	6. 45	·00815			
	***	3. 13	·1017	7. 23	·00810			
5. 44	24. 0	3. 21	·1001	9. 30	·00695			
6. 9	4. 0	3. 35	·1021	11. 15:	·00690			
6. 39	19. 0	4. 12	·1022	17. 45	·01235			
6. 49	12. 0	4. 54	·1010	18. 49	·01230			
6. 55	14. 0	5. 7	·1019	19. 0	·01202			
7. 7:	8. 0	5. 17	·1023	23. 15	·01163			
7. 28:	15. 55	5. 59	·0991					
7. 42	12. 10	6. 20	·1062					
8. 2:	17. 25	6. 41	·1010					
8. 14	15. 5	6. 45	·1020					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 27		Mar. 27						
h m	° ′ ″	h m		h m		h m	°	°
8. 40	22. 20. 0	6. 55	·1006					
	***	7. 16	·1033					
9. 24	22. 5	7. 35	·1012					
	***	8. 1	·1006					
10. 54	19. 25	9. 15	·1019					
11. 4	25. 0	9. 40	·1011					
11. 26	8. 35	10. 41	·1033					
12. 4:	20. 35	10. 47	·1023					
12. 32:	11. 5	10. 59	·1025					
	***	11. 13	·1008					
15. 0	22. 55	11. 44:	·1056					
	***	12. 20	·1003					
19. 16	23. 25	12. 43	·1012					
	***	13. 0	·1003					
21. 57	16. 25		***					
23. 21	23. 5	18. 0	·1023					
		19. 51	·1012					
		20. 58	·1012					
		23. 59	·1003					
Mar. 28		Mar. 28		Mar. 28				
0. 0	22. 25. 30	0. 0	·0997	0. 30	·01161	9. 40	51 ·0	56 ·0
	***		***	2. 0	·01160	21. 40	48 ·0	53 ·0
2. 5	30. 0	2. 11	·1012	5. 54	·00742			
	***	2. 21	·1008	7. 30	·00793			
3. 39	26. 55		***	10. 21:	·00671			
	***	3. 41	·1020	22. 30	·01225			
3. 57	20. 40		***					
	***	3. 54	·1013					
5. 28	23. 15		***					
	***	4. 28	·1032					
6. 30	18. 20		***					
	***	6. 28	·1012					
8. 8	17. 50	8. 12	·1021					
8. 24	13. 5	8. 32	·1044					
8. 54	21. 5	9. 9	·1024					
9. 22	13. 0	9. 29	·1035					
10. 0	18. 35	10. 43	·1014					
	***		***					
11. 25	17. 30	13. 44	·1020					
	***	13. 49	·1027					
11. 48	20. 30	14. 26	·1014					
	***	16. 1	·1021					
13. 11	22. 0	17. 27	·1017					
13. 39	19. 40	18. 0	·1024					
14. 14	25. 45	19. 2	·1026					
	***	22. 11	·0991					
16. 11	18. 25		***					
	***	23. 59	·0995					
17. 27	25. 5							
	***							
21. 10	15. 15							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 28								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 26. 40							
Mar. 29		Mar. 29		Mar. 29				
0. 40	22. 29. 30	0. 25	·1000	1. 0	·01050	1. 40	54 ·0	58 ·0
			***					
6. 14	19. 20			2. 28	·00850	3. 40	58 ·5	62 ·0
7. 50	17. 15	1. 5	·0996	5. 0	·00952	9. 40	59 ·0	64 ·0
	***		***	6. 45	·00920	21. 40	57 ·0	60 ·0
8. 15	19. 30	1. 35	·0990	10. ♂:	·00887			
8. 40:	13. 25	3. 48	·1006	21. 0	·01496			
	***	4. 5	·1000					
9. 39	10. 30	4. 50	·1000					
	***	5. 29	·1010					
11. 30	20. 5	5. 52	·1000					
	***	7. 47	·1007					
13. 19	21. 55		***					
	***	8. 14	·1021					
14. 30	18. 30	8. 32	·1016					
	***		***					
15. 30	24. 30	8. 59	·1021					
16. 7	18. 10	9. 8	·1011					
	***	10. 33	·0993					
21. 24	15. 30		***					
	***	13. 16	·0996					
23. 56	24. 0	13. 42	·1004					
		15. 13	·1000					
		15. 44	·1010					
		18. 3	·1003					
		19. 3	·1008					
		22. 35	·0994					
		23. 59	·1002					
Mar. 30		Mar. 30		Mar. 30				
0. 42	22. 24. 0	0. 30	·1000	1. 30	·01463	1. 40	59 ·0	63 ·0
1. 30	27. 30	1. 30	·1000	8. 58	·01260	3. 40	61 ·0	64 ·0
	***	2. 4	·0990	12. 0	·01329	9. 40	60 ·0	64 ·0
4. 13	20. 20	2. 58	·1006	15. 50	·01517	21. 40	56 ·0	60 ·0
5. 15	23. 0	3. 57	·1011	15. 52	·01494			
5. 53	17. 35	4. 9	·1002	16. 14	{ ·01500			
6. 11	20. 25	4. 36	·1008		{ ·01448			
7. 12	17. 25	5. 45	·0997	17. 0	·01499			
8. 0	21. 5	5. 58	·1006	19. 0	·01530			
	***	6. 28	·0995	23. 45	·01505			
9. 16	19. 5	8. 0	·1006					
10. 51	20. 50	9. 4	·0998					
11. 28	16. 10	9. 33	·1007					
11. 45	18. 30	10. 32	·1001					
	***	11. 30	·1009					
12. 59	13. 35	11. 59	·0998					
14. 33	20. 50		***					
	***	14. 52	·1016					
15. 49	16. 35	16. 32	·1006					
17. 30	20. 25	21. 25	·0995					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 30		Mar. 30						
h m	° ′ ″	h m		h m		h m	°	°
19. 0	22. 19. 0	23. 59	·0978					
	***							
21. 4	15. 35							
	***							
23. 59	27. 50							
Mar. 31		Mar. 31		Mar. 31				
1. 0	22. 30. 55	0. 5	·0977	1. 30	·01510	1. 40	53 ·0	62 ·0
6. 30	22. 25	2. 53	·0986	6. 16	·01385	3. 40	59 ·0	62 ·0
7. 48	20. 0	6. 6	·1010	9. 0	·01445	9. 40	57 ·0	62 ·0
8. 29	13. 35	6. 33	·1005	9. 47	·01420	21. 40	51 ·5	56 ·0
8. 50	22. 15. 30	7. 18	·1012	11. 17	·01574			
	***	7. 48	·1004	13. 5	·01443			
9. 47	21. 52. 40	8. 7	·1014	13. 10	·01393			
	***	8. 22	·1010	13. 24	·01380			
11. 19	22. 18. 15	8. 32	·1019	13. 40	·01370			
	***	9. 1	·1004	14. 0	·01285			
12. 8	21. 58. 5	9. 9	·1018	14. 24	·01333			
12. 22	22. 2. 25	10. 2	·0970	14. 45	·01300			
12. 31	0. 15		***	15. 4	·01354			
	***	11. 57	·1024	17. 17	·01370			
13. 36	11. 0		***	18. 8	·01295			
	***	13. 0	·0983	21. 40	{ ·01370			
14. 22	6. 50		***		{ ·01030			
14. 45	8. 30	13. 30	·0987	23. 45	·01080			
	***	13. 33	·0995					
15. 22	24. 35	13. 46	·0995					
	***	14. 2	·0973					
17. 7	21. 35	14. 30	·1000					
17. 33	37. 5	14. 48	·0985					
18. 12	22. 0		***					
	***	16. 13	·1009					
18. 47	24. 5	19. 0	·1008					
	***	19. 52	·1003					
19. 42	19. 20		***					
	***	23. 59	·1011					
20. 24	18. 0							
	***							
20. 44	21. 5							
20. 51	18. 5							
	***							
23. 59	27. 5							
Apr. 1		Apr. 1		Apr. 1				
1. 2	22. 28. 0	0. 5	·0977	2. 10	·01041	1. 40	54 ·0	58 ·0
1. 29	30. 0	1. 15	·0960	4. 0	·00865	3. 40	57 ·0	60 ·5
	***	1. 40	·0983	6. 45	·00872	9. 40	58 ·0	61 ·5
1. 54	28. 35	2. 18	·0986	7. 40	·00942	21. 40	47 ·0	51 ·5
2. 15	30. 25	2. 45	·0976	9. 28:	·00875			
2. 41	28. 5	3. 10	·0987	14. 45	·01340			
3. 6	29. 35	3. 20	·0979	19. 0	·01268			
	***		***	21. 30	·01235			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 1		Apr. 1		Apr. 1		h m	o	o
h m	o ′ ″	h m		h m				
7. 28	22. 16. 55	6. 22	·1004	23. 30	·01265			
	***	6. 59	·0991					
9. 23	21. 40	7. 45	·1000					
	***	8. 13	·0993					
11. 17	22. 5	8. 37	·0999					
	***	9. 6	·0989					
11. 40	19. 25		***					
	***	11. 29	·1005					
12. 45	25. 30	11. 47	·1026					
	***	12. 27	·1029					
14. 0	19. 5	12. 43	·1017					
	***	14. 17	·1004					
15. 0	25. 55	16. 14	·1018					
	***	19. 7	·1017					
16. 8	20. 20	21. 33	·1006					
	***	23. 12	·0966					
19. 0	22. 25	23. 44	·0967					
	***							
19. 39	17. 40							
20. 20	19. 30							
21. 3	14. 45							
23. 47	28. 10							
Apr. 2		Apr. 2		Apr. 2				
1. 0	22. 28. 0	0. 30	·0978	1. 30	·00970	1. 43	54 ·5	58 ·0
	***	2. 59	·0996	2. 10	·00805	3. 40	58 ·0	62 ·0
4. 24	27. 0		***	7. 32	·00993	9. 40	58 ·0	61 ·5
4. 45	21. 50	5. 0	·1005	9. 0	·00917	21. 40	46 ·0	50 ·0
5. 7	25. 0	5. 14	·0990	14. 30	·01340			
5. 19	22. 20	5. 22	·0997	15. 10	·01260			
5. 33	24. 10	5. 47	·0986	21. 0	·01211			
6. 0	20. 30	6. 14	·1000	23. 15	·01260			
6. 30	23. 25		***					
6. 58	13. 30	6. 42	·0992					
7. 15	22. 20. 55	7. 0	·1014					
7. 37	21. 59. 30	7. 13	·0996					
7. 58	22. 17. 40	7. 18	·1007					
8. 3	11. 40	7. 28	·0985					
8. 20	22. 0	7. 43	·1036					
8. 43	15. 25	7. 59	·0995					
	***	8. 8	·1010					
11. 44	13. 30	8. 26	·0979					
	***		***					
12. 38	7. 25	12. 19	·0991					
	***	12. 35	·0983					
13. 50	17. 55		***					
14. 12	17. 25	15. 6	·1023					
14. 40	32. 50	15. 45	·1012					
14. 59	25. 5		***					
	***	17. 2	·1026					
15. 53	20. 10		***					
	***	20. 41	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 2		Apr. 2				h m	o	o
h m	o ′ ″	h m		h m				
17. 45	22. 23. 15	22. 30	·0986					
	***	22. 45	·0994					
19. 40	21. 35	23. 59	·0993					
	***							
20. 32	14. 35							
	***							
22. 14	18. 0							
	***							
23. 59	26. 5							
Apr. 3		Apr. 3		Apr. 3				
0. 30	22. 28. 0	1. 0	·1000	1. 30	·01090	1. 43	52 ·5	56 ·0
	***	1. 20	·0994	3. 12	·00800	3. 40	55 ·5	60 ·0
2. 15	31. 40		***	6. 0	·00890	9. 40	57 ·3	62 ·0
	***	3. 14	·0998	10. 0	·00831	22. 40	47 ·2	51 ·5
5. 33	19. 0	4. 15	·1014	15. 29	·01340			
	***		***	19. 0	·01254			
6. 47	22. 0	4. 47	·0990	23. 15	·01240			
	***	5. 17	·1016					
10. 48	20. 5	5. 58	·1004					
	***	6. 12	·1012					
13. 10	24. 5	6. 28	·1007					
	***	6. 37	·1012					
15. 40	20. 35	6. 48	·1003					
	***	12. 0	·1014					
16. 36	28. 25	12. 47	·1007					
	***	13. 15	·1018					
18. 27	22. 0	13. 37	·1014					
	***	14. 8	·1028					
22. 4	19. 0	14. 35	·1019					
23. 20	24. 35	15. 45	·1022					
		16. 26	·1001					
		17. 5	·1022					
		18. 29	·1029					
		21. 45	·1009					
		23. 13	·0985					
		23. 59	·0995					
Apr. 4		Apr. 4		Apr. 4				
0. 0	22. 27. 25	0. 15	·1002	0. 30	·01253	10. 43	53 ·5	57 ·0
	***	2. 20	·1018	3. 30	·01101	21. 40	47 ·8	52 ·5
1. 0	31. 0	3. 44	·0997	7. 10	·00760			
	***		***	7. 45	·00800			
3. 0	31. 35	4. 32	·1030	11. 23	·00713			
	***	5. 16	·1007	17. 13	·01182			
7. 30	17. 0		***	19. 40	·01211			
	***	6. 15	·1017	19. 45	·01178			
9. 44	19. 15		***	21. 30	·01210			
10. 12	15. 25	8. 25	·1009	23. 30	·01140			
	***	10. 21	·1019					
11. 23	17. 50	11. 22	·1014					
11. 31	13. 55	11. 33	·1042					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 4	° ′ ″	Apr. 4						
h m		h m		h m		h m	°	°
11. 41	22. 17. 5	12. 28	·1016					
	***	13. 44	·1010					
13. 14	19. 20	15. 8	·1018					
13. 43	14. 5	15. 57	·1011					
14. 1	16. 0	17. 10	·1021					
14. 45:	11. 0	17. 37	·1008					
	***		***					
16. 2	25. 30	20. 9	·1016					
16. 52	12. 35	22. 27	·0980					
17. 37:	21. 45		***					
18. 11	15. 20	23. 59	·0981					
19. 2	23. 5		***					
	***							
20. 1	14. 0							
	***							
20. 11	16. 10							
	***							
21. 30	16. 0							
	***							
23. 59	29. 0							
Apr. 5		Apr. 5		Apr. 5				
1. 0	22. 31. 0	0. 30	·0992	1. 0	·00945	1. 42	55 ·0	59 ·0
	***		***	1. 42	·00802	3. 40	59 ·5	63 ·0
1. 55	35. 5	2. 13	·0983	4. 0	·01042	9. 54	63 ·0	65 ·5
2. 20	29. 40		***	7. 40	·01023	21. 40	51 ·0	55 ·2
3. 9	35. 15	3. 4	·1008	10. 10	·00951			
	***	3. 17	·0989	12. 30:	·01084			
5. 14	27. 40	4. 8	·0991	15. 7	·01424			
	***	4. 28	·0981	20. 0	·01350			
6. 29	10. 25		***	23. 32	{ ·01350			
	***	5. 8	·1000		{ ·01280			
6. 59	18. 50	5. 29	·0989					
	***		***					
7. 50	4. 0	6. 45	·1045					
	***	7. 8	·1000					
8. 50	17. 10	7. 21	·1011					
9. 11	8. 10	7. 33	·0999					
9. 21	10. 45	8. 0	·1018					
9. 33	4. 0	8. 42	·0983					
9. 54	16. 0	9. 2	·0986					
	***	9. 13	·0997					
10. 42	20. 30	9. 23	·0976					
	***	9. 42	·1010					
11. 30	17. 0	9. 53	·0990					
	***		***					
12. 10	22. 25	12. 20	·0994					
	***	12. 32	·1021					
12. 26	19. 0	12. 50	·1000					
	***		***					
12. 43:	27. 35	18. 47	·1004					
	***	19. 11	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 5	° ′ ″	Apr. 5						
h m		h m		h m		h m	°	°
13. 12	22. 18. 35	20. 40	·1000					
	***	22. 0	·0970					
13. 26	20. 0		***					
	***	23. 59	·0980					
14. 0	17. 0							
	***							
18. 0	26. 10							
	***							
19. 31	23. 50							
	***							
20. 43	15. 50							
	***							
23. 59	26. 55							
	***							
Apr. 6		Apr. 6		Apr. 6				
0. 39	22. 28. 30	0. 15	·0976	1. 30	·01213	1. 40	54 ·8	58 ·0
1. 37	31. 0		***	3. 55	·00902	3. 40	58 ·5	63 ·0
	***	4. 3	·1010	6. 48	·00900	9. 40	61 ·0	65 ·0
6. 30	22. 0	4. 45	·1001	8. 0	·00945	21. 40	53 ·5	58 ·0
	***	8. 53	·1009	11. 0:	·00886			
9. 14	20. 0	9. 13	·1015	17. 23	·01440			
	***	9. 43	·1004	23. 45	·01366			
15. 3	23. 20	18. 43	·1009					
15. 30	25. 10	23. 16	·0977					
	***							
19. 0	20. 35							
	***							
21. 30	15. 50							
23. 59	25. 0							
Apr. 7		Apr. 7		Apr. 7				
0. 40	22. 27. 30	0. 0	·0981	1. 30	·01345	1. 40	55 ·5	59 ·0
1. 30	30. 10	3. 48	·1011	3. 45	{ ·01270	3. 40	57 ·0	60 ·0
7. 0	23. 0	5. 2	·1006		{ ·01067	9. 40	57 ·0	61 ·0
	***		***	9. 9:	·00837	21. 40	51 ·5	55 ·5
17. 0	23. 30	18. 58	·1030	15. 49	·01314			
19. 0	20. 10		***	16. 43	{ ·01311			
	***	20. 45	·1020		{ ·01260			
20. 58	13. 30		***	17. 20	·01305			
	***	23. 25	·0984	21. 30	·01280			
23. 58	26. 0	23. 45	·0992	22. 45	·01290			
				23. 52	·01225			
Apr. 8		Apr. 8		Apr. 8				
0. 13	22. 27. 5	0. 35	·0986	1. 0	·01120	1. 42	56 ·5	60 ·0
2. 15	30. 30	5. 41	·1000	2. 50	·00860	3. 40	59 ·0	63 ·0
	***	6. 21	·1018	8. 23	·00947	9. 40	60 ·0	65 ·0
8. 20	16. 25		***	9. 24	·00891	22. 40	50 ·0	54 ·0
8. 43	17. 35	8. 47	·0989	10. 14	·00929			
9. 2	12. 0	9. 8	·1003	10. 31:	·00873			
9. 24	22. 23. 40	9. 31	·0982	14. 29	·01404			
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 8		Apr. 8		Apr. 8		h m	o	o
h m	o ′ ″	h m		h m				
10. 8	21. 56. 0	9. 57	·0981	23. 15	·01233			
	***	10. 17	·1057					
10. 31	22. 18. 0	10. 40	·1019					
10. 51	21. 55	12. 26	·0989					
10. 59	20. 30	12. 32	·0998					
11. 22	28. 5	19. 3	·1020					
	***	20. 0	·1020					
12. 15	22. 50	23. 0	·0993					
	***							
18. 30	24. 0							
	***							
21. 20	15. 10							
23. 13	23. 0							
Apr. 9		Apr. 9		Apr. 9				
0. 0	22. 28. 10	0. 0	·0998	0. 0	·01225	7. 37	54 ·5	58 ·0
1. 0	33. 0		***	4. 10	·01210	21. 40	46 ·5	50 ·0
	***	3. 13	·1007	10. 30:	·00728			
3. 1	33. 0	3. 27	·0992	16. 35	·01250			
	***	3. 50	·1012	16. 40	·01235			
4. 15	23. 20	4. 17	·1000	18. 15	·01195			
5. 11	26. 55		***	18. 30	·01161			
	***	5. 15:	·0994		***			
9. 28	21. 10		***	23. 0	·01192			
	***	6. 55	·1011					
11. 9	22. 30		***					
	***	7. 38	·1004					
11. 36:	9. 40	9. 0	·1017					
	***		***					
12. 13	20. 45	11. 8	·1028					
	***	11. 29	·1042					
12. 30:	15. 10		***					
	***	12. 14	·1040					
13. 15:	21. 0	12. 33	·1016					
	***		***					
13. 38:	17. 30	13. 29	·1023					
	***		***					
14. 58	30. 40	14. 21	·1012					
	***		***					
16. 5:	20. 0	15. 20	·1033					
	***		***					
18. 0	30. 35	16. 14	·1015					
	***		***					
18. 34	30. 45	17. 12	·1033					
	***		***					
19. 18	17. 35	18. 30	·1025					
	***		***					
19. 48	21. 0	19. 0	·1041					
	***		***					
20. 52	14. 50	23. 35	·0991					
	***							
21. 13	18. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 9		h m		h m		h m	o	o
h m	o ′ ″							
21. 46	22. 15. 15							
	***							
23. 3	24. 30							
	***							
23. 59	25. 10							
	***							
Apr. 10		Apr. 10		Apr. 10				
1. 0	22. 27. 55	0. 48	·1006	1. 2	·01030	1. 40	53 ·5	57 ·0
	***	2. 16	·0996	1. 40	·00925	3. 40	57 ·5	61 ·0
6. 30	20. 10	3. 37	·1012	1. 46	·00920	9. 40	65 ·0	67 ·0
	***	3. 47	·1003		***	22. 40	51 ·5	55 ·5
7. 10	12. 5	4. 4	·1008	2. 20	·00810			
7. 22	13. 55		***		***			
7. 48	10. 0	5. 7	·0997	5. 16	·00980			
8. 16	13. 25	5. 30	·1004		***			
8. 31	11. 5		***	5. 50	·00955			
8. 51	18. 30	6. 0	·1006		***			
	***	6. 16	·1022	7. 50	·01110			
9. 22	17. 35		***	12. 30	·00983			
	***	7. 41	·0977	16. 0	·01350			
11. 48	25. 55	8. 4	·0991	20. 44	·01297			
	***	8. 17	·0986	23. 0	·01300			
12. 0	24. 0	8. 37	·0993					
	***		***					
12. 24	29. 0	9. 33	·0983					
12. 30	27. 30		***					
	***	11. 37	·1000					
12. 41	30. 45	11. 47	·1011					
	***	12. 2	·1001					
13. 10	21. 35	12. 20	·1017					
	***		***					
13. 28	21. 0	13. 44	·0986					
	***		***					
13. 49	37. 0	14. 33	·1008					
	***	14. 58	·1002					
14. 20	28. 0	15. 38	·1011					
	***	17. 10	·1004					
15. 30	24. 35		***					
	***	19. 13	·1006					
15. 47	27. 35		***					
	***	20. 0	·1005					
16. 2	24. 25		***					
	***	20. 53	·0988					
16. 41	25. 25		***					
	***	22. 34	·0995					
16. 55	22. 0		***					
	***	23. 2	·0979					
17. 7	25. 15	23. 14	·0987					
	***	23. 33	·0969					
17. 21	22. 30		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 10								
h m	° ′ ″	h m		h m		h m	°	°
18. 43	22. 20. 30							
	***							
19. 35	24. 50							
	***							
20. 37	17. 0							
	***							
21. 2:	23. 20							
	***							
21. 39	19. 25							
	***							
23. 32	23. 10							
	***							
Apr. 11		Apr. 11		Apr. 11				
0. 0	22. 27. 10	0. 20	·0992	0. 45	·01365	9. 40	55 ·0	59 ·0
	***		***	2. 0	·01340	21. 40	52 ·0	55 ·5
1. 1	30. 0	0. 50	·0986	5. 35	·00940			
	***		***	6. 0	·00930			
4. 33	20. 10	4. 58	·1014	6. 30	·00864			
	***	5. 32	·1007	8. 0	·00880			
8. 26	17. 50		***	10. 0:	·00796			
8. 40	5. 0	5. 53	·1027	16. 50	·01380			
8. 57	12. 35	6. 19	·1001	20. 45	·01330			
9. 2	8. 0		***	21. 0	·01310			
9. 57:	20. 55	7. 56	·1018	21. 30	{ ·01330			
	***	8. 37	·1007		{ ·01272			
10. 10	19. 15	8. 47	·1024					
	***	8. 58	·1013					
10. 33	21. 55	9. 13	·1026					
	***		***					
12. 41	25. 0	11. 39	·1006					
13. 2:	23. 5		***					
13. 22	27. 30	20. 16	·1003					
13. 55	22. 5		***					
	***	23. 15	·0987					
18. 0	20. 35	23. 32	·0969					
20. 39	16. 0		***					
20. 46	17. 10	23. 57	·0977					
20. 57	15. 0		***					
	***							
22. 25	22. 0							
23. 32	25. 0							
Apr. 12		Apr. 12		Apr. 12				
0. 30	22. 28. 0	0. 15	·0992	1. 0	·01148	1. 40	56 ·0	60 ·0
2. 0	29. 0		***	2. 50	·00860	3. 40	59 ·0	63 ·5
	***	7. 10	·1017	6. 44:	·00830	9. 40	56 ·5	61 ·5
7. 12	14. 10		***	12. 48	·01370	21. 40	47 ·5	52 ·0
	***	11. 18	·1012	16. 0	·01250			
10. 0	24. 15		***	18. 30	·01270			
	***	12. 28	·1037	22. 0	·01241			
11. 51	25. 10	13. 57	·1008	23. 45	·01120			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12		Apr. 12						
h m	° ′ ″	h m		h m		h m	°	°
12. 20	22. 22. 0	14. 20	·1021					
	***	15. 8	·1009					
12. 41	24. 10	16. 29	·1023					
	***	19. 43	·1019					
14. 29	19. 20		***					
	***	21. 23	·0997					
15. 29	29. 5		***					
	***	22. 42	·1005					
17. 0	20. 10	23. 50	·0969					
	***							
19. 34	17. 20							
	***							
20. 43	14. 55							
	***							
23. 59	26. 5							
	***							
Apr. 13		Apr. 13		Apr. 13				
1. 0	22. 31. 0	1. 28	·1001	1. 0	·00978	1. 40	55 ·0	60 ·0
	***		***	1. 45	·00810	3. 40	60 ·0	65 ·0
2. 8	32. 0	2. 17	·0986	4. 0	·01010	9. 40	62 ·0	69 ·0
3. 23	25. 0		***	7. 0	·00930	21. 40	52 ·0	55 ·0
	***	2. 36	·1000	8. 12:	·00975			
8. 0	15. 5	2. 59	·0973	14. 20	·01450			
8. 14	16. 35	3. 12	·0993	21. 0	·01261			
8. 32	15. 20		***	22. 30	·01310			
	***	5. 30	·0981	23. 55	·01160			
9. 45	22. 0		***					
	***	9. 31	·1004					
14. 10	22. 30		***					
	***	17. 57	·1015					
14. 21	24. 0	18. 29	·1017					
	***		***					
14. 38	21. 55	19. 11	·1013					
	***		***					
16. 0	29. 35	22. 27	·0985					
	***		***					
17. 30	23. 0	23. 59	·0989					
	***							
18. 49	22. 5							
	***							
20. 31	13. 45							
	***							
20. 55	17. 15							
	***							
21. 15	16. 0							
	***							
23. 59	26. 0							
Apr. 14		Apr. 14		Apr. 14				
1. 8	22. 32. 0	0. 12	·0983	1. 26	·01090	1. 40	58 ·0	63 ·0
7. 29	16. 30	0. 16	·0981			3. 40	63 ·5	68 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 14		Apr. 14		Apr. 14		h m	o	o
h m	o ′ ″	h m		h m				
7. 44	22. 19. 5	1. 10	·0993	3. 40	{·01210	9. 40	67 ·0	71 ·0
	***		***		{·01270	21. 40	51 ·0	56 ·0
8. 32:	8. 10	3. 35	·0983	6. 50	·01190			
8. 49:	11. 30	3. 52	·0969	8. 30	·01210			
9. 10	8. 35		***	9. 10:	·01205			
	***	9. 15	·0991	13. 12	·01570			
11. 55	24. 5		***	21. 40	{·01385			
	***	10. 2	·0970		{·01120			
12. 23	19. 25		***	23. 23	·01107			
	***	12. 3	·0999					
12. 47	22. 40	12. 59	·0991					
	***		***					
14. 33	24. 25	19. 36	·0988					
	***		***					
16. 33	16. 35	23. 52	·0975					
	***							
17. 30	19·15							
	***							
20. 33	18. 5							
	***							
21. 33	14. 35							
	***							
23. 31	26. 30							
	***							
23. 58	26. 30							
	***							
Apr. 15		Apr. 15		Apr. 15				
0. 26	22. 27. 0	0. 22	·0971	1. 30	·01106	1. 40	56 ·6	62 ·0
	***		***	3. 30	·01170	3. 40	60 ·0	65 ·0
2. 16	31. 0	1. 0	·0974		***	9. 40	57 ·0	63 ·0
	***		***	6. 52:	·01051	21. 40	49 ·0	55 ·0
2. 58	22. 15	2. 39	·0977	12. 10	·01465			
	***		***	14. 45	·01283			
4. 49	24. 10	3. 2	·0989	18. 0	·01315			
	***		***		***			
7. 24	20. 55	5. 42	·0981	23. 45	·01295			
	***	6. 12	·0992					
8. 2	12. 10	7. 28	·0976					
	***	8. 8	·0993					
9. 30	24. 10	8. 40	·0987					
	***		***					
13. 2	24. 15	12. 15	·1003					
	***	13. 7	·1017					
13. 24:	28. 0	13. 16	·1014					
	***	13. 42	·1028					
13. 54:	19. 0	14. 16	·1001					
	***	15. 59	·1001					
14. 24	22. 40		***					
	***	16. 28	·0985					
15. 10	18. 25		***					
	***	18. 15	·1003					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 15		Apr. 15				h m	o	o
h m	o ′ ″	h m		h m				
17. 0	22. 22 ·10	19. 14	·1006					
	***		***					
21. 20	18. 20	20. 33	·0985					
	***		***					
23. 59	27. 5	23. 59	·0981					
			***					
Apr. 16		Apr. 16		Apr. 16				
0. 30	22. 28. 25	0. 28	·0981	1. 30	·01274	1. 40	52 ·0	57 ·5
2. 11	32. 30		***	2. 39	·01180	3. 40	55 ·0	61 ·0
2. 42	26. 0	2. 15	·0990	2. 52	·01181	9. 40	53 ·0	59 ·0
3. 16:	24. 10	2. 33	·0969	4. 15	·00923	21. 40	46 ·0	49 ·5
	***		***	6. 0	·00933			
4. 30	26. 25	3. 1	·1003	6. 10	·00955			
	***		***	7. 12:	·00900			
7. 10	21. 0	4. 0	·0980	12. 29	·01349			
	***		***	22. 30	·01265			
8. 12	23. 5	4. 22	·1005	23. 50	·01183			
	***		***					
8. 51	21. 0	5. 17	·0975					
	***	5. 40	·0990					
9. 59	24. 30	5. 58	·0976					
	***	6. 15	·0988					
11. 15	20. 25	6. 39	·0982					
	***		***					
11. 38	23. 30	7. 42	·0970					
	***		***					
14. 0	23. 35	11. 21	·1000					
	***	12. 45	·0984					
15. 12	29. 15		***					
	***	18. 47	·1003					
17. 58	21. 0	22. 2	·0973					
	***	23. 59	·0978					
18. 10	14. 0							
18. 32	20. 35							
18. 46	18. 35							
19. 15	20. 25							
20. 16	16. 40							
23. 59	26. 0							
Apr. 17		Apr. 17		Apr. 17				
0. 30	22. 26. 30	0. 44	·0988	1. 0	·01050	1. 40	52 ·0	52 ·0
5. 52	19. 0	4. 13	·0975	1. 50	·00910	3. 40	57 ·0	62 ·0
	***	4. 42	·0983	4. 0	·01056	9. 40	60 ·0	63 ·0
10. 0	22. 0		***	8. 30	·01027	22. 40	53 ·0	57 ·0
	***	6. 2	·0970	11. 0:	·00980			
17. 30	23. 30	19. 17	·0990	17. 37	·01570			
	***	21. 12	·0960	23. 0	·01490			
19. 51	18. 0	23. 16	·0978					
	***							
21. 20	20. 35							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 17								
h m	° ′ ″	h m		h m		h m	°	°
21. 45	22. 25. 5							
23. 21	25. 25							
Apr. 18		Apr. 18		Apr. 18				
0. 0	22. 25. 25	0. 0	·0986	0. 0	·01511	9. 29	49 ·0	54 ·0
3. 37	25. 0		***	1. 0	·01524	21. 40	47 ·0	51 ·0
	***	11. 47	·1006	3. 30	·01565			
8. 0	22. 45	12. 4	·1014	7. 10	·01510			
	***	12. 32	·1012	9. 0	·01551			
12. 32	21. 35	12. 45	·1005	15. 0	·01425			
13. 1	23. 20		***	20. 0	·01394			
	***	18. 40	·1011	21. 10	·01373			
14. 14	19. 15	19. 30	·0986	22. 0	·01390			
	***	21. 19	·0986	23. 0	·01360			
15. 2	23. 0	23. 59	·0972					
	***							
15. 45	20. 0							
	***							
18. 0	21. 5							
	***							
19. 18	27. 35							
	***							
20. 32	27. 5							
	***							
21. 0	24. 0							
	***							
23. 59	27. 25							
Apr. 19		Apr. 19		Apr. 19				
0. 31	22. 25. 50	0. 50	·0978	0. 40	·01175	1. 42	52 ·5	56 ·5
1. 1	28. 0	2. 33	·0977	1. 30	·01074	3. 40	55 ·0	58 ·0
2. 44	25. 0	3. 16	·0991	4. 6	·00763	9. 40	54 ·0	57 ·0
	***	4. 57	·0978	6. 15	·00765	21. 45	45 ·0	48 ·8
4. 58	22. 55		***	8. 10	·00798			
5. 31	25. 25	5. 43	·1000	9. 45:	·00762			
6. 14	21. 0		***	16. 51	·01422			
8. 23	21. 30	6. 14	·0977	21. 15	·01300			
8. 58	19. 50		***	22. 45	·01330			
	***	8. 21	·0990	23. 45	·01270			
9. 52	12. 25		***					
	***	9. 8	·0986					
10. 30	21. 0		***					
	***	9. 32	·0996					
13. 30	24. 5	9. 43	·0991					
15. 3	24. 0	10. 2	·1007					
15. 39	26. 5	10. 49	·0984					
16. 1	23. 35	14. 15	·1002					
16. 6	27. 0	16. 1	·1002					
16. 39	20. 25	16. 5	·1013					
17. 36	18. 5		***					
17. 52	20. 10	18. 42	·1015					
18. 10	18. 30	19. 31	·0975					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 19		Apr. 19						
h m	° ′ ″	h m		h m		h m	°	°
18. 50	22. 21. 0	20. 37	·0988					
19. 39	20. 35		***					
20. 0	18. 20	21. 33	·0977					
20. 27	20. 25	23. 17	·0977					
	***	23. 31	·0969					
21. 13	16. 15							
	***							
23. 59	28. 20							
Apr. 20		Apr. 20		Apr. 20				
0. 5	22. 30. 50	0. 2	·0988	1. 22	·01043	1. 40	52 ·0	54 ·5
0. 15	28. 30	0. 15:	·0966	2. 3	·00952	3. 40	57 ·0	62 ·0
1. 0	35. 25	0. 45	·0933	2. 10	·00925	10. 18	54 ·0	59 ·0
	(†)	0. 57	·0961	2. 15	·00950	21. 40	48 ·0	50 ·5
3. 40	47. 43*		***	2. 21	·00915			
	(†)	2. 8	·0965	2. 34	·00895			
4. 13	37. 25	2. 11	·0985	2. 50	·00899			
4. 37	38. 0	2. 15	·0973	2. 59	·00942			
4. 54	32. 35	2. 22	·0987	3. 12	·00934			
	***	2. 32	·0976	3. 33	·01064			
5. 24	34. 0	2. 42	·1006	3. 42	·01050			
	***	2. 46	·0979	4. 8	·01187			
6. 47	22. 18. 5	2. 53	·1018	6. 20	·00952			
7. 10	21. 53. 30	3. 2	·0987	6. 35	·00983			
	***	3. 6	·1013	6. 40	·00980			
7. 32	22. 2. 25	3. 15	·0975	6. 43	·01004			
	***		***	6. 50	·01005			
7. 39	21. 59. 5	3. 32	·1013	7. 5	·01111			
7. 53	22. 0. 30		***	7. 31	·00985			
8. 31:	~~21. 59. 0~~	3. 59	·0951	7. 58	·00988			
	22. 17. 50		***	10. 0	·00896			
	***	4. 16	·0990	11. 51	·01005			
8. 40	16. 20		***	12. 20	·00987			
	***	4. 37	·0945	12. 43	·00801			
9. 21	24. 40		***	14. 20	·01150			
	***	5. 42	·0985	14. 43	·01085			
11. 30	25. 0	5. 58	·0971	15. 44	·01213			
	***	6. 9	·0982	15. 58	·01161			
12. 15:	21. 10	6. 22	·0964	16. 21	·01220			
	***	6. 31	·0990	16. 39	·01137			
12. 39	34. 30	6. 39	·0979	16. 45	·01165			
13. 8	5. 25	6. 49	·0994	17. 0	·01145			
13. 28:	11. 10		***	17. 22	·00993			
13. 37	9. 25	8. 30	·0960	17. 39	·01130			
13. 49	15. 35		***	18. 0	·01030			
13. 59:	12. 55	11. 51	·0986	18. 22	·01108			
14. 30	28. 0	12. 16	·0972	18. 34	·01081			
15. 19	7. 30	12. 30	·1023	19. 20	·01035			
15. 46	20. 40	12. 59	·0936	19. 42	·01120			
	***	13. 5	·0976	19. 59	·01100			
16. 9	12. 20		***	20. 15	·01140			
	***	14. 28	·0957	20. 27	·01122			
					***			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 20	° ′ ″	Apr. 20		Apr. 20		h m	°	°
h m		h m		h m				
16. 29	22. 20. 55	14. 47	·0991	22. 56	·01450			
16. 33	14. 20	15. 9	·0968		***			
16. 41	24. 0		***	23. 30	·01431			
16. 55	14. 20	15. 42	·0971		***			
17. 2	22. 0	16. 4	·0932	23. 52	·01462			
	***	16. 29	·0964					
17. 25	14. 10	16. 35	·0953					
17. 30	37. 40	16. 58	·0997					
17. 50	14. 0	17. 31	·0915					
17. 54	18. 0	18. 10	·0975					
18. 0	11. 35	18. 37	·0977					
	***	19. 31	·0913					
18. 17	32. 5	20. 28	·0936					
	***	20. 59	·0914					
18. 30	29. 25	22. 28	·0913					
18. 44	43. 0		***					
18. 50	36. 35	22. 57	·0944					
	***	23. 8	·0929					
19. 6	42. 20	23. 15	·0939					
	***	23. 18	·0928					
19. 32	24. 0	23. 27	·0935					
19. 38	28. 0	23. 32	·0918					
	***	23. 41	·0927					
19. 58	21. 30	23. 47	·0917					
	***	23. 59	·0937					
20. 13	34. 5							
20. 20	29. 30							
	***							
20. 32	32. 0							
	***							
21. 0	22. 10							
	***							
22. 22	37. 25							
	***							
22. 34	30. 0							
	***							
22. 50	32. 35							
23. 29	29. 30							
23. 45	37. 5							
23. 59	37. 0							
Apr. 21		Apr. 21		Apr. 21				
1. 0	22. 34. 0	0. 17	·0953	1. 39	·01310	1. 40	54 ·5	57 ·5
	***		***	1. 45	·01260	3. 40	58 ·0	62 ·0
1. 57	38. 30	0. 49	·0934	2. 15	·01285	9. 40	59 ·5	64 ·0
	***	0. 57	·0963	2. 38	·01262	21. 40	51 ·0	55 ·0
2. 30	30. 25	1. 41	·0945	2. 45	·01243			
2. 41	35. 10	1. 54	·0936	2. 50	·01268			
3. 13	25. 5	2. 15	·0967	2. 54	·01250			
3. 32	29. 15	2. 26	·0955	3. 6	·01262			
3. 40	25. 0	2. 45	·0949	3. 26	·01180			
3. 54	29. 15	3. 1	·0994	3. 33	·01197			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 21	° ′ ″	Apr. 21		Apr. 21		h m	°	°
h m		h m		h m				
4. 4	22. 26. 5	3. 5	·0983	3. 40	·01190			
4. 27	33. 15	3. 12	·0994	3. 50	·01203			
	***	3. 18	·0985	4. 14	·01180			
5. 12	20. 35	3. 31	·1008	4. 30	·01203			
5. 22	27. 15		***	4. 51	·01181			
5. 28	23. 55	4. 12	·0971	5. 10	·01196			
5. 31	27. 0	4. 23	·0989	5. 31	·01101			
5. 40	21. 0	4. 40	·0965	5. 40	·01137			
6. 2	27. 0	4. 44	·0973	6. 8	·01064			
6. 19	3. 0	4. 46	·0959	6. 16	·01160			
6. 36	25. 15	5. 7	·1001	6. 41	·01032			
6. 45	17. 30	5. 20	·0971	8. 13	·00917			
	***	5. 40	·0992	8. 22	·00924			
7. 20	27. 30	5. 45	·0982	8. 50	·00845			
	***	5. 47	·0992	9. 30	·00807			
7. 30	19. 0		***	9. 45	·00824			
	***	6. 8	·0943	10. 10	·00781			
7. 57	25. 0	6. 17	·1025	10. 32	·00819			
8. 21	6. 35	6. 33	·0962	11. 3	·00700			
8. 33	19. 35	6. 45	·0981	12. 45	·00953			
8. 51	1. 0	7. 2	·0955	13. 8	·00962			
	***	7. 3	·0965	17. 0	·01522			
9. 19	19. 40	7. 14	·0951	19. 30	·01535			
	***	7. 23	·0981	22. 0	·01561			
9. 39	15. 30	7. 38	·0991	23. 50	·01444			
9. 44	20. 0	7. 46	·0967					
	***	8. 0	·0974					
10. 12	14. 10	8. 4	·0969					
	***	8. 17	·1006					
10. 57	29. 20	8. 33	·0966					
11. 17	13. 0	8. 52	·1010					
	***	9. 2	·0990					
11. 28	20. 5		***					
	***	9. 10	·1000					
11. 32	16. 25	9. 30	·0959					
	***		***					
11. 51	23. 25	13. 20	·0942					
	***		***					
12. 2	15. 10	13. 57	·0979					
	***		***					
12. 15	19. 0	16. 44	·0966					
	***		***					
12. 28	14. 0	18. 31	·0986					
	***	21. 21	·0959					
12. 31	17. 40	21. 45	·0971					
	***	22. 15	·0954					
12. 40	15. 0		***					
	***	23. 52	·0944					
13. 30	26. 0	23. 59	·0959					
13. 31	22. 0							
	***							
13. 57	29. 20							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 21								
h m	° ′ ″	h m		h m		h m	°	°
14. 12	22. 25. 35							
14. 18	28. 0							
	***							
15. 30	23. 0							
	***							
16. 0	26. 35							
	***							
18. 4	21. 45							
18. 10	24. 0							
	***							
20. 40	13. 5							
	***							
23. 59	25. 30							
Apr. 22		Apr. 22		Apr. 22				
0. 0	22. 25. 25	0. 3	·0943	1. 30	·01090	1. 40	59 ·0	63 ·0
	***		***	2. 1	·00984	3. 40	62 ·5	67 ·0
1. 0	30. 0	2. 32	·0972	3. 28	·01028	9. 40	63 ·0	67 ·0
1. 14	27. 0	2. 52	·0949	6. 20	·00975	21. 40	56 ·0	58 ·5
2. 8	30. 10		***	7. 15	·00939			
	***	6. 9	·0981	8. 24	·00975			
5. 32	23. 10	6. 28	·1000	10. 2	·00920			
	***		***	10. 18	·00965			
6. 13	15. 10	7. 13	·0981	10. 45	·00910			
6. 47	19. 0		***	11. 38	·00934			
7. 9	17. 5	9. 24	·0977	12. 20	·01060			
	***	9. 36	·0984	13. 40	·01106			
9. 13	20. 10	10. 3	·0949	14. 11	·01047			
	***	10. 20	·1060	14. 21	·01074			
9. 50	25. 10	10. 49	·1006	14. 29	·01044			
10. 14	1. 5	11. 46	·0946	14. 41	·01082			
10. 52	26. 5	12. 13	·0975	14. 50	·01065			
11. 16	25. 5	13. 28	·0974	16. 12	·01220			
11. 31	28. 0	13. 50:	·0993	17. 2	·01332			
12. 3	10. 50		***	17. 15	·01309			
12. 24:	16. 10	14. 58	·0935	17. 39	·01341			
	***		***	17. 54	·01319			
12. 51:	13. 0	16. 0	·0988	22. 45	·01601			
	***		***	23. 50	·01521			
13. 20	18. 20	17. 17	·0928					
	***		***					
14. 10	10. 35	19. 46	·0961					
14. 39	29. 5		***					
14. 57	22. 15	21. 14	·0934					
	***	21. 52	·0940					
15. 31	26. 5	22. 32	·0918					
	***	23. 35	·0949					
15. 52	21. 0		***					
16. 0	25. 25							
16. 10	22. 35							
	***							
17. 8	35. 20							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 22								
h m	° ′ ″	h m		h m		h m	°	°
17. 11	22. 32. 0							
	***							
17. 35	43. 15							
	***							
17. 53	34. 0							
	***							
18. 0	38. 0							
	***							
18. 12	31. 0							
	***							
18. 28	32. 55							
18. 32	30. 10							
18. 45	32. 30							
	***							
20. 9	20. 30							
20. 15	23. 0							
	***							
20. 38	17. 0							
	***							
21. 37	21. 30							
	***							
22. 1	20. 0							
	***							
23. 59	27. 0							
	***							
Apr. 23		Apr. 23		Apr. 23				
0. 50	22. 28. 5	1. 3	·0935	1. 10	·01332	1. 40	62 ·0	67 ·0
	***		***	1. 30	·01260	3. 40	65 ·0	70 ·0
2. 18	28. 55	1. 15	·0949	2. 38	·01040	9. 40	62 ·3	68 ·0
	***	4. 38	·0958	3. 20	·01055	21. 40	52 ·0	56 ·5
5. 30	21. 10	5. 5	·0982		***			
	***	5. 31	·0965	6. 40	·01007			
5. 52	23. 0	5. 50	·0989		***			
	***	6. 9	·0974	7. 6	·01049			
6. 6	20. 35	6. 18	·0982		***			
	***	6. 46	·0961	9. 32	·01003			
7. 0	13. 10		***	9. 45	·01025			
	***	7. 43	·1008	10. 9:	·01020			
7. 7	15. 0	8. 2	·0966	15. 25	·01594			
7. 27	5. 0	8. 7	·0979	15. 43	·01573			
7. 31	7. 20	8. 20	·0953	17. 30	·01547			
	***		***	18. 10	·01560			
7. 37	5. 5	10. 11	·0939	20. 30	·01510			
	***		***	23. 15	·01630			
7. 49	14. 35	11. 30	·0965					
8. 0	8. 5	11. 50	·0955					
8. 9	13. 0		***					
8. 20	8. 0	17. 0	·0987					
	***	17. 51	·0970					
9. 1	14. 25	20. 17	·0968					
	***	20. 59	·0957					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 23		Apr. 23						
h m	° ′ ″	h m		h m		h m	°	°
9. 40	22. 10. 0	21. 31	·0976					
10. 1	13. 0		(†)					
10. 19	10. 35							
	***							
10. 48:	16. 0							
	***							
12. 28	25. 20							
	***							
12. 37	23. 50							
	***							
14. 32	21. 0							
	***							
15. 15	28. 5							
	***							
16. 1	24. 0							
	***							
16. 58	25. 10							
	***							
17. 45	21. 55							
	***							
18. 46	26. 0							
	***							
20. 21	19. 20							
20. 39	21. 50							
21. 0	17. 10							
	(†)							
22. 58	18. 30							
	***							
23. 44	22. 15							
Apr. 24		Apr. 24		Apr. 24				
0. 0	22. 22. 45	0. 0	·0949	0. 15	·01585	1. 40	57 ·0	64 ·0
	***	1. 0	·0946	8. 32	·00942	3. 40	59 ·5	66 ·0
0. 30	27. 0	2. 30	·0976	9. 0	·00880	9. 40	59 ·5	64 ·0
	***	3. 8:	·0965	16. 20	·01540	22. 40	50 ·0	55 ·0
1. 8	24. 35		***	19. 30	·01499			
	***	5. 3	·1004	22. 35	·01540			
2. 32	30. 0	5. 28	·0989					
	***	6. 0	·0997					
4. 11	28. 0	6. 22:	·0979					
	***		***					
4. 50	18. 15	8. 20	·0983					
4. 56	20. 35	8. 32	·1013					
5. 0	18. 30	8. 52	·0983					
	***	12. 15	·0990					
6. 1	23. 25	12. 27	·1006					
6. 23	21. 0	13. 30	·0994					
7. 2	19. 35		***					
8. 14	20. 35	21. 15	·0983					
8. 28	17. 20	22. 27	·0951					
8. 43	26. 40	23. 30	·0953					
9. 10	21. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 24								
h m	° ′ ″	h m		h m		h m	°	°
12. 30	22. 24. 25							
	***							
13. 0	30. 20							
	***							
13. 28	25. 10							
	***							
13. 48	26. 30							
	***							
14. 49	16. 5							
	***							
15. 13	15. 40							
	***							
16. 0	21. 50							
	***							
19. 0	20. 30							
	***							
20. 59	14. 55							
	***							
23. 31	26. 30							
	***							
Apr. 25		Apr. 25		Apr. 25				
0. 0	22. 27. 10	0. 13	·0965		(†)	9. 40	57 ·0	62 ·5
	***	3. 16	·0998	9. 40	·01226	21. 40	50 ·5	55 ·0
2. 44	31. 20		***		(†)			
	***	6. 14	·0991	21. 40	·00498			
3. 33	23. 30		***		(†)			
	***	6. 42	·1025					
6. 20	22. 0		***					
6. 40	13. 0	7. 48	·0990					
	***	14. 57	·0988					
7. 49	18. 30	15. 15	·0997					
	***	18. 0	·0989					
9. 58	19. 40	22. 27	·0974					
	***	23. 59	·0973					
12. 45	25. 0							
	***							
13. 16	23. 10							
	***							
13. 58	27. 50							
	***							
14. 50	23. 10							
	***							
15. 9	27. 0							
	***							
15. 58	20. 5							
	***							
18. 40	20. 25							
	***							
18. 54	18. 10							
	***							
19. 48	17. 15							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 25								
h m	° ′ ″	h m		h m		h m	°	°
20. 30	22. 16. 5							
	***							
23. 39	25. 35							
	***							
Apr. 26		Apr. 26		Apr. 26				
0. 5	22. 26. 0	0. 20	·0973	0. 40	·01374	1. 40	56 ·5	61 ·0
0. 55	39. 25	0. 44	·0981	3. 52	·00850	3. 40	59 ·0	65 ·0
	***	1. 13	·0974	5. 22	·00924	9. 40	61 ·5	66 ·0
2. 45	31. 0	2. 44	·0990	7. 30	·00886	21. 40	49 ·5	54 ·0
	***	4. 0	·0971	9. 0	·00905			
4. 46	20. 0	4. 31	·0997	9. 45:	·00875			
	***		***	16. 15	·01560			
7. 47	20. 0	6. 44	·0975	21. 30	·01490			
	***	7. 20	·0987	23. 0	·01512			
8. 34	12. 20	8. 27	·0979					
8. 37	13. 55	8. 57	·0987					
8. 45	13. 5	9. 50	·0976					
	***	13. 24	·0987					
9. 35	23. 20	14. 3	·0988					
	***	15. 4	·0977					
13. 46	23. 40	16. 30	·0988					
	***	16. 59:	·0979					
14. 5	25. 10	18. 17	·0994					
	***	22. 2	·0972					
15. 25	23. 15	23. 59	·0975					
	***							
16. 8	26. 0							
	***							
16. 35	25. 0							
	***							
17. 5	26. 5							
	***							
20. 11	18. 5							
	***							
21. 15	17. 25							
	***							
23. 59	24. 50							
	***							
Apr. 27		Apr. 27		Apr. 27				
0. 52	22. 26. 40	0. 30	·0980	1. 0	·01465	1. 40	53 ·0	57 ·0
	***	3. 1	·0979	2. 30	·01381	3. 40	55 ·0	59 ·5
3. 0	26. 5		***	7. 30	·00999	9. 40	58 ·0	63 ·0
	***	4. 0	·0998	8. 15	·00985	21. 40	51 ·8	54 ·0
3. 50	21. 45		***	10. 40:	·00813			
	***	5. 0	·0990	18. 54	·01495			
5. 0	24. 0		***	21. 10	·01471			
	***	5. 33	·1000	22. 10	·01486			
5. 42	22. 0	5. 45	·0995	23. 45	·01375			
	***		***					
6. 30	21. 5	18. 30	·0995					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 27		Apr. 27						
h m	° ′ ″	h m		h m		h m	°	°
15. 30	22. 22. 30	18. 57	·0980					
	***	23. 58	·0963					
16. 20	26. 20							
	***							
17. 28	21. 40							
	***							
17. 53	23. 30							
	***							
20. 10	14. 10							
	***							
22. 9	24. 0							
	***							
23. 59	26. 25							
Apr. 28		Apr. 28		Apr. 28				
1. 2	22. 28. 0	0. 1	·0966	1. 30	·01130	1. 40	57 ·0	61 ·0
2. 15	30. 0	1. 0	·0964	3. 15	·00865	3. 40	60 ·0	65 ·0
	***	2. 3	·0972	4. 15	·00905	9. 40	62 ·0	66 ·8
3. 27	25. 30		***	7. 10	·00855	21. 40	56 ·0	60 ·5
	***	3. 19:	·0956	8. 20	·00922			
9. 39	20. 30		***	10. 14:	·00873			
	***	7. 8	·0975	20. 15	·01627			
10. 0	18. 5	7. 47	·0964	23. 50	·01520			
	***	9. 37	·0973					
11. 15	17. 30	10. 3	·0985					
	***	20. 29	·0981					
13. 0	22. 25	22. 14	·0975					
	***	22. 31	·0986					
18. 30	21. 0	23. 59	·0973					
	***							
20. 0	17. 20							
	***							
23. 59	26. 20							
	***							
Apr. 29		Apr. 29		Apr. 29				
1. 0	22. 27. 30	0. 58	·0979	0. 30	·01431	1. 40	59 ·5	65 ·0
	***		***	2. 30	·01329	3. 40	61 ·5	66 ·0
2. 9	29. 5	9. 32	·1005	7. 10	·01038	9. 42	63 ·5	68 ·0
	***	11. 0	·0985	7. 45	·01040	21. 40	60 ·0	63 ·5
9. 19	21. 10	13. 20	·0992	9. 57:	·00935			
9. 33	19. 20	15. 4	·0981	17. 35	·01360			
	***	16. 10	·0995	22. 0	·01498			
14. 12	19. 5		***	23. 58	·01479			
	***	21. 17	·0979					
15. 30	21. 50	23. 23	·0947					
	***							
18. 45	19. 45							
	***							
21. 0	17. 25							
	***							
23. 59	29. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 30		Apr. 30		Apr. 30		h m	°	°
h m	° ′ ″	h m		h m				
0. 30	22. 31. 0	0. 23	·0948	0. 30	·01474	1. 40	61 ·0	64 ·0
	***	2. 27	·0973	2. 27	·01410	3. 40	63 ·0	68 ·0
6. 0	21. 5		***	6. 43	·00966	9. 40	64 ·5	69 ·0
7. 30	19. 10	4. 31	·0963	7. 51	·01038	21. 40	57 ·0	61 ·5
8. 10	14. 0		***	9. 40:	·00989			
8. 29	16. 25	5. 2	·0974	17. 30	·01716			
9. 25	15. 30		***	22. 0	·01620			
	***	6. 12	·0962	23. 40	·01651			
12. 0	21. 20		***					
	***	8. 5	·0982					
12. 42	18. 20	8. 42	·0958					
	***	9. 46	·0953					
13. 6	21. 30	12. 57	·0984					
	***	14. 35	·0963					
14. 30	18. 35	17. 38	·0966					
	***	18. 5	·0983					
15. 32	21. 35	19. 3	·0986					
	***	19. 44	·0982					
16. 30	20. 25	23. 30	·0943					
	***							
17. 48	22. 25							
	***							
18. 57	16. 0							
19. 30	18. 40							
20. 0	16. 25							
21. 0	18. 30							
21. 25	16. 5							
	***							
23. 59	28. 30							
May 1		May 1		May 1				
1. 0	22. 31. 30	0. 15	·0953	1. 10	·01650	1. 44	59 ·0	64 ·0
	***	1. 0	·0952	2. 0:	·01610	3. 40	60 ·0	65 ·8
4. 0	28. 5		***	11. 0:	·01079	9. 40	62 ·0	66 ·0
	***	4. 0	·0966	12. 40:	·01230	23. 45	1 ·0	57 ·7
5. 2	30. 0		***	16. 15	·01573			
	***	5. 5	·0986	16. 28	·01570			
6. 58	21. 0		***	16. 40	·01590			
	***	6. 30	·0957	19. 3	·01579			
8. 58	20. 0		***	21. 0	·01535			
	***	7. 40	·0978		***			
10. 41	26. 20	7. 57	·0973	23. 15	·01558			
	***	8. 5	·0980					
13. 10	15. 0	8. 32	·0980					
	***	8. 50:	·0974					
13. 49	17. 5	9. 3	·0978					
	***	9. 34	·0972					
14. 30	12. 30	9. 50	·0978					
	***		***					
15. 24	12. 5	10. 42	·0982					
	***	11. 12	·0974					
16. 6	16. 10		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 1		May 1				h m	°	°
h m	° ′ ″	h m		h m				
16. 30	22. 23. 0	12. 18	·0968					
	***		***					
17. 44	18. 0	13. 15	·0989					
	***		***					
18. 51	19. 25	14. 4	·0966					
	***		***					
19. 27	27. 0	15. 55	·0974					
	***	16. 0	·0978					
19. 52	25. 0	16. 4	·0970					
	***	16. 9	·0975					
20. 8	28. 50	16. 30	·0957					
	***	16. 38	·0966					
21. 10	20. 25	17. 4	·0957					
	***		***					
21. 42	24. 35	18. 30	·0972					
	***		***					
22. 0	21. 30	19. 45:	·0931					
	***		***					
23. 13	29. 0	20. 31	·0963					
	***		***					
		22. 42	·0932					
		23. 0	·0917					
		23. 30	·0917					
		23. 59	·0927					
May 2		May 2		May 2				
0. 0	22. 32. 0	0. 15	·0934	0. 38	·01576	11. 58	52 ·0	58 ·0
	***		***		***	21. 40	49 ·3	53 ·5
0. 14	33. 0	0. 40	·0921	1. 31	·01629			
	***	1. 2	·0954		***			
0. 58	28. 5		***	3. 34	·01514			
	***	1. 40	·0965	4. 10	·01523			
1. 40	31. 15		***	4. 13	·01501			
	***	2. 24	·0938		***			
1. 58	28. 40		***	5. 0	·01481			
	***	3. 17	·0961	7. 32	·01320			
3. 10	31. 35		***	7. 58	·01324			
	***	3. 34	·0955		***			
3. 39	28. 0		***	10. 0:	·01235			
3. 45	28. 35	4. 10	·0988	12. 30	·01302			
	***		***	14. 54	·01582			
4. 16	21. 10	4. 40:	·0967	15. 0	·01574			
4. 31	22. 50	5. 5	·0980	18. 30	·01527			
5. 0	19. 35		***	20. 0	·01508			
5. 52	23. 15	6. 15:	·0971	22. 15	·01505			
7. 50	16. 0		***	23. 10	·01446			
8. 1	19. 20	7. 24	·0979					
8. 12	13. 25	7. 36	·0971					
8. 18	14. 50	8. 0	·0982					
8. 28	13. 0	8. 5	·0977					
8. 38	18. 0	8. 15	·0991					
8. 42	16. 45	8. 19	·0986					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 2		May 2						
h m	° ′ ″	h m		h m		h m	°	°
9.30	22.21. 0	8.30	·0995					
	***	8.35	·0985					
11.35	23. 0		***					
	***	10. 0	·0970					
11.49	29.15		***					
	***	11.36	·0972					
12.10	22.35		***					
	***	12.15	·1000					
12.28	28.20	12.51	·0973					
	***	13. 3	·0974					
13.21	22.50	13.17	·0965					
	***	15.45	·0982					
13.45	26. 0	16.12	·0973					
	***	18. 2	·0975					
14.20	24. 0	23.13	·0951					
	***	23.59	·0950					
15. 3	24.25							
	***							
15.36	28. 0							
	***							
20.30	14. 5							
	***							
23.59	27.25							
May 3		May 3		May 3				
0. 2	22.28. 5	0.13	·0952	0. 5	·01353	1.40	56 ·0	59 ·0
2.30	30.20		***	0.30	·01300	3.40	60 ·0	63 ·5
	***	5.44	·0970	2.43	·00890	9.38	61 ·0	65 ·0
7. 0	21.25		***	4.30	·00955	21.40	50 ·0	55 ·0
	***	8.21	·0964	8. 0	·00853			
14.50	23.35	9. 9	·0973	9. 0:	·00871			
	***	9.57	·0968	15.34	·01571			
15. 6	25.45		***	21.30	·01463			
	***	18.34	·0990	22.30	·01480			
15.40	23.35	18.47	·0982	23.30	·01402			
	***		***					
19. 0	20. 5	22.42	·0953					
	***		***					
20.39	14. 0	23.59	·0955					
	***							
23.28	25.35							
May 4	(†)	May 4		May 4				
6.50	22.19. 0	0.15	·0957	0.45	·01213	1.40	57 ·0	61 ·4
9.20	17.30		***	1.30	·01100	3.40	61 ·0	63 ·0
11.55	22.10	1.32	·0963	2.39	·00874	9.40	60 ·0	63 ·0
	***	1.39	·0971	2.42	·00893	21.40	53 ·0	55 ·4
13.13	21. 0		***	2.45	·00842			
	***	2.35	·0967	2.49	·00865			
18. 0	19.25	2.42	·0995	7.30	·00836			
	***	2.45	·0971	8.30	·00883			
20.18	12.30	2.46	·0978	9.40:	·00875			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 4		May 4		May 4				
h m	° ′ ″	h m		h m		h m	°	°
23.59	22.22.25	3. 0	·0968	16.18	·01585			
	***	3.50	·0969	19.40	·01546			
		5.10	·0969	20.30	·01513			
			***	23. 0	·01511			
		6.33	·0979	23.55	·01425			
			***					
		8. 8	·0978					
			***					
		18.32	·1007					
		18.45	·0995					
			***					
		22.30	·0968					
		23.47	·0967					
May 5		May 5		May 5				
1.15	22.19.20	0. 6	·0972	0.40	·01428	1.40	58 ·3	62 ·4
	***	2. 5	·0981	1.30	·01135	3.40	61 ·5	65 ·0
2. 4	20.35		***	3.12	·00845	9.40	63 ·0	67 ·5
	***	2.17	·0971		***	21.40	54 ·8	57 ·5
8.20	8.55		***	7.10	·00912			
9. 0	10.20	5. 0:	·0974	8.15	·00950			
9.35:	5. 0	5.21	·0991	10.15:	·00925			
	***	5.33:	·0978	17. 0	·01630			
12. 0	13.30	6. 2	·0993	18.45	·01564			
	***	6.16	·0986	20.15	·01612			
15. 5:	12. 0		***	22.45	·01580			
	***	6.43	·1000	23.50	·01530			
15.45:	14.35		***					
	***	7. 9	·0976					
16.20:	11.10	8. 0	·0972					
	***	8.57	·0981					
17.52	11. 5	10.27	·0974					
	***		***					
18.43	12.35	17.31	·1000					
	***	18. 0:	·0991					
20.10	4.40	19. 8	·0996					
	***	23. 7	·0971					
23.59	13.45	23.57	·0975					
May 6		May 6		May 6				
1. 0	22.15.25	0.30	·0980	1.30	·01356	1.40	59 ·0	61 ·5
8.30	10.30	5.10	·0987	7.15	·00846	3.40	60 ·0	63 ·0
8.46	12. 0	5.22	·0997	9. 0	·00875	9.40	60 ·9	65 ·0
	***	6. 4	·0988	9.42	{ ·00860	21.40	55 ·0	59 ·0
9.35	8. 0	9. 0	·0990		{ ·01130			
10.30	10.55	9.30	·0978	16.42	·01640			
10.54	7. 5	10.31	·0966	17.20	·01626			
11.19	7. 5	11. 2	·0987	18.20	·01660			
	***	11.27:	·0981	20.50	·01631			
11.41	10.50	11.48	·0990	21.40	{ ·01645			
	***	12.21	·0984		{ ·01570			
12. 0:	7.10	13. 5	·0994	23. 0	·01561			
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 6		May 6		May 6		h m	o	o
h m	o ′ ″	h m		h m				
12.57:	22. 12. 25	14. 2:	·0987	23.40	·01480			
	***	14.42	·1003					
13.49:	9.20	15.45	·0989					
14.18:	14. 0		***					
15. 0	10. 0	16.42	·0996					
16. 7	13.10		***					
17.31	10.10	18.11	·0974					
	***		***					
18.40	15.30	18.50	·0988					
	***	20.52	·0963					
19.30	11. 0	21.15	·0971					
19.50	12.35	22.24	·0961					
	***	22.58	·0965					
20.58	9.10	23.22	·0956					
21.34	13.50	23.40:	·0964					
	***	23.51:	·0957					
22.30	10.55							
	***							
23.59	14. 0							
	***							
May 7		May 7		May 7				
0.18	22.18. 0	0.10	·0965	0.25	·01342	1.40	61 ·3	65 ·5
1. 0	19.45	0.42	·0960	1. 0	·01241	3.40	64 ·0	68 ·0
	***	1.22:	·0939	2.54	·00931	9.40	65 ·0	69 ·0
7.22	10. 0	2.22	·0969		***	21.40	57 ·5	61 ·0
	***		***	5.33	·00950			
7.45	3.45	3.31	·0979		***			
	***	4. 2	·0971	6.15	·00925			
8.32	12.30		***	6.31	·00936			
	***	5.32	·0987	6.48	·00911			
8.54	10. 0		***	8.10	·00883			
	***	6.25	·0973	9. 0:	·00908			
9.23	14. 0	6.30	·0989	17.21	·01691			
	***	6.42	·0972		***			
9.33	12. 0	7.27	·0985	19.50	·01636			
	***	8.14	·0973	22.20	·01681			
10. 2	12. 5		***	22.31	·01670			
	***	9.14	·0973	23.45	·01610			
10.10	16. 0	9.28	·0968					
	***	9.44	·0981					
10.27	9.50	10. 6	·0974					
	***	10.33	·0984					
10.44	16. 0		***					
	***	12.30	·0991					
13.33	9.40		***					
	***	13. 8	·0981					
14.23	14.25		***					
	***	19.22	·1000					
14.41	11.25		***					
	***	19.46	·0983					
15.23	10.20	19.55	·0991					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 7		May 7		h m		h m	o	o
h m	o ′ ″	h m						
16. 0:	22. 14. 0	20.28	·0977					
	***	21.38	·0977					
16.28	9.30	22.27	·0969					
	***	22.43:	·0975					
16.44	13.25	23. 6:	·0963					
	***	23.31:	·0972					
16.57	10.35	23.58	·0957					
	***		(†)					
17.13	10. 0							
	***							
17.31	12. 5							
	***							
17.52	7.10							
	***							
18.10	11.25							
	***							
18.53	7.35							
	***							
19.19	8.30							
	***							
20. 0	12. 0							
	***							
20.32	10. 0							
	***							
21. 9	13.35							
	***							
22.32	12. 0							
	***							
23.59	17. 0							
May 8		May 8		May 8				
0.36	22.21. 0	2.11	·0963	0.25	·01485	1.40	63 ·0	68 ·0
0.53	23.55		***	1. 0	·01430	3.40	67 ·0	72 ·0
1. 3	19.35	2.45	·0953		***	9.40	69 ·0	74 ·0
	***	2.59	·0971	3.11	·01030	22.40	61 ·0	63 ·5
2. 0	19. 0		***		***			
	***	3. 9	·0961	3.20	·01053			
3.24	21.40	3.16	·0979		***			
3.33	19.30	3.32	·0953	3.32	·01044			
3.59	21. 0		***		***			
	***	3.59	·0977	4. 0	·01065			
5.46	12.50		***	5.40	·01038			
6.30	14.35	5. 1	·0948	7.30	·00954			
8.30	22.11.50		***	8.40	·00971			
9.26	21.59.50	5.16	·0961	10. 3:	·00945			
10. 0	22.10. 0		***	15.46	·01601			
	***	6.50	·0954	16.11	·01573			
11.29	12. 5		***	22. 0	·01585			
	***	8.36	·0967	23.15	·01570			
11.42	18. 0	9. 6	·0955					
	***	9.26	·0973					
11.57	15.10		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 8		May 8						
h m	° ′ ″	h m		h m		h m	°	°
12. 20	22. 19. 0	9. 47	·0978					
	***	10. 1	·0962					
13. 3	8. 35		***					
	***	11. 45	·0953					
13. 50	17. 10	12. 28	·0975					
	***	12. 45	·0962					
15. 16	10. 0	13. 14:	·0967					
	***	13. 42	·0953					
16. 42	18. 25	14. 29	·0971					
	***		***					
18. 10	9. 30	16. 18	·0953					
	***	16. 45	·0969					
20. 0	5. 10		***					
	***	19. 1	·0983					
23. 27	14. 5		***					
	***	23. 59	·0949					
May 9		May 9		May 9				
0. 0	22. 17. 0	0. 9	·0945	0. 0	·01532	9. 40	71 ·0	75 ·0
	***		***	1. 0	·01460	21. 40	61 ·0	64 ·0
1. 30	19. 5	0. 55	·0961	4. 41	·00913			
	***	0. 57	·0954	6. 0	·00951			
7. 0	10. 25		***	7. 30	·00930			
	***	1. 20	·0950	8. 40	·00966			
7. 32	3. 20		***	10. 30:	·00926			
	***	3. 10	·0973	12. 20	·01012			
8. 17	10. 30	3. 20	·0961	12. 40:	·01008			
	***	4. 18	·0972	17. 5	·01610			
9. 14	10. 5	4. 59:	·0981	20. 27	·01566			
	***	5. 16	·0965	22. 30	·01601			
12. 17	17. 0		***					
	***	7. 20	·0969					
13. 18	10. 35	7. 41	·0988					
	***	7. 50	·0981					
17. 43	13. 0	7. 59	·0986					
	***	8. 16	·0968					
18. 18	16. 20		***					
	***	10. 5	·0961					
19. 21	11. 0		***					
	***	12. 1	·0971					
19. 28	12. 45	12. 18	·0988					
	***	12. 49	·0971					
20. 30	6. 0		***					
21. 16	10. 35	14. 2	·0980					
21. 32	8. 25	14. 42	·0972					
	***		***					
23. 59	14. 15	20. 10	·0985					
			***					
		23. 15	·0957					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 10		May 10		May 10				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 18. 30	1. 40	·0953	0. 50	·01542	1. 40	65 ·0	68 ·0
	***	2. 5	·0966	1. 30	·01493	3. 40	65 ·0	67 ·0
5. 48	11. 55	2. 57	·0967		***	9. 40	62 ·8	67 ·0
	***	3. 15:	·0975	3. 0	·01409	21. 40	56 ·5	58 ·8
6. 45	6. 10	3. 33	·0967		***			
	***	3. 46	·0980	5. 38	·01480			
9. 25	13. 55	3. 59	·0974	5. 52	·01503			
	***	4. 8	·0992		***			
9. 48	6. 20	4. 20	·0972	6. 12	·01489			
	***	5. 2	·0993	6. 26	·01500			
10. 31	14. 50	5. 31	·0977	6. 40	·01497			
	***	5. 51	·1003		***			
11. 0	10. 30	6. 10	·0972	7. 2	·01512			
	***		***	7. 34	·01500			
12. 32	14. 0	6. 38	·0971	8. 30	·01538			
	***		***	9. 44	·01550			
13. 30	23. 0	7. 3	·0996	11. 8	·01640			
	***		***	13. 30:	·01552			
14. 53	11. 25	8. 15	·0982	14. 50	·01470			
	***	9. 53	·1011	15. 30	·01490			
17. 6	24. 0		***	16. 5	·01480			
	***	10. 34	·0985	16. 20	·01488			
18. 5	14. 35	14. 54	·0988	17. 40	·01430			
	***		***	19. 12	·01450			
20. 8	7. 25	15. 16	·0978		***			
	***	15. 47	·0993	20. 30	·01490			
21. 36	8. 35	16. 20	·0973	23. 30	·01460			
23. 59	15. 25		***					
		18. 8	·0985					
		18. 20	·0997					
			***					
		20. 12	·0975					
		22. 0	·0967					
		22. 10	·0979					
		22. 20	·0967					
		22. 28	·0977					
		22. 32	·0969					
		22. 39	·0977					
		23. 8	·0959					
		23. 16	·0965					
		23. 49	·0955					
May 11		May 11		May 11				
0. 39	22. 15. 5	0. 9	·0965	0. 45	·01358	1. 40	61 ·0	65 ·5
	***	0. 47	·0967	1. 30	·01287	3. 40	62 ·0	65 ·0
2. 12	16. 0	1. 3	·0964	7. 0	·00718	9. 40	61 ·5	64 ·0
	***	2. 13	·0951	8. 42:	·00796	21. 40	56 ·5	60 ·0
6. 0	11. 35		***	19. 42	·01474			
	***	4. 43	·0970	19. 44	·01470			
7. 16	11. 30	5. 0:	·0963	19. 55	·01490			
7. 40	8. 0	5. 12	·0969	20. 4	·01480			
8. 2	11. 0	5. 28:	·0965	21. 36	·01432			
	***							

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May 11d to May 22d. Workmen were present in the Observing-room, and caused many losses of Registers for short times during the day hours.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 11		May 11						
h m	° ′ ″	h m		h m		h m	°	°
12. 27	22. 14. 0	5. 41	·0975					
	***	5. 59	·0966					
12. 57	18. 0	6. 51	·0969					
	***	7. 0	·0979					
13. 46	14. 0	7. 31	·0967					
14. 30	13. 25	11. 6	·0973					
15. 54	17. 5	12. 12	·0986					
16. 40	12. 0	13. 20	·0982					
17. 0	13. 55	14. 20	·0990					
17. 42	11. 0	15. 10	·0982					
19. 29	11. 45	16. 12	·0990					
19. 57	7. 35	16. 43	·0979					
23. 59	15. 5	17. 58	·0994					
			***					
		19. 40	·0986					
		21. 35	·0996					
		23. 32	·0983					
May 12		May 12		May 12				
1. 1	22. 24. 30	1. 0	·0972	2. 9	·00865	1. 40	59 ·0	63 ·5
	***	2. 0	·0966	3. 35	·00872	3. 40	61 ·0	66 ·0
3. 15	28. 5	3. 0	·1000	4. 16	·00821	9. 40	62 ·0	67 ·0
3. 51	24. 0	3. 5	·0994	4. 33	·00840	21. 40	60 ·0	64 ·0
4. 30	26. 55	3. 26	·0984	4. 40	·00960			
5. 38	21. 0	3. 36	·0996	6. 42	·00925			
6. 10	22. 35	4. 0	·0973	8. 0	·00960			
	***	4. 15	·0976	10. 10:	·00856			
8. 42	20. 15	4. 40	·1002	18. 58	·01290			
9. 3	21. 10	5. 22	·0984		·01136			
9. 15	18. 30	5. 40	·0998	23. 30	·01060			
9. 30	18. 0		***					
10. 3	22. 0	7. 35	·0982					
10. 28	20. 0		***					
	***	8. 0	·0990					
11. 13	23. 10	8. 27	·0978					
	***		***					
17. 36	21. 30	9. 10	·0975					
17. 47	20. 5	9. 30	·0988					
18. 3	23. 0	10. 4	·0977					
	***	14. 55	·0983					
18. 40	19. 35		***					
	***	18. 20	·0951					
20. 16	17. 25		***					
	***	19. 18	·0960					
23. 59	25. 25		***					
		19. 45	·0974					
			***					
		20. 0	·0966					
			***					
		21. 12	·0960					
			***					
		21. 30	·0954					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		May 12						
h m	° ′ ″	h m		h m		h m	°	°
		21. 38	·0960					
			***					
		23. 59	·0959					
			***					
May 13		May 13		May 13				
0. 0	22. 25. 40	1. 0	·0965	1. 30	·00983	1. 40	62 ·5	66 ·0
	***		***	4. 40	·00890	3. 40	62 ·0	66 ·4
3. 8	26. 20	3. 45	·0952	6. 0	·00999	9. 40	64 ·0	68 ·0
3. 24	28. 0		***	8. 0:	·00914	21. 40	60 ·0	63 ·0
4. 27	24. 30	5. 5	·0966	15. 0:	·01333			
	***		***	19. 18	·01304			
9. 0	21. 0	5. 28	·0958	21. 50	·01276			
	***		***		·01210			
11. 11	25. 45	7. 24	·0966	23. 0	·01185			
11. 31	24. 30		***	23. 40	·01116			
	***	7. 50	·0975					
17. 42	23. 10	8. 8	·0966					
18. 18	21. 55	8. 50	·0957					
	***		***					
19. 15	15. 0	10. 45	·0967					
	***		***					
20. 48	17. 35	12. 3	·0962					
	***		***					
23. 58	28. 0	15. 27	·0971					
	***	15. 30	·0980					
			***					
		16. 32	·0978					
			***					
		17. 40	·0961					
			***					
		18. 5	·0970					
			***					
		19. 0	·0960					
			***					
		19. 28	·0942					
			***					
		22. 30	·0932					
			***					
		23. 59	·0940					
			***					
May 14		May 14		May 14	(†)			
0. 0	22. 28. 0	1. 18	·0946	1. 40	·01029*	1. 40	63 ·0	68 ·0
	***		***		(†)	3. 40	63 ·0	68 ·0
2. 51	26. 0	2. 30	·0941	3. 40	·00891*	9. 37	62 ·5	67 ·0
	***	2. 53	·0965		(†)	21. 40	59 ·5	61 ·6
4. 15	21. 35		***	9. 37	·00877*			
	***	4. 12	·0956		(†)			
7. 14	20. 0		***	21. 40	·00877*			
	***	5. 3	·0968		(†)			
9. 20	25. 0		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 14		May 14						
h m	° ′ ″	h m		h m		h m	°	°
12. 30	22. 22. 20	9. 8	·0973					
	***		***					
14. 37	24. 0	9. 57	·0968					
14. 58	26. 20		***					
	***	11. 57	·0978					
19. 12	17. 35		***					
	***	12. 45	·0972					
22. 12	23. 40		***					
22. 27	27. 10	17. 36	·0986					
23. 0	29. 0		***					
23. 1	32. 50	19. 12	·0967					
23. 12	18. 20		***					
23. 14	23. 30	21. 9	·0968					
23. 15	20. 8		***					
23. 16	32. 17	21. 30	·0952					
23. 17	17. 30	21. 58	·0965					
23. 21	40. 10	22. 8	·0949					
23. 27	19. 15		***					
23. 34	20. 5	22. 16	·0966					
23. 50	23. 25		***					
	***	23. 59	·0965					
23. 59	20. 0		***					
May 15		May 15		May 15				
0. 0	22. 36. 0	0. 45	·0962	4. 0	·01010	1. 40	59 ·0	64 ·0
0. 5	6. 30		***	6. 15	·00932	3. 40	63 ·5	66 ·0
0. 8	36. 55	3. 57	·0965	8. 30	·01047	9. 40	64 ·0	68 ·0
0. 12	26. 20		***	10. 5:	·00980	22. 40	63 ·0	64 ·0
0. 13	39. 20	4. 40	·0983	14. 30	·01446			
0. 14	25. 0		***	16. 30	·01410			
	***	5. 20	·0982	17. 30	·01420			
0. 17	30. 40		***	19. 15	·01342			
0. 28	23. 30	5. 38	·0990	20. 50	·01390			
0. 29	30. 30		***	23. 10	·01080			
0. 55	28. 50	5. 55	·0984					
1. 0	29. 0		***					
	***	6. 17	·0983					
5. 0	22. 35		***					
	***	6. 57	·0998					
20. 0	18. 5	7. 24	·0982					
	***	10. 0	·0993					
23. 16	28. 0	13. 0	·0992					
		18. 30	·1012					
			***					
		19. 2	·0993					
		19. 8	·1000					
			***					
		19. 27	·0991					
		23. 18	·0978					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 16		May 16		May 16				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 29. 5	0. 0	·0979	0. 0	·00963	10. 52	70 ·2	75 ·0
	***		***	0. 28	·00913	21. 40	61 ·5	66 ·0
7. 0	19. 30	4. 30	·0975	1. 12	·00991			
	***	4. 45	·0980	3. 57	·01107			
17. 0	19. 15	4. 52	·0966	8. 20	·01053			
20. 0	15. 10		***	9. 8	·01075			
	***	6. 45	·0978	10. 30:	·01040			
23. 58	25. 0	10. 30	·0982	14. 54	·01583			
		13. 50	·1000	16. 10	·01567			
		14. 40	·1004	17. 10	·01586			
		19. 45	·1005	19. 40	·01544			
		23. 34	·0990	20. 30	·01550			
		23. 59	·0993	20. 42	·01535			
				21. 17	·01520			
				21. 22	·01500			
				21. 35	{ ·01498			
					{ ·01440			
				23. 0	·01450			
May 17		May 17		May 17				
1. 0	22. 27. 10	0. 57	·0998	0. 58	·01465	1. 40	62 ·0	65 ·0
1. 51	23. 0	2. 2	·0996	1. 40	·01473	3. 40	63 ·0	67 ·0
2. 40	27. 35	3. 27	·1008	2. 40	·01436	9. 40	66 ·0	68 ·0
	***	4. 36	·1000	3. 2	·01466	21. 40	59 ·0	64 ·0
4. 57	25. 0		***	6. 0	·01300			
	(†)	8. 52	·1012	10. 0:	·01080			
6. 24	19. 30	9. 1	·1004	15. 47	·01494			
	***	9. 45	·1013	17. 0	·01485			
9. 38	22. 0		***	17. 35	·01460			
	(†)	12. 46	·1012	18. 14	·01482			
10. 30	8. 35	13. 1	·1019	21. 57	·01423			
15. 0	7. 25	13. 30	·1008					
18. 48	11. 5		***					
	***	14. 23	·1016					
20. 10	15. 45	15. 8	·1007					
	(†)	17. 6	·1012					
		18. 23	·1002					
		20. 22	·0998					
		21. 0	·1015					
		21. 38	·1007					
			(†)					
May 18		May 18		May 18				
0. 44	22. 18. 50	1. 15	·0983	1. 0	·01003	1. 40	65 ·8	69 ·7
	***		***	1. 45	·00885	3. 40	68 ·0	74 ·0
2. 7	2. 5	4. 30	·0972	2. 40	·00967	9. 40	71 ·0	75 ·0
	***	5. 25	·0993	6. 10	·01000	21. 40	65 ·0	66 ·0
3. 10	24. 0		***	9. 0	·01035			
3. 57	23. 10	8. 15	·0981	10. 30	·00930			
4. 38	28. 50	8. 30	·0971	11. 0	·00950			
	***	9. 33	·0973	11. 27:	·00924			
9. 45	11. 35	10. 1	·0986	16. 46	·01553			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 18		May 18		May 18				
h m	° ′ ″	h m		h m		h m	°	°
10. 8	22. 14. 25	10. 51	·0970	17. 30	·01580			
13. 0	14. 10		***	20. 0	·01550			
17. 30	22. 0	12. 28	·0974	21. 30	·01515			
	***	12. 59	·0990	23. 40	·01540			
20. 3	5. 30	13. 20	·0979					
	***	14. 45	·0992					
20. 26	22. 5. 25	15. 31	·0971					
21. 25	21. 56. 30	15. 55	·0986					
	(†)	18. 39	·0978					
		18. 54:	·0969					
		19. 3	·0977					
		22. 30	·0971					
		23. 59	·0994					
May 19	(†)	May 19		May 19				
6. 12	22. 23. 35	0. 31	·0983	2. 0	·01520	1. 48	64 ·0	67 ·5
	***	0. 43	·0993	3. 0	·01445	3. 40	67 ·0	69 ·0
8. 34	14. 5	1. 42	·1000	6. 0	·01080	9. 40	67 ·5	71 ·5
9. 39	0. 20	2. 51	·0981	8. 45	·00975	21. 40	62 ·5	63 ·0
10. 0	22. 1. 40	3. 15	·1003	11. 0:	·00846			
10. 20	21. 54. 50	3. 58	·0996	14. 17	·01103			
10. 32	58. 5	4. 5	·0983	16. 6	·01426			
10. 50	21. 54. 30	4. 16	·0991	17. 2	·01320			
11. 14	22. 2. 0	4. 47:	·0964	17. 13	·01350			
11. 28	0. 35	5. 17	·0997		***			
	***	5. 46:	·0969	19. 0	·01323			
12. 1	8. 0		***	20. 40	·01394			
12. 30	6. 50	6. 46	·0995	21. 2	·01393			
13. 2	10. 35	7. 32	·0986	21. 21	·01441			
13. 17	9. 5	7. 43	·0997	21. 38	·01431			
13. 52	18. 0		***	22. 15	·01436			
14. 56	4. 35	10. 21	·0979	23. 15	·01333			
16. 12	17. 5	10. 39	·0992					
17. 5	11. 0	10. 50	·0990					
17. 29	21. 0	11. 6	·0992					
17. 45	17. 30	11. 54	·0974					
18. 0	17. 15	12. 49	·0983					
18. 7	20. 0	13. 4:	·0978					
18. 40	23. 20	13. 22	·0989					
	***	13. 33	·0979					
19. 43	11. 30	15. 10	·0998					
20. 8	14. 0	15. 46	·0989					
20. 23	9. 0		***					
	***	16. 52	·1015					
20. 35	13. 0	17. 28	·0983					
21. 4	10. 30	17. 54	·1015					
21. 50	25. 10		***					
22. 10	23. 0	18. 22	·1015					
	(†)	18. 59	·0979					
		19. 28	·0995					
			***					
		20. 39	·0967					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 19		May 19						
h m	° ′ ″	h m		h m		h m	°	°
		21. 15	·0920					
		21. 27	·0930					
		21. 32	·0921					
		21. 46	·0919					
		22. 35	·0966					
		23. 10	·0954					
			***					
		23. 36	·0963					
		23. 59	·0949					
May 20		May 20		May 20				
12. 0	22. 17. 0	0. 22	·0969	1. 30	·00920	1. 40	67 ·0	71 ·0
	***		(†)	1. 45	·00870	3. 40	69 ·0	72 ·0
12. 30	21. 55	2. 14	·0935	2. 34	·00966	9. 40	67 ·0	72 ·0
	***	2. 29	·0970	2. 41	·00945	21. 40	58 ·0	62 ·0
13. 2	17. 0	2. 36	·0952	3. 0	·00964			
	***	2. 40	·0961	4. 0	·00914			
13. 17	20. 10	2. 54	·0954	6. 21	·00951			
	***	3. 2	·0966	6. 50	·00921			
13. 43	11. 8	3. 9	·0961	7. 27	·00971			
	***		***	7. 37	·00950			
15. 57	23. 7	3. 33	·0984	7. 50	·01000			
	***		***	8. 30	·00941			
18. 47	19. 45	3. 47	·0965	9. 46	·00933			
	(†)		***	10. 10	·00870			
		4. 5	·0985	10. 23:	·00928			
		4. 15	·0969	12. 30	·01120			
			***	13. 30	·01141			
		4. 32	·0979	15. 15	·01432			
			***					
		4. 51	·0972					
			***					
		5. 28	·1014					
			***					
		5. 44	·0970					
		6. 30	·1019					
		6. 49	·0975					
			***					
		7. 17	·1009					
		7. 31	·0957					
		7. 46	·1016					
		8. 25	·0972					
		8. 33	·0977					
		8. 45	·0969					
			(†)					
		9. 22	·0972					
		9. 37	·0973					
		9. 46	·0991					
		10. 8	·0947					
		10. 17	·1015					
			***					
		11. 2	·0961					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		May 20						
h m	° ′ ″	h m		h m		h m	°	°
		12. 3	·0982					
		12. 12	·0975					
		13. 8	·1004					
		13. 31	·0968					
		13. 54	·0991 ***					
		15. 40	·0977 ***					
		17. 45	·0992 ***					
		18. 32	·0968 ***					
		20. 33	·0984					
		21. 45	·0968 ***					
		23. 47	·0993					
May 21		May 21		May 21	(†)			
1. 10	22. 24. 20 ***	1. 20	·0969	3. 40	·00792*	1. 57	57 ·0	
		2. 2	·0992		(†)	3. 40	59 ·5	64 ·0
7. 10	16. 0	3. 32	·0993 ***	9. 40	·00955*	9. 40	60 ·5	66 ·0
7. 25	5. 15 ***				(†)	21. 40	57 ·0	59 ·0
		5. 32	·1014	21. 40	·00768*			
9. 38	18. 0 ***	7. 0	·1023		(†)			
		7. 17	·1008					
11. 0	9. 50 ***	7. 38	·1040					
		7. 53	·1019					
13. 14	24. 25 ***	8. 0	·1026 ***					
14. 56	14. 5 ***	9. 2	·1002					
		10. 47	·1007					
16. 7	17. 8 ***	11. 3	·1037					
		11. 53	·1000 ***					
16. 50	12. 25 ***	13. 20	·1018 ***					
17. 17	16. 0 ***	13. 58	·1005					
18. 45	20. 20 ***	14. 52	·1014					
		15. 17	·1000					
21. 8	13. 50 ***	17. 53	·1000					
		18. 56:	·0979 ***					
23. 51	22. 25							
		20. 15	·1007					
		21. 57	·1000					
		22. 40	·0986					
		23. 51	·0983					
May 22		May 22		May 22	(†)			
0. 36	22. 24. 8 ***	0. 13	·0982 ***	1. 40	·00931*	1. 40	59 ·0	62 ·0
					(†)	3. 40	61 ·0	63 ·0
4. 43	20. 30 ***	2. 46	·0994	3. 40	·01064*	9. 40	62 ·0	64 ·0
		3. 0:	·0987		(†)	22. 40	57 ·0	59 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 22		May 22		May 22				
h m	° ′ ″	h m		h m		h m	°	°
5. 17	22. 12. 14 ***	3. 22	·1005 ***	9. 40	·01069* (†)			
6. 47	16. 36 (†)	5. 20	·1006	21. 40	·00746* (†)			
		5. 37	·1023					
13. 23	14. 0 ***	6. 21	·1006 ***					
14. 8	20. 7 ***	7. 32	·1009					
		7. 44	·0998					
18. 47	12. 45 (†)	9. 58	·0997 ***					
21. 8	12. 55 ***	10. 45	·0984					
		12. 12	·0992					
23. 31	20. 0	12. 52	·1012					
		14. 3	·0988					
		14. 52	·1002					
		19. 28	·1006 ***					
		20. 59	·0985					
		23. 40	·0984					
May 23	(†)	May 23		May 23				
9. 40	22. 15. 56* (†)	1. 5	·1000	0. 30	·01210	9. 40	62 ·0	64 ·0
		2. 13	·0991	7. 10	·00870	21. 40	55 ·0	57 ·0
21. 40	13. 53* (†)	3. 53	·1003	8. 24	·00933			
		7. 33	·0990	9. 30	·00915			
		10. 32	·1010	11. 15:	·00838			
		11. 33	·0990	17. 8	·01300			
		13. 3	·0998	20. 30	·01260			
		14. 15	·0991	22. 31	·01190			
		14. 47	·1003 ***	23. 30	·01180			
		15. 40	·0987 ***					
		16. 20	·1000 ***					
		16. 45	·0994 ***					
		18. 17	·1014					
		18. 45	·1005					
		19. 12	·1015					
		19. 51	·1007					
		20. 22	·1021					
		23. 43	·0983					
May 24		May 24		May 24				
1. 25	22. 25. 10 ***	0. 0	·0985	1. 10	·01092	1. 40	58 ·0	61 ·0
		3. 46	·0991	1. 59	·00980	3. 40	62 ·0	64 ·0
2. 32	31. 0 ***	5. 55	·0993	2. 18	·00940	9. 40	65 ·0	67 ·0
		6. 15	·1003	2. 20	·00831	21. 40	59 ·0	61 ·5
8. 43	14. 20 ***	11. 45	·0988	6. 20	·01032			
		12. 30	·1000	10. 0:	·00935			
12. 30	23. 0 ***	14. 43:	·0981	16. 20	·01420			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

May 23 and 24. The Photographic Sheets were bad, owing to some error in their preparation.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 24		May 24		May 24				
h m	° ′ ″	h m		h m		h m	°	°
13. 25	22. 21. 0	16. 42	·1012	22. 0	·01348			
	***	19. 8	·0994	23. 0	·01359			
16. 0	22. 55	19. 45	·1002					
	***	23. 59	·0972					
18. 50	21. 30							
	(†)							
23. 30	24. 30							
	***							
23. 59	25. 50							
May 25		May 25		May 25				
1. 2	22. 24. 25	0. 52	·0965	1. 0	·01279	1. 40	62 ·8	65 ·0
	***	2. 0	·0961	1. 30	·01203	3. 40	64 ·0	66 ·0
6. 4	19. 5	4. 43	·0979	3. 3	·00876	9. 40	64 ·8	66 ·0
	***		***	7. 0	·00905	21. 40	57 ·0	59 ·0
7. 20	20. 0	5. 47	·0991	9. 0:	·00930			
	***	10. 43	·0989	16. 12	·01430			
8. 13	17. 10	11. 0	·0997	19. 0	·01419			
	***	13. 52	·0988	22. 40	·01349			
10. 0	20. 30	19. 20	·1006		·01320			
	***	23. 59	·0984	23. 45	·01324			
15. 12	19. 10							
	***							
16. 0	21. 5							
	***							
20. 30	16. 10							
	***							
23. 59	24. 0							
May 26		May 26		May 26				
0. 32	22. 25. 10	0. 12	·0983	1. 0	·01316	1. 40	58 ·8	61 ·0
4. 0	25. 5	1. 42	·0997	7. 0	·01063	3. 40	60 ·0	62 ·0
	***	2. 59	·0995	10. 0:	·01032	9. 40	57 ·0	59 ·9
6. 30	19. 20		***	17. 0	·01280	21. 40	57 ·0	59 ·0
	***	5. 33:	·1013	18. 44	·01350			
7. 12	20. 35	6. 44	·1004	21. 43	·01340			
	***	8. 7	·1021	22. 27	·01323			
16. 11	14. 10	10. 40	·1000		·01304			
16. 53	20. 30		***	23. 46	·01272			
	***	14. 32	·1014					
18. 27	13. 30		***					
18. 41	15. 0	16. 35:	·0993					
18. 55	13. 20	17. 27	·1014					
	***	18. 12	·1010					
20. 0	21. 55		***					
21. 7	20. 20	20. 30	·0964					
21. 21	22. 25		***					
21. 50	19. 35	22. 45	·0956					
	***	23. 20	·0971					
23. 59	29. 15	23. 59	·0971					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 27		May 27		May 27				
h m	° ′ ″	h m		h m		h m	°	°
0. 13	22. 29. 20	0. 13	·0971	0. 30	·01325	1. 40	58 ·0	61 ·0
	***	1. 45	·0993	1. 30	·00835	3. 40	60 ·0	62 ·0
3. 32	29. 30	2. 46	·0983	2. 32	·00755	9. 40	60 ·0	63 ·0
	***	3. 8:	·0991		***	21. 40	56 ·0	58 ·0
4. 29	30. 0	3. 31	·0981	5. 14	·00875			
4. 38	27. 35	4. 3	·1000		***			
	***	4. 15	·0993	5. 24	·00853			
5. 11	30. 20	4. 25	·1002		***			
5. 24	26. 25	4. 38:	·0993	6. 1	·00890			
	***	5. 13	·1031		***			
6. 10	31. 50	5. 29	·0993	6. 10	·00917			
	***		***		***			
6. 32	19. 0	6. 14	·1064	6. 22	·00913			
6. 41	33. 20	6. 28	·1035		***			
6. 55	20. 20	6. 33	·1062	6. 32	·00927			
7. 5	23. 15	6. 47	·0998		***			
7. 23	19. 15	7. 31	·1047	6. 45	·00871			
7. 39	25. 0		***		***			
	***	8. 39	·1021	6. 58	·00908			
8. 13	20. 35	8. 51	·1044		***			
	***	9. 10	·1017	8. 45	·00962			
8. 52	4. 0	9. 25	·1072	9. 3	·00910			
8. 59	9. 5	10. 8	·0991	9. 21	·00881			
9. 3	4. 10	10. 41	·1023	10. 0	·00740			
9. 22	5. 40		***	10. 40	·00830			
	***	11. 58	·0983		***			
9. 45	24. 50	12. 7	·1010	11. 35	·00842			
	***	12. 22	·0973	11. 58	·00752			
10. 30	8. 25		***	12. 6	·00790			
	***	13. 58	·1009	12. 24:	·00732			
10. 59	15. 35	14. 17	·0988		***			
	***		***	19. 30	·01393			
11. 28	15. 0	18. 0	·0977		***			
	***	18. 23	·0991	23. 20	·01335			
11. 47	28. 0		***					
	***	19. 9	·0982					
12. 2	22. 0	19. 21	·0994					
	***		***					
12. 17	37. 0	23. 1	·0945					
	***	23. 21	·0964					
13. 36	5. 0							
	***							
14. 13	14. 5							
	***							
15. 31	9. 20							
	***							
16. 8	21. 0							
	***							
17. 17	16. 0							
	***							
18. 42	18. 30							
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 27								
h m	° ′ ″	h m		h m		h m	°	°
19. 16	22. 12. 0							
19. 30	19. 0							
19. 38	14. 0							
19. 48	18. 0							
	***							
20. 10	14. 0							
20. 14	16. 10							
20. 22	13. 25							
20. 34	16. 55							
20. 51	13. 45							
21. 9	19. 10							
	***							
21. 35	16. 40							
21. 41	18. 35							
	***							
21. 58	14. 5							
	***							
23. 10	26. 0							
23. 30	24. 20							
May 28		May 28		May 28				
0. 0	22. 27. 0	0. 26	·0960	0. 0	·01290	1. 40	59 ·0	62 ·0
	***	1. 38	·0970	1. 9	{ ·01187	3. 40	61 ·0	63 ·0
1. 52	33. 50	2. 13	·0939		{ ·01100	9. 40	62 ·5	66 ·0
	***	2. 42	·0981	3. 15	·00898	21. 40	57 ·0	59 ·0
2. 51	23. 25		***	6. 39	·00899			
3. 27	27. 20	3. 12	·0977	7. 1	·00920			
	***	3. 23	·0993	12. 0:	·00848			
6. 23	21. 0	3. 59:	·0966	19. 15	·01424			
6. 56	12. 10	4. 38:	·0981	23. 30	·01390			
7. 30	18. 15	5. 8	·0973					
	***	6. 17	·0989					
10. 16	18. 35	6. 32	·0976					
10. 43	20. 30	6. 57	·1006					
11. 9	18. 50		***					
11. 42	23. 5	9. 39	·0985					
12. 6	19. 40	11. 14	·0991					
	***	11. 32:	·1002					
14. 30	19. 10	11. 59	·0989					
	***		***					
16. 30	24. 25	14. 32	·0983					
	***	15. 25	·0970					
18. 27	11. 15	18. 5	·0984					
	***	21. 29	·0976					
23. 59	23. 15	23. 59	·0977					
	***							
May 29		May 29		May 29				
0. 30	22. 24. 10	1. 0	·0980	0. 30	·01382	1. 40	58 ·5	61 ·0
	***		***	1. 30:	·01366	3. 40	59 ·5	61 ·0
5. 30	20. 0	6. 28	·0991	6. 30:	·01121	9. 40	57 ·0	61 ·0
	***	6. 59	·1004	12. 10	·01394	22. 40	54 ·0	54 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 29		May 29		May 29				
h m	° ′ ″	h m		h m		h m	°	°
10. 0	22. 20. 10	9. 21	·0998	19. 40	·01312			
	***	11. 3	·1006	20. 14	·01159			
12. 30	19. 30	14. 10	·1006	23. 0	·01105			
	***	18. 39	·1004					
14. 30	23. 0	21. 47	·0984					
	***	23. 59	·0997					
20. 0	16. 5							
	***							
23. 20	23. 20							
May 30		May 30		May 30				
0. 0	22. 25. 5	0. 30	·1005	0. 0	·01130	8. 43	59. 0	62 ·0
0. 30	26. 30	6. 45	·1005	1. 0	·00960	21. 40	56 ·0	56 ·5
7. 0	18. 15	7. 37	·1013	2. 44	·00700			
	***	10. 15	·1006	8. 17	·00792			
10. 0	19. 25	10. 50	·1019	12. 0:	·00753			
	***	12. 12	·1007	21. 30	·01358			
10. 41	15. 25	17. 10	·1017	22. 49	·01290			
	***	18. 50	·1014					
11. 0	19. 0	19. 12	·1002					
	***	23. 8	·0980					
11. 52	17. 0	23. 59	·0983					
	***							
17. 30	16. 10							
	***							
19. 30	11. 35							
	***							
23. 54	26. 25							
May 31		May 31		May 31				
0. 30	22. 27. 0	0. 21	·0986	0. 41	·01005	1. 40	60 ·5	62 ·5
1. 8	28. 0		***	1. 38	·00820	3. 40	62 ·0	64 ·0
	***	2. 8	·0977	4. 0	·00900	9. 40	59 ·0	63 ·6
7. 0	15. 15		***	10. 0:	·00886	21. 40	57 ·5	57 ·0
	***	2. 52	·0990	15. 28	·01473			
11. 31	16. 10		***	19. 30	·01409			
	***	8. 2	·1006	21. 34	·01440			
12. 3	18. 30		***	21. 36	·01190			
	***	9. 17	·0997	23. 30	·01080			
13. 10	16. 10	9. 57	·1005					
	***	12. 50	·1014					
19. 35	13. 0	13. 12	·1006					
	***	18. 45	·1014					
23. 59	23. 10	19. 39	·0990					
		21. 42	·0983					
		23. 59	·0971					
June 1		June 1		June 1				
0. 30	22. 24. 30	0. 24	·0971	0. 44	·00690	1. 40	62 ·5	63 ·0
	***	1. 17	·0973	5. 30	·00815	3. 40	64 ·0	65 ·0
6. 42	15. 0	1. 37	·0967	10. 0:	·00805	9. 40	64 ·0	65 ·5
	***		***	15. 8	·01508	21. 40	59 ·5	59 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 1		June 1		June 1		h m	o	o
h m	o ′ ″	h m		h m				
11. 0	22. 18. 5	4. 58	·0981	19. 30	·01450			
	***	5. 37	·0989	21. 34	·01470			
15. 44	19. 0	7. 58	·0994	23. 42	·01410			
	***	8. 36	·0991					
20. 30	12. 10	18. 0	·1015					
	***	19. 0	·1012					
23. 59	23. 0	20. 10	·1000					
	***	21. 47	·0990					
		23. 59	·0993					
June 2		June 2		June 2				
1. 7	22. 26. 25	1. 0	·0997	1. 52	·01339	1. 40	61 ·7	65 ·0
	***	***		5. 50	·00762	3. 40	63 ·0	63 ·5
8. 0	16. 15	5. 2	·0997	9. 43	·00764	9. 40	63 ·0	65 ·0
	***	5. 25	·1006		·01205	21. 40	59 ·0	61 ·0
14. 5	19. 30	5. 48	·1000	14. 45	·01510			
	***	6. 3	·1007	19. 0	·01470			
14. 46	23. 10	6. 21	·1002	21. 30	·01490			
	***	7. 27	·1014	23. 45	·01361			
15. 30	18. 15	8. 50	·1004					
	***	14. 38	·1015					
19. 18	14. 30	18. 0	·1017					
	***	22. 5	·0998					
20. 58	11. 0	23. 40	·0985					
	***							
23. 59	23. 20							
	***							
June 3		June 3		June 3				
1. 13	22. 26. 25	0. 15	·0990	1. 30	·01140	1. 40	62 ·5	64 ·0
	***	1. 38	·0978	4. 53	·00722	3. 40	64 ·0	66 ·0
7. 30	17. 35	2. 34	·0998	6. 7	·00740	9. 40	62 ·0	64 ·0
	***	2. 59	·0989	7. 12:	·00721	21. 40	57 ·5	59 ·5
10. 47	18. 25		***	16. 27	·01459			
	***	6. 5	·1012	19. 10	·01416			
11. 46	21. 0		***	22. 15	·01446			
	***	9. 5	·1020	23. 45	·01215			
13. 3	11. 35		***					
	***	13. 23	·1003					
16. 30	20. 15		***					
	***	15. 47	·1020					
19. 30	11. 0	16. 24	·1011					
21. 14	19. 30		***					
21. 31	17. 35	18. 58	·1018					
22. 0	19. 55	20. 27	·0992					
	***	22. 31	·0991					
23. 0	20. 40	22. 47	·0975					
23. 59	23. 0	23. 17:	·0970					
		23. 59	·0975					
June 4		June 4		June 4				
0. 35	22. 24. 35	0. 38	·0976	1. 10	·00940	1. 40	62 ·0	64 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 4		June 4		June 4		h m	o	o
h m	o ′ ″	h m		h m				
4. 0	22. 26. 30	1. 10:	·0969	1. 55	·00758	3. 40	64 ·8	67 ·5
8. 59	17. 5	1. 42:	·0979	3. 38	·00845	9. 40	66 ·0	68 ·0
9. 6	20. 0	2. 11:	·0970	8. 10	·00804	21. 40	60 ·0	60 ·5
	***	2. 38	·0979	10. 8	·00823			
9. 42	15. 5	3. 3	·0971	15. 14	·01520			
	***		***	20. 0	·01448			
10. 50	14. 10	3. 33	·0982	21. 46	·01460			
	***	4. 0	·0971	23. 15	·01363			
13. 0	18. 15		***					
	***	6. 44	·1007					
13. 58	16. 0	7. 11:	·0986					
	***	7. 55	·0996					
15. 10	18. 50	8. 7	·0981					
	***	8. 18	·0987					
18. 58	15. 25	8. 33	·0982					
19. 48	13. 5	8. 58	·0996					
20. 0	10. 55	9. 27	·0979					
	***	10. 8	·0992					
23. 2	18. 30	12. 46	·0998					
			***					
		17. 44	·0994					
		23. 0	·0977					
June 5		June 5		June 5				
7. 16	22. 16. 0	6. 32	·0996	6. 55	·01098	1. 40	64 ·0	64 ·8
9. 32	15. 20	7. 15	·0989	9. 32	·01101	9. 40	69 ·0	70 ·0
10. 24	18. 10		***	12. 20	·01222	22. 40	64 ·0	67 ·0
11. 15	14. 35	7. 51	·1000	21. 0	·00575			
12. 7	19. 35	8. 28:	·0984	23. 0	·00480			
12. 54	11. 35	10. 11	·1000					
	***	10. 40	·0986					
14. 24	19. 15	10. 32	·0986					
14. 47	16. 0	11. 58	·1005					
15. 18	23. 30	12. 30	·0985					
15. 49	15. 45		***					
16. 33	16. 5	14. 31	·1008					
17. 1	20. 50	14. 55	·1000					
18. 30	14. 10	15. 16	·1017					
	***	15. 55	·1003					
20. 27	11. 45		***					
21. 2	16. 20	17. 50	·1010					
21. 27	13. 35		***					
22. 26	14. 55	19. 32	·0992					
	***	20. 0	·0997					
23. 2	19. 0	20. 33	·0986					
	***	21. 37	·0996					
		22. 6	·0988					
		22. 35	·0994					
		23. 59	·0982					
June 6		June 6		June 6				
0. 0	22. 20. 55	1. 34	·0995	0. 30	·01540	9. 40	69 ·0	71 ·0
	***		***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 6		June 6		June 6				
h m	° ′ ″	h m		h m		h m	°	°
9. 0	22. 15. 50	1. 50	·0978	3. 0	·01520	21. 40	64 ·0	66 ·0
	***	3. 28	·0995	4. 23	·01370			
16. 0	18. 35	4. 12	·0982	12. 0	·00861			
	***	4. 34	·1000	21. 20	·01590			
20. 39	11. 10	4. 42	·0994	23. 46	·01598			
23. 59	22. 0	5. 2	·0994					
		5. 15	·1003					
		5. 33	·0993					
			***					
		6. 58	·1008					
			***					
		8. 40	·0995					
		9. 45	·0996					
		10. 4	·1000					
		12. 30	·0994					
		17. 56	·1000					
		19. 0	·1000					
		23. 39	·0990					
June 7		June 7		June 7				
1. 11	22. 26. 25	0. 0	·0990	1. 30	·01565	1. 42	65 ·5	67 ·5
3. 30	22. 35		(†)	7. 9	·01260	3. 40	67 ·0	69 ·0
	***	3. 30	·1018	8. 45	·01273	9. 40	66 ·5	69 ·0
7. 30	17. 30	3. 54	·1022	10. 18:	·01241	21. 40	63 ·0	65 ·5
	***	4. 30:	·1001	15. 26	·01622			
16. 0	20. 25	6. 30	·1022	19. 45	·01560			
17. 24	14. 25		***	22. 0	·01580			
	***	8. 10	·1014	23. 42	·01530			
19. 39	11. 0		***					
	***	8. 50	·1020					
23. 59	24. 5	9. 3	·1014					
			***					
		13. 0	·1010					
		13. 56	·1000					
			***					
		16. 23	·1014					
		18. 7	·1015					
		23. 59	·0982					
June 8		June 8		June 8				
0. 30	22. 24. 20	0. 27	·0980	1. 0	·01455	1. 40	65 ·5	68 ·0
	***	0. 45	·0986	1. 23	·01410	3. 40	67 ·0	69 ·0
6. 30	18. 35	1. 18	·0983	1. 27	·01150	9. 40	68 ·0	70 ·0
	***		***	4. 8	·00805	21. 42	62 ·8	65 ·0
7. 0	13. 30	3. 0	·1004	4. 32	·00841			
8. 27	18. 50	3. 15	·0996	4. 41	·00830			
10. 28	20. 25	3. 34	·1016	7. 1	·00852			
10. 48	25. 0	4. 0	·1000	9. 36	·00895			
12. 0	20. 0		***	11. 23:	·00837			
	***	4. 28	·1028	19. 44	·01612			
16. 30	19. 55	5. 0	·1000	23. 45	·01543			
	***	5. 40:	·1015					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 8		June 8						
h m	° ′ ″	h m		h m		h m	°	°
20. 21	22. 15. 30	5. 55	·1004					
	***		***					
23. 59	23. 45	8. 5	·1015					
		8. 36	·1002					
		8. 48	·1007					
		10. 0	·1001					
		11. 1	·1011					
		11. 55	·1000					
		17. 38	·1011					
		20. 15	·0995					
		21. 30	·1000					
		22. 45	·0989					
		23. 59	·0995					
June 9		June 9		June 9				
0. 33	22. 23 35	1. 8	·1008	1. 30	·01533	1. 43	64 ·0	67 ·0
7. 10	17. 20		***	4. 10	·01390	3. 40	64 ·0	67 ·0
10. 53	20. 55	3. 30	·1026	6. 30	·01393	9. 40	63 ·8	67 ·0
10. 59	23. 10		***	9. 26	·01443	21. 40	59 ·0	62 ·0
11. 40	17. 40	6. 50	·1027	10. 47	·01422			
	***	7. 12	·1038	10. 52	·01436			
13. 58	18. 30	10. 50	·1030	11. 2	·01420			
14. 20	27. 5	10. 55	·1048	13. 42	·01412			
15. 3	20. 15	11. 52	·1030	14. 12:	·01440			
	***	12. 30	·1040	15. 46	·01550			
16. 38	16. 0		***	17. 30	·01527			
	***	13. 50	·1026	19. 12	·01542			
21. 41	16. 40	14. 8	·1030	23. 16	{ ·01470			
	***	14. 28	·1025		{ ·01410			
23. 58	20. 35	16. 12	·1038					
		17. 0	·1026					
		23. 59	·1023					
June 10		June 10		June 10				
0. 0	22. 23. 30	0. 45	·1026	1. 0	·01451	1. 40	58 ·5	61 ·5
0. 38	23. 0		***	6. 53	{ ·01494	3. 40	59 ·0	61 ·0
0. 57	19. 30	1. 45	·1032		{ ·01369	9. 43	59 ·0	60 ·5
1. 8	24. 0	4. 45	·1026	9. 25	·01407	21. 40	54 ·0	57 ·0
	***	7. 0	·1048	9. 54:	·01390			
4. 0	24. 0		***	12. 13	·01485			
	***	9. 50	·1034	14. 10	·01413			
6. 30	18. 5	12. 0	·1036	14. 58	·01357			
9. 25	20. 25	13. 24	·1034	20. 0	·01365			
9. 38	35. 50		***	21. 45	·01320			
	***	14. 27	·1049	21. 50	·00850			
11. 0	26. 45	15. 5	·1034	23. 30	·00748			
	***		***					
15. 0	23. 0	19. 23	·1042					
17. 50	22. 30		***					
21. 2	21. 0	23. 42	·1018					
	***							
22. 34	13. 0							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 10								
h m	° ′ ″	h m		h m		h m	°	°
23. 10	22. 18. 0							
23. 21	17. 10 (†)							
June 11		June 11		June 11				
1. 28	22. 30. 30	0. 30	·1024	1. 30	·00671	1. 43	57 ·0	58 ·0
4. 0	25. 35	1. 26	·1028	2. 20	·00630	3. 40	58 ·0	61 ·0
4. 41	27. 55	1. 33	·1044	3. 21	·00758	9. 40	56 ·0	59 ·5
5. 15:	21. 0	2. 10	·1020		***	21. 40	53 ·0	56 ·0
5. 46	24. 5	2. 25	·1032	6. 53	·00767			
7. 30	18. 0		***	6. 59	·00789			
8. 20	8. 25	3. 17	·1016	7. 1	·00775			
8. 33	10. 30	3. 29	·1050		***			
9. 6	3. 45	4. 0	·1014	8. 20	·00883			
9. 46	22. 10. 20	4. 30	·1019		***			
10. 11	21. 52. 30		***	8. 41	·00875			
10. 29	22. 5. 10	5. 27	·1040		***			
10. 59	21. 50. 5		***	8. 48	·00840			
11. 2	57. 30	6. 0	·1028		***			
11. 15	21. 53. 0		***	9. 10	·00822			
11. 31	22. 33. 5	6. 58	·1040	9. 40	·00740			
11. 49	21. 55. 35	7. 2	·1063	9. 59	·00511			
	***		***	10. 8	·00560			
12. 28	22. 10. 0	8. 5	·1036		***			
	***	8. 15	·1020	10. 52	·00264			
12. 54	21. 56. 25	8. 28	·1045	11. 3	·00272			
	***		***	11. 10	·00231			
13. 13	22. 7. 10	8. 48	·1046	11. 15	·00261			
	***		***	11. 17	·00178			
13. 44	1. 0	9. 35	·0991		(†)			
	***	9. 42	·1000	11. 36	·00150			
14. 10	8. 0	9. 52	·0966	12. 20	·00575			
14. 38	39. 0	10. 20	·1025	12. 41	·00527			
	***	10. 52	·0952	13. 0	·00580			
15. 6	11. 0	11. 3	·0964		***			
15. 22	24. 25	11. 27	·0914	13. 45	·00570			
	***	11. 30	·0950	14. 0	·00630			
15. 38	12. 0	11. 48	·0912	14. 18	·00540			
	***		***	14. 28	·00536			
16. 28	28. 50	12. 28	·1013	14. 40	·00440			
16. 30	22. 30	12. 36	·1006	15. 0	·00770			
16. 58	35. 35		***	15. 28	·00870			
17. 43	22. 0	13. 0	·1032	16. 2	·01078			
17. 46	25. 0	13. 27	·0994	16. 45	·01180			
18. 30	26. 5		***	17. 1	·01160			
19. 32	17. 20	14. 5	·1012	18. 21	·01220			
22. 13	20. 10	14. 28	·0956	18. 46	·01210			
	***		***	22. 52	·01370			
23. 59	29. 0	15. 10	·1040	23. 50	·01260			
			***					
		15. 39	·1010					
		16. 18	·1028					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		June 11						
h m	° ′ ″	h m		h m		h m	°	°
		16. 45	·0980					
			***					
		18. 0	·1022					
			***					
		19. 45	·1022					
			***					
		21. 58	·1000					
		23. 6	·0988					
		23. 59	·0994					
June 12		June 12		June 12				
0. 0	22. 29. 0	2. 0	·1029	2. 30	·00920	1. 40	55 ·5	59 ·5
1. 0	29. 5	5. 34	·1030	4. 38	·00720	3. 40	58 ·0	60 ·0
	(†)	5. 45:	·1022	5. 40	·00722	9. 40	59 ·0	62 ·0
2. 27	23. 30	6. 0:	·1033	7. 40	·00681	22. 40	59 ·0	61 ·0
9. 53	19. 5	10. 8	·1034	9. 27	·00771			
10. 30	17. 0	10. 22	·1044	11. 0	·00730			
	***	15. 12	·1034	13. 10	·00733			
15. 33	17. 0	16. 5	·1028		(†)			
16. 40	21. 25		***	22. 22	·01255			
	***	19. 0	·1036	23. 5	·01198			
18. 48	11. 20		***					
19. 30	15. 30	22. 7	·1009					
22. 37	16. 30		***					
23. 15	20. 50	23. 11	·1016					
June 13		June 13		June 13				
0. 0	22. 20. 15	0. 0	·1016	0. 0	·01085	9. 43	64 ·8	68 ·0
2. 0	23. 35		***	1. 30	·00822	21. 40	59 ·0	62 ·0
	***	4. 50	·1012	2. 13	·00859			
8. 3	16. 20		***		·00884			
	***	5. 30	·1023	8. 0	·00870			
13. 0	17. 25	5. 39	·1015	9. 0	·00922			
	***	8. 48	·1024	10. 13:	·00890			
17. 0	16. 30	11. 0	·1024	16. 44	·01580			
20. 17	11. 10	12. 48	·1029	18. 28	·01529			
23. 42	20. 55	19. 36	·1029	19. 35	·01545			
		23. 5	·1004	22. 0	·01528			
		23. 59	·1009	23. 11	·01473			
June 14		June 14		June 14				
1. 30	22. 24. 0	0. 40	·1010	1. 40	·01205*	1. 40	64 ·0	66 ·0
	***	1. 10	·1010	3. 40	·00766*	3. 40	63 ·5	66 ·0
9. 2	17. 0	2. 45	·1024	9. 40	·01053*	9. 40	62 ·5	64 ·5
	***		***	21. 40	·01492*	21. 40	59 ·0	61 ·0
16. 0	16. 5	15. 30	·1047					
	***	20. 10	·1026					
19. 30	10. 30	23. 12	·1020					
	***	23. 59	·1027					
23. 59	23. 35							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

June 14^{d} to June 25^{d}. The time-piece of the Vertical Force was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 15		June 15		June 15				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 26. 5	1. 0	·1024	1. 42	·01133*	1. 42	62 ·0	63 ·0
2. 42	27. 5	3. 36	·1034	3. 40	·00748*	3. 40	64 ·0	64 ·0
3. 40	27. 4*		***	9. 40	·00702*	9. 40	64 ·5	65 ·5
	(†)	5. 35	·1032	21. 40	·01053*	21. 40	57 ·0	58 ·5
9. 40	18. 1*		***					
	(†)	6. 28	·1046					
21. 40	16. 28*	7. 15	·1037					
22. 0	21. 0	7. 45	·1047					
22. 31	28. 0	9. 0	·1034					
23. 59	23. 40	10. 35	·1039					
		10. 58	·1048					
		11. 10	·1044					
		11. 30:	·1057					
		12. 30:	·1038					
		13. 31	·1030					
		14. 8:	·1059					
		15. 10	·1035					
			***					
		16. 21	·1046					
		16. 47	·1033					
		18. 2	·1030					
		18. 45	·1054					
			***					
		20. 30	·1040					
		22. 0	·0963					
			***					
		23. 59	·1012					
June 16		June 16		June 16				
0. 40	22. 26. 5	0. 30	·1020	1. 40	·01075*	1. 40	61 ·0	62 ·0
	***	0. 52	·1032	3. 40	·00917*	3. 40	61 ·0	62 ·0
1. 59	32. 0		***	9. 40	·00566*	9. 40	62 ·0	63 ·0
	***	1. 11	·1021	21. 40	·01125*	21. 40	58 ·0	59 ·0
2. 20	20. 15	1. 17	·1040					
	***		***					
2. 36	22. 30	2. 0	·0998					
	***		***					
2. 46	17. 10	2. 22	·1053					
	***		***					
3. 50	30. 0	2. 40	·1016					
	***		***					
4. 14	27. 0	3. 10	·1015					
	***		***					
4. 31	30. 55	3. 17	·1041					
	***	3. 50:	·1016					
5. 12	23. 20		***					
	***	4. 46	·1041					
5. 17	26. 55	5. 2	·1018					
	***	5. 11	·1040					
5. 40	19. 0	5. 27	·1000					
	***	5. 51	·1045					
6. 1	18. 0		***					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 16		June 16						
h m	° ′ ″	h m		h m		h m	°	°
6. 30	22. 20. 0	6. 47	·1026					
	***	7. 44	·1045					
7. 52	18. 10		***					
	***	8. 8	·1038					
8. 33	7. 0	8. 22	·1010					
	***	8. 34	·1011					
8. 49	10. 50	8. 43	·1020					
	***	8. 46	·1009					
9. 26	8. 0	8. 56	·1018					
	***	9. 26	·1025					
10. 22	12. 35		***					
	***	10. 31	·1009					
10. 40	19. 0		***					
	***	10. 59	·1052					
10. 56	8. 0	11. 13	·1040					
	***	11. 28	·1005					
11. 7	11. 40	11. 45	·1038					
	***	12. 0	·1004					
11. 11	7. 20	12. 20	·1020					
	***		***					
11. 22	22. 13. 55	12. 57	·1030					
	***		***					
11. 35	21. 57. 0	14. 5	·1019					
	***	14. 43	·1036					
12. 0	22. 13. 30	15. 2	·1025					
	***	15. 20	·1042					
12. 13	5. 0	15. 51	·1016					
	***		***					
12. 25	22. 8. 10	16. 46	·1007					
	***		***					
13. 9	21. 58. 5	18. 21	·1028					
	***		***					
14. 28	22. 16. 0	19. 38	·0976					
	***		***					
14. 58	7. 0	20. 53	·1013					
	***		***					
15. 14	13. 25	22. 39	·1000					
	***		***					
15. 24	10. 5	23. 29	·1014					
	***	23. 59	·1000					
16. 4	16. 0							
	***							
16. 17	12. 0							
	***							
16. 37	17. 0							
	***							
17. 19	13. 20							
	***							
18. 10	16. 15							
	***							
18. 26	16. 0							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 16								
h m	° ′ ″	h m		h m		h m	°	°
18. 41	22. 11. 0 ***							
19. 41	21. 30 ***							
19. 54	18. 0 ***							
20. 0	22. 5 ***							
20. 16	16. 35 ***							
21. 42	14. 0 ***							
23. 59	22. 10 ***							
June 17		June 17		June 17				
1. 0	22. 24. 40 ***	0. 20	·1000	1. 40	·00921*	1. 40	59 ·0	61 ·0
		1. 2	·0994	3. 40	·00714*	3. 40	61 ·0	62 ·5
1. 37	26. 5 ***	1. 34	·1005	9. 40	·00588*	9. 40	60 ·0	65 ·0
		1. 54	·0996	21. 40	·01189*	21. 40	58 ·0	60 ·0
1. 54	24. 10 ***	2. 14	·0995					
		2. 58	·1022 ***					
2. 40	26. 5 ***	3. 43	·1000 ***					
3. 30	23. 0 ***	4. 23:	·1037					
3. 33	24. 10 ***	5. 15	·1011					
		6. 13	·1023					
4. 4	14. 25 ***	6. 22	·1016					
		7. 32	·1032					
5. 0	20. 10 ***	7. 46	·1047					
		8. 12	·1020					
6. 11	19. 30 ***	8. 16	·1033					
		9. 25	·1019					
7. 0	18. 15 ***	11. 29	·1029					
		12. 43	·1023 ***					
7. 49	7. 10 ***	13. 21	·1030					
10. 0	18. 25 ***	14. 38	·1011					
		16. 28	·1029					
10. 48	17. 50 ***	18. 57	·1025					
		22. 15	·0987					
11. 38:	24. 35 ***	23. 14	·1001					
		23. 59	·0995					
12. 41	11. 25 ***							
13. 52	12. 15 ***							
15. 9	19. 30 ***							
16. 53	14. 30 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 17								
h m	° ′ ″	h m		h m		h m	°	°
20. 23	22. 10. 55 ***							
23. 59	20. 15 ***							
June 18		June 18		June 18				
0. 50	22. 20. 0 ***	0. 25	·1000	1. 40	·01105*	1. 40	59 ·0	61 ·3
		1. 52	·1015 ***	3. 40	·00957*	3. 40	61 ·0	62 ·0
2. 5	22. 30 ***	4. 23	·1013	9. 40	·00482*	9. 40	62 ·0	63 ·0
4. 43	22. 25 ***	4. 43	·1021	21. 40	·01093*	21. 40	57 ·5	59 ·0
		5. 10	·1020					
6. 39	15. 30 ***	5. 17	·1028					
		5. 51	·1030					
7. 30	17. 20 ***	6. 3	·1020 ***					
7. 53	15. 0 ***	6. 55	·1040					
		7. 33	·1023					
8. 31	17. 25 ***	8. 38	·1026					
		9. 5:	·1040					
8. 45	14. 25 ***	10. 30:	·1020					
		11. 0	·1025					
9. 17	19. 0 ***	12. 58	·1030 ***					
12. 52	17. 0 ***	15. 0	·1034 ***					
13. 27	23. 35 ***	17. 0	·1025					
		17. 50	·1033					
14. 12	16. 55 ***	19. 15	·1022					
		20. 12	·1025					
15. 46	15. 0 ***	23. 30	·1002					
17. 45	17. 55 ***							
18. 32	13. 50 ***							
21. 13	13. 0 ***							
23. 59	22. 0 ***							
June 19		June 19		June 19				
0. 33	22. 22. 30 ***	0. 18	·1006	1. 40	·00710*	1. 42	61 ·0	62 ·0
		0. 48	·1000	3. 40	·00646*	3. 40	63 ·0	64 ·0
3. 0	28. 0 ***	2. 30	·1005 ***	9. 40	·00606*	9. 40	65 ·0	65 ·3
6. 12	20. 0	4. 15	·1028 ***	22. 40	·01229*	22. 40	58 ·5	59 ·0
6. 45	19. 20							
7. 38	16. 40	5. 10	·1018 ***					
8. 1	10. 10 ***	6. 32	·1034					
9. 31	17. 15 ***	6. 48	·1050					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

On June 15, $9^h.40^m$ and $21^h.40^m$; June 16, $3^h.40^m$ and $9^h.40^m$; June 17, $1^h.40^m$, $3^h.40^m$, and $21^h.40^m$; and the whole of June 18 and 19; the thermometer readings of H. F. and V. F. have been interchanged. They were taken by an inexperienced assistant, and there is reason to think that they were wrong.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 19	° ′ ″	June 19						
h m		h m		h m		h m	°	°
9. 43	22. 15. 35	7. 8	·1036					
	***		***					
10. 30	17. 40	7. 50	·1024					
	***	8. 9	·1038					
10. 53	16. 0	9. 30:	·1017					
	***	11. 0:	·1053					
11. 14	18. 0	12. 0	·1024					
	***	13. 40	·1023					
12. 42	14. 0	17. 58	·1034					
	***	22. 20	·1009					
17. 30	17. 35	23. 18	·1014					
	***		***					
18. 38	14. 5							
	***							
18. 48	13. 30							
	***							
19. 19	14. 5							
	***							
21. 0	11. 0							
	***							
23. 3	17. 20							
June 20	(†)	June 20		June 20				
1. 16	22. 27. 30	0. 15	·1000	8. 42	·00570*	8. 42	64 ·0	65 ·5
3. 31	28. 20	1. 18:	·1022	21. 40	·00590*	21. 40	61 ·0	62 ·0
8. 42	17. 15	3. 10	·1030					
10. 47	14. 55	5. 50	·1014					
15. 42	15. 20	10. 25	·1028					
16. 0	18. 30	10. 42	·1038					
21. 16	10. 35	12. 38	·1026					
23. 4	15. 40	18. 33	·1029					
		21. 0	·1012					
		23. 40	·1000					
June 21		June 21		June 21				
0. 0	22. 20. 0	0. 0	·0997	1. 40	·00525*	1. 42	63 ·2	64 ·0
	***		***	3. 40	·00526*	3. 40	63 ·0	64 ·0
2. 30	27. 5	2. 30	·1015	9. 40	·00562*	9. 40	63 ·0	64 ·2
	***		***	21. 40	·01284*	21. 40	58. 0	62 ·0
5. 10	21. 0	7. 15	·1014					
	***	11. 0	·1026					
9. 0	15. 40	11. 24	·1026					
	***	12. 18	·1020					
17. 52	15. 35	19. 0	·1034					
	***	22. 45	·0989					
20. 37	10. 0	23. 15	·0984					
	***	23. 59	·0983					
23. 59	20. 35							
June 22		June 22		June 22				
1. 10	22. 24. 25	0. 45	·0983	1. 40	·00806*	1. 42	62 ·5	65 ·8
8. 43	15. 30	2. 0	·0975	3. 40	·00558*	3. 40	64 ·0	66 ·7

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 22	° ′ ″	June 22		June 22				
h m		h m		h m		h m	°	°
12. 32	22. 16. 35	3. 30	·1000	9. 40	·00574*	9. 40	64 ·0	65 ·5
13. 0	18. 35	4. 8	·1000	21. 40	·01308*	21. 40	58 ·0	60 ·5
13. 59	12. 25		***					
15. 0	15. 35	6. 38	·1013					
16. 30	12. 5	6. 55	·1005					
18. 15	18. 0	8. 55	·1012					
18. 30	15. 0		***					
19. 42	21. 25	12. 36	·1008					
21. 32	18. 0	12. 51	·1016					
23. 2	26. 0		***					
23. 59	26. 5	14. 20	·1004					
		15. 30	·1020					
		17. 12	·1019					
		18. 0	·1028					
		19. 15	·1005					
		20. 0	·1005					
		21. 15	·0980					
			***					
		23. 43	·0963					
June 23		June 23		June 23				
0. 30	22. 25. 0	0. 45	·0977	1. 40	·00738*	1. 40	63 ·0	64 ·0
2. 51	25. 15		***	3. 40	·00630*	3. 40	65 ·0	67 ·0
9. 6	13. 50	2. 40	·0970	9. 40	·00711*	9. 40	68 ·0	69 ·0
10. 30	17. 0		***	21. 40	·01364*	21. 40	59 ·0	61 ·5
11. 0	15. 35	6. 30	·0991					
14. 2	14. 50	11. 5	·0993					
14. 21	16. 5	11. 30	·0998					
15. 0	14. 0	11. 50	·0990					
	***	16. 0	·1000					
19. 1	15. 5	18. 34	·1000					
20. 7	12. 10	18. 54	·1004					
21. 51	13. 0	20. 54	·0992					
23. 59	21. 15	22. 40	·0972					
		23. 59	·0982					
June 24		June 24		June 24				
1. 1	22. 23. 0	1. 0	·0988	1. 40	·01035*	1. 40	63 ·0	65 ·0
7. 0	18. 0	1. 40	·0987	3. 40	·00670*	3. 40	67 ·0	68 ·0
	***	2. 48	·1000	9. 40	·00702*	9. 40	67 ·0	72 ·0
12. 0	17. 0	4. 30	·1000	21. 40	·01380*	21. 40	59 ·5	63 ·5
	***	5. 10	·1008					
16. 51	15. 5	5. 30	·0998					
18. 32	9. 5	6. 20	·0996					
18. 48	11. 15	7. 34	·1009					
	***	13. 0	·1009					
20. 18	10. 5	14. 34	·1017					
	***	18. 56	·1017					
21. 15	14. 0	19. 35	·1005					
21. 30	12. 55	21. 55	·1000					
	***	23. 40	·0984					
23. 59	20. 0		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 25		June 25		June 25				
h m	° ′ ″	h m		h m		h m	°	°
0. 40	22. 19. 40	0. 15	·0986	1. 40	·01109*	1. 40	63 ·0	66 ·2
4. 0	22. 5	2. 26	·1007	3. 40	·00694*	2. 40	66 ·0	68 ·5
8. 40	16. 55	2. 51	·1000	9. 40	·00714*	9. 40	68 ·0	70 ·0
9. 13	14. 30	3. 6	·1007	21. 40	·01492*	21. 40	63 ·0	63 ·5
10. 45	17. 20	3. 20	·0998					
	***	3. 37	·1007					
17. 31	12. 0	3. 48	·0994					
	***	4. 13	·1004					
21. 54	15. 0	4. 30	·0996					
23. 59	20. 0	4. 58	·1006					
		5. 15	·0998					
		7. 0	·1018					
		8. 45	·1004					
		11. 6	·1000					
		12. 55	·1004					
		13. 6	·1006					
		17. 20	·1012					
		22. 0	·1000					
		23. 59	·1009					
June 26		June 26		June 26				
1. 7	22. 24. 0	1. 30	·1000	2. 12	·01525	1. 40	63 ·0	64 ·0
7. 14	18. 15	3. 10	·1000	5. 0	·00920	3. 40	66 ·0	67 ·5
7. 42	14. 5	3. 38	·1009	8. 15	·00980	9. 40	68 ·5	72 ·0
9. 52	17. 10	4. 18	·1010	8. 33	·01040	22. 40	62 ·0	66 ·0
14. 7	18. 30	4. 55	·1000	9. 19	·01000			
19. 20	10. 35	6. 33	·1010	12. 15:	·00954			
23. 10	19. 0	7. 30	·1000	19. 12	·01705			
		8. 0	·1008	21. 0	·01684			
		8. 34	·1008	23. 15	·01652			
		10. 10	·0994					
		17. 0	·1000					
		18. 0	·1004					
		20. 56	·1000					
		23. 0	·0987					
June 27		June 27		June 27				
0. 0	22. 21. 5	0. 0	·0986	0. 0	·01645	9. 21	68 ·0	73 ·0
1. 0	23. 20		***	1. 0:	·01589	21. 43	63 ·5	66 ·0
8. 20	17. 25	3. 24	·0987	6. 30	·00885			
8. 52	14. 0		***	8. 36	·00920			
	***	3. 55	·0979	9. 37	·00987			
11. 0	17. 5	7. 12	·1002	9. 45	·01081			
15. 20	15. 30	7. 30	·0996	12. 0:	·01033			
18. 0	11. 35		***	18. 52	·01678			
	***	9. 20	·0992	21. 34	·01648			
22. 15	15. 5	15. 0:	·1000	23. 0	·01642			
23. 59	20. 30	20. 1:	·0999					
		23. 8	·0979					
		23. 59	·0985					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 28		June 28		June 28				
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 22. 0	1. 0	·0986	1. 30	·01400			
4. 2	23. 0	2. 0	·0988	3. 58	·00920	1. 43	66 ·5	69 ·0
9. 7	18. 0	2. 30	·0976	4. 41	·00927	3. 40	69 ·0	72 ·0
9. 39	10. 25		***	5. 4	·01011	9. 40	67 ·0	69 ·5
	***	3. 20	·0998	6. 54	·00989	21. 40	63 ·0	67 ·0
11. 35	19. 0		***	6. 59:	·01033			
12. 0	16. 40	3. 54	·0982	18. 14	·01683			
	***		***	20. 50	·01660			
15. 22	15. 55	4. 52	·0986	23. 0	·01670			
	***	5. 28	·0996	23. 50	·01631			
16. 45	19. 5	6. 0	·0990					
	***	7. 30	·1014					
19. 2	9. 20	8. 10:	·0984					
	***	8. 59	·0990					
20. 32	22. 30	10. 8	·1020					
	***	10. 25	·1012					
20. 55	21. 30		***					
	***	11. 47	·1013					
21. 25	24. 20	15. 57	·1020					
22. 41	19. 0	16. 28	·1013					
23. 59	21. 30	17. 0	·1024					
		19. 10	·1018					
		19. 30	·1009					
		20. 10	·1010					
		20. 30	·0999					
		20. 56	·1008					
			***					
		22. 50	·1006					
		23. 59	·0992					
June 29		June 29		June 29				
1. 4	22. 23. 35	0. 50	·0986	1. 30	·01550	1. 40	65 ·0	68 ·0
3. 21	20. 50	2. 38	·0978	6. 20	·01144	3. 40	66 ·5	70 ·0
6. 22	18. 5		***	10. 0:	·01030	9. 40	66 ·0	69 ·0
8. 32	18. 5	6. 40	·1016	17. 30	·01645	21. 40	62 ·5	65 ·5
9. 1:	9. 0		***	19. 0	·01632			
9. 38	11. 35	9. 0	·1024	21. 0	·01648			
9. 50	9. 0	9. 38	·0996	22. 56	·01540			
10. 28	15. 35		***	23. 50	·01390			
11. 31	19. 25	15. 30	·1013					
12. 28	17. 10	19. 40	·1013					
13. 42	17. 50	22. 58	·0980					
	***	23. 59	·0973					
15. 0	20. 30							
	***							
16. 38	15. 10							
	***							
19. 55	12. 25							
	***							
22. 30	18. 10							
22. 53	21. 45							
23. 1	20. 35							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

On June 20, 21, 22, 23, 24 (excepting at $3^h.\ 40^m$), 25, and 26 (at $1^h.\ 40^m$ only), the thermometer readings for H. F. and V. F. have been interchanged. They were taken by an inexperienced assistant, and there is reason to think that they were wrong.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 29								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 22. 0							
June 30		June 30		June 30				
1. 2	22. 23. 0	0. 15	·0971	1. 10	·01210	1. 40	66 ·0	69 ·0
2. 0	25. 55	0. 35	·0992	1. 40	·01112	3. 40	68 ·0	71 ·0
2. 48	23. 50	1. 8	·0966	2. 30	·00939	9. 40	69 ·0	73 ·0
3. 50	25. 0	1. 45	·0981	4. 2	·00987	21. 44	63 ·0	65 ·0
4. 12	22. 50	2. 12	·0956	4. 15	·01084			
7. 50	13. 30	2. 48	·0989	5. 3	·01060			
8. 25	17. 0	3. 55	·0994	5. 6	·01115			
	***	4. 18	·0976	5. 20	·01130			
12. 1	16. 5		***	6. 21	·01120			
12. 21:	8. 30	5. 58	·0980	6. 25	·01170			
13. 0	15. 0	6. 15	·0990	7. 51	·01155			
15. 50	18. 0	7. 8:	·0978	7. 58:	·01198			
	***		***	14. 8	·01742			
16. 22	14. 0	8. 24	·1010	19. 45	·01620			
	***	8. 58	·0996	21. 53	·01650			
18. 8	15. 0	11. 50	·1008	21. 57	·01391			
	***	12. 26	·1012	23. 44	·01235			
18. 29	12. 35	13. 0	·1000					
	***		***					
19. 20	20. 40	18. 25	·1021					
	***	19. 12	·1005					
20. 27	12. 0	19. 42	·1012					
21. 28	14. 5	23. 30	·0983					
21. 31	13. 15							
21. 46	16. 0							
	***							
23. 59	19. 10							
	***							
July 1		July 1		July 1				
1. 12	22. 20. 10	1. 16	·0976	1. 39	·00920	1. 40	65 ·5	69 ·0
	***	4. 28	·0992	2. 3	·00851	3. 40	66 ·5	70 ·0
5. 5	17. 20	5. 28	·0986	6. 15	·00963	9. 40	69 ·0	73 ·0
	***	6. 4	·1000	6. 32	·00991	21. 40	63 ·5	65 ·0
6. 0	15. 0		***	7. 20	·00956			
7. 0	16. 10	8. 33	·1000	7. 30	·00990			
	***	9. 15	·0993	8. 45	·01023			
9. 38	16. 30	14. 0	·1022	9. 0:	·01072			
	***	14. 36	·1009	15. 58	·01686			
13. 0	17. 20	15. 36	·1017	18. 0	·01638			
	***	16. 3	·1008	20. 30	·01653			
13. 53	19. 25		***	21. 48	·01642			
	***	17. 15	·1019	22. 38	·01655			
14. 50	16. 55	19. 28	·1005	23. 50	·01600			
15. 2	13. 0	19. 42	·0996					
	***	22. 0	·0978					
15. 30	16. 25		***					
	***	23. 59	·0990					
16. 20	9. 45							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 1								
h m	° ′ ″	h m		h m		h m	°	°
16. 57	22. 14. 30							
	***							
18. 4	10. 0							
	***							
18. 24	11. 0							
19. 0	9. 30							
19. 5	11. 20							
19. 26	10. 5							
19. 40	12. 0							
	***							
20. 29	11. 0							
	***							
21. 50	15. 50							
22. 3	14. 10							
22. 31	18. 25							
23. 0	17. 15							
23. 59	20. 50							
July 2		July 2		July 2				
1. 0	22. 22. 35	1. 0	·0990	1. 24	·01417	1. 43	66 ·0	69 ·0
	***	2. 30	·0988	1. 45	·01215	3. 40	68 ·0	72 ·0
6. 30	17. 30	2. 55	·0997	3. 0	·00991	9. 40	69 ·0	72 ·0
6. 58:	14. 30		***		***	21. 40	63 ·0	66 ·5
7. 50	16. 35	4. 5	·0982	7. 30	·01111			
8. 36	12. 30	4. 22	·0996	9. 14	·01110			
8. 45	22. 13. 55		***	9. 27	·01144			
9. 21	21. 54. 30	6. 2	·0998	9. 52:	·01480			
9. 36	22. 11. 0	6. 15	·1010	15. 12	·01550			
10. 9	15. 0	6. 30	·0992	20. 0	·01495			
10. 21	13. 15	6. 35	·1000	22. 22	·01498			
	***	6. 45	·0986	23. 42	·01400			
14. 30	19. 5		***					
	***	7. 45	·1015					
15. 2	16. 15		***					
17. 59	11. 40	8. 15	·0985					
18. 7	13. 30	8. 33	·1003					
18. 28	11. 0	8. 47	·1007					
	***	9. 8	·0985					
20. 23	11. 30	9. 28	·1032					
20. 57	13. 30	10. 13	·0990					
21. 33	13. 0		***					
22. 30	20. 50	14. 2	·1008					
	***		***					
23. 59	22. 0	18. 58	·1004					
		19. 27	·0990					
		20. 55	·0989					
		22. 0	·0968					
		22. 18	·0971					
		22. 36	·0956					
			***					
		23. 59	·0980					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 3		July 3		July 3				
h m	° ′ ″	h m		h m		h m	°	°
0. 30	22. 23. 40	0. 45	·0985	1. 0	·01210	1. 40	68 ·8	72 ·0
2. 30	25. 50	1. 48	·0973	1. 30	·01123	3. 40	72 ·0	75 ·0
	***		***	4. 15	{·01187	9. 40	74 ·5	77 ·0
10. 30	17. 25	3. 8	·0985		{·01047	22. 40	72 ·0	73 ·0
11. 15	10. 35	3. 45:	·0963	7. 45	{·00997			
12. 0	18. 40		***		{·01036			
12. 54	16. 30	6. 8	·0977	11. 0:	·01065			
14. 11	27. 30	6. 29	·0997	14. 31	·01282			
	***	6. 45	·0977	15. 16	·01385			
15. 50	15. 45		***	16. 0	·01349			
	***	15. 16	·1003	18. 30	·01350			
16. 39	14. 0	17. 58	·0985	21. 0	·01392			
	***	18. 9	·0997	22. 35	·01291			
17. 8	17. 20	18. 15	·0987	23. 8	·01218			
	***		***					
18. 3	16. 0	21. 0	·0956					
18. 11	18. 50		***					
	***	23. 7	·0966					
18. 39	14. 30							
18. 42	16. 50							
19. 9	14. 0							
20. 50	17. 30							
	(†)							
23. 14	22. 5							
23. 59	22. 50							
July 4		July 4		July 4				
0. 0	22. 22. 50	0. 0	·0957	0. 0	·01016	9. 56	79 ·0	83 ·0
2. 0	25. 5		***	0. 35	·00920	21. 40	76 ·5	77 ·0
	***	4 ·13	·0961	2. 15	·01008			
5. 42	15. 10	4. 38	·0976	3. 21	·00981			
7. 37:	16. 5	5. 1	·0963	4. 12	·01010			
8. 12	18. 30	6. 2	·0975	4. 36	·01070			
	***	6. 21	·0961	4. 56	·01053			
14. 0	18. 30	6. 44	·0983	5. 11	·01071			
	***	7. 3	·0965	5. 42	·01048			
15. 12	25. 10		***	6. 42	·01073			
	***	18. 0	·0987	8. 12	·00981			
17. 58	20. 30	19. 45	·0951	9. 2	·01000			
18. 32	13. 0		***	10. 30:	·00961			
19. 10	17. 35	23. 59	·0937	14. 10	{·01163			
20. 0	18. 25				{·01197			
20. 42	12. 30			14. 22	·01267			
21. 5	12. 30			19. 13	·01200			
22. 3	17. 45			20. 30	·01180			
	(†)			21. 42	·01222			
				23. 11	·01117			
July 5		July 5		July 5				
0. 57	22. 23. 30	1. 0	·0941	2. 10	·00901	1. 44	82 ·5	84 ·5
	***		***	3. 28	·00812	3. 40	84 ·0	87 ·0
9. 32	18. 5	3. 36	·0945	3. 45	·00866	9. 40	84 ·0	87 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 5		July 5		July 5				
h m	° ′ ″	h m		h m		h m	°	°
10. 10	22. 15. 0	4. 0	·0961	11. 10	·01190	21. 40	76 ·0	77 ·0
	***	6. 3	·0941	12. 42	·01100			
11. 10	19. 20		***	13. 22	·01015			
12. 30	14. 30	10. 59	·0966	15. 46	·00940			
12. 58	24. 35	11. 6	·0983	16. 4	·00910			
13. 50:	16. 30	12. 21	·0972	16. 50	·00950			
	***	12. 46	·0996	21. 51	·00970			
15. 18	21. 25	13. 15	·0972	23. 45	·00770			
	***		***					
16. 0	14. 0	14. 45	·0971					
	***	15. 13	·0981					
19. 7	12. 25	15. 32	·0987					
	***	15. 54:	·0993					
23. 59	20. 45	18. 50	·0985					
		19. 14	·0965					
		23. 38	·0939					
July 6		July 6		July 6				
2. 3	22. 23. 10	1. 0	·0954	1. 11	·00620	1. 40	79 ·0	83 ·0
7. 45	19. 30	2. 30	·0941	3. 20	·00670	3. 40	84 ·0	87 ·0
8. 30	15. 30		***	6. 0:	·00626	9. 40	82 ·5	85 ·5
10. 0	18. 55	5. 17	·0971	12. 10	·01105	21. 40	71 ·0	73 ·0
10. 36	16. 0		***	15. 33	·00933			
	***	6. 34	·0963	16. 21	·00964			
12. 30	18. 50		***	17. 28	·00893			
	***	15. 16	·0994	21. 0	·00925			
13. 50	14. 35	15. 46:	·0974	23. 30	·00741			
15. 31	15. 25	16. 25	·0996					
	***		***					
16. 5	19. 30	17. 15	·1002					
	***	17. 30	·0985					
17. 16	13. 0		***					
	***	18. 10	·0988					
17. 48	16. 45	18. 43:	·1007					
17. 58	13. 55	23. 59	·0955					
	***							
18. 30	17. 25							
	***							
19. 39	14. 25							
	***							
22. 10	15. 35							
23. 59	19. 55							
July 7		July 7		July 7				
0. 0	22. 19. 55	0. 48	·0949	2. 2	·00567	1. 40	77 ·0	81 ·0
1. 30	22. 0		***		{·00611	3. 40	80 ·0	84 ·0
2. 30	23. 55	2. 22	·0966	3. 42	{·00891	9. 40	78 ·0	82 ·0
	***	2. 50	·0955	6. 0:	·00825	21. 40	68 ·0	70 ·0
6. 50	21. 30		***	9. 42	·01030			
7. 26	17. 35	10. 5	·0962	9. 46	·00890			
	***	10. 27:	·0983	12. 30	·00960			
8. 7	16. 30	10. 43:	·0971	14. 32	·00842			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 7		July 7		July 7				
h m	° ′ ″	h m		h m		h m	°	°
8. 20	22. 17. 35	11. 21:	·0978	15. 51	·00800			
8. 48	13. 5	11. 15	·0964		***			
10. 4	16. 0	12. 8	·0964	17. 17	·00705			
	***	14. 11	·1000	19. 21	·00750			
10. 20	13. 30	14. 30	·0988	20. 53	·00802			
10. 38	20. 0		***	22. 12	·00761			
	***	15. 50	·1010	22. 28	·00740			
11. 26	9. 0	16. 30	·0975	22. 40	·00745			
11. 42	12. 45	17. 45	·1019	23. 45	·00630			
12. 16	11. 30	18. 50	·1000	23. 55	·00600			
	***	19. 17	·0954					
13. 20	17. 20	23. 33	·0929					
13. 30	16. 0	23. 59	·0941					
14. 13	24. 10							
	***							
14. 32	19. 5							
14. 52	19. 0							
15. 12	14. 30							
15. 30	17. 0							
15. 57	17. 0							
	***							
16. 27	34. 0							
16. 29	31. 30							
16. 42	36. 10							
	***							
17. 32	15. 25							
	***							
18. 50	25. 0							
19. 23	19. 0							
20. 8	25. 40							
20. 37	20. 40							
20. 59	26. 5							
21. 28	22. 5							
21. 51	29. 25							
22. 29	24. 30							
22. 42	29. 25							
23. 30	33. 0							
July 8		July 8		July 8				
0. 0	22. 31. 15	0. 30	·0957	0. 30	·00505	1. 49	75 ·0	77 ·5
0. 39	26. 5	4. 15	·0951	1. 30	·00560	3. 40	78 ·6	82 ·0
3. 16	21. 35	8. 40	·0973	3. 16	·00633	9. 40	78 ·0	82 ·0
9. 0	18. 0	11. 17	·0968	8. 0:	·00538	21. 40	70 ·5	72 ·0
9. 37	15. 0	19. 1	·1005	13. 6	·01020			
10. 25	18. 10	19. 34	·0990	16. 0	·00941			
	***	23. 18	·0969	17. 15	·00950			
11. 30	16. 5			20. 0	·00875			
	***			21. 0	·00893			
21. 3	15. 5			23. 0	·00771			
23. 59	21. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 9		July 9		July 9				
h m	° ′ ″	h m		h m		h m	°	°
1. 8	22. 23. 35	0. 0	·0972	0. 33	·00448	1. 37	77 ·0	80 ·0
6. 32	22. 25	6. 50	·0980	1. 52	·00550	3. 40	80 ·0	83 ·0
	***		(†)	6. 33	·00555	9. 40	80 ·0	83 ·0
7. 11	22. 0	9. 40	·0950*	6. 45	·00538	21. 44	71 ·0	71 ·5
7. 18	23. 25		(†)	7. 17	·00545			
7. 27	20. 5	21. 40	·0966*	7. 27	·00524			
8. 9	22. 0		(†)	7. 40	·00541			
8. 32	12. 50			8. 9	·00541			
	***			8. 15	·00530			
9. 36	20. 20				***			
	***			8. 38:	·00570			
13. 4	18. 15			12. 23	·00980			
13. 32	30. 30			13. 28	·00900			
	***			14. 8	·00703			
14. 55	5. 0			16. 57	·00810			
	***			19. 15	·00700			
15. 33	14. 25			22. 30	·00700			
	***			23. 52	·00547			
16. 34	9. 10							
17. 5	22. 0							
17. 18	21. 15							
17. 42	25. 30							
18. 0	23. 25							
18. 38	30. 0							
	***							
18. 52	28. 25							
	***							
19. 54	31. 10							
	***							
21. 8	21. 5							
21. 21	23. 20							
	***							
22. 24	20. 0							
	***							
23. 59	26. 10							
July 10		July 10		July 10				
1. 26	22. 28. 30	1. 55	·0975	0. 55	·00360	1. 40	76 ·0	77 ·5
1. 46	31. 30	2. 40	·1006	1. 30	·00393	3. 40	83 ·0	88 ·5
	***	3. 2	·0974	2. 51	·00494	9. 40	77 ·0	79 ·0
2. 19	30. 0	3. 20	·1022		***	22. 40	68 ·0	68 ·5
	***	3. 29	·0959	3. 41	·00627			
3. 2	33. 25	3. 40	·1021	6. 13	·00564			
3. 10	30. 5	4. 10	·0991	8. 39:	·00540			
3. 31	39. 40		***	10. 45	·00698			
3. 49	13. 35	5. 13	·0987	10. 57	·00681			
	***		***	11. 27	·00732			
4. 53:	28. 10	6. 30:	·1016	11. 32	·00701			
5. 13:	22. 10	7. 15	·0971	12. 12	·00830			
	***	7. 30	·0985	12. 39	·00771			
6. 23	24. 35	10. 33	·0973	12. 45	·00780			
6. 40	18. 25	10. 49	·1006	13. 43	·00750			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 10	° ′ ″	July 10		July 10		h m	°	°
h m		h m		h m				
6. 45	22. 22. 0	10. 57	·0998	14. 45	·00642			
7. 3	18. 10	11. 5	·1036	15. 33	·00640			
7. 6	21. 35	11. 13	·1015	16. 20	·00705			
7. 15	15. 30	11. 24	·1047	21. 0	·00760			
7. 20	23. 0	11. 44	·0961	23. 10	·00695			
8. 0	6. 30	12. 0	·1012					
8. 44	11. 25	12. 37	·0964					
10. 54	18. 40	12. 56	·0986					
11. 29	16. 30	13. 27	·0961					
12. 0	0. 25	13. 58	·0985					
12. 30	22. 14. 50		***					
12. 58	21. 54. 0	14. 50	·0962					
13. 7	58. 35	17. 7	·1000					
13. 22	21. 55. 30	18. 4	·0993					
14. 6	22. 6. 5	19. 7	·0999					
14. 50	21. 58. 20	19. 50	·0985					
15. 23	22. 9. 5		***					
15. 50	2. 30	23. 10	·0973					
	***							
18. 33	14. 15							
19. 10	12. 40							
20. 30	16. 30							
22. 30	18. 45							
July 11		July 11		July 11				
0. 0	22. 19. 25	0. 13	·0984	0. 10	·00591	9. 40	76 ·0	78 ·0
	***	0. 28	·0974	1. 30	·00335	21. 40	66 ·0	68 ·0
1. 18	24. 5	0. 45	·0980	5. 0	·00511			
2. 57	20. 40		***	8. 27:	·00410			
3. 30	22. 20	1. 44	·0959	12. 45	·00900			
4. 29	13. 0	2. 31	·0987	19. 0	·00800			
6. 30	19. 55	3. 33	·0991	23. 0	·00760			
	***		***					
12. 0	17. 35	4. 12	·0979					
	***	4. 37	·1000					
14. 46	20. 0		***					
18. 37	12. 50	5. 34	·0980					
18. 50	13. 30	14. 46	·1000					
19. 12	11. 5	17. 45	·1000					
	***	19. 29	·1010					
20. 0	15. 0	20. 14:	·0993					
	***	21. 28	·1018					
21. 57	12. 55	23. 50:	·1000					
	***							
23. 59	21. 0							
July 12		July 12		July 12				
0. 42	22. 23. 0	0. 30	·0998	1. 30	·00650	1. 40	69 ·0	73 ·0
5. 38	22. 30	3. 56	·1002	2. 0	·00586	3. 40	72 ·0	73 ·0
7. 48	15. 25	5. 16	·1020	3. 32	·00280	9. 40	73 ·0	75 ·0
	***	5. 59:	·0993	4. 12	·00465	21. 40	67 ·0	68 ·0
9. 12	15. 30	6. 32	·1013	5. 15	·00360			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 12	° ′ ″	July 12		July 12		h m	°	°
h m		h m		h m				
10. 32	22. 16. 50	8. 8	·1011	9. 32:	·00340			
10. 59	20. 0	9. 32	·1006	14. 31	·00763			
11. 26	17. 0	10. 10	·1011	18. 32	·00713			
11. 51	18. 35	10. 45	·0997	22. 0	·00691			
12. 10	17. 10	14. 17	·1005	23. 42	·00574			
13. 2	22. 0		***					
14. 15	12. 50	18. 3	·1010					
16. 2	9. 55	18. 47	·1023					
17. 30	13. 30	22. 0	·0987					
18. 12	11. 30	22. 24	·0960					
20. 0	17. 0	23. 59	·0982					
21. 6	17. 20							
21. 13	15. 15							
21. 23	18. 0							
21. 30	15. 0							
	***							
23. 59	22. 35							
July 13		July 13		July 13				
1. 10	22. 23. 25	0. 30	·0982	1. 44	·00455	1. 43	74 ·8	77 ·0
	***		***	2. 20	·00502	3. 40	77 ·5	79 ·0
5. 20	22. 25	3. 33	·0970	5. 40	·00500	9. 40	75 ·0	77 ·0
	***		***	5. 57	·00520	21. 40	68 ·0	71 ·0
6. 2	19. 0	4. 0	·0983	6. 10	·00500			
6. 18	12. 35		***	7. 40:	·00461			
6. 38	17. 25	4. 15	·0973	12. 35	·00899			
7. 0	16. 35		***	16. 44	·00800			
	***	4. 40	·0981	21. 46	·00824			
7. 15	18. 10		***	23. 30	·00760			
	***	4. 57	·0975	23. 55	·00705			
11. 0	17. 40		***					
	***	5. 17	·0984					
12. 27	10. 0		***					
12. 52	12. 30	5. 35	·0969					
14. 30:	12. 0		***					
15. 14:	19. 0	6. 2	·1014					
15. 34:	17. 35		***					
15. 51	20. 15	6. 12	·0987					
	***		***					
17. 30:	14. 10	6. 21	·1005					
18. 0	16. 25		***					
19. 3	15. 40	6. 47	·0975					
	***	11. 16	·0989					
20. 3	16. 10	11. 45	·1005					
20. 20	13. 5	13. 8	·0988					
	***	14. 46	·0984					
22. 45:	20. 5	17. 28:	·0998					
23. 11	18. 30	18. 0	·0992					
	***	19. 34	·0996					
23. 59	21. 0	22. 13	·0987					
		23. 59	·0997					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

On July 10, $3^h.40^m$ and $22^h.40^m$, the thermometer readings for H. F. and V. F. have been interchanged. They were taken by an inexperienced assistant, and there is reason to think that they were wrong.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 14		July 14		July 14				
h m	° ′ ″	h m		h m		h m	°	°
1. 12	22. 25. 25	0. 30	·0982	1. 36	·00421	1. 40	73 ·0	77 ·0
	***		***	2. 2	·00581	3. 40	76 ·0	78 ·0
3. 41	25. 0	1. 57	·0994	3. 2	·00440	9. 40	75 ·0	78 ·0
	***		***	4. 2	·00425	21. 40	70 ·0	72 ·0
5. 21	19. 30	2. 40	·0998	5. 31	·00489			
	***		***	8. 22:	·00425			
6. 47	22. 0	3. 3	·0964	11. 2	·00525			
	***		***	11. 14:	·00512			
8. 31	18. 0	3. 45	·0992	14. 2	·00891			
	***		***	15. 44	·00842			
10. 6	19. 40	3. 52	·0985	16. 42	·00850			
	***		***	17. 38	·00812			
10. 45	16. 0	4. 10	·0991	21. 48	·00830			
10. 51	17. 30		***	23. 30	·00710			
10. 59	14. 0	4. 20	·0979					
11. 12	20. 5		***					
	***	4. 45	·0982					
12. 2	12. 10		(†)					
	***	9. 40	·0996*					
13. 0	12. 0		(†)					
14. 15	17. 35	20. 38	·0989					
14. 43	21. 0	23. 16	·0976					
	***							
15. 42	17. 15							
	***							
16. 57	19. 55							
	***							
17. 36	14. 20							
	***							
18. 29	18. 35							
	***							
18. 40	17. 15							
	***							
19. 7	19. 5							
	***							
20. 14	16. 50							
20. 30	17. 45							
20. 50	16. 10							
	***							
22. 14	21. 55							
22. 34	19. 5							
23. 59	22. 0							
July 15		July 15		July 15				
0. 18	22. 23. 0	0. 44	·0977	1. 0	·00495	1. 43	75 ·5	78 ·0
	***	1. 14:	·0965	1. 15	·00400	3. 40	79 ·0	82 ·0
3. 38	23. 30	1. 43	·0978	4. 33	·00522	9. 40	80 ·0	84 ·0
	***		***	5. 0	·00525	21. 46	67 ·0	71 ·0
6. 12	20. 10	5. 43	·0972	5. 40	·00540			
6. 35	16. 0	6. 7	·0989	6. 30	·00520			
	***	6. 23:	·0975	8. 43	·00491			
7. 34	18. 0	6. 46	·0983	10. 15	·00514			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 15		July 15		July 15				
h m	° ′ ″	h m		h m		h m	°	°
9. 6	22. 16. 40	7. 1	·0974	10. 58	·00560			
	***	8. 2	·0989	12. 0	·00700			
9. 16	18. 15	8. 58	·0983	13. 0	·00885			
	***	9. 10	·0997	16. 33	·00863			
9. 36	15. 25		***	18. 13	·00798			
	***	10. 27	·0974	21. 56	·00825			
10. 15	13. 35		***	23. 30	·00763			
	***	11. 57	·0991					
12. 58	19. 15	12. 32	·0982					
	***	13. 27	·0995					
15. 0	13. 30	17. 32:	·1000					
	***	18. 28	·0989					
16. 12	17. 0	19. 33	·1007					
	***	21. 8:	·0944					
16. 51	14. 20	22. 21	·0984					
	***	23. 37	·0975					
18. 3	21. 25							
	***							
20. 9	12. 30							
	***							
21. 32	25. 30							
22. 11	19. 25							
23. 59	22. 50							
July 16		July 16		July 16				
1. 3	22. 24. 30	1. 0	·0969	1. 0	·00432	1. 40	73 ·0	77 ·0
	***		***	5. 0	·00550	3. 40	79 ·0	84 ·0
2. 17	25. 55	1. 21	·0983	10. 15	·00498	9. 40	80 ·0	83 ·0
2. 47	23. 0		***	12. 0	·00702	21. 40	72 ·5	75 ·5
	***	1. 28	·0971	14. 26	·00985			
7. 10	16. 10		***	20. 10	·00910			
8. 42	18. 0	1. 37	·0981	22. 40	·00875			
9. 9	16. 35		***	23. 55	·00915			
9. 29	18. 0	1. 45	·0972					
9. 46	16. 20		***					
10. 0	18. 25	4. 33	·0963					
	***		***					
11. 8	14. 20	9. 38	·0983					
	***		***					
13. 2	17. 25	9. 47	·0992					
14. 0	24. 10		***					
	***	10. 50	·0971					
15. 46	15. 50		***					
	***	13. 32	·0983					
16. 39	17. 0		***					
	***	13. 44	·0975					
17. 15	14. 5		***					
	***	14. 2	·0988					
18. 0	17. 5		***					
	***	16. 31	·0998					
19. 0	14. 10		***					
	***	17. 50	·0979					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 16		July 16						
h m	° ′ ″	h m		h m		h m	°	°
20. 33	22. 17. 0	19. 50	·0989					
	***		***					
22. 0	17. 0	23. 30	·0972					
23. 59	22. 35		***					
		23. 59	·0975					
July 17		July 17		July 17				
1. 0	22. 24. 0	1. 0	·0985	1. 40:	·00900	1. 46	74 ·0	77 ·0
	***		***	8. 0:	·00591	3. 40	75 ·0	78 ·0
4. 30	23. 0	3. 7	·0997	11. 54	·00905	9. 40	73 ·0	77 ·0
	***		***		·00885	23. 25	63 ·0	67 ·0
9. 30	17. 5	4. 23	·0989	14. 0	·00839			
	***		***	15. 6	·00810			
10. 32	20. 0	4. 45	·1006	15. 18	·00786			
	***		***	15. 31	·00812			
11. 22	18. 0	6. 58	·0987	21. 0	·00760			
	***		***	23. 24	·00742			
13. 51	18. 0	9. 13	·0993					
	***	18. 23	·1016					
14. 14	21. 35	21. 36	·0991					
	***	23. 59	·0984					
15. 0	18. 35							
	***							
18. 47	14. 10							
18. 53	15. 45							
19. 33	14. 0							
	***							
23. 29	22. 0							
July 18		July 18		July 18				
0. 0	22. 23. 20	0. 30	·0981	0. 0	·00683	12. 22	63 ·0	66 ·0
2. 0	25. 20	3. 0	·0991	2. 18	·00277	21. 40	66 ·0	68 ·0
7. 27	15. 0		***	6. 30	·00375			
9. 36	16. 50	7. 43	·0983	8. 36	·00340			
10. 9	20. 0	13. 17	·1000	10. 0	·00354			
11. 9	15. 45	13. 45	·0996	10. 41:	·00360			
14. 30	19. 15	18. 50	·1012	14. 4	·00850			
15. 4	17. 0	21. 45	·0985	18. 45	·00751			
19. 56	13. 30	23. 59	·0991	21. 28	·00784			
23. 59	22. 0			23. 0	·00749			
July 19		July 19		July 19				
1. 13	22. 25. 10	1. 15	·0984	1. 30	·00498	1. 40	70 ·0	73 ·0
8. 17	18. 5	1. 40	·0989	2. 0	·00408	3. 40	72 ·5	75 ·0
8. 34	16. 0	1. 57:	·0982	2. 26	·00314	9. 40	73 ·0	76 ·0
10. 30	19. 30	4. 36:	·0981	5. 40	·00420	21. 40	66 ·5	70 ·0
15. 30	18. 10	6. 2	·0998	9. 35:	·00363			
19. 0	14. 30		***	14. 32	·00860			
23. 59	22. 0	8. 45	·1000	16. 0	·00830			
		17. 45	·1012	17. 10	·00840			
		18. 42	·1000	20. 0	·00810			
		22. 42	·0983	23. 41	·00754			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		July 19						
h m	° ′ ″	h m	·0983	h m		h m	°	°
		23. 59						
July 20		July 20		July 20				
0. 45	22. 23. 45	0. 47	·0983	0. 0	·00730	1. 40	69 ·5	73 ·0
2. 30	26. 5	5. 30:	·1000	1. 30	·00572	3. 40	70 ·5	74 ·0
6. 2	18. 35	17. 3	·1019	3. 50	·00284	9. 40	71 ·5	74 ·0
14. 0	19. 25	21. 27	·1009	9. 40:	·00320	21. 40	65 ·5	67 ·5
14. 52	17. 0	23. 0	·0989	15. 18	·00828			
16. 12	19. 30			19. 13	·00762			
18. 45	15. 5			22. 30	·00755			
21. 30	16. 5			23. 38	·00650			
23. 59	19. 20							
July 21		July 21		July 21				
0. 40	22. 22. 0	0. 0	·0989	0. 0	·00615	1. 40	69 ·0	73 ·0
2. 36	26. 0	1. 15	·0990	1. 0	·00511	3. 40	66 ·0	72 ·0
	***	3. 56	·0991	2. 17	·00270	9. 40	73 ·0	77 ·0
6. 30	19. 5	4. 45	·0984	6. 0	·00380	21. 40	64 ·5	68 ·0
	***	6. 0	·0989	10. 8:	·00358			
17. 0	16. 45	6. 32	·0983	14. 40	·00840			
	***	7. 40	·1000	21. 0	·00741			
21. 0	12. 35	8. 6	·0996	22. 30	·00753			
	***	19. 28	·1017	23. 41	·00705			
23. 59	22. 55	22. 28	·1008					
	***	23. 59	·0991					
July 22		July 22		July 22				
0. 59	22. 25. 40	1. 15	·0986	0. 0	·00683	1. 40	69 ·8	73 ·0
3. 0	24. 35	13. 52	·1000	2. 0	·00381	3. 40	71 ·0	75 ·0
	***	18. 15	·1018	2. 40	·00224	9. 40	73 ·0	75 ·0
7. 0	16. 35	23. 59	·0984	6. 0	·00340	21. 40	63 ·0	64 ·5
16. 30	16. 25			8. 18:	·00302			
20. 0	11. 30			13. 18	·00802			
23. 59	23. 20			18. 30	·00670			
				21. 56	·00682			
				23. 33	·00555			
July 23		July 23		July 23				
1. 12	22. 25. 30	0. 30	·0984	1. 42	·00269	1. 40	69 ·0	72 ·0
8. 10	19. 35	1. 37	·0991	3. 21	·00372	3. 40	73 ·0	76 ·5
8. 42	15. 45	2. 13	·0984	7. 10	·00366	9. 40	73 ·0	76 ·5
9. 15	17. 10		***	8. 20:	·00331	21. 40	68 ·0	70 ·0
17. 0	16. 20	8. 2	·1004	13. 44	·00850			
17. 41	14. 0	9. 38	·0994	19. 0	·00777			
19. 0	13. 10	18. 50	·1016	20. 40	·00793			
19. 30	16. 0	21. 10	·0992	22. 0	·00748			
22. 0	17. 5	23. 59	·0976	23. 30	·00563			
23. 59	23. 30							
July 24		July 24		July 24				
0. 43	22. 26. 35	0. 42	·0976	1. 30	·00372	1. 40	74 ·0	78 ·0
1. 30	28. 45		***	6. 11	·00430	3. 40	76 ·5	78 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 24	° ′ ″	July 24		July 24		h m	°	°
h m		h m		h m				
7. 30	22. 18. 30	2. 5	·0972	8. 10:	·00398	9. 40	75 ·5	78 ·0
13. 19	16. 45	15. 53	·0990	14. 30	·00898	23. 18	69 ·0	72 ·0
15. 31	18. 5	16. 30	·1004	17. 30	·00844			
15. 46	16. 25	17. 10	·0994	20. 0	·00850			
16. 16	22. 15	22. 35	·0988	23. 16	·00804			
17. 10	14. 5	23. 36	·0980					
19. 18	12. 5							
23. 23	24. 0							
July 25		July 25		July 25				
0. 0	22. 24. 30	0. 30	·0992	0. 0	·00780	10. 4	73 ·0	77 ·0
2. 0	29. 0	1. 24	·0986	5. 28	·00365	21. 40	69 ·5	70 ·5
3. 36	23. 20	1. 40	·0996	6. 30	·00384			
8. 30	19. 0	4. 27	·0990	8. 17:	·00348			
9. 12:	15. 25	7. 56	·1009	15. 0	·00860			
10. 50	22. 15	8. 56	·0990	16. 17	·00839			
11. 27	15. 0	19. 0	·1004	17. 29	·00855			
16. 0	19. 30	21. 30	·0992	19. 0	·00840			
20. 6	16. 5	23. 34	·1008	23. 47	·00824			
22. 0	20. 30							
22. 34	19. 10							
23. 59	25. 5							
July 26		July 26		July 26				
0. 42	22. 28. 10	0. 36	·0996	1. 0	·00772	1. 40	70 ·0	73 ·0
2. 20	29. 0	1. 54	·1014	4. 16	·00340	3. 40	72 ·0	76 ·0
7. 19	19. 0	2. 34	·0990	4. 19	·00357	9. 40	73 ·0	76 ·0
10. 13	22. 35	3. 12	·1006	5. 20	·00373	21. 40	68 ·0	70 ·5
10. 53	18. 30	4. 40	·0995	8. 18	·00340			
	***	6. 20:	·1012	10. 33:	·00350			
11. 45	21. 25	7. 20:	·1002	16. 40	·00861			
	***	7. 50:	·1012	20. 16	·00795			
13. 46	19. 10	14. 26	·1016	22. 30	·00791			
	***	16. 36	·1008	23. 44	·00720			
14. 30	20. 50		***					
	***	20. 0	·1021					
15. 19	18. 0	20. 20	·1004					
	***	20. 33	·1012					
16. 58	21. 20	21. 38	·1010					
	***	23. 59	·0992					
19. 9	16. 30							
19. 27	13. 10							
	***							
20. 40	23. 30							
	***							
21. 27	19. 30							
21. 44	21. 35							
	***							
23. 59	24. 45							
July 27		July 27		July 27				
0. 37	22. 25. 30	1. 0	·0994	1. 0	·00575	1. 40	73 ·0	74 ·5
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F Magnet.	Of V. F. Magnet.
July 27	° ′ ″	July 27		July 27		h m	°	°
h m		h m		h m				
4. 45	22. 20. 0	2. 10	·1000	2. 30	·00356	3. 40	74 ·0	77 ·0
	***	2. 34	·0990	2. 53	·00405	9. 40	74 ·0	77 ·0
10. 37	20. 25	3. 0	·1002	5. 49	·00430	21. 40	65 ·5	69 ·0
11. 28	16. 5	3. 45	·0983	8. 13:	·00374			
11. 43	18. 0		***	12. 58	·00869			
12. 19	13. 30	4. 58	·0998	15. 0	·00741			
13. 8	18. 50	5. 28	·0972	19. 0	·00740			
13. 30	15. 25		***	22. 30	·00721			
13. 52	22. 10	10. 56	·1000	23. 45	·00662			
14. 32	15. 30	11. 10	·1020					
15. 45	14. 20	11. 24	·1008					
16. 57	18. 25	11. 34	·1014					
17. 28	15. 0	12. 48	·0988					
18. 30	22. 35		***					
	***	13. 34	·1012					
18. 35	21. 0	13. 47	·1002					
	***		***					
19. 0	30. 0	15. 32	·1015					
	***	15. 58	·1006					
19. 39	22. 50		***					
	***	17. 0	·1024					
19. 50	24. 40	18. 40	·1006					
	***		***					
20. 38	21. 30	20. 0	·1014					
	***		***					
20. 52	24. 20	23. 8	·0965					
	***		***					
21. 26	21. 15	23. 59	·0976					
	***							
22. 14	25. 40							
	***							
23. 59	25. 10							
	***							
July 28		July 28		July 28				
0. 40	22. 25. 0	0. 36	·0976	1. 0	·00480	1. 40	71 ·0	74 ·0
	***		***	1. 46	·00303	3. 40	74 ·0	77 ·0
2. 50	31. 0	2. 10	·0970	3. 38	·00412	9. 40	74 ·0	77 ·0
	***	2. 48	·0938		·00580	21. 40	68 ·0	70 ·0
7. 11	18. 30		***	4. 50	·00403			
	***	3. 33	·0974	6. 34	·00430			
7. 28	19. 35	4. 4:	·0956	8. 2	·00405			
	***		***	10. 46:	·00484			
8. 23	11. 55	5. 50	·1006	14. 15	·00837			
9. 31	19. 10	6. 8:	·0988	20. 0	·00790			
	***	6. 30	·1006	21. 45	·00805			
10. 41	20. 0	6. 52	·1006	23. 35	·00746			
11. 0	17. 5	7. 2:	·0996					
	***	7. 29	·1006					
13. 42	20. 5	8. 8	·0983					
	***		***					
14. 32	16. 15	13. 30	·1008					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 28	° ′ ″	July 28						
h m		h m		h m		h m	°	°
15. 41	22. 20. 45 ***	15. 12	·0994 ***					
16. 30	17. 20	18. 30	·1004					
16. 40	19. 30 ***	20. 4	·0988					
		21. 9	·0949 ***					
18. 15	13. 30 ***							
		22. 28	·0978 ***					
19. 14	15. 10 ***							
		23. 59	·0975					
19. 50	17. 10 ***							
20. 16:	15. 25 ***							
21. 53	27. 5							
22. 1	24. 5							
22. 13	25. 40							
22. 28	23. 10							
22. 33	25. 5							
23. 13	21. 25							
23. 59	22. 30							
July 29		July 29		July 29				
1. 1	22. 25. 10	0. 34	·0957 ***	1. 30	·00501	1. 40	72 ·0	75 ·0
1. 9	27. 10			1. 53	·00400	3. 40	75 ·0	78 ·0
1. 28	26. 0 (†)	1. 28	·0966 (†)	2. 19	·00402	9. 40	70 ·0	75 ·0
				3. 35	·00475	21. 40	64 ·0	67 ·5
3. 40	22. 33* (†)	13. 30	·1008	5. 11	·00420 ***			
		14. 36	·0993					
9. 40	11. 0* (†)	15. 35	·1007	7. 37	·00483			
		16. 15	·0974	7. 55	·00460			
13. 30	21. 15 ***	16. 58	·1006 ***	8. 2	·00480			
				8. 17	·00420			
13. 45	19. 0 ***	17. 50	·1010	8. 35	·00410			
		18. 34	·0990	9. 52:	·00475			
14. 50	19. 35	22. 19	·0978 (†)	12. 27	·00885			
15. 12	15. 45			16. 15	·00740			
15. 37	17. 35			17. 36	·00740			
15. 50	15. 25			18. 14	·00702			
16. 13	27. 0			22. 16	·00759 (†)			
17. 13	15. 35 ***							
17. 50	19. 30 ***							
18. 35	13. 35							
18. 52	16. 0							
19. 1	13. 0							
19. 6	15. 55							
19. 16	12. 10 ***							
20. 0	20. 35 ***							
20. 57	17. 15 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 29	° ′ ″							
h m		h m		h m		h m	°	°
21. 37	22. 20. 0 ***							
22. 5	16. 0 ***							
22. 58	16. 35 ***							
23. 59	21. 25							
July 30		July 30		July 30				
1. 9	22. 22. 10 ***	0. 12	·0970 ***	1. 30	·00630	1. 40	68 ·0	70 ·0
				3. 6	·00340	3. 40	70 ·0	73 ·0
2. 17	26. 0 ***	2. 47	·0979	5. 18	·00413	9. 40	71 ·5	74 ·0
		3. 12	·0961 ***	8. 3	·00340	21. 40	63 ·0	66 ·0
3. 28	20. 20 ***			8. 46	·00374			
		4. 14	·0992	9. 18	·00353			
5. 31	17. 25 ***	4. 23	·0983	10. 6:	·00362			
		5. 17	·0981	13. 45	·00823			
6. 34	19. 30 ***	5. 27	·0981 ***	18. 30	·00690			
				21. 38	·00707			
7. 44	17. 30 ***	6. 36	·0985	23. 30	·00562			
		6. 45	·0977					
8. 18	11. 25 ***	12. 22	·0991					
		14. 14	·1001					
8. 29	13. 5 ***	16. 28	·1009					
		17. 8	·0988					
8. 36	11. 35 ***	18. 20	·1014					
		19. 31	·0992					
9. 58	19. 0 ***	22. 30	·0974					
		23. 59	·0980					
12. 58	19. 50 ***							
13. 15	21. 35 ***							
16. 18	17. 0 ***							
17. 31	21. 5 ***							
18. 15	20. 50 ***							
18. 58	17. 0 ***							
19. 20	18. 50 ***							
21. 42	19. 25 ***							
22. 30	23. 5* ***							
23. 40	22. 0 ***							
23. 58	23. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 31		July 31		July 31				
h m	° ′ ″	h m		h m		h m	°	°
0. 18	22. 24. 30	0. 15	·0980	1. 6	·00230	1. 40	69 ·0	74 ·0
	***	1. 50	·0968	5. 15	·00460	3. 40	73 ·0	77 ·0
1. 44	26. 5	2. 41	·0992	10. 7:	·00361	10. 4	72 ·0	76 ·5
2. 3	24. 20	3. 0	·0980	14. 51	·00848	22. 40	68 ·0	70 ·5
	***	3. 32	·0980	17. 0	·00800			
4. 50	23. 30	3. 56	·0997	19. 30	·00792			
	***	4. 46	·0997	22. 0	·00820			
5. 30	17. 10	5. 2	·0973	23. 11	·00760			
	***	5. 24	·0988					
7. 8	20. 5	6. 37	·0979					
	***	6. 59	·0992					
9. 15	16. 35	7. 16	·0980					
	***	9. 14	·0985					
9. 26	14. 5	9. 33	·1010					
	***	10. 20	·0985					
9. 57	20. 20	12. 48	·0995					
	***	13. 35	·1016					
10. 47	16. 0	14. 21:	·0993					
	***	15. 16	·1004					
13. 14	20. 10	15. 39	·0983					
13. 26	18. 25	16. 17	·1004					
13. 43	20. 5	20. 14	·1003					
	***	21. 47	·0970					
14. 33	14. 35	23. 22	·0961					
15. 11	16. 15							
15. 56	24. 0							
16. 45	16. 25							
	***							
19. 30	13. 45							
	***							
23. 29	23. 0							
Aug. 1		Aug. 1		Aug. 1				
0. 0	22. 23. 50	0. 32	·0966	0. 30	·00515	8. 10	77 ·0	80 ·0
2. 28	22. 35		***	1. 27	·00304	21. 40	67 ·0	70 ·0
3. 31	18. 40	1. 2	·0952	5. 40	·00820			
4. 32	20. 55		***	8. 1	·00433			
6. 45	14. 55	2. 28	·0977	8. 54	·00450			
9. 27	16. 35	2. 45	·0960	9. 44:	·00430			
9. 44	13. 45		***	14. 29	·00870			
	***	5. 40	·0976	19. 0	·00803			
13. 6	21. 5	6. 20:	·0961	22. 30	·00805			
14. 40	13. 35		***	23. 46	·00770			
15. 41	19. 35	7. 50	·0982					
16. 40	14. 30		***					
18. 52	14. 10	12. 33	·0980					
19. 32	16. 5	13. 3	·0987					
21. 42	16. 0		***					
23. 59	21. 30	14. 20	·0994					
		15. 39	·0990					
		17. 32	·1000					
		23. 59	·0970					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 2		Aug. 2		Aug. 2				
h m	° ′ ″	h m		h m		h m	°	°
1. 8	22. 23. 40	1. 3	·0975	1. 30	·00597	1. 40	71 ·0	74 ·0
	***	2. 30	·0982	3. 1	·00341	3. 40	74 ·0	77 ·0
3. 0	23. 0	4. 7	·0978	5. 0	·00410	9. 40	75 ·0	78 ·0
	***	7. 8	·0977	8. 10:	·00371	21. 45	64 ·0	68 ·0
7. 0	17. 0	12. 28	·0996	13. 29	·00865			
	***	17. 30	·1013	20. 0	·00758			
14. 47	18. 55	22. 0:	·0984	23. 30	·00711			
	***	23. 59	·0984					
18. 23	12. 0							
	***							
21. 0	13. 5							
	***							
23. 59	21. 5							
Aug. 3		Aug. 3		Aug. 3				
0. 44	22. 21. 55	0. 57	·0984	1. 0	·00653	1. 40	66 ·0	69 ·5
	***	3. 5	·1004	3. 8	·00591	3. 40	65 ·0	70 ·0
3. 0	23. 50		***	5. 19	·00620	9. 40	68 ·0	70 ·0
	***	4. 30	·1011	11. 6:	·00615	21. 40	63 ·5	66 ·1
10. 2	17. 20	4. 45	·1000	14. 45	{ ·00772			
	***		***		{ ·00749			
15. 7	13. 40	5. 25	·1028	17. 38	·00738			
16. 42	15. 15		***	21. 42	·00690			
17. 31	12. 5	8. 50	·1022	23. 30	·00595			
	***		***					
19. 46	14. 0	11. 40	·1005					
19. 57	11. 50	12. 3	·1014					
	***	14. 58	·1009					
23. 59	22. 5	15. 15	·1004					
		18. 45	·1004					
			***					
		22. 47	·0985					
			***					
		23. 59	·0989					
Aug. 4		Aug. 4		Aug. 4				
0. 16	22. 23. 10	0. 45	·0991	1. 0	·00435	1. 40	67 ·0	69 ·0
	***	5. 40	·0987	2. 50	·00183	3. 40	69 ·0	71 ·0
7. 0	17. 50	12. 0	·1003	4. 8	·00330	9. 40	70 ·0	72 ·5
	***	13. 30	·1006	4. 28	·00290	21. 40	64 ·0	67 ·5
11. 39	15. 20	18. 8	·1021	9. 36:	·00253			
12. 40	18. 30		***	14. 43	·00760			
13. 8	15. 40	23. 40	·0986	18. 0	·00700			
16. 36	14. 5			20. 43	·00706			
17. 16	15. 30			23. 24	·00635			
17. 48	12. 40							
	***							
20. 17	11. 25							
	***							
23. 47	20. 55							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 5	° ′ ″	Aug. 5		Aug. 5		h m	°	°
h m		h m		h m				
0. 0	22. 20. 50	0. 0	·0990	0. 30	·00505	1. 40	67 ·8	69 ·5
	***	1. 0	·0986	2. 58	·00173	3. 40	68 ·5	72 ·5
2. 2	24. 25		***	6. 26	·00248	9. 40	70 ·0	72 ·0
	***	4. 36	·0990		***	21. 40	63 ·5	67 ·0
6. 52	19. 0	4. 52	·1000	6. 46	·00231			
	***	5. 9	·0989	7. 5	·00249			
8. 16	20. 5		***		***			
	***	6. 38	·1017	8. 3	·00211			
9. 0	14. 30	7. 3	·1001	8. 14	·00226			
9. 10	17. 5	7. 13	·1029	8. 22:	·00214			
9. 38	22. 16. 15		***		***			
	***	8. 16	·1027	15. 20	·00730			
10. 1	21. 58. 35	8. 40	·1006	21. 0	·00671			
	***		***	23. 30	·00626			
11. 30	22. 11. 50	9. 5	·1017					
	***	9. 38	·1004					
12. 26	14. 5	10. 3	·1023					
	***		***					
13. 0	11. 0	11. 27	·0997					
	***		***					
15. 40	14. 15	12. 18	·1009					
	***	12. 45	·0993					
15. 57	12. 0		***					
	***	14. 10	·1010					
16. 12	15. 30		***					
	***	19. 15	·1008					
16. 33	13. 30		***					
	***	21. 12	·0992					
17. 0	16. 35	21. 45	·1000					
	***	23. 37	·0994					
18. 22	13. 10							
	***							
18. 44	14. 50							
	***							
19. 5	11. 25							
	***							
19. 30	17. 5							
	***							
19. 33	12. 50							
	***							
19. 40	16. 0							
	***							
19. 48	14. 25							
	***							
23. 59	22. 30							
	***							
Aug. 6		Aug. 6		Aug. 6				
0. 24	22. 24. 0	1. 10	·0989	1. 0	·00525	1. 40	66 ·8	69 ·0
	***		***	4. 41	·00170	3. 40	68 ·0	70 ·0
2. 16	25. 45	6. 42	·1013	7. 51	·00170	9. 47	66 ·0	69 ·0
	***		***	8. 46	·00210	21. 40	62 ·0	66 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 6	° ′ ″	Aug. 6		Aug. 6		h m	°	°
h m		h m		h m				
6. 45	22. 16. 30	8. 40	·1003	10. 55:	·00203			
7. 46	18. 35		***	15. 7:	·00460			
8. 26	15. 15	14. 32	·1018	18. 7	·00654			
8. 39	16. 55	14. 55	·1010	18. 30	·00641			
	***	17. 30	·0982	21. 0	·00685			
9. 16	16. 0	18. 9	·1002	23. 30	·00610			
	***		***					
14. 38	17. 0	19. 45	·1014					
	***		***					
15. 30	25. 5	21. 52	·1000					
16. 13	19. 20		***					
16. 22	20. 10	23. 15	·0972					
16. 50	17. 30	23. 59	·0982					
	***		***					
18. 20	21. 0							
	***							
19. 29	15. 35							
	***							
19. 46	17. 10							
	***							
20. 13	15. 0							
	***							
23. 59	23. 0							
Aug. 7		Aug. 7		Aug. 7				
0. 42	22. 24. 25	0. 36	·0982	1. 15	·00460	1. 40	67 ·5	70 ·0
	***		***	2. 43	·00243	3. 40	69 ·0	73 ·0
2. 30	21. 15	7. 15	·0995	2. 53	·00263	9. 40	71 ·0	76 ·0
	***	8. 38	·0984	8. 2	·00232	23. 15	63 ·0	67 ·0
8. 30	18. 25	9. 40	·0998	9. 38:	·00250			
9. 34	16. 35	11. 10	·1005	15. 46	·00740			
10. 48	19. 0	12. 0:	·1000	21. 0	·00706			
11. 45	17. 0	14. 45	·1002	23. 9	·00690			
12. 34	19. 15	15. 9	·1012					
14. 0	17. 30	15. 45:	·1006					
14. 46	23. 25	16. 50:	·1018					
15. 38	17. 0	17. 40:	·1007					
16. 19	19. 35	18. 36:	·1016					
	***	20. 54	·1002					
17. 16	16. 0	22. 45	·0978					
	***	23. 30	·0982					
20. 53	15. 0							
	***							
23. 27	21. 20							
	***							
Aug. 8		Aug. 8		Aug. 8				
0. 0	22. 21. 20	0. 30	. 0982	0. 30	·00622	12. 5	64 ·0	69 ·0
	***		***	4. 10	·00199	21. 40	64 ·0	67 ·0
3. 0	26. 0	2. 0	·0992	4. 22	·00215			
	***	2. 40	·1010	8. 0	·00220			
7. 0	18. 0		***	8. 50	·00257			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 8		Aug. 8		Aug. 8		h m	o	o
h m	o ′ ″	h m		h m				
7.33	22. 15. 30	3.30	·0995	11.15:	·00215			
	***		***	16.40	·00737			
10.42	17. 5	5.10	·1011	21. 0	·00710			
11.11	21.50		***	23.30	·00658			
12. 7	11.45	5.50	·1000					
	***		***					
14.31	18. 0	9.45	·1000					
15. 0	21.30		***					
16.22	17.55	11. 0:	·1016					
	***	11.52	·1002					
17.51	15.20	12.10	·1010					
18.50	15.30	13. 0	·0998					
20. 0	13.30		***					
	***	14. 5	·1002					
23.59	20.35	15. 0	·0991					
		16.45	·1010					
			***					
		18.45	·1000					
		20.15:	·1005					
			***					
		23.15	·0981					
		23.55	·0984					
Aug. 9		Aug. 9		Aug. 9				
1. 3	22.23. 5	1. 0	·0986	1.30	·00530	1.40	66·5	69·0
2.30	24.30		***	5. 0	·00174	3.40	68·0	71·0
9.26	16.35	6.10	·1007	5.28	·00195	9.40	70·0	71·0
	(†)	6.34	·0993	7.50	·00180	21.40	62·5	64·0
21.36	16.25	7.34	·1007	9.26	·00195			
23.55	22.55		***		(†)			
		9.26	·1005	21.36	·00320			
			(†)	22.40	·00310			
		21.35	·1005	23.40	·00230			
			***					
		23.12	·0984					
		23.59	·0988					
Aug. 10		Aug. 10		Aug. 10				
1. 0	22.23.30	1. 0	·0991	2.37	·01266	1.40	66·0	69·0
	***	2. 5	·1000	3.11	·01155	3.40	69·0	71·0
6. 0	17. 0	3.27	·0990	4.50	·01104	9.40	70·0	74·0
6.37	12. 0	4.35	·0997	7.28	·01123	21.40	63·0	66·0
7.38	17.10	5. 0:	·0988	9. 1	·01173			
	***		***	9.58	·01111			
8.51	12.40	6. 0	·1011	10.21	·01122			
	***		***	10.39	·01111			
9.12	20.50	7.33	·0992	11.15	·01125			
10.14	8.20		***	12.13	·01235			
10.27	9.50	8. 8	·1010	12.22:	·01228			
10.46	7.35		***	15.16	·01690			
11. 4	10. 0	8.45	·0990	16.48	·01650			
11.29	8.25	9. 4	·1010	17.38	·01660			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 10		Aug. 10		Aug. 10		h m	o	o
h m	o ′ ″	h m		h m				
11.51	22. 2. 25	9.28	·0989	18.14	·01651			
12.20	18. 0	10. 2:	·0988	19.51	·01680			
	***	10.30:	·0998	23.45	·01580			
13. 8	15.40		***					
13.31	17.50	11.55	·0970					
14. 0	14. 0	12.15:	·0980					
	***	12.24	·0971					
14.38	13. 0	12.45	·1000					
15.33	19.50		***					
	***	15. 7	·0983					
17.14	11.40	16.26	·1005					
	***	18.20	·1004					
20.30	16.35		***					
	***	20.33	·0987					
21.13	15. 5	21.45	·1000					
	***	22.40	·1000					
23.59	22. 5	23.15	·1004					
		23.59	·1000					
Aug. 11		Aug. 11		Aug. 11				
0.33	22.23.55	0.30	·1000	1.30	·01645	1.40	63·5	67·0
	***	1. 5	·1000	1.45	·01660	3.42	63·5	67·0
3.34	25. 0	1.15	·1009	4.21	·01471	9.40	63·0	65·5
	***	1.27	·1002	7.20	·01656	21.40	61·0	63·0
5.59	19.20	1.45	·1014	7.27	·01650			
7.35	20.55	2. 5	·1005	8.16	·01698			
8. 1	17.10	2.47	·1006	10. 0	·01680			
	***	3.34	·1023	13.30	·01603			
10.57	21. 0	4.12	·1009	15.23	·01601			
11.33	17.15		***	16.17	·01545			
	***	5.46	·1013	17.16	·01560			
13.12	18.35		***	17.38	·01580			
13.40	16.30	6.24	·1025	21.54	·01561			
18.22	17.30		***	23.41	·01530			
18.41	14.40	8.33	·1012					
21.12	15. 5	8.45	·1021					
	***		***					
22. 1	19.55	11.37	·1014					
22.28	15.25		***					
	***	12.40:	·1037					
23.30	17. 0	13.32:	·1020					
	***	15.37:	·1013					
23.50	24.25	16. 6	·1022					
			***					
		17. 2	·1024					
			***					
		20.45	·0994					
			***					
		22.33	·0996					
			***					
		23.41	·1004					
		23.59	·0993					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 12		Aug. 12		Aug. 12				
h m	° ′ ″	h m		h m		h m	°	°
1. 11	22. 25. 5	0. 34	·0998	1. 30	·01431	1. 40	63 ·0	66 ·0
	***	1. 0	·1010	4. 11	·01031	3. 40	64 ·0	67 ·7
5. 0	22. 30	2. 0	·1014	4. 15	·01040	9. 40	64 ·5	68 ·0
	***		***	4. 18	·01030	21. 40	61 ·0	65 ·0
5. 41	18. 25	3. 54	·1022		***			
	***		***	7. 30	·00990			
7. 59	15. 30	4. 19	·1011	7. 40	·01010			
8. 43	20. 0	4. 35	·1026	7. 50	·00985			
	***		***	10. 33	·00980			
10. 21	18. 30	5. 26	·1018	10. 59	·00961			
10. 46	23. 0	5. 40	·1004	13. 30:	·01032			
11. 38	20. 5		***	21. 44	·01420			
	***	6. 4	·1024	23. 15	·01385			
18. 56	15. 5	6. 59	·1017	23. 49	·01335			
19. 27	13. 45	7. 33	·1026					
	***	7. 46	·1050					
23. 59	28. 0		***					
		8. 46	·1008					
			***					
		10. 9	·1016					
		10. 36	·1028					
		11. 27	·1012					
			***					
		12. 50	·1015					
		13. 48	·1020					
			***					
		19. 57	·1004					
		21. 12	·1007					
		22. 45	·0996					
		23. 27	·1002					
		23. 59	·0990					
Aug. 13		Aug. 13		Aug. 13				
1. 1	22. 29. 10	0. 45	·0991	1. 30	·01063	1. 40	63 ·0	66 ·0
1. 17	29. 50	1. 58	·0983	1. 46	·01001	3. 40	67 ·0	71 ·5
6. 0	15. 25	5. 57	·0989	4. 30	·01100	9. 40	69 ·0	72 ·0
7. 41	11. 55	7. 5	·0998	7. 33	·01107	21. 40	63 ·0	65 ·0
9. 29	17. 30	7. 27	·1009	8. 45	·01140			
10. 10	16. 5		***	11. 30:	·01085			
10. 56	18. 35	7. 50	·1009	16. 40	·01720			
12. 4	15. 40	8. 26	·0994	17. 56	·01633			
13. 1	18. 40		***	21. 51	·01647			
	***	11. 19	·1006	23. 12	·01673			
16. 10	17. 5	12. 40	·0994					
	***	16. 43:	·1003					
17. 3	23. 35	17. 27:	·1022					
	***	19. 0	·1007					
18. 17	12. 35	21. 27	·0995					
	***	22. 28	·0978					
19. 41	12. 0		***					
	***	23. 59	·0980					
21. 15	14. 35							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 13								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 23. 5							
Aug. 14		Aug. 14		Aug. 14				
1. 0	22. 25. 15	0. 45	·0982	1. 30	·01368	1. 40	67 ·0	69 ·0
2. 21	26. 10	1. 56	·0975	2. 30	·01121	3. 40	69 ·5	72 ·5
	***	2. 25	·0983	4. 0	·01161	9. 40	71 ·1	73 ·0
5. 49	15. 25	2. 52	·0975	9. 35:	·01115	22. 40	65 ·0	68 ·0
	***		***	17. 26	·01809			
10. 20	17. 0	5. 38	·0986	21. 0	·01780			
10. 37	14. 10		***	23. 5	·01772			
	***	10. 22	·0997					
15. 51	16. 25	10. 42	·1007					
16. 15	19. 50		***					
	***	12. 30	·0995					
18. 9	15. 0		***					
	***	14. 50	·1005					
23. 28	21. 30	18. 0	·1005					
		23. 20	·0991					
		23. 59	·0998					
Aug. 15		Aug. 15		Aug. 15				
0. 0	22. 23. 25	0. 38	·1000	1. 30	·01744	9. 40	70 ·0	72 ·0
1. 0	25. 0		***	7. 46	·01091	21. 40	63 ·5	66 ·5
	***	3. 30	·1002	8. 13	·01125			
10. 0	16. 30		***	11. 0:	·01075			
10. 30	13. 30	3. 56	·1013	18. 10	·01802			
11. 0	16. 40		***	21. 39	·01750			
11. 49	14. 10	4. 52	·0990	23. 0	·01780			
14. 14	18. 55		***					
17. 35	14. 40	6. 3	·0993					
18. 27	17. 15	6. 17	·1000					
20. 0	13. 40	7. 2	·1008					
23. 59	22. 40	7. 45	·1010					
		8. 40	·1000					
		10. 6	·0996					
		10. 40	·1004					
		11. 8	·0996					
		11. 30	·1002					
		12. 30	·0994					
		13. 24	·1000					
		16. 50	·1000					
		17. 36	·1004					
		18. 30:	·0996					
		19. 30:	·1004					
		23. 0	·0987					
		23. 59	·0990					
Aug. 16		Aug. 16		Aug. 16				
1. 0	22. 25. 20	1. 5	·0995	1. 30	·01625	1. 40	66 ·5	69 ·0
5. 34	17. 0	2. 15	·1000	7. 0	·01060	3. 40	67 ·5	70 ·0
7. 50	18. 15	3. 0	·1008	8. 54	·01096	9. 40	70 ·0	74 ·0
16. 0	17. 30	4. 6	·1001	9. 57	·01080	21. 40	67 ·0	71 ·0

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Aug. 10. The adjustments of the Vertical Force Magnet were altered so as to increase the readings by 0 ·01 parts of the whole Vertical Force, nearly.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 16		Aug. 16		Aug. 16				
h m	° ′ ″	h m		h m		h m	°	°
21. 48	22. 16. 35	5. 17	·1012	14. 0:	·01057			
23. 59	25. 5	5. 30	·1007	22. 30	·01300			
		5. 50	·1012	23. 41	·01279			
		18. 25:	·1000					
		22. 10	·0983					
		23. 59	·0986					
Aug. 17		Aug. 17		Aug. 17				
1. 0	22. 27. 0	0. 50	·0988	2. 14	·01160	1. 40	69 ·5	72 ·0
8. 18	17. 35	1. 0	·0995	6. 30	·01133	3. 40	71 ·0	74 ·0
8. 58	15. 30	1. 37	·0999	8. 13	·01155	9. 40	73 ·0	76 ·0
10. 0	18. 5	7. 50	·1010	10. 30	·01120	21. 40	68 ·0	71 ·5
10. 12	17. 5	9. 28	·1000	12. 30:	·01134			
17. 0	17. 10	13. 0	·1007	22. 30	·01864			
20. 30	13. 30	19. 0	·1007	23. 55	·01792			
23. 59	25. 35	23. 10	·0978					
		23. 59	·0982					
Aug. 18		Aug. 18		Aug. 18				
1. 6	22. 28. 5	1. 7	.0988	0. 0	·01790	1. 40	72 ·0	74 ·4
7. 0	16. 0	4. 4	·0996	2. 0	·01604	3. 40	73 ·0	75 ·5
	***	6. 8	·0988	4. 58	·01172	9. 40	73 ·0	77 ·0
17. 0	16. 30	8. 24	·1000	6. 30	·01171	21. 40	64. 0	67 ·5
	***	12. 32	·1001	7. 42	·01135			
20. 50	12. 10	13. 3	·1006	8. 34:	·01150			
	***	14. 0:	·1003	17. 2	·01926			
23. 59	22. 20	18. 36	·1012	21. 49	·01869			
		23. 8	·0984	23. 30	·01861			
		23. 59	·0984					
Aug. 19		Aug. 19		Aug. 19				
1. 9	22. 25. 30	1. 6	·0984	0. 30	·01859	1. 40	74 ·0	77 ·0
	***		***	1. 57	·01730	3. 40	75 ·0	77 ·8
3. 27	26. 0	2. 45	·0989	5. 13	·01161	9. 40	73 ·5	75 ·0
7. 18	15. 25		***	7. 47	·01166	21. 40	64 ·0	69 ·0
13. 40	15. 40	3. 3	·1001	8. 30	·01180			
18. 20	14. 20	3. 16	·0990	10. 0	·01120			
20. 53:	10. 40	3. 27	·1000	19. 3	·01961			
23. 59	20. 30	3. 29	·0988	23. 30	·01890			
			***					
		5. 10:	·1000					
		5. 42	·1001					
			***					
		6. 0	·0992					
			***					
		7. 30	·1000					
			***					
		8. 12	·0995					
		9. 0	·1000					
			***					
		9. 28	·1012					
		9. 46:	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Aug. 19 h m		h m		h m	°	°
		12. 48	·1002					
		13. 10	·1007					
		14. 0	·1004					
		17. 30	·1009					
		19. 45	·1004					
		21. 40	·0984					
		23. 59	·0985					
Aug. 20		Aug. 20		Aug. 20				
0. 4	22. 20. 30	0. 15	·0989	1. 48	·01896	1. 40	68 ·0	73 ·0
1. 30	25. 0	0. 22	·0984	3. 43	{ ·01927	3. 40	68 ·5	73 ·0
7. 0	16. 25		***		{ ·01860	9. 40	67 ·5	70 ·0
13. 0	16. 10	3. 35	·1006	5. 0	·01848	21. 40	66 ·0	68 ·0
17. 30	15. 10	6. 35	·1018	8. 0	·01772			
19. 51:	10. 20	12. 0	·1017	10. 0	·01701			
23. 44	23. 5	18. 15	·1016	13. 0	·01710			
		22. 56	·0989	14. 30	·01719			
		23. 40	·0991	19. 0	·01899			
				23. 30	·01864			
Aug. 21		Aug. 21		Aug. 21				
0. 0	22. 23. 55	0. 0	·0990	1. 30	·01753	1. 40	67 ·0	72 ·0
0. 43	25. 20	0. 45	·0988	5. 13	·01153	3. 40	70 ·0	73 ·0
	(†)	2. 50	·0998	9. 8	·01145	9. 40	73 ·0	77 ·0
3. 1	27. 10	7. 10	·1012	11. 14:	·01107	21. 50	65 ·0	69 ·5
6. 40	20. 35	15. 30	·1015	22. 5	·01876			
	***	17. 30	·1009					
17. 39	20. 0	22. 2	·0996					
	***	22. 15	·0992					
19. 30	16. 10	23. 33	·0993					
	***	23. 59	·0997					
22. 12	21. 30							
23. 59	32. 20							
Aug. 22		Aug. 22		Aug. 22				
1. 0	22. 32. 25	0. 25	·1000	0. 0	·01905	10. 2	74 ·0	77 ·0
6. 30	18. 0	0. 34	·1003	2. 0	·01878	21. 40	65 ·0	68 ·8
	***	2. 0	·1003	6. 1	·01180			
7. 40	14. 5	2. 24	·1009	7. 41	·01200			
	***	3. 42	·0994	8. 20	·01225			
10. 30	21. 0		***	8. 47	·01212			
	***	4. 30	·1001	10. 17	·01163			
11. 30	19. 30		***	17. 28	·01980			
	***	5. 28	·0994	20. 39	·01951			
17. 8	19. 0		***	22. 8	·01915			
	***	6. 56	·1011	23. 34	·01920			
19. 21	15. 5	8. 54	·0989					
	***	9. 39	·1002					
21. 0	22. 25		***					
21. 18	21. 0	10. 51	·0992					
	***	11. 12	·1000					
23. 30	30. 30	11. 38	·0993					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 22 h m		h m		h m	°	°
		14. 8	·0994					
		14. 40	·1005 ***					
		17. 40	·1012 ***					
		20. 0	·1000					
		20. 33	·0994					
		21. 0	·1002					
		21. 20	·0993 ***					
		22. 33	·0984 ***					
		23. 30	·0985					
		23. 59	·0995					
Aug. 23		Aug. 23		Aug. 23				
0. 0	22. 32. 10	0. 22	·0997 ***	1. 0	·01912	1. 40	68 ·0	71 ·5
0. 42	35. 25			2. 0	·01851	3. 40	69 ·0	74 ·0
	(†)	1. 0	·0986 ***	5. 55	·01169	9. 40	71 ·3	74 ·0
3. 11	32. 0			6. 20	·01170	21. 40	65 ·0	68 ·8
6. 12:	20. 0	1. 36	·0987	7. 39	·01122			
9. 45	26. 55	2. 20	·1000	11. 0	·01126			
11. 8	24. 35	2. 50	·1000	13. 40	·01170			
11. 30:	26. 35	3. 6	·0995	21. 8	·01890			
11. 58	23. 20	3. 29	·1000	21. 39	·01866			
12. 54:	27. 0	4. 4:	·0988 ***	23. 30	·01883			
13. 48	24. 0							
14. 16	27. 0	4. 35	·0993					
15. 0	26. 30	5. 7	·0977					
16. 0	31. 0	7. 46	·1004					
16. 31	28. 0	9. 19	·1008					
17. 48	34. 25	9. 33	·1010					
19. 20	33. 25 ***	10. 27	·1004					
		10. 37	·1011					
19. 57	40. 20 ***	11. 24	·1008					
		11. 52	·0992					
21. 12	33. 55	12. 20	·0991					
21. 58	34. 5	12. 48	·1000					
23. 32	41. 25	13. 24	·1001					
		13. 50	·0992 ***					
		16. 33	·1012					
		16. 54	·1000					
		17. 25	·1000					
		18. 18:	·1016					
		19. 39	·0985					
		20. 21:	·1015 ***					
		21. 58	·1000 ***					
		23. 35	·0991					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 24 h m	° ′ ″	Aug. 24 h m		Aug. 24 h m		h m	°	°
0. 0	22. 24. 10	0. 0	·0986	1. 0	·01910	1. 40	68 ·0	71 ·0
1. 13:	28. 0 ***	0. 44	·0974	3. 51	·01701	3. 40	69 ·5	73 ·0
		1. 0	·0987 ***	4. 8	·01692 ***	9. 40	69 ·5	72 ·0
2. 41	21. 35 ***					21. 40	66 ·0	68 ·0
		2. 23	·0985	7. 3	·01460			
3. 20	21. 20 ***	3. 0	·1002	8. 9	·01495			
		3. 46	·0976	9. 10	·01474			
3. 45	23. 30 ***	4. 10	·1020	10. 54	·01489			
		4. 24	·0999	11. 52:	·01461			
5. 0	21. 0 ***	4. 34	·1009 ***	18. 38	·01900 ***			
6. 0	14. 5	5. 9	·0987 ***	21. 30	·01865			
7. 1	14. 10			22. 47	·01890			
7. 9	10. 35	6. 45	·1023 ***					
7. 42	8. 0							
8. 20	9. 10 ***	8. 4	·0996 ***					
9. 50	16. 5 ***	8. 45	·1014 ***					
11. 10	14. 50	10. 56	·1011 ***					
11. 16	13. 10							
11. 30	14. 0	11. 27	·1027					
11. 58	5. 25 ***	11. 57	·1016					
		12. 4	·1026					
12. 14	10. 40 ***	12. 30:	·1008 ***					
14. 28	16. 20 ***	13. 48	·1012 ***					
15. 2	21. 0 ***	14. 30:	·1000 ***					
15. 38	16. 0 ***	16. 30	·1020					
		17. 0	·1007					
16. 14	18. 50 ***	18. 8	·1004					
		18. 43	·1008 ***					
17. 9	13. 5 ***	20. 19	·0978 ***					
18. 0	16. 15 ***	21. 30	·0992 ***					
19. 13	12. 10 ***	23. 8	·0984					
19. 45	15. 25 ***	23. 30	·0996					
20. 15	13. 55							
20. 50	16. 30							
20. 57	13. 30							
21. 0	17. 10							
21. 4	14. 10							
21. 12	17. 0							
21. 20	16. 10							
21. 36	19. 10 ***							
23. 28	13. 40							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 25		Aug. 25		Aug. 25				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 26. 25	0. 28	·0962 ***	0. 0	·01838	1. 40	69 ·0	71 ·5
0. 45	24. 20			1. 30	·01690	3. 40	71 ·0	74 ·0
2. 9	25. 0	1. 33	·0992	4. 10	·01170	9. 40	72 ·0	74 ·5
3. 40	23. 9* (†)	2. 2	·0972 ***	4. 30	·01198 ***	21. 40	69 ·0	71 ·0
9. 40	13. 5* (†)	3. 0	·0996	7. 17	·01206			
		3. 10	·0990	11. 30	·01122			
21. 40	16. 7* (†)	3. 38	·0996 ***	12. 21	·01113			
				12. 41	·01091			
		4. 10	·0976	13. 6	·01127			
		5. 33	·1000	14. 0	·01160			
		5. 53	·0988	15. 6:	·01116			
		6. 4	·0994	23. 0	·01710			
		6. 10	·0982					
		7. 36	·1007 ***					
		10. 6	·0996					
		10. 24	·1031					
		10. 52	·1008 ***					
		11. 33	·1000					
		12. 4	·0979					
		12. 26	·1014					
		12. 44	·0995					
		13. 15	·1008 ***					
		13. 47	·1005 ***					
		14. 20	·1017 ***					
		15. 15	·0994 ***					
		16. 58	·1023					
		17. 45	·1000 ***					
		19. 7	·1000					
		20. 0	·0997 ***					
		21. 4	·0961					
		23. 0	·0998 ***					
		23. 32	·0980					
Aug. 26		Aug. 26		Aug. 26				
1. 33	22. 22. 0	0. 8	·0993	1. 0	·01640	1. 40	71 ·5	74 ·0
2. 28	16. 0	0. 54	·0996	4. 0	·01221	3. 40	72 ·5	75 ·5
2. 45	17. 15	1. 27	·0982	5. 17	·01258	9. 40	72 ·0	75 ·0
3. 0	15. 30 ***	1. 38	·0986	6. 33	·01212	21. 40	66 ·5	69 ·5
		2. 0	·0970	6. 43	·01339			
4. 0	16. 10 ***	2. 45	·0997	8. 0:	·01302			
		3. 0	·0990 ***	15. 11	·01969			
5. 1	7. 10			17. 20	·01910			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 26		Aug. 26		Aug. 26				
h m	° ′ ″	h m		h m		h m	°	°
5. 30	22. 10. 35 ***	3. 30	·0998 ***	18. 27	·01936			
				22. 30	·01900			
9. 45	12. 10 ***	4. 24	·0974 ***	22. 51	·01920			
10. 38	9. 35	5. 10	·1013 ***					
12. 30	14. 30							
12. 48	13. 0 ***	6. 5	·0981					
		7. 5	·1000					
14. 0	16. 0 ***	7. 23	·0990					
		8. 0	·0996					
15. 8	13. 0 ***	8. 15	·1012					
		8. 45	·0988					
16. 27	16. 25	9. 12	·1000					
18. 28	15. 0	9. 50	·0992					
18. 54	11. 25	10. 12	·1004					
20. 0	13. 40	10. 22	·1000 ***					
20. 20	12. 0							
20. 46	14. 0	11. 55	·1000					
21. 15	13. 0 ***	12. 33	·1005					
		12. 44	·1002 ***					
23. 50	21. 40							
		13. 55	·1012 ***					
		16. 30	·0998 ***					
		18. 5	·1004					
		18. 23	·1014					
		18. 34	·1005 ***					
		20. 3	·1000 ***					
		21. 23	·0986 ***					
		23. 33	·0986					
Aug. 27		Aug. 27		Aug. 27				
0. 16	22. 22. 10	0. 22	·0978	1. 30	·01657	1. 40	68 ·7	72 ·0
0. 46	24. 5 ***	0. 40	·0970 ***	3. 3	·01259	3. 40	73 ·0	76 ·5
				3. 26	·01293	9. 40	74 ·5	76 ·0
2. 50	20. 25	2. 28	·0976	5. 37	·01260	21. 40	67 ·0	70 ·0
3. 5	16. 25 ***	2. 32	·0968	5. 45	·01344			
		2. 55	·0968	8. 0:	·01230			
5. 37	13. 50	3. 15	·0993 ***	11. 26:	·01444			
7. 12	7. 55			14. 35:	·01680			
8. 57	15. 20	3. 58	·0972 ***	15. 2:	·01723			
9. 45	15. 0			16. 32	·01944			
10. 37	8. 50	6. 20	·0991	21. 40	{ ·01924			
10. 58	11. 55	6. 38	·0982		{ ·01786			
11. 6	11. 0	7. 40	·1000	23. 24	·01870			
11. 34	17. 35	8. 0	·0990 ***					
12. 22	13. 5							
13. 10	13. 25	9. 15	·0995 ***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 27		Aug. 27	
h m	° ′ ″	h m	
13. 56	22. 17. 5	10. 47	·1001
14. 39	14. 35	11. 12	·0990
15. 0	23. 30	11. 24	·1004
15. 58	8. 30		***
	***	11. 48	·1006
19. 3	13. 35	12. 5	·0991
	***	13. 48	·0996
19. 20	12. 35		***
	***	14. 44	·1013
20. 39	16. 0	15. 15	·0987
	***		***
21. 30	14. 0	16. 2	·1002
	***	16. 9	·1000
22. 23	16. 10	17. 5	·1000
22. 38	19. 0	17. 36	·1005
23. 22	18. 35		***
		19. 15	·0994
			***
		21. 42	·0990
		22. 12	·0980
		22. 27	·0990
			***
		22. 23	·0980
		23. 15	·0986
Aug. 28		Aug. 28	
0. 0	22. 18. 30	0. 18	·0993
0. 48	17. 0	1. 10	·1011
1. 19	20. 0		***
	***	1. 56	·0983
2. 2	13. 35	2. 24	·1000
	***		***
3. 4	11. 55	3. 4	·0978
	***		***
6. 5	13. 0	3. 37	·0990
	***		***
6. 51	11. 0	4. 22	·0981
7. 45	11. 50		***
8. 3	13. 35	6. 6	·0995
8. 32	10. 0		***
9. 0	12. 20	7. 46	·0992
	***	7. 52	·1000
10. 7	13. 0	8. 27	·0987
10. 16	7. 40	8. 40	·0998
10. 32	15. 35		***
	***	10. 8	·1002
10. 57	16. 25	10. 24	·1040
11. 21	11. 30	11. 8	·1002
	***	11. 25	·1012
12. 19:	4. 30	12. 15	·1000
	***	12. 28	·0992
13. 12	11. 35		***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Aug. 28	
1. 0	·01885
2. 0	·01812
4. 30	·01273
7. 30	·01223
9. 18	·01207
10. 28:	·01305
16. 35	·01960
16. 42	·01950
19. 4	·01975
21. 30	·01964
23. 30	·01932

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Aug. 28		
1. 40	69 ·0	72 ·0
3. 40	72 ·0	75 ·5
9. 40	74 ·0	76 ·0
21. 40	68 ·5	76 ·0

Göttingen Mean Solar Time.	Western Declination.
Aug. 28	
h m	° ′ ″
13. 29	22. 10. 0
14. 0	15. 25
15. 30	15. 20
16. 10	11. 40
16. 48	18. 50
17. 10	14. 0
18. 10	12. 0
19. 10	13. 25
20. 7	11. 0
21. 50	12. 0
	***
Aug. 29	
0. 0	22. 19. 0
	***
2. 0	19. 25
	***
5. 30	12. 30
8. 0	11. 20
12. 22	12. 0
12. 47	14. 15
13. 30	12. 15
15. 22	12. 0
16. 30	15. 30
18. 8	16. 10
	***
21. 42	10. 10
22. 14	13. 30
23. 59	16. 30
Aug. 30	
0. 23	22. 18. 25
2. 6	20. 10
3. 47	15. 30
5. 9	14. 0
9. 15	13. 10
10. 7	11. 25
10. 50	13. 0
11. 51	10. 30
	***
17. 8	14. 0
	***
20. 20	10. 55
	***
23. 59	16. 35

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Aug. 28	
h m	
13. 50	·0991
14. 45	·1005
15. 6	·0998
16. 8:	·1009
16. 40	·0988
18. 8	·1007
	***
19. 48	·1000
	***
22. 0	·0984
23. 0	·0992
23. 59	·0993
Aug. 29	
0. 15	·0988
1. 35	·0978
10. 47	·0992
11. 20	·1000
12. 0	·1000
12. 15	·1006
13. 30	·1004
14. 10	·0998
15. 30	·1008
16. 40	·1002
18. 45	·1014
18. 52	·1020
21. 30	·0994
22. 0	·0996
	***
23. 40	·0980
23. 59	·0988
Aug. 30	
0. 24	·1000
0. 44	·0995
1. 15	·1003
1. 45	·0996
2. 30	·1000
	***
3. 40	·0987
	***
6. 6	·0992
7. 0	·1006
	***
9. 42	·1005
11. 6	·1016
11. 42	·1008
12. 4	·1012
13. 36	·1008
	***
16. 30	·1020
18. 42	·1022

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
h m	
Aug. 29	
0. 0	·01900
1. 0	·01810
4. 58	·01215
7. 21	·01196
8. 16	·01217
9. 30:	·01195
16. 29	·01969
16. 37	·01950
21. 42	·01932
23. 58	·01912
Aug. 30	
1. 30	·01780
2. 40	·01620
4. 23	·01196
5. 38	·01180
	·01302
7. 30:	·01190
13. 43	·01922
18. 57	·01857
21. 28	·01820
23. 30	·01790

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
9. 40	74 ·5	76 ·0
21. 40	63 ·0	67 ·0
1. 40	66 ·0	69 ·4
3. 40	71 ·0	74 ·0
9. 40	74 ·0	74 ·0
21. 40	61 ·5	64 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Aug. 30 h m		h m		h m	°	°
		18. 54	·1028					
		23. 57	·0991					
Aug. 31		Aug. 31		Aug. 31				
0. 30	22. 17. 40	0. 27	·0989	1. 30	·01560	1. 40	65 ·0	68 ·0
2. 20	19. 0	1. 40	·0990	3. 51	·01090	3. 40	67 ·0	71 ·0
4. 32	13. 5	2. 35	·1000	6. 0	·01105	9. 40	67 ·0	71 ·0
	***	5. 10	·1000	7. 30	·01076	21. 40	62 ·0	65 ·0
14. 30	13. 10	7. 0	·1009	9. 11:	·01075			
16. 33	13. 0	10. 12	·1007	16. 50	·01871			
20. 0	10. 15	10. 36:	·1004	17. 0	·01857			
	***	10. 59:	·1006	21. 31	·01848			
23. 59	20. 0	11. 30:	·1002	23. 38	·01826			
		14. 36	·1014					
		17. 36	·1022					
		21. 57	·1008					
		23. 59	·1009					
Sep. 1		Sep. 1		Sep. 1				
1. 13	22. 21. 30	1. 10	·1003	2. 13	·01596	1. 40	65 ·0	68 ·0
1. 36	25. 30	1. 33	·1024	4. 38	·01139	3. 40	67 ·0	70 ·5
1. 47	24. 30	1. 46	·1014	7. 30	·01169	9. 40	65 ·0	67 ·7
2. 5	26. 30	2. 11	·1028	9. 17:	·01130.	21. 40	62 ·5	65 ·5
3. 3	22. 20	3. 2	·1000	17. 45	·01890			
	***		***	20. 0	·01850			
6. 0	18. 0	5. 22	·1020	21. 59	·01830			
	***		***	22. 58	·01850			
6. 43	10. 25	7. 48	·1003	23. 32	·01841			
	***		***					
7. 31	10. 0	19. 12	·1019					
7. 57	13. 55	22. 49	·0992					
8. 8	12. 30	23. 31	·0993					
8. 30	15. 0							
	***							
13. 57	11. 5							
	***							
17. 32	14. 5							
	***							
21. 17	11. 10							
	***							
23. 32	17. 0							
Sep. 2		Sep. 2		Sep. 2				
0. 0	22. 17. 45	0. 30	·0991	1. 0	·01726	1. 40	66 ·0	69 ·7
3. 20	18. 40	2. 29	·1010	3. 8	·01210	3. 40	69 ·5	73 ·5
3. 57	15. 5		***	7. 15	·01200	9. 40	71 ·5	74 ·5
	***	3. 25	·1008	9. 22:	·01209	21. 40	65 ·0	67 ·5
7. 27	9. 10	3. 57	·0989	16. 38	·01910			
7. 47	12. 5	4. 20	·1002	17. 0	·01900			
	***	9. 29	·1003	18. 24	·01910			
9. 13	10. 5	10. 1	·0997	20. 30	·01860			
9. 22	12. 0		***	22. 54	·01911			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 2		Sep. 2						
h m	° ′ ″	h m		h m		h m	°	°
10. 30:	22. 8. 35	14. 36	·1013					
	***	14. 47	·1008					
14. 15	13. 0	15. 17	·1019					
15. 0	10. 30	16. 41	·1006					
15. 41	3. 0	17. 39	·1012					
17. 18	9. 15	18. 12	·0993					
17. 48:	5. 5	19. 7	·1023					
18. 33	14. 35		***					
19. 30	12. 20	22. 21:	·1000					
	***	23. 59	·0994					
21. 12	11. 35							
	***							
23. 45	18. 5							
Sep. 3		Sep. 3		Sep. 3				
0. 0	22. 17. 35	0. 36	·0988	1. 0	·01670	1. 40	70 ·0	73 ·5
	***		***	2. 41	·01253	3. 40	73 ·5	76 ·5
3. 16	16. 40	3. 2	·0994	3. 29	·01293	9. 40	74 ·0	77 ·0
3. 30	19. 20	3. 31	·1008	4. 0	·01272	21. 40	65 ·5	68 ·5
	***	3. 45	·0991	6. 2	·01245			
3. 40	17. 0		***	6. 16	·01276			
	***	10. 5	·0994	7. 30	·01254			
6. 2	8. 0	12. 19	·1004	9. 7:	·01290			
	***	12. 42	·1020	12. 18:	·01585			
10. 57	10. 0	14. 13	·1019	15. 28	·01930			
	***	14. 43	·1004	16. 41	·01920			
11. 39	12. 0		***	18. 11	·01940			
12. 6	10. 25	17. 58	·1017	20. 14	·01889			
12. 32	18. 50	19. 15	·0997	21. 33	{ ·01890			
	***	19. 33	·1005		{ ·01840			
14. 32	5. 0	19. 46	·1003	22. 28	·01865			
	***	20. 9	·1019	23. 30	·01826			
16. 28	11. 30	23. 23	·0981					
16. 48	9. 5	23. 59	·0981					
17. 16	11. 30							
18. 36	9. 35							
19. 46	25. 40							
20. 44	12. 30							
21. 3	15. 20							
21. 33	12. 5							
23. 45	14. 10							
Sep. 4		Sep. 4		Sep. 4				
0. 5	22. 16. 0	0. 32	·0982	0. 0	·01772	1. 40	69 ·0	73 ·5
0. 59	24. 15	1. 0	·1010	0. 30	·01723	3. 40	73 ·0	75 ·5
	***	1. 12	·0986	2. 34	·01260	9. 40	72 ·5	75 ·0
1. 18	21. 0		***	4. 15	·01309	22. 10	66 ·0	69 ·0
	***	1. 35	·0987	7. 0	·01230			
1. 59	25. 0	1. 40	·0996	9. 22	·01300			
	***		***		***			
2. 47	18. 30	2. 14	·0962	10. 40	·01359			
	***		***		***			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 4		Sep. 4		Sep. 4				
h m	° ′ ″	h m		h m		h m	°	°
4.30	22.20. 0	3.26:	·0993	11.25	·01330			
5.16	11.40	3.41	·1012	16.20	·01974			
	***	3.59	·1000	17. 3	·01950			
8. 8:	22.12.30	4.10	·1009	18.53	·01980			
9.38	21.53. 0	4.43	·0981	21.42	·01922			
9.57	22. 3. 0		***					
10.12	21.55. 0	5.32	·1006					
11. 9	22.18. 0		***					
11.51	21.59. 0	9.17	·1004					
12.11	22. 5. 0	9.31	·1012					
12.26	3.40	9.41	·1000					
	***	9.48	·1006					
14.30	15. 0	10. 4	·0962					
15.16	8. 0		***					
15.42	12. 0	11. 3	·1041					
	***	11.37	·0996					
17.30	6. 0	12. 6	·1010					
	***	12.35	·0993					
19.16	11.20		***					
	***	15.45	·1000					
20.22	9. 5	16.30	·1010					
	***	17.34	·1010					
21.59	12.25	18.20	·0990					
	***	19. 8	·1006					
23.57	17. 0	20. 8	·1010					
	***	21.13	·0994					
		23·59	·0995					
Sep. 5		Sep. 5		Sep. 5				
1. 0	22.20.30	2. 9	·0997	1. 0	·01942	3.32	69·5	71·5
	***	2.25	·0989	2.30	·01860	9.40	73·0	76·0
2.42	21. 0	3.25	·0996	6.24	·01262	21.40	65·0	68·0
	***	3.49	·1009	8. 6	·01305			
6. 7	11.30		***	10.30	·01234			
6.41	8. 0	5.26	·0997	11. 0:	·01185			
	***	5.54:	·1008	19.42	·02021			
8.17	8. 0	6.17:	·0991	19.57	·01999			
9.45	13. 0	6.57	·1009	21.44	·01977			
10.10	7.30	7.16	·1003					
11. 0:	17.30	7.44	·1008					
11.47:	10. 0	8.28	·0993					
12.38	13. 5	9. 0	·0999					
14. 0	11. 5	9.43	·0996					
14.52:	15.30	10.30	·1031					
15.22	13. 0	11.16	·0993					
	***	12.50	·1007					
19.48	11. 5	13.47	·0997					
	***		***					
21.23	9. 5	18.45	·1006					
	***	20.41	·1001					
23.38	17.20	21. 8	·1005					
		21.57	·0992					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Sep. 5						
h m	° ′ ″	h m		h m		h m	°	°
		23.43	·0994					
Sep. 6		Sep. 6		Sep. 6				
0. 0	22.17. 5	0.15	·1000	1. 0	·01959	1.40	69·0	72·0
	***	1. 2	·1015	4.40	·01696	3.40	69·5	72·0
2. 0	20.30	1.32	·0998	5. 9	·01692	9.40	69·0	71·5
	***	1.47	·1005	7. 0	·01590	21.40	65·2	67·4
4.31	16.30	2.22	·0995	8. 0	·01601			
	***	2.41	·1002	10. 0	·01583			
5. 0	6.35	3.20	·0997	11.46	·01710			
6.40	16.20	4. 9	·1007	12. 4	·01700			
8.11:	22.15. 0	4.43	·0978	12.34	·01711			
8.47	21.59. 0	5.13	·1010	13.14	·01690			
9.22	22. 5.55	6. 2	·1002	15.30	·01950			
9.46:	3.35		***	15.33	·01935			
	***	8.33	·1009	17.17	·01902			
10.58:	11.40	8.57	·1053	18. 1	·01934			
11.30:	10.10	9.41	·1037		·01830			
12. 0	19. 0	10.13	·0990	19.35	·01950			
12.17	14. 0	10.24	·0989	22.23	·01930			
12.51:	24.25	10.36	·1006					
	***		***					
13.31	11.50	12.20	·1006					
	***	13. 1	·1016					
14. 3	13. 0	13.49	·0999					
	***	15.19	·0997					
14.52:	9.35	15.38	·0988					
	***	16.37	·1008					
15.43	18.35	17.24	·0992					
	***		***					
16.27	14.30	18.50	·1008					
16.47	17. 5		***					
	***	21.37	·0991					
19. 0	10. 0	23.54	·0991					
	***							
19.53	9.30							
	***							
23.59	19. 0							
Sep. 7		Sep. 7		Sep. 7				
0. 0	22.18. 5	0.57:	·1000	1. 0	·01962	1.40	64·0	68·0
2. 2	19. 0	3. 1	·1017	3. 6	·01990	3.40	65·3	67·3
	***	3.37	·1008	6. 6	·01920	9.40	64·0	68·8
4.28	11.40	3.54	·1015	6.14	·01903	21.40	65·0	68·0
	***	4. 8	·1006	6.27	·01945			
5.32	10.25		***	6.42	·01900			
6. 3	12.30	5.43	·1017	7.46	·01895			
6.22	0. 0	6.15	·1005	8. 0	·01900			
6.33	13. 5	6.28	·1060	9. 7	·01846			
7. 4	10. 5	6.39	·1025	11.22	·01894			
7.15	12. 0		***	15. 0	·01836			
	***	7.47	·1005	19. 0	·01914			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 7		Sep. 7		Sep. 7				
h m	° ′ ″	h m		h m		h m	°	°
7. 58	22. 6. 0	8. 2	·1017	23. 16	·01924			
	***	8. 10	·1011					
8. 21	12. 0	8. 32	·1034					
	***		***					
9. 40	15. 5	9. 39	·1012					
11. 28	13. 5		***					
11. 57	16. 25	11. 40	·1023					
13. 32	13. 0		***					
14. 0	17. 35	14. 17	·1011					
	***		***					
17. 39	12. 15	18. 28	·1017					
17. 52	14. 0		***					
18. 30	10. 30	19. 11	·1001					
19. 0	12. 0	20. 27	·1007					
	***	22. 22	·0989					
20. 14	9. 35	23. 27	·0996					
	***							
23. 58	18. 30							
Sep. 8		Sep. 8		Sep. 8				
0. 1	22. 20. 5	0. 0	·1000	1. 0	·01870	1. 40	66 ·0	69 ·5
1. 30	22. 30		***	2. 32	·01764	3. 40	67 ·5	71 ·5
3. 30	20. 30	2. 0	·1000	5. 56	·01202	9. 40	69 ·3	71 ·3
	***	2. 43	·1007	7. 20	·01200	21. 40	65 ·0	67 ·5
4. 20	16. 20	3. 28	·1000	7. 27	·01187			
5. 0	15. 5	3. 50:	·0978	7. 46	·01210			
	***	4. 21	·1002	10. 0	·01165			
7. 20	15. 35	5. 48	·1012	11. 0:	·01172			
7. 35	5. 10	7. 22	·1005	21. 11	·01934			
7. 52	11. 20	7. 39	·1036	22. 8	·01900			
	***	8. 36	·1010	23. 17	·01915			
8. 34	12. 0		***					
8. 48	16. 30	12. 28	·1020					
9. 0	13. 0		***					
	***	14. 32	·1008					
10. 17	13. 30	15. 45	·1009					
	***	16. 33	·1021					
11. 9	19. 5	17. 38	·1024					
11. 55:	14. 20	18. 57	·0997					
	***	21. 15	·0997					
12. 27	16. 5	21. 36	·1000					
13. 36	12. 30	22. 32	·0987					
15. 28	18. 5	23. 59	·1010					
16. 22	13. 0							
16. 57	14. 15							
17. 32	12. 30							
17. 53	14. 25							
18. 13	11. 50							
18. 56	11. 20							
19. 7	12. 35							
19. 14	10. 40							
20. 37	14. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 8								
h m	° ′ ″	h m		h m		h m	°	°
20. 50	22. 10. 20							
21. 0	14. 35							
21. 41	14. 5							
	***							
23. 41	23. 0							
Sep. 9		Sep. 9		Sep. 9				
0. 0	22. 22. 55	0. 13	·1013	1. 0	·01850	1. 40	66 ·5	70 ·0
1. 0	20. 45		***	5. 42	·01352	3. 40	68 ·0	71 ·0
1. 33	24. 30	2. 57	·1029	5. 50	·01308	9. 40	69 ·0	72 ·0
2. 13	22. 35	3. 5	·1020	6. 3	·01290	21. 40	66 ·0	69 ·5
	***	3. 24	·1029	6. 7	·01303			
3. 27	27. 0		***	6. 30	·01230			
	***	4. 26	·1002	6. 33	·01240			
4. 3	24. 30	4. 54	·1023	6. 48	·01219			
4. 19	26. 25	5. 11	·1015	7. 7	·01253			
4. 42	21. 0	5. 31	·1039	8. 20	·01285			
	***		***	11. 0	·01198			
5. 16	22. 0	5. 41	·1023	13. 16	·01232			
	***	5. 44	·1036	13. 50:	·01173			
7. 3	14. 5	5. 47	·1007	15. 40	·01340			
	***		***	16. 26:	·01333			
7. 47	13. 5	6. 0	·0997	23. 33	·01753			
	***	6. 7	·1027					
8. 21	0. 20		***					
9. 15	12. 0	6. 17	·1014					
10. 8	14. 0	6. 28	·0976					
10. 55	5. 0	6. 43	·1017					
11. 28	15. 5	6. 54	·1000					
	***	6. 58	·1032					
12. 57	9. 5		***					
13. 27	26. 30	7. 55	·0960					
	***		***					
14. 25	9. 0	8. 24	·1005					
	***		***					
16. 17	25. 20	8. 50	·1004					
16. 32	22. 0		***					
	***	9. 2	·0994					
17. 15	32. 30		***					
	***	9. 33	·1000					
18. 28	20. 30	9. 39	·0989					
	***	10. 9	·1007					
19. 0	24. 0	10. 33	·1000					
19. 28	16. 5	10. 48	·1011					
19. 45	23. 0	11. 6	·0998					
20. 0	20. 20		***					
20. 30	23. 0	13. 37	·1017					
20. 43	20. 45	14. 8	·1007					
	***	15. 23	·1011					
21. 43	22. 55	15. 54	·0992					
22. 28	19. 10	16. 46:	·1022					
23. 1	22. 30	17. 22	·1003					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Sep. 9 h m		h m		h m	°	°
		17. 37	·1013					
		18. 36	·0980					
		18. 51	·0988					
		19. 11	·0974					
		19. 45	·0994					
		21. 1	·0994					
		21. 40	·0961					
		21. 58	·0979					
		22. 12	·0967					
		22. 14	·0975					
		22. 24	·0965					
		22. 46	·0980					
		23. 46	·0982					
Sep. 10		Sep. 10		Sep. 10				
0. 0	22. 22. 0	0. 15	·0995	0. 30	·01743	1. 40	67 ·5	71 ·0
	***	1. 14	·0981	5. 22	·01249	3. 40	68 ·5	71 ·5
1. 10	25. 30		***		***	9. 40	69 ·5	73 ·5
	***	2. 58	·1014	5. 32	·01252	21. 40	64 ·5	67 ·5
2. 27	19. 0	3. 10	·0997	8. 46	·01226			
2. 54	21. 25	3. 24	·1008	9. 1	·01211			
3. 36	20. 10	4. 33	·1000	9. 32	{·01195			
4. 31	13. 5		***		{·01266			
	***	7. 14	·1010	10. 12:	·01250			
5. 45	15. 30		***	18. 28	·01926			
	***	8. 47	·1004	19. 50	·01897			
7. 45	13. 5	9. 12	·1029	21. 45	{·01873			
8. 28	9. 0	9. 39	·1006		{·01619			
8. 42	22. 10. 30	9. 58	·1021	22. 54	·01664			
9. 1	21. 58. 0	10. 15	·0995					
9. 17	22. 2. 25	10. 31	·1015					
10. 5	20. 30	11. 30	·1005					
10. 27	11. 30	12. 9	·1000					
10. 35	13. 30	12. 32	·1015					
11. 20	4. 5	13. 16	·0997					
11. 38	10. 30	13. 36	·1006					
11. 50	8. 35		***					
12. 27	9. 25	15. 41	·1005					
13. 3	16. 10		***					
	***	19. 15	·1019					
16. 11	12. 45	20. 28	·0982					
16. 30	15. 0	21. 7	·1000					
17. 2	13. 35	23. 6	·0983					
	***	23. 30	·0966					
20. 9	19. 40	23. 59	·0969					
20. 31	22. 40							
	***							
21. 32	18. 5							
	***							
23. 48	23. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 11		Sep. 11		Sep. 11				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 22. 35	1. 13	·1009	1. 0:	·01653	1. 40	66 ·0	68 ·5
0. 26	25 0	1. 16	·0996		***	3. 40	66 ·5	68 ·5
	***	1. 20	·1010	7. 0	·01155	9. 30	65 ·0	68 ·5
2. 32	16. 45	1. 26	·0992	7. 32	·01165	21. 40	60 ·0	63 ·5
	***	1. 29	·1000	9. 23	·01130			
4. 30	15. 55	1. 35	·0983	10. 9	·01160			
5. 9	6. 0	1. 44	·0998	10. 46:	·01145			
5. 33	22. 6. 0	1. 49	·0985	13. 10:	·01350			
6. 2	21. 58. 40	1. 58	·1006	16. 45	·01841			
	***	1. 59	·0989	18. 42	·01853			
6. 30	22. 7. 0	2. 1	·1005	21. 0	·01813			
	***	2. 8	·0987	21. 50	·01818			
7. 59	11. 10	2. 9	·1012					
	***	2. 14	·0991					
8. 22	8. 30	2. 16	·1013					
	***		***					
8. 58	12. 10	2. 33	·0992					
9. 47	3. 30		***					
10. 20	16. 30	3. 2	·1019					
10. 57	13. 15		***					
11. 9	14. 0	3. 12	·1000					
11. 37	4. 0	3. 13	·1021					
11. 49	10. 0	3. 18	·1000					
12. 51	6. 0	3. 22	·1019					
13. 13	17. 30	3. 25	·1000					
	***	3. 30	·1010					
14. 41	11. 0	3. 35	·0991					
	***		***					
18. 0	15. 40	3. 45	·1008					
	***	3. 47	·0993					
20. 30	9. 35		***					
	***	4. 18	·1011					
22. 20	15. 25	4. 27	·0997					
23. 30	21. 0		***					
		5. 11	·0996					
		5. 30	·1014					
		5. 38	·1000					
			***					
		6. 7	·1028					
			***					
		6. 36	·1015					
		6. 45	·1024					
		7. 13	·0999					
		7. 36	·1009					
		8. 6	·0997					
			***					
		8. 43	·1008					
		8. 51	·0999					
		9. 9	·1014					
		9. 25	·0996					
			***					
		10. 10	·1009					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Sep. 11 h m		h m		h m	°	°
		10. 18	·1028					
		11. 17	·0995					
		11. 46	·1020 ***					
		12. 40	·1002 ***					
		14. 12	·1020 ***					
		17. 30	·1007					
		19. 0	·1016 ***					
		21. 25	·1019 ***					
		23. 54	·0985 ***					
Sep. 12		Sep. 12		Sep. 12				
0. 0	22. 21. 25	0. 30	·0986 ***	0. 0	·01445	9. 54	64 ·0	67 ·0
1. 13	22. 40			4. 0	·01120 ***	21. 40	60 ·5	63 ·5
3 41	15. 0	3. 25	·1012 ***					
4 40	14 55			7 57	·01185			
5. 20	6. 30	4. 4	·1005	9. 56	·01130			
5. 35	10. 15	4 43	·1016	11. 0	·01094			
5 50	7. 30	5. 50	1000	19. 50	·01820			
6 3	11. 0	6 40	·1017	23. 30	·01786			
6 19	8. 25	7 14	·1005					
6. 33	12. 5	9. 45	·1010					
6. 44	11. 0 ***	10. 46	1003					
		11. 53	·0985 ***					
7. 25	14. 0							
7. 37	11. 20	15 6	·1013					
8. 0	13. 50	16 3	·1005					
8 24	5. 35	16 40	·1003					
8. 43	14. 25 ***	16 49	·1012					
		16. 53	·1002					
10. 6	13. 5 ***	17. 16	·1013					
		17. 22	·1006					
12. 8	12. 50 ***	17. 58	·1036					
		18. 8	·1003 ***					
13. 33	16. 5 ***							
		20. 20	·1010					
14. 30	12. 20	20. 29	·1020					
15. 2	15. 0	20. 43	·1012					
15. 14	13. 5	21. 23	·1016					
16. 6	18. 0	21. 36	·1003					
17. 0	15. 30	22. 43	·1025					
17. 38	18. 0 ***	23. 9	·1010					
19. 51	13. 0							
19. 59	14. 5							
20. 3	11. 55 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 12 h m	° ′ ″	h m		h m		h m	°	°
21. 14	22. 10. 30 ***							
23. 45	19. 0							
Sep. 13		Sep. 13		Sep. 13				
0. 0	22. 19. 10	0. 0	·1003 ***	1. 0	·01683	1. 40	64 ·5	66 ·5
0. 59	17. 25			4. 33	·01107	3. 40	65 ·5	67 ·5
1. 28	20. 10	1. 30	·1018	5. 33	·01126	9. 40	66 ·0	69 ·0
1. 36	17. 35 ***	1. 38	·1007	6. 4	·01150	21. 40	58 ·0	61 ·0
		4. 0	·1010	6. 51	·01135			
5. 2	15. 0	4. 16	·1002 ***	10. 0:	·01150			
5. 48	6. 40			18. 1	·01833			
6. 53	13. 0 ***	5. 39	·0998	22. 30	·01760			
		6. 6	·1017	23. 58	·01789			
8. 31	9. 40	6. 58	·1005 ***					
9. 36	11. 30							
10. 31	8. 5	17. 46	·1014					
17. 0	11. 35	22. 25	·1000					
21. 0	9. 45	23. 59	·1008					
23. 59	17. 5							
Sep. 14		Sep. 14		Sep. 14				
0. 27	22. 19. 0	1. 0	·1012	1. 0	·01783	1. 40	59 ·0	63 ·0
5. 44	10. 0	2. 47	·1014	5. 0	{ ·01270	3. 40	62 ·0	64 ·5
6. 51	12. 30 ***	4. 0	·1007		{ ·01350	9. 40	64 ·0	67 ·8
		19. 0	·1024	9. 29:	·01079	21. 40	59 ·5	63 ·5
9. 30	12. 0	22. 45:	·1000	20. 43	·01823			
18. 38	11. 45	23. 59	·1000	21. 40	{ ·01810			
21. 0	11. 30 ***				{ ·01750			
				23. 16	·01779			
23. 36	16. 25							
Sep. 15		Sep. 15		Sep. 15				
0. 0	22. 18. 5	1. 0	·1005	0. 0	·01763	1. 40	61 ·5	64 ·8
1. 59	19. 25	4. 0	·1015	6. 15	·01450	3. 40	62 ·2	65 ·5
4. 54	14. 0	12. 45	·1026	8. 0:	·01475	9. 40	61 ·5	64 ·8
8. 30	15. 0	19. 17	·1023	14. 7	·01780	21. 40	56 ·2	58 ·5
13. 11	13. 20	23. 25	·0997	17. 33	·01785			
18. 0	13. 35			17. 43	·01765			
20. 40:	11. 30			18. 7	·01796			
23. 59	22. 0			23. 0	·01781			
				23. 33	·01780			
Sep. 16		Sep. 16		Sep. 16				
0. 50	22. 24. 5	0. 36	·1010 ***	1. 0	·01731	1. 40	57 ·0	60 ·0
3. 0	22. 0			3. 40	{ ·01282	3. 40	60 ·0	64 ·0
4. 30	15. 55	2. 17	·1013 ***		{ ·01427	9. 40	60 ·0	63 ·0
6. 30	12. 55			5. 20	·01171	21. 40	53 ·2	56 ·3
10. 0	12. 30	3. 51	·1020	9. 30:	·01114			
10. 48:	5. 40	4. 15	·1010 ***	16. 30	·01749			
11. 42	10. 35 ***	13. 25	·1024	19. 30	·01730			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 16		Sep. 16		Sep. 16		h m	o	o
h m	o ′ ″	h m		h m				
13.37	22. 10. 0	13.31	·1018	22. 13	·01756			
14. 0:	14. 0	14.20	·1033		·01710			
15. 4:	5.35	15.13	·1025	23.30	·01775			
15.42:	11.50	15.50	·1043					
16.14	5.25	17.36	·1021					
16.38	6.15	18.48	·1040					
17. 7	13. 0	21.53	·1021					
	***	23.12	·1000					
18. 7	17.20	23.59	·1003					
	***							
18.29	16. 0							
18.32	16.35							
	***							
20.16	11.35							
21. 0	17.25							
	***							
22.50	17.20							
23.43	23. 0							
Sep. 17		Sep. 17		Sep. 17				
0.13	22.22.25	0.14	·1014	0. 0	·01762	1.40	56·5	60·5
	***	2.14	·1008	1.30	·01683	3.40	59·5	63·5
1.13	21.40	2.50	·1000	3.27	·01244	9.40	62·0	65·5
2.14	25.30	3.21	·1011		***	21.40	55·5	58·5
	***	4.18	·0987	5. 0	·01380			
3. 1	22.55	4.43	·1024		***			
	***		***	9.58:	·01246			
4. 9	23.10	4.55	·1003	12. 2:	·01330			
4.35	12.45		***	16.52	·01890			
4.46	20.10	5.28	·1018	18.16	·01869			
5. 6	6. 0		***	19.54	·01890			
	***	6.22	·0991	23. 0	·01870			
6.18	19.55	8.27	·0985					
7.26	14.20	9.45	·0997					
7.42	16. 0	10. 5	·0975					
8. 2	11.15	10.14	·0986					
	***	11.24	·0983					
8.33	9.35	11.53	·1016					
8.54	11.30	12.26	·1000					
9.37	8.25	12.57	·1014					
9.57	13. 0	13. 7	·1031					
10.13	3.40	14. 2	·1003					
	***	18.46	·1018					
11.28	9.30	22.48	·1003					
11.43	0.10	23.37	·1009					
11.58	4.30							
12.16	1.15							
12.46	22. 6. 0							
13. 5	21.55.10							
	***							
14.42	22.10.50							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 17						h m	o	o
h m	o ′ ″	h m		h m				
20.42	22. 10. 15							
	***							
23.59	16. 0							
	***							
Sep. 18		Sep. 18		Sep. 18				
0.30	22. 17. 0	1. 0	·1000	1.30	·01782	1.40	53·5	56·5
4. 0	16.50	3.16	·1010	5.59	·01250	3.40	59·5	64·5
10.32	14. 0	4.45	·1031	8. 0	·01310	9.40	65·0	68·0
10.59	9. 0	7. 1	·1042	11. 0	·01236	21.40	62·5	65·5
12. 0	11.55	7.30	·1032	14. 0	·01250			
12.32	10. 5	10.38	·1016	18. 0	·01367			
13. 7	12. 5	10.58	·1033	22.10	·01473			
13.35	11. 0		***					
14.30	11.55	12.45	·1017					
15.17	21.10	13.17	·1022					
	***	14.48	·1015					
16.31	11.30	15.11	·1013					
	***	15.57	·1026					
18.39	13.35		***					
18.59	11.30	19.41	·1023					
19.13	12.35	21.47	·0984					
	***	23.11	·0991					
20. 9	11. 0	23.44	·0981					
	***							
22. 7	19. 0							
	***							
23.30	19.40							
	***							
Sep. 19		Sep. 19		Sep. 19				
0. 0	22.22.15	0. 0	·0984	0. 0	·01510	9.28	62·0	65·0
0.30:	23.55		***	3.39	·01500	21.40	59·0	62·5
	***	1.23	·1007		***			
1. 7	20.35	1.42	·1000	5.29	·01415			
	***		***	6.53	·01455			
3. 1	29.30	3.20	·1020	9.26	·01321			
3.30	24.25		***	10.30	·01271			
	***	4.23	·1006	11.31	·01300			
4.48	25.25	4.47	·1017	12. 0:	·01270			
	***		***	21.46	·01926			
6. 0	16.30	5.56	·1007	23.17	·01966			
6.17	20. 5	6.24	·1015					
	***	7.18	·0998					
7. 0	5.50		***					
	***	9.13	·1008					
7.53	16. 0	9.26	·0993					
	***	9.41	·1009					
8.59	22.12.25	10.49	·0989					
9.35	21.54.35	11.26	·1018					
10. 9	22. 3. 0	12.13	·1021					
10.36	21.59. 5	13.36	·0991					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 19		Sep. 19						
h m	° ′ ″	h m		h m		h m	°	°
11. 42	22. 14. 45	14. 18	·1016					
12. 13	9. 0	15. 26	·0975					
12. 48:	16. 0	15. 42	·0991					
13. 8	12. 40		***					
13. 50	22. 5	17. 2	·0981					
	***	17. 20	·1004					
14. 48	14. 5	17. 30	·1002					
	***	17. 46	·1014					
15. 7	17. 0	18. 25	·1004					
	***	18. 47	·0978					
15. 40	10. 30	19. 13	·1007					
15. 52	11. 40	19. 36	·0982					
16. 1	10. 45	20. 20	·1004					
	***	20. 45	·1004					
16. 44	20. 10	21. 17	·0991					
	***	23. 12	·0991					
16. 58	17. 0	23. 42	·0980					
	***							
17. 39	15. 50							
17. 52	19. 0							
18. 7	17. 0							
	***							
19. 33	22. 0							
20. 1	28. 30							
	***							
20. 33	23. 5							
	***							
21. 46	20. 55							
23. 7	24. 0							
23. 59	22. 55							
Sep. 20		Sep. 20		Sep. 20				
0. 20	22. 23. 25	0. 27	·0980	1. 0	·01875	1. 40	62 ·5	65 ·5
2. 30	25. 0	0. 57	·0971	1. 32	·01840	3. 40	64 ·5	67 ·5
	(†)	1. 47	·0986	5. 33	·01315	9. 40	61 ·0	64 ·0
3. 40	18. 32*		***	6. 55	·01331	21. 40	51 ·0	55 ·0
	(†)	3. 17	·0973	7. 10	·01310			
9. 40	1. 23*	3. 22	·0994	9. 39	·01262			
	(†)		***	10. 0	·01210			
21. 40	10. 55*	3. 45	·0979	11. 22	·01370			
	(†)		***	11. 41:	·01355			
		3. 51	·0995	15. 35	·01789			
		3. 58	·0978	17. 30	·01860			
		4. 38	·1011	19. 14	·01900			
		5. 10	·0994	21. 53	·01855			
		5. 12	·1011	23. 42	·01860			
		6. 31	·0999	23. 52	·01775			
		6. 43	·1000					
		6. 57	·1025					
		7. 12	·1000					
		7. 26	·0993					
		7. 54	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Sep. 20						
h m	° ′ ″	h m		h m		h m	°	°
		8. 5	·1000					
		9. 14	·0998					
		9. 45	·1069					
		10. 2	·0982					
		10. 18	·1020					
		10. 47	·0988					
		11. 15	·1000					
		11. 36	·1037					
		12. 0	·1012					
		12. 23	·1013					
		12. 44	·0998					
		13. 20	·1012					
		13. 46	·1005					
		14. 22	·1015					
		14. 42	·1006					
		15. 36	·1033					
		16. 27	·1003					
		17. 28	·1027					
		21. 51	·1004					
		22. 20	·0989					
		22. 40	·0985					
Sep. 21		Sep. 21		Sep. 21				
0. 16	22. 20. 0	0. 32	·0994	1. 0	·01781	1. 40	57 ·0	60 ·0
0. 42	22. 5		***	5. 3	·01330	3. 40	59 ·0	62 ·0
	***	1. 56	·1009	5. 20	·01352	9. 40	58 ·0	61 ·0
1. 47	18. 5		***	5. 59	·01239	21. 40	51 ·5	54 ·5
	***	2. 48	·1005	6. 7	·01246			
2. 59	22. 0		***	6. 29	·01212			
3. 15	17. 0	3. 2	·1015	9. 0	·01140			
	***	3. 11	·1004	9. 52	·01139			
3. 59	16. 45	3. 38	·1026	10. 28	·01170			
	***	4. 12	·1005	11. 10	·01161			
4. 47	22. 21. 25	4. 24	·1018	12. 0	·01191			
	***	4. 42	·1000	13. 17	·01251			
5. 20	21. 58. 30	4. 51	·1012	14. 2:	·01230			
	***	5. 14	·0995	17. 8	·01692			
5. 40	22. 9. 5	5. 29	·1047	17. 15	·01672			
	***	6. 4	·0991	18. 0	·01696			
5. 49	7. 35	6. 17	·1022	18. 50	·01665			
6. 1	12. 5		***		***			
6. 8	3. 10	6. 45	·1000	22. 0	·01810			
6. 38	14. 0	7. 8	·1009	22. 22	·01759			
7. 5	10. 15	7. 27	·0997	23. 30	·01751			
7. 18	11. 50	7. 39	·1018					
7. 32	5. 20	7. 49	·1011					
7. 42	11. 5	8. 25	·1040					
	***	8. 54	·1018					
8. 17	6. 0		***					
	***	10. 0	·1013					
8. 52	14. 0		***					
9. 0	12. 5	10. 20	·1024					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 21		Sep. 21						
h m	° ′ ″	h m		h m		h m	°	°
9. 36	22. 12. 15	10. 45	·1003					
10. 1	4. 0	11. 54	·1010					
10. 32	12. 50	12. 13	·0986					
11. 22	1. 5	12. 37	·1007					
12. 1	8. 40	13. 2	·1002					
12. 28	1. 0	13. 25	·1032					
12. 54	4. 20	14. 18	·0989					
13. 5	2. 30	14. 45	·1015					
13. 21	12. 5		***					
	***	16. 47	·1043					
14. 20	23. 30	17. 41	·0999					
	***	18. 28	·1000					
15. 28	11. 0	19. 31	·1011					
15. 50	11. 20		***					
16. 10:	8. 35	21. 38	·0979					
	***		***					
18. 22	33. 0	22. 12	·0996					
18. 42	30. 45		***					
18. 52	31. 30	23. 10	·0987					
	***		***					
19. 58	19. 30	23. 45	·0990					
20. 8	23. 0							
20. 18	20. 0							
20. 26	21. 0							
20. 30	17. 5							
20. 39	19. 55							
20. 51	17. 35							
20. 52	21. 10							
21. 0	18. 30							
21. 2	23. 0							
21. 8	18. 35							
	***							
21. 30	22. 30							
21. 41	21. 0							
21. 58	23. 20							
	***							
23. 9	18. 30							
	***							
23. 59	20. 0							
Sep. 22		Sep. 22		Sep. 22				
0. 21	22. 19. 30	0. 17	·0980	0. 30	·01642	1. 40	58 ·5	61 ·5
	***	0. 42	·0990	1. 45	·01290	3. 40	60 ·5	64 ·0
2. 25	19. 5		***	5. 28	·01362	9. 40	62 ·5	65 ·5
3. 27	15. 50	2. 11	·0974	9. 21	·01295	21. 40	59 ·0	62 ·5
	***		***	9. 40	·01260			
3. 58	16. 55	2. 25	·0982		***			
	***		***	10. 0	·01225			
5. 18	9. 15	2. 46	·0973	10. 13	·01240			
	***		***	10. 43	·01228			
6. 58	12. 0	3. 56	·0995	11. 0	·01245			
	***		***	11. 45	·01231			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sep. 22		Sep. 22		Sep. 22				
h m	° ′ ″	h m		h m		h m	°	°
7. 41	22. 10. 0	4. 20	·0983	12. 13	·01270			
	***		***	12. 50:	·01250			
8. 48	10. 40	6. 36	·1004	21. 52	·01880			
9. 10	4. 30	7. 1	·0996					
	***	8. 50	·1004					
9. 42	24. 15	9. 20	·1034					
10. 7	7. 5	9. 55	·0989					
10. 32	13. 0	10. 10	·1021					
10. 48	7. 15	10. 30	·1015					
	***	10. 44	·0997					
11. 31	15. 30	11. 11	·1014					
11. 58	5. 10	11. 40	·0991					
12. 21	14. 0	12. 3	·1013					
12. 49	6. 30	12. 48	·1000					
13. 15	9. 40	13. 25	·1009					
13. 32	2. 10	13. 37	·1022					
	***	14. 24	·0993					
15. 11	12. 20		***					
15. 44	6. 40	15. 12	·1009					
	***	15. 50	·1000					
17. 35	22. 25	16. 48	·1012					
17. 48	21. 30	17. 7	·1008					
	***	18. 10	·1013					
18. 30	30. 20	18. 22	·1005					
	***	19. 0	·1022					
19. 35	13. 10		***					
20. 1	14. 25	19. 25	·1013					
20. 37	11. 10		***					
21. 12	14. 45	19. 58	·1022					
	***	22. 35	·0990					
22. 38	13. 10	23. 20	·1000					
23. 59	17. 0							
Sep. 23		Sep. 23		Sep. 23				
0. 0	22. 16. 5	0. 12	·0982	0. 2	·01530	1. 40	61 ·0	65 ·0
	***		***	2. 42	·01345	3. 40	63 ·0	66 ·0
0. 24	18. 5	0. 53	·0985	4. 3	·01298	9. 40	62 ·0	65 ·0
	***		***	6. 30	·01330	21. 40	57 ·5	60 ·5
0. 38	16. 5	1. 28	·1006	6. 39	·01319			
	***		***	6. 49	·01340			
2. 29	19. 25	2. 32	·0991	7. 57:	·01280			
	***	2. 50	·1007	19. 0	·01960			
2. 58	16. 30	4. 1	·0994	22. 15	·01945			
	***	4. 27	·1013	23. 28	·01979			
4. 22	13. 55		***					
	***	4. 43	·1002					
4. 48	15. 5		***					
	***	5. 28	·1007					
5. 12	11. 30		***					
	***	6. 43	·1000					
6. 12	22. 13. 15	6. 53	·1040					
6. 48	21. 57. 0		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 23		Sep. 23						
h m	° ′ ″	h m		h m		h m	°	°
7.39	22. 14. 0	7. 30	·1034					
	***	7. 57	·1010					
8.43	11. 5	8. 54	·1015					
9. 7	7. 0	9. 48	·1006					
9.55	8. 10	10. 7	·1012					
10.14	14. 55	11. 8	·0988					
10.31	10. 35	11. 57	·1010					
11. 3	13. 50	12. 46	·1025					
11.30	11. 50	13. 35	·1013					
12. 2	16. 0		***					
12.39	11. 0	15. 10	·1010					
13.23	22. 0	16. 0	·1006					
	***		***					
14.25	11.30	18. 10	·1032					
14.58:	9. 50		***					
	***	19. 15	·1013					
15.48:	18. 20		***					
	***	23. 0	·1014					
16.18	15. 25	23. 14	·1007					
	***	23.59	·1012					
17.57	19. 30							
	***							
19. 3	15. 5							
19.39	16. 0							
19.45	17. 35							
20. 0	15. 0							
20.30	16. 15							
21.17	11.30							
	***							
23.59	20. 5							
Sep. 24		Sep. 24		Sep. 24				
0.39	22. 21. 30	0. 32	·1027	1. 0	·01893	1.40	60 ·5	63 ·0
	***	1. 13	·1025	3. 25	·01372	3.40	62 ·5	65 ·5
1. 12	22.40	1. 35	·0989	9. 14	·01347	9.40	66 ·0	69 ·5
	***	1. 58	·1011		***	21.40	58 ·8	61 ·5
2. 11	17. 35	2. 8	·1005	11. 16	·01348			
3. 0	20. 0	2. 27	·1016	16. 10	·01964			
	***		***	18. 15	·01961			
6. 5	11. 0	4. 47	·1020	19. 46	·01999			
	***		***	20. 28	·02000			
8. 10	11. 0	5. 12	·1010		***			
8.40	12. 25		***	22. 1	·01973			
	***	5. 32	·1017		***			
10. 15	5. 55		***	23. 31	·01993			
	***	5. 55	·1010					
10.53	13. 45	6. 27	·1020					
11. 9	13. 0		***					
11.31	3. 0	9. 25	·1023					
11.46	9. 20	9. 52	·1020					
11.52	8. 5	10. 28	·1057					
12.40	13. 30	10. 45	·1057					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 24		Sep. 24						
h m	° ′ ″	h m		h m		h m	°	°
13.37	22. 8. 0	11. 27	·1017					
14.59	15. 0	11. 39	·1023					
15.12	13. 5	11. 47	·1007					
15.32	15. 0	12. 18	·1033					
16. 0	11.40	13. 12	·1024					
16.46	12.30		***					
17. 2	14. 25	14. 17	·1018					
	***		***					
17.23	13. 20	15. 33	·1030					
	***		***					
18.46	16. 35	17. 39	·1035					
	***	18. 12	·1023					
20.49	12. 15		***					
	***	19. 9	·1033					
23.59	20. 0		***					
		22. 1	·1015					
			***					
		23. 20	·1019					
			***					
Sep. 25		Sep. 25		Sep. 25				
0. 17	22. 20. 50	0. 15	·1010	1. 0	·01883	1.40	62 ·5	64 ·0
1. 50	20.40	0. 32	·1001	1. 59	·01685	3.40	66 ·0	69 ·0
2.42	15. 30	0. 58	·1008	2. 10	·01403	9.40	67 ·0	69 ·0
4. 57	14. 30		***	5. 0	·01444	21.40	58 ·5	61 ·0
6. 20	11. 0	2. 10	·0994	8. 3	·01390			
9. 35	11. 30		***	9. 35	·01390			
10. 0	9. 15	3. 20	·1011	15. 29	·02020			
	***		***	18. 30	·01996			
11. 0	11. 50	5. 51	·1002	22. 15	·01958			
	***		***		(†)			
12. 14	9. 35	6. 10	·1013					
	***	7. 22	·1009					
12. 56	15. 50	8. 12	·1012					
13. 33	10. 35	9. 15	·1030					
	***	9. 46	·1018					
16. 0	10. 0	11. 16	·1027					
	***	11. 57	·1017					
17. 5	14. 30	12. 15	·1028					
17. 33	12. 25	12. 32	·1017					
18. 12	12. 5	13. 0	·1028					
18. 37	13. 30	14. 12	·1020					
19. 47	12. 55	14. 21	·1026					
20. 12	7. 10	16. 0	·1024					
	***	16. 45	·1016					
21. 0	8. 25	17. 31	·1030					
	***	21. 10	·1017					
22. 15	13. 25	23. 59	·1015					
Sep. 26		Sep. 26		Sep. 26				
0. 0	22. 16. 50	0. 13	·1023	2. 10	·01972*	2. 10	59 ·5	62 ·0
2. 19	19. 0	3. 16	·1029			4. 35	62 ·0	63 ·0
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 26		Sep. 26		Sep. 26				
h m	° ′ ″	h m		h m		h m	°	°
6. 32	22. 13. 35	5. 28	·1016	4. 35	·01820*	8. 39	62 ·5	65 ·5
6. 57	12. 0		***	8. 39	·01565*	21. 40	58 ·5	61 ·5
13. 14	13. 0	13. 8	·1038	21. 40	·01916*			
13. 42	11. 0	13. 13	·1029					
14. 30	12. 20	17. 11	·1034					
19. 0	12. 0	20. 18	·1026					
20. 41	10. 35	20. 30	·1021					
21. 49	11. 25	22. 1	·1015					
23. 59	18. 10	23. 59	·1016					
Sep. 27		Sep. 27		Sep. 27				
0. 11	22. 19. 30	0. 30	·1013	1. 0	·01922	1. 40	60 ·5	62 ·8
6. 0	14. 55	2. 55	·1020	6. 26	·01291	3. 40	61 ·5	64 ·5
6. 31	13. 30	6. 0	·1018	12. 0:	·01275	9. 40	63 ·5	66 ·5
	***	7. 30	·1025	23. 38	·01764	21. 40	61 ·0	64 ·0
11. 26	13. 0	18. 13	·1037					
11. 44:	11. 50	21. 16	·1024					
12. 11	14. 30	23. 30	·1020					
	***							
15. 13	12. 50							
18. 0	13. 30							
	***							
21. 0:	11. 45							
23. 33	18. 30							
Sep. 28		Sep. 28		Sep. 28				
0. 0	22. 18. 45	0. 0	·1022	1. 0	·01798	1. 40	61 ·0	64 ·0
1. 54	19. 55	3. 34	·1029	3. 30:	·01755	3. 40	63 ·0	65 ·0
4. 28	14. 50	4. 21	·1021	9. 0:	·01390	9. 40	63 ·0	65 ·0
9. 29	14. 20	10. 12	·1033	17. 32	·01950	21. 40	58 ·5	61 ·5
11. 0	11. 35	10. 30	·1027	20. 14	·01925			
11. 19	15. 30	11. 13	·1029	22. 6	·01943			
12. 12:	7. 5	11. 28:	·1059	23. 30	·01909			
14. 0	12. 20	12. 25	·1034					
18. 0	14. 0	19. 7	·1041					
20. 38	12. 0	23. 0	·1013					
	***	23. 33	·1017					
23. 59	20. 5							
	(†)							
Sep. 29		Sep. 29		Sep. 29				
1. 40	22. 18. 44*	1. 40	·1030*	1. 40	·01629*	1. 40	61 ·5	64 ·5
3. 40	17. 35*	3. 40	·1038*	3. 40	·01349*	3. 40	62 ·5	65 ·5
9. 40	14. 51*	9. 40	·1049*	9. 40	·01245*	9. 40	61 ·0	64 ·0
21. 40	13. 33*	21. 40	·0997*	21. 40	·01880*	21. 40	56 ·5	59 ·0
Sep. 30		Sep. 30		Sep. 30				
0. 5	22. 19. 20	0. 12	·1011	1. 0	·01816	1 ·40	58 ·5	61 ·5
	***		***		***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 30		Sep. 30		Sep. 30				
h m	° ′ ″	h m		h m		h m	°	°
0. 18	22. 19. 25	0. 29	·1009	3. 36	·01270	3. 40	58 ·5	61 ·5
	***		***	4. 53	·01285	9. 40	58 ·5	61 ·5
0. 50	26. 40	0. 46	·1020	5. 19	·01265	21. 40	54 ·5	57 ·8
	***	1. 3	·1001	5. 30	·01276			
1. 0	24. 0	1. 7	·1009	8. 0	·01210			
1. 12	29. 0	1. 24	·1000	16. 16	·01808			
	***		***	19. 58	·01840			
1. 40	24. 15	1. 45	·1009	20. 2	·01823			
1. 44	26. 50		***	23. 30	·01830			
2. 0	18. 35	2. 0	·0993					
2. 16	21. 0		***					
	***	2. 30	·1002					
2. 39	18. 10	2. 33	·0996					
	***	2. 47	·1006					
2. 49	20. 20		***					
	***	3. 10	·0994					
3. 33	16. 25		***					
4. 12	16. 5	4. 40	·1009					
4. 48	18. 0		***					
5. 10	14. 30	5. 17	·0992					
5. 18	15. 0	5. 39	·1013					
5. 40	12. 0		***					
	***	11. 45	·1033					
6. 14	11. 35	12. 15	·1022					
	***	12. 45	·1031					
6. 31	13. 20		***					
	***	15. 7	·1012					
7. 3	10. 0		***					
	***	15. 38	·1025					
7. 22	11. 25		***					
	***	16. 43	·1019					
7. 59	8. 5	17. 45	·1036					
	***		***					
8. 22	13. 40	19. 58	·1030					
	***	20. 50:	·1003					
9. 3	9. 0	21. 27	·1013					
	***	22. 57	·1010					
9. 22	11. 5	23. 5	·1006					
	***							
11. 29	5. 5							
	***							
12. 50	14. 50							
	***							
13. 9	11. 45							
13. 30	16. 15							
14. 27	12. 30							
14. 58	21. 20							
15. 26	16. 0							
16. 9	12. 30							
16. 37	16. 5							
17. 12	15. 0							
17. 25	10. 15							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

September 29. The Photographic Registers were illegible.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sep. 30								
h m	° ′ ″	h m		h m		h m	°	°
18. 24	22. 12. 20							
18. 34	11. 0							
19. 16	13. 10							
20. 0	11. 15							
21. 34	12. 0							
	***							
23. 1	19. 20							
23. 14	17. 30							
Oct. 1		Oct. 1		Oct. 1				
0. 0	22. 18. 30	0. 0	·1005	1. 0	·01738	1. 40	56 ·5	59 ·5
	***	1. 42	·1011	4. 32	·01250	3. 40	58 ·0	61 ·0
1. 46	20. 25	1. 57:	·1020	5. 2	·01265	9. 40	59 ·5	62 ·5
1. 58	23. 25	2. 35	·0998	10. 30	·01201	21. 40	56 ·0	59 ·0
	***	3. 45:	·1019	13. 0	·01220			
3. 4	14. 50	4. 40:	·1006	23. 18	·01725			
	***	5. 12:	·1021					
4. 16	18. 0	5. 27	·1018					
	***		***					
5. 0	11. 35	9. 7	·1036					
6. 20	13. 0	9. 47	·1021					
8. 7	11. 35	12. 6	·1043					
8. 30	4. 10	13. 0	·1026					
8. 41	8. 35		***					
9. 0	5. 5	14. 54	·1032					
	***	15. 8	·1024					
10. 29	11. 0	16. 14	·1023					
	***	17. 9	·1037					
11. 2	10. 5		***					
	***	18. 58	·1019					
12. 0	13. 20	20. 12	·1024					
12. 27	10. 20	23. 36	·1000					
12. 58	10. 0							
13. 19:	17. 0							
13. 53	11. 20							
14. 18	13. 20							
14. 31	11. 30							
14. 53	11. 50							
15. 7	16. 25							
15. 35	14. 10							
	***							
17. 1	21. 40							
17. 32	14. 0							
17. 52	11. 20							
18. 29	13. 25							
	***							
20. 0	9. 30							
	***							
21. 59	9. 35							
	***							
23. 59	16. 55							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 2		Oct. 2		Oct. 2				
h m	° ′ ″	h m		h m		h . m	°	°
0. 45	22. 20. 0	0. 5	·0996	1. 30	·01570	2. 25	59 ·5	62 ·5
1. 35	24. 0	0. 32	·1000	1. 40	·01544	3. 40	60 ·0	63 ·0
2. 56	22. 0		***	1. 48	·01505	9. 35	57 ·0	58 ·5
	***	1. 36	·1014	3. 9	·01240	21. 40	52 ·0	53 ·5
3. 42	16. 30	3. 36	·1000	4. 10	·01250			
	***	4. 15:	·1017	5. 8	·01220			
4. 51	16. 20	5. 5	·1010	5. 28	·01235			
5. 12	7. 0	5. 25	·1035	6. 15	·01202			
5. 42	11. 5	6. 9	·1016	12. 42	·01677			
	***	9. 2	·1024	15. 34	·01640			
7. 0	12. 5	9. 20	·1020	16. 26	·01588			
9. 34	11. 30	10. 26:	·1038	18. 0	·01591			
9. 52	9. 30	10. 38	·1030	21. 58	·01640			
	***	11. 57	·1028					
10. 43	11. 25	15. 48	·1040					
	***	17. 0	·1050					
14. 0	11. 5	18. 18	·1030					
14. 10	11. 0	19. 20	·1035					
15. 8	10. 30	22. 15	·1019					
15. 38	18. 10		***					
16. 16	11. 0	23. 8	·1005					
17. 1	14. 0							
	***							
20. 11	9. 0							
	***							
22. 2	15. 0							
	***							
23. 37	18. 0							
	***							
Oct. 3		Oct. 3		Oct. 3				
0. 0	22. 18. 0	0. 0	·1013	9. 40	·01165*	9. 40	58 ·5	61 ·5
	***	1. 0	·1015	21. 40	·01699*	21. 40	51 ·5	54 ·5
1. 42	19. 5		***					
	***	3. 25	·1028					
1. 55	21. 0		***					
	***	5. 2	·1018					
2. 3	19. 30	5. 15	·1030					
	***	6. 0	·1023					
2. 29	21. 10	6. 8	·1028					
	***	6. 36	·1014					
2. 42	19. 0	8. 30	·1018					
3. 15	17. 50	8. 56:	·1050					
3. 23	20. 0		***					
4. 24	16. 30	9. 36	·1015					
	***	10. 0	·1025					
5. 7	10. 0		***					
5. 30	13. 0	11. 0	·1012					
7. 21	12. 5	11. 34	·1040					
7. 45	10. 20	11. 54:	·1035					
8. 20	13. 25	12. 13	·1050					
8. 49	7. 0		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 3		Oct. 3						
h m	° ′ ″	h m		h m		h m	°	°
9. 2	22. 13. 10	13. 24	·1021					
9. 11	11. 25	16. 19	·1029					
9. 31	12. 35	16. 40:	·1020					
9. 50	7. 45	18. 0	·1036					
10. 3	10. 0	18. 27	·1025					
10. 17	8. 20	20. 8	·1026					
10. 51	11. 35		***					
11. 28	2. 25	22. 26	·0979					
11. 43	22. 4. 25		***					
12. 7	21. 59. 0	23. 24	·0996					
12. 17	22. 5. 40	23. 42	·0992					
12. 27	3. 30							
	***							
13. 0	11. 0							
	***							
14. 8	6. 0							
14. 57	8. 5							
15. 11	11. 0							
15. 58	13. 0							
16. 11	11. 0							
	***							
17. 22	16. 0							
17. 30	13. 50							
17. 53	12. 35							
18. 30	15. 55							
18. 50	14. 35							
19. 1	16. 30							
19. 9	14. 50							
19. 16	15. 25							
19. 41	13. 0							
	***							
20. 52	16. 5							
21. 0	13. 30							
	***							
21. 57	13. 35							
	***							
23. 29	21. 30							
23. 45	16. 45							
Oct. 4		Oct. 4		Oct. 4				
0. 0	22. 15. 0	0. 0	·1019	1. 30	·01730	1. 40	53 ·5	56 ·5
0. 18	18. 35	0. 38	·1014	9. 0	·01234	3. 40	56 ·5	59 ·5
0. 30	17. 0	6. 33	·1034	13. 0	·01213	9. 40	57 ·5	60 ·5
	***	7. 27	·1031	14. 2:	·01157	21. 40	56 ·0	58 ·8
2. 9	19. 30	7. 42	·1041	19. 46	·01383			
	***	7. 57	·1035	22. 49	·01412			
5. 0	15. 0	11. 30	·1034	23. 30	·01380			
6. 40	13. 55	12. 56	·1029					
6. 59	11. 5	13. 20:	·1040					
7. 9	11. 40	14. 4	·1040					
7. 25	7. 55	14. 37	·1021					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 4		Oct. 4						
h m	° ′ ″	h m		h m		h m	°	°
7. 42	22. 11. 20	15. 55	·1023					
7. 56	10. 30		***					
9. 0	14. 5	17. 20	·1025					
	***	17. 40	·1036					
12. 29	12. 5	18. 15	·1026					
12. 56	20. 30		***					
13. 24	14. 50	20. 8	·1033					
13. 33	15. 55	21. 10	·1018					
14. 4	10. 5		***					
14. 41	13. 30	23. 27	·1017					
14. 58	12. 35							
15. 45	16. 40							
15. 54	15. 0							
	***							
17. 4	15. 0							
17. 16	16. 0							
	***							
17. 32	13. 15							
	***							
18. 15	16. 0							
	***							
21. 11	11. 35							
	***							
22. 38	13. 0							
23. 40	17. 5							
Oct. 5		Oct. 5		Oct. 5				
1. 40	22. 24. 16*	1. 40	·1003*	1. 40	·01254*	1. 40	58 ·5	61 ·5
3. 40	18. 50*	3. 40	·1010*	3. 40	·01294*	3. 40	60 ·0	63 ·0
9. 40	13. 4*	9. 40	·1025*	9. 40	·01276*	9. 40	59 ·0	61 ·0
21. 40	10. 27*	21. 40	·1018*	21. 40	·01807*	21. 40	53 ·5	56 ·0
Oct. 6		Oct. 6		Oct. 6				
0. 1	22. 15. 25	0. 0	·1019	1. 0	·01770	1. 40	54 ·5	57 ·5
1. 0	18. 0		***	2. 30	·01713	3. 40	55 ·5	58 ·5
	***	1. 27	·1019		***	9. 40	55 ·5	58 ·5
1. 18	21. 10	1. 44	·1007	8. 30	·01383	21. 40	50 ·0	52 ·8
1. 33	18. 0		***	10. 10	·01410			
	***	4. 30:	·1024	10. 18:	·01403			
3. 8	18. 40	5. 25	·1003	15. 4	·01725			
3. 15	19. 30	5. 35	·1013	16. 56	·01695			
3. 26	17. 40	5. 55	·1005	20. 0	·01774			
	***	7. 0	·1030	23. 0	·01768			
3. 54	16. 5	8. 42	·1032					
	***	9. 57	·1038					
4. 53	16. 0	10. 15:	·1056					
5. 26	6. 20	10. 38	·1044					
	***	11. 0	·1052					
5. 54	6. 0		***					
	***	12. 0	·1032					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Oct. 5. The Photographic Registers were lost, owing to errors in the bringing out of the impressions.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 6		Oct. 6						
h m	° ′ ″	h m		h m		h m	°	°
7. 14	22. 15. 0	13. 44	·1025					
	***	14. 5	·1035					
10. 0	13. 20	14. 27	·1031					
	***	15. 30	·1038					
10. 26	8. 50	17. 55	·1036					
10. 50	6. 35	18. 30	·1043					
11. 38	8. 55		***					
11. 51	5. 25	23. 23	·1009					
	***	23. 59	·1012					
12. 44	11. 0							
13. 12	10. 25							
13. 33	13. 5							
13. 57	10. 30							
14. 16	13. 35							
	***							
15. 28	12. 30							
16. 30	17. 0							
	***							
16. 55	15. 0							
17. 20	13. 0							
	***							
18. 32	14. 0							
	***							
20. 34	11. 25							
	***							
22. 6	12. 35							
	***							
23. 59	20. 0							
Oct. 7		Oct. 7		Oct. 7				
0. 0	22. 20. 5	0. 4	·1010	1. 0	·01641	1. 40	52 ·6	55 ·5
	***	0. 8	·1017		***	3. 40	54 ·0	57 ·0
3. 11	20. 50		***	3. 33	·01242	9. 40	54 ·0	57 ·0
4. 30	12. 20	0. 57	·1015		***	21. 40	49 ·5	51 ·7
4. 40	12. 35		***	5. 0	·01285			
4. 52	10. 0	1. 18	·1003		***			
5. 9	10. 25		***	5. 58	·01263			
	***	3. 3	·1024	6. 9	·01282			
5. 39	22. 13. 0		***	10. 33:	·01221			
6. 7	21. 58. 45	3. 35	·1020	19. 0	·01780			
	***		***	23. 30	·01710			
6. 33	22. 9. 25	3. 50	·1008					
6. 43	8. 5		***					
6. 58	11. 5	4. 8	·1017					
7. 31	11. 55		***					
8. 0	5. 10	4. 45	·1013					
8. 20	4. 15		***					
9. 0	11. 15	5. 12	·1027					
10. 27	14. 0		***					
10. 42	12. 0	5. 29	·1020					
10. 59	13. 25		***					
11. 32	11. 15	5. 38	·1023					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 7		Oct. 7						
h m	° ′ ″	h m		h m		h m	°	°
11. 50	22. 14. 20	5. 55	·1009					
12. 43	10. 20	6. 8	·1045					
12. 57	12. 0		***					
13. 58	10. 30	6. 20	·1047					
14. 17	16. 35	6. 38	·1032					
	***		***					
16. 11	12. 0	7. 48:	·1022					
	***	8. 26	·1049					
21. 10	11. 40	8. 38	·1038					
	***	9. 7	·1028					
22. 32	14. 0	9. 50	·1033					
23. 25	20. 10		***					
	***	10. 18	·1047					
23. 59	19. 0	10. 36	·1036					
			***					
		11. 28	·1032					
		11. 42	·1045					
			***					
		14. 27	·1027					
			***					
		15. 18	·1042					
		16. 18	·1036					
			***					
		19. 20	·1038					
		20. 0	·1028					
			***					
		20. 45	·1031					
			***					
		22. 0	·1015					
			***					
		23. 6	·1017					
			***					
		23. 32	·0994					
			***					
		23. 48	·1006					
		23. 51	·0999					
Oct. 8		Oct. 8		Oct. 8				
0. 10	22. 18 25	0. 18	·1014	1. 0	·01739	1. 40	51 ·5	53 ·7
1. 0	21. 0	0. 51	·1023	3. 9	·01628	3. 40	52 ·5	54 ·5
	***		***	6. 30	·01255	9. 40	53 ·0	56 ·0
2. 54	18. 50	3. 3	·1028	9. 0:	·01200	21. 40	46 ·5	49 ·0
3. 15	20. 10	3. 28	·1014	16. 14	·01700			
	***		***	19. 30	·01740			
4. 43	14. 30	4. 24	·1009	23. 30	·01763			
5. 27	7. 0	5. 8	·1027					
5. 39	10. 25	5. 15	·1020					
5. 58:	7. 10	5. 30:	·1028					
6. 35	12. 30	5. 42	·1021					
7. 37	12. 0	6. 14	·1031					
8. 0	10. 15	6. 37	·1023					
8. 22	12. 5		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 8		Oct. 8						
h m	° ′ ″	h m		h m		h m	°	°
8. 30	22. 11. 10	8. 33	·1031					
8. 39	11. 50	8. 55	·1042					
8. 54	8. 5	9. 56	·1031					
9. 52	12. 0	10. 19:	·1045 ***					
10. 9	11. 0							
10. 32:	12. 50 ***	11. 40	·1033					
		11. 56	·1044 ***					
11. 42	9. 40							
12. 1	18. 0 ***	12. 37	·1034 ***					
14. 1	11. 20	14. 24	·1030					
14. 52	13. 15 ***	18. 10	·1040 ***					
18. 0	12. 25	20. 27	·1028 ***					
18. 19	13. 0							
18. 30	11. 0 ***	23. 40	·1018					
20. 52	9. 0							
21. 29	11. 50							
21. 44	10. 35 ***							
23. 41	19. 20							
Oct. 9		Oct. 9		Oct. 9				
0. 0	22. 21. 0 ***	0. 0	·1020 ***	1. 0	·01732	1. 40	49 ·7	52 ·5
				2. 13	·01590	3. 40	52 ·5	54 ·0
5. 42	10. 50	8. 36	·1032	3. 23	·01320	9. 40	53 ·0	54 ·5
6. 30	12. 15	8. 54:	·1045	6. 0	·01767	22. 8	49 ·0	51 ·5
8. 23	11. 40 ***	9. 9	·1035	8. 0	·01790			
		10. 18	·1030	22. 8	·01785			
8. 49	9. 10	11. 50	·1035					
9. 0	10. 56	18. 45	·1041					
9. 40	9. 0 ***	21. 30	·1022					
		22. 25	·1020					
12. 3	11. 50 ***	23. 26	·1020					
		23. 59	·1024 ***					
17. 7	11. 0							
17. 32	12. 0 ***							
20. 40	8. 30 ***							
22. 20	11. 40							
Oct. 10		Oct. 10		Oct. 10				
0. 0	22. 18. 0 ***	1. 56	·1035 ***	1. 0	·01720	5. 32	53 ·0	55 ·0
				5. 26	·01286	9. 54	54 ·5	55 ·8
1. 52	21. 0 ***	3. 48	·1029 ***	7. 30	·01326	21. 40	52 ·5	54 ·8
				10. 30	·01301			
7. 22	11. 30	4. 4	·1036 ***	15. 0	·01306			
8. 26	12. 15			19. 30	·01434			
8. 34	10. 25 ***	4. 25	·1034 ***	23. 0	·01490			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 10		Oct. 10						
h m	° ′ ″	h m		h m		h m	°	°
9. 58	22. 13. 0 ***	8. 30	·1033					
		10. 45	·1040					
10. 40	8. 20 ***	12. 38	·1033					
		13. 5:	·1041					
12. 50	13. 0	14. 15	·1034					
13. 2	18. 0	18. 40	·1039					
13. 46	13. 35	22. 35	·1016					
18. 17	12. 30	23. 37	·1018					
19. 7	12. 50							
19. 30	11. 25 ***							
21. 0	10. 0 ***							
23. 38	19. 0							
Oct. 11		Oct. 11		Oct. 11				
0. 0	22. 20. 0	0. 0	·1018	3. 40	·01411*	3. 40	56 ·0	58 ·5
0. 32	21. 0	3. 12	·1023	9. 40	·01467*	9. 40	58 ·5	63 ·7
2. 28	20. 30	3. 45	·1010 ***	21. 45	·01694*	21. 44	51 ·0	54 ·0
3. 34	18. 0 ***	5. 8	·1008					
4. 29	12. 0	6. 0	·1020 ***					
5. 12	13. 50							
6. 2	11. 50	7. 30	·1020					
7. 32	11. 20	7. 50:	·1009					
8. 1	9. 0	9. 32	·1025					
8. 32	11. 30 ***	10. 23	·1026					
		11. 49	·1039 ***					
11. 15	12. 0 ***	12. 56	·1028					
12. 21	6. 40	18. 36	·1044 ***					
14. 0	13. 0							
16. 2	12. 0	20. 53	·1037					
17. 30	12. 45 ***	21. 20	·1028					
		22. 13	·1024					
20. 10	12. 35 ***	23. 30	·1017					
20. 50	9. 30							
20. 59	11. 55 ***							
22. 20	14. 0 ***							
23. 7	21. 45							
23. 32	21. 25							
Oct. 12		Oct. 12		Oct. 12				
0. 0	22. 21. 30 ***	0. 0	·1018 ***	1. 51	·00947*	1. 50	54 ·5	58 ·5
				3. 40	·01808*	3 40	56 ·5	59 ·5
2. 44	20. 0 ***	1. 45	·1018 ***	9. 40	·01511*	9. 41	57 ·0	59 ·0
						21. 40	52 ·0	55 ·0
6. 51	11. 40 ***	3. 3	·1004 ***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 12		Oct. 12		Oct. 12				
h m	° ′ ″	h m		h m		h m	°	°
9. 48	22. 11. 0	6. 35	·1017	21. 40	·01854			
9. 58	12. 0		***					
10. 9	10. 30	7. 42	·1010					
	***		***					
11. 16	10. 30	12. 36	·1028					
11. 29	11. 20	13. 45	·1023					
11. 46	9. 0	15. 55	·1028					
	***	16. 10	·1034					
15. 8	13. 0	16. 57	·1031					
15. 32	11. 15		***					
15. 43	12. 0	19. 26	·1044					
16. 1	10. 30		***					
16. 23	13. 0	22. 15	·1021					
16. 31	12. 25	23. 48	·1012					
17. 1	15. 40							
18. 15	13. 20							
18. 56	19. 35							
	***							
20. 35	8. 50							
	***							
22. 0	10. 5							
	***							
23. 59	15. 55							
Oct. 13		Oct. 13		Oct. 13				
0. 28	22. 16. 10	0. 20	·1011	1. 30	·01764	1. 40	54 ·5	57 ·5
2. 19	17. 20	0. 33	·1015	4. 0	·01431	3. 40	56 ·0	58 ·5
	***		***	5. 45	·01430	9. 38	57 ·5	60 ·0
8. 0	11. 5	2. 57	·1016	7. 0	·01447	21. 40	54 ·5	57 ·5
11. 57	11. 35		***	12. 30:	·01440			
12. 10	10. 0	4. 17	·1028	23. 30	·01892			
	***		***					
17. 0	12. 35	5. 3	·1018					
19. 52	11. 5		***					
21. 4:	9. 25	9. 58	·1028					
23. 49	16. 30	18. 23	·1035					
		23. 0	·1013					
		23. 42	·1012					
Oct. 14		Oct. 14		Oct. 14				
0. 0	22. 17. 0	0. 0	·1015	0. 30	·01896	1. 42	56 ·0	59 ·5
	***	6. 34	·1028	1. 48	·01851	3. 40	58 ·0	61 ·5
3. 8	17. 25	9. 0:	·1026	5. 12	·01454	9. 43	59 ·0	62 ·0
5. 40	13. 5	11. 30	·1034	6. 30	·01475	21. 40	54 ·5	56 ·8
8. 31	12. 0	16. 0	·1038	9. 0	·01435			
8. 41	11. 20	18. 0	·1041	11. 30:	·01448			
14. 45	13. 5	22. 34	·1017	21. 0	·01954			
15. 10	12. 0	23. 30	·1016	23. 30	·01910			
	***							
19. 0	12. 0							
21. 13	10. 10							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 14								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 15. 55							
Oct. 15		Oct. 15		Oct. 15				
0. 7	22. 16. 5	0. 0	·1020	1. 0	·01891	2. 23	56 ·5	59 ·5
1. 0	18. 50	0. 10	·1022	8. 0	·01420	3. 40	57 ·5	60 ·5
6. 30	14. 10	5. 24	·1026	9. 42:	·01420	9. 40	57 ·5	61 ·5
13. 0	12. 5	11. 30	·1037	20. 30	·01924	21. 40	55 ·0	58 ·5
16. 36	13. 15	19. 36	·1044	23. 0	·01890			
	***		***					
18. 23	13. 10	20. 48	·1020					
	***	22. 37	·1016					
19. 52	9. 30		***					
	***	23. 30	·1028					
21. 41	14. 0	23. 59	·1017					
	***							
22. 50	13. 0							
	***							
23. 54	21. 30							
	***							
Oct. 16		Oct. 16		Oct. 16				
0. 59	22. 22. 25	0. 45	·1016	1. 0	·01880	2. 50	57 ·0	60 ·0
1. 9	25. 5	1. 0	·1010	2. 30:	·01820	3. 40	57 ·5	60 ·5
	***		***	9. 0:	·01411	9. 40	56 ·5	59 ·5
1. 57	18. 50	1. 30	·1005	16. 10	·01872	23. 0	49 ·5	51 ·8
	***	2. 13	·1016	23. 25	·01780			
2. 29	21. 5	2. 25	·1011					
2. 40	20. 20	2. 50	·1017					
3. 27	20. 55	3. 28	·1010					
	***	4. 55	·1018					
6. 38	10. 25	6. 4	·1016					
7. 23	13. 15	7. 12	·1028					
9. 17	12. 5	11. 50	·1029					
9. 38	10. 20	16. 30	·1040					
10. 7	9. 15	17. 18	·1039					
11. 30	9. 30	18. 0	·1046					
13. 0	12. 35	18. 35	·1044					
17. 10	14. 30	19. 15	·1050					
	***	20. 46	·1049					
18. 0	12. 30	21. 7	·1040					
	***	23. 50	·1030					
21. 10	9. 0							
	***							
23. 39	19. 0							
	***							
Oct. 17		Oct. 17		Oct. 17				
0. 0	22. 16. 10	0. 0	·1018	1. 0	·01813	5. 44	57 ·0	59 ·0
	***		***	4. 2	·01400	21. 48	52 ·5	53 ·7
0. 32	21. 20	1. 45:	·1039		***			
1. 0	17. 5	2. 2	·1032	6. 27	·01473			
	***	2. 36	·1033	10. 10	·01380			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 17		Oct. 17		Oct. 17				
h m	° ′ ″	h m		h m		h m	°	°
1. 30	22. 17. 40	3. 3	·1014	11. 3	·01286			
	***	3. 34	·1010	11. 25	·01298			
1. 44	20. 35		***	11. 50:	·01282			
	***	4. 24	·1024	20. 46	·01915			
2. 52	19. 30	4. 45:	·1009	22. 15	·01875			
	***	5. 4	·1016	23. 30	·01892			
3. 17	22. 10		***					
3. 55	21. 35	5. 40	·1009					
	***	5. 45	·1019					
4. 33	17. 40	6. 4	·1000					
4. 58	16. 30	6. 19	·1015					
	***		***					
5. 40	5. 25	6. 36	·1018					
5. 52	10. 10	7. 7	·1008					
6. 11	5. 35	7. 26	·1008					
6. 58	12. 50	7. 42	1018					
7. 21	7. 55	7. 54	·1010					
7. 40	9. 25	8. 18:	·1015					
8. 1	7. 20		***					
8. 35	9. 0	8. 24	·1005					
9. 0	3. 25		***					
10. 0	8. 5	10. 0	·1018					
10. 24	22. 11. 35	10. 24:	·1036					
11. 2	21. 56. 55	11. 0:	·1020					
	***	11. 18	·1033					
11. 41	22. 1. 40		***					
12. 1	21. 53. 20	12. 17	·1012					
12. 59	22. 8. 55		***					
	***	14. 36	·1026					
13. 30	9. 30		***					
13. 45	7. 30	16. 8	·1024					
	***		***					
14. 40	14. 35	18. 27	·1038					
14. 51	13. 0		***					
	***	20. 18	·1020					
16. 22:	20. 0		***					
16. 48	13. 0	22. 0	·1016					
	***	22. 11	·1010					
17. 57	15. 20		***					
	***	22. 38	·1016					
19. 0	12. 45		***					
	***	23. 3	·1004					
20. 0	14. 30		***					
	***	23. 57	·1008					
20. 59	12. 35							
21. 10	15. 0							
21. 38	13. 5							
22. 20	14. 30							
	***							
22. 58	20. 0							
23. 6	18. 10							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 17								
h m	° ′ ″	h m		h m		h m	°	°
23. 30	22. 21. 40							
23. 33	20. 20							
23. 50	23. 0							
Oct. 18		Oct. 18		Oct. 18				
0. 0	22. 23. 0	0. 6	·1010	1. 0	·01824	1. 45	56 ·5	59 ·5
	***		***	2. 51	·01480	3. 40	59 ·0	62 ·0
0. 40	22. 0	0. 40	·1021	3. 15	·01475	9. 50	59 ·5	62 ·5
1. 0	28. 0		***	3. 35	·01499	21. 40	52 ·0	56 ·5
	***	2. 54	·1021	3. 41	·01489			
2. 21	17. 5	3. 10	·1010	4. 9	·01513			
	***	3. 28	·1022	4. 16	·01500			
2. 59	21. 0		***		***			
3. 14	17. 0	4. 12	·0983	5. 11	·01638			
3. 33	20. 0	4. 35	·1018	5. 18	·01588			
3. 45	17. 40	4. 42	·1005		***			
	***		***	5. 49	·01520			
4. 10	19. 0	4. 57	·1016	6. 36	{·01510			
4. 21	13. 0	5. 1	·1007		{·01755			
	***	5. 11	·1045	10. 4:	·01564			
4. 43	22. 17. 30	5. 17	·1029	15. 30	·01998			
	***	5. 28	·1059	18. 0	·01950			
5. 15	21. 45. 15	5. 38	·1052	19. 30	·01960			
5. 20	49. 0	5. 54	·1019	22. 5	·01932			
5. 31	21. 33. 30		***					
	***	6. 0	·1024					
6. 11	22. 10. 40	6. 12	·0991					
6. 17	8. 30	6. 15	·0995					
6. 28	14. 5	6. 27	·0973					
6. 33	7. 15	6. 36	·0994					
6. 45	12. 50		***					
7. 1	22. 12. 40	6. 49	·0996					
7. 28	21. 59. 25		***					
	***	7. 11	·0982					
8. 52	22. 11. 15	7. 29	·0990					
	***		***					
9. 32	9. 40	7. 36	·0985					
	***		***					
14. 0	11. 50	9. 42	·1008					
	***		***					
17. 10	13. 30	10. 34	·1021					
	***	10. 43	·1010					
18. 45	13. 0		***					
	***	11. 5	·1018					
20. 30	14. 5		***					
	***	12. 24	·1021					
21. 26	11. 30	12. 29	·1011					
	***	12. 42	·1022					
22. 5	12. 40	14. 52	·1018					
		14. 58	·1030					
		15. 5	·1022					
			***					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Oct. 18 h m		h m		h m	°	°
		20. 54	·1028					
		22. 5	·1019					
Oct. 19		Oct. 19		Oct. 19				
0. 5	22. 18. 30	0. 35	·1020	1. 0	·01952	1. 38	54 ·0	57 ·5
0. 37	19. 20	2. 0	·1032	2. 0	·01921	3. 40	55 ·5	59 ·5
	***	4. 25	·1013	5. 52	·01350	9. 40	57 ·0	59 ·0
4. 31	9. 20	4. 27	·1022	7. 16	·01363	21. 40	49 ·5	55 ·0
5. 0	11. 25	6. 15	·1019	9. 40:	·01305			
6. 10	22. 11. 5	6. 36:	·1003	18. 9	·01921			
7. 1	21. 56. 50	7. 12:	·1025	21. 46	·01877			
	***	8. 47	·1016		***			
8. 31	22. 12. 0	8. 7	·1021	23. 48	·01940			
8. 45	9. 55	8. 20	·1016					
	***	9. 58	·1019					
9. 45	9. 20	10. 8	·1026					
10. 2	0. 30	12. 10	·1024					
11. 30	11. 20	15. 27	·1033					
13. 1	11. 5	16. 25:	·1022					
14. 1	13. 35	18. 36	·1031					
14. 27	11. 0		***					
14. 39	13. 30	20. 0:	·1021					
15. 38	7. 5		***					
16. 31	9. 0	21. 37	·0985					
16. 48	6. 5	22. 3	·0990					
17. 40	10. 0		***					
17. 48	9. 15	22. 23:	·1004					
18. 32	12. 30		***					
19. 0	11. 35	22. 56	·0990					
	***		***					
20. 5	16. 30	23. 18	·1000					
	***		***					
21. 0	12. 45	23. 45	·0985					
	***	23. 59	·0991					
21. 46	14. 0		***					
	***							
22. 28	21. 0							
	***							
22. 32	19. 10							
	***							
22. 57	22. 0							
23. 12	21. 15							
	***							
23. 43	25. 25							
	***							
Oct. 20		Oct. 20		Oct. 20				
0. 48	22. 24. 30	0. 40	·0996	1. 0	·01910	1. 51	55 ·0	60 ·0
1. 3	20. 0		***	2. 48	·01515	3. 40	57 ·5	62 ·0
	***	0. 58	·0993	3. 55	·01436	9. 40	59 ·0	62 ·5
3. 54	13. 5	2. 37:	·1012	5. 0	·01460	21. 40	52 ·0	55 ·0
4. 42	22. 15. 15	3. 30:	·1004	5. 4	·01451			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 20 h m	° ′ ″	Oct. 20 h m		Oct. 20 h m		h m	°	°
5. 20	21. 56. 50	4. 0	·1015	5. 11	·01486			
5. 59	22. 11. 55	4. 17	·1012	5. 32	·01496			
6. 4	10. 10	4. 38	·0996	9. 39	·01334			
6. 14	11. 40	4. 44	·0996	10. 26	·01355			
6. 51	22. 12. 0	4. 58	·1034	11. 27:	·01335			
7. 53	21. 52. 20	5. 23	·1002	14. 34:	·01657			
8. 37	22. 7. 5	5. 32	·1000	16. 32	·01871			
	***		***	20. 25	·01945			
9. 20	3. 30	5. 46	·0992	21. 43	·01920			
	***	6. 38	·1014		***			
10. 28	10. 25	7. 0	·0999	23. 58	·01974			
10. 53	1. 10		***					
11. 15	12. 0	8. 30	·1013					
11. 39:	2. 40		***					
11. 58	4. 30	9. 42	·1002					
	***		***					
13. 9	0. 30	10. 27	·1020					
13. 57	8. 25	10. 46	·1054					
14. 10	7. 40	11. 9	·0998					
14. 42	23. 0	11. 38	·1020					
15. 33	15. 0	12. 0:	·1004					
15. 47	15. 10	12. 29	·1018					
16. 14	9. 0		***					
	***	14. 13	·1008					
17. 29	8. 45	14. 28	·1024					
18. 10	11. 50		***					
18. 49	10. 25	15. 7:	·1012					
	***		***					
20. 27	18. 0	16. 9	·1036					
	***		***					
21. 43	13. 55	17. 34	·1020					
	***	18. 23	·1031					
23. 21	19. 5	19. 33	·0995					
23. 59	16. 40	19. 48	·1018					
			***					
		20. 28	·0999					
		20. 39	·1010					
			***					
		21. 31	·0991					
		21. 47	·1005					
			***					
		22. 44	·0986					
			***					
		23. 30	·0986					
		23. 48	·0998					
Oct. 21		Oct. 21		Oct. 21				
0. 30	22. 20. 35	0. 30	·1010	1. 0	·01927	1. 40	54 ·5	57 ·5
	***	3. 4	·1016	4. 31	·01424	3. 40	56 ·5	60 ·5
2. 29	18. 15	3. 28:	·0992	10. 12	·01393	9. 40	59 ·8	63 ·5
2. 51	19. 30		***	10. 30	·01375	21. 40	58 ·0	63 ·0
3. 27	17. 0	4. 0	·1017	13. 0	·01360			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 21		Oct. 21		Oct. 21		h m	o	o
h m	o ′ ″	h m		h m				
3. 59	22. 6. 30	5. 17	·1001	16. 0	·01363			
	***	6. 17	·1011	19. 0	·01451			
5. 0	12. 20	6. 26	·1017	23. 30	·01491			
5. 40	11. 25		***					
6. 1	13. 40	7. 33	·1017					
7. 6	11. 40		***					
	***	8. 11	·1033					
8. 9:	3. 35		***					
8. 45	11. 0	9. 2	·1017					
10. 0	10. 30		***					
10. 15	6. 30	9. 56:	·1016					
10. 29	10. 10	10. 16	·1043					
10. 44	8. 25		***					
11. 5	12. 0	11. 10	·1016					
12. 0	11. 0		***					
12. 29	7. 5	11. 36:	·1022					
13. 0	13. 20	12. 28	·1015					
	***	16. 15	·1015					
17. 30	12. 45	17. 0	·1024					
	***		***					
18. 18	10. 20	19. 34	·1014					
	***		***					
20. 33	11. 10	22. 54	·1000					
21. 1	9. 25	23. 36	·0990					
	***							
23. 0	15. 30							
	***							
23. 55	17. 0							
Oct. 22		Oct. 22		Oct. 22				
1. 0	22. 18. 55	0. 0	·0990	1. 30	·01461	1. 40	61 ·5	65 ·5
4. 20	14. 0	0. 57	·0991	2. 20	·01480	3. 40	62 ·5	67 ·0
7. 42	11. 0		***	3. 30	·01475	9. 40	64 ·0	67 ·5
7. 47	10. 5	3. 6	·1000	4. 40	·01458	21. 40	63 ·0	67 ·5
9. 15	9. 10	3. 34:	·1012	5. 12	·01480			
10. 19	11. 20	8. 54	·1012	5. 21	·01580			
18. 30	12. 30	9. 6:	·1030	6. 40	·01487			
19. 12	11. 0	9. 30	·1020	14. 0:	·01460			
20. 42	11. 50	18. 36	·1023	20. 7	·01652			
21. 1	4. 15	22. 57	·0992	22. 34	·01626			
22. 3	11. 5	23. 40	·0992					
	***							
23. 26	16. 55							
23. 29	15. 25							
23. 40	16. 30							
Oct. 23		Oct. 23		Oct. 23				
0. 0	22. 17. 0	0. 0	·0994	1. 0	·01655	1. 40	64 ·0	67 ·4
0. 33	18. 0	2. 6	·0996	5. 13	·01555	3. 40	63 ·0	67 ·5
0. 40	19. 50	3. 32	·1007	7. 30:	·01552	9. 40	61 ·0	64 ·5
9. 17	11. 20	11. 12	·1024	12. 15	·02080	23. 4	52 ·0	57 ·0
9. 59	9. 30	11. 38:	·1026		(†)			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 23		Oct. 23		Oct. 23		h m	o	o
h m	o ′ ″	h m		h m				
10. 21	22. 10. 30	11. 57	·1039	14. 53	·02080			
10. 41	7. 50	12. 33:	·1029	23. 14	·01987			
11. 57	12. 35	19. 0	·1038					
12. 20	10. 40	23. 12	·1018					
16. 41	11. 50							
17. 30	14. 45							
19. 28	12. 5							
19. 49	12. 35							
20. 33	10. 0							
22. 0	10. 50							
23. 13	16. 5							
Oct. 24		Oct. 24		Oct. 24				
0. 0	22. 20. 30	0. 0	·1011	1. 0	·02002	10. 35	57 ·5	62 ·0
1. 37	22. 0		***	9. 30:	·01412	21. 40	54 ·5	57 ·0
	***	4. 45	·1017	18. 13	·01984			
4. 39	15. 0		***	20. 15	·02000			
	***	6. 12	·1021	23. 30	·01980			
5. 37	15. 0	7. 30:	·1006					
	***	10. 3	·1032					
7. 58	10. 25	10. 27	·1021					
8. 41	12. 35	11. 30	·1019					
9. 12	11. 50	15. 24	·1029					
	***	18. 26	·1031					
10. 10	4. 0	23. 30	·1013					
11. 16	8. 0							
12. 11	7. 55							
13. 30	11. 30							
18. 0	12. 0							
21. 0:	10. 0							
21. 53	10. 50							
23. 59	17. 0							
Oct. 25		Oct. 25		Oct. 25				
0. 24	22. 17. 40	0. 0	·1014	1. 0	·01950	1. 40	55 ·5	58 ·5
	***	0. 30	·1018	3. 32	·01834	3. 40	56 ·0	59 ·5
3. 0	17. 0	1. 34	·1032		·01703	9. 40	54 ·3	58 ·0
4. 0	14. 20	9. 34	·1047	8. 30:	·01460	21. 40	48 ·0	52 ·5
10. 48	11. 45	11. 48	·1043	14. 15	·01922			
11. 13	9. 10	13. 27	·1045	23. 15	·01830			
11. 42	11. 0	20. 36	·1054					
12. 3	9. 15	23. 52	·1040					
	***							
17. 42	10. 30							
20. 42	9. 0							
23. 41	14. 0							
Oct. 26		Oct. 26		Oct. 26				
0. 0	22. 15. 0	0. 15	·1048	1. 0	·01821	1. 40	50 ·0	53 ·5
	***	3. 30	·1048	7. 30	·01210	3. 40	52 ·0	55 ·0
2. 58	17. 40		***	11. 30:	·01205	9. 40	53 ·5	57 ·0
3. 11	15. 25	4. 45	·1044	21. 0	·01761	21. 40	49 ·0	53 ·3

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 26		Oct. 26		Oct. 26				
h m	° ′ ″	h m		h m		h m	°	°
3. 32	22. 16. 20	5. 4	·1049	23. 30	·01786			
			***					
4. 49	13. 35							
8. 48	13. 25	6. 24	·1042					
9. 30	11. 20	7. 0	·1048					
			***					
14. 10	11. 30							
14. 30	10. 30	11. 44	·1045					
20. 0	11. 10	13. 35	·1046					
21. 30:	9. 35	19. 6:	·1054					
23. 41	15. 45	22. 22	·1036					
		23. 37	·1035					
Oct. 27		Oct. 27		Oct. 27				
0. 0	22. 16. 55	0. 0	·1037	1. 40	·01759*	1. 45	51 ·0	54 ·8
	***		***	3. 40	·01795*	3. 40	53 ·3	57 ·0
1. 45	21. 0	1. 39	·1037	9. 40	·01286*	9. 40	54 ·5	58 ·0
1. 58	20. 5	1. 48	·1031	21. 40	·01402*	21. 40	52 ·5	55 ·8
	***	1. 56	·1041					
			***					
2. 39	23. 0							
2. 44	20. 30	4. 0	·1024					
	***		***					
4. 4	15. 50	6. 32	·1028					
	***		***					
5. 31	18. 0	7. 4	·1018					
	***	7. 23	·1037					
			***					
6. 48	17. 0							
7. 17	7. 10	8. 8	·1022					
7. 50	15. 0	11. 0	·1037					
8. 27	10. 45	11. 24	·1045					
	***	11. 38	·1041					
9. 24	10. 0	12. 30:	·1032					
10. 45	11. 0	18. 15:	·1045					
11. 12	6. 30	19. 28:	·1044					
11. 31	9. 35	23. 24	·1022					
11. 55	8. 0							
14. 0	12. 20							
	***							
19. 0	12. 5							
21. 30:	10. 0							
23. 31	15. 10							
Oct. 28		Oct. 28		Oct. 28				
0. 0	22. 16. 5	0. 0	·1026	1. 0	·01436	1. 40	54 ·5	57 ·5
	***	1. 30	·1025	2. 55	·01301	3. 40	56 ·5	69 ·5
2. 11	17. 40	5. 25	·1038	5. 32	·01320	9. 40	56 ·5	58 ·5
	***	5. 32	·1033	6. 0	·01331	21. 40	49 ·0	54 ·0
6. 0	12. 45	7. 32	·1038	10. 0:	·01273			
	***	7. 36	·1046	18. 56	·01930			
12. 45	13. 0	7. 40	·1042	23. 30	·01861			
13. 22	11. 5		***					
	***	9. 45	·1040					
19. 30	11. 35	17. 35	·1052					
	***	18. 0	·1058					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 28		Oct. 28						
h m	° ′ ″	h m		h m		h m	°	°
21. 25	22. 8. 30	21. 42	·1045					
21. 54	11. 20	22. 4	·1033					
22. 6	9. 25	22. 17	·1038					
22. 24	12. 5	22. 35	·1026					
			***					
22. 42	12. 25							
	***	23. 45	·1024					
23. 15	19. 5							
23. 42	17. 0							
Oct. 29		Oct. 29		Oct. 29				
0. 8	22. 18. 35	0. 12	·1027	1. 0	·01910	1. 40	52 ·0	54 ·5
	***		***	9. 0	·01206	3. 40	54 ·0	58 ·0
1. 40	20. 55	2. 30	·1040	10. 33	·01213	9. 40	54 ·0	58 ·5
2. 10	18. 55		***	10. 54	·01200	21. 40	52 ·5	55 ·5
2. 32	21. 0	2. 54	·1034	11. 13	·01237			
2. 47	19. 0		***	13. 0	·01199			
3. 8	20. 40	5. 50	·1042	16. 0	·01217			
	***		***	19. 0	·01287			
4. 38	15. 50	6. 12	·1052	20. 30	·01342			
6. 0	14. 0		***	23. 15	·01385			
6. 31	14. 50	6. 48	·1042					
	***		***					
8. 0	14. 20	7. 32	·1056					
8. 30	12. 10	8. 5	·1044					
	***		***					
10. 10	10. 15	9. 26	·1050					
			***					
10. 31	22. 12. 30							
11. 8	21. 55. 20	9. 58	·1043					
11. 16	57. 5	10. 13	·1046					
			***					
11. 28	21. 56. 5							
11. 53	22. 5. 20	11. 0	·1026					
12. 8	2. 25	11. 10	·1044					
12. 23	3. 10	11. 15	·1038					
12. 40	8. 30	11. 40:	·1050					
			***					
12. 57	6. 5							
13. 11	7. 25	12. 36	·1036					
13. 29	5. 50	12. 44	·1044					
			***					
13. 41	10. 15							
	***	13. 2	·1034					
			***					
15. 15	13. 20							
	***	19. 16	·1044					
			***					
16. 28	11. 5							
	***	20. 40	·1013					
			***					
16. 53	12. 30							
	***	21. 4	·1024					
17. 18	11. 0	21. 10	·1011					
	***	21. 17	·1031					
			***					
18. 1	12. 35							
	***	22. 11	·1028					
19. 12	10. 0	23. 10	·1017					
	***	23. 34	·1024					
19. 47	11. 10							
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 29								
h m	° ′ ″	h m		h m		h m	°	°
20. 44	22. 16. 50							
	***							
21. 9	12. 0							
21. 18	15. 20							
	***							
21. 41	9. 0							
	***							
22. 28	16. 0							
	***							
22. 49	11. 5							
	***							
23. 35	15. 5							
	***							
Oct. 30		Oct. 30		Oct. 30				
0. 3	22. 15. 25	0. 0	·1019	1. 0	·01253	1. 40	56 ·0	57 ·5
	***	1. 42:	·1026		***	3. 40	59 ·5	61 ·2
1. 33	18. 15	3. 10	·1015	4. 20	·01480	9. 40	63 ·5	65 ·5
1. 49	16. 10	3. 34:	·1020	11. 0	·01430	21. 50	59 ·5	62 ·5
2. 3	17. 55	4. 4	·1013	14. 30:	·01380			
	***	4. 22:	·1016	22. 12	·01711			
4. 8	17. 35	4. 35	·1005					
	***		***					
4. 59	12. 20	4. 50	·1005					
5. 37	12. 45		***					
5. 51	11. 10	5. 12	·1018					
5. 59	11. 35		***					
6. 28	9. 5	7. 23	·1022					
7. 0	12. 45	11. 56	·1024					
8. 45	11. 0	12. 8	·1040					
11. 52	10. 35	12. 36	·1030					
12. 7	12. 40	12. 57	·1034					
12. 58	7. 35	13. 45	·1025					
	***	15. 14:	·1022					
14. 48	8. 35	15. 52:	·1038					
15. 11	12. 20		***					
15. 36	5. 0	17. 58	·1025					
	***	19. 44	·1029					
17. 0	10. 55	19. 55	·1023					
	***	20. 0	·1032					
19. 51	11. 0	20. 6	·1026					
19. 59	8. 40	20. 10	·1031					
20. 3	11. 25		***					
20. 9	9. 10	22. 12	·1017					
	***	23. 24	·1000					
21. 27	8. 50							
22. 15	11. 25							
Oct. 31		Oct. 31		Oct. 31				
0. 0	22. 18. 5	0. 0	·1003	0. 0	·01770	10. 0	61 ·5	65 ·5
	***	1. 45	·1014	1. 0	·01764	21. 40	57 ·0	61 ·0
2. 15	20. 35		***	4. 45	·01452			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 31		Oct. 31		Oct. 31				
h m	° ′ ″	h m		h m		h m	°	°
2. 32	22. 17. 0	2. 20	·1003	7. 13	{ ·01485			
	***	3. 0	·1015		{ ·01650			
5. 33	11. 0		***	10. 15	·01574			
6. 7	9. 10	5. 13	·1016	12. 12	·01600			
7. 31	12. 35	6. 55	·1031	12. 22	·01630			
7. 57	10. 0	7. 41	·1016	12. 27	·01595			
8. 9	0. 25		***	12. 29	·01634			
8. 15	22. 0. 30	8. 30	·1044	12. 32	·01573			
8. 27	21. 55. 20	9. 0	·1020		***			
8. 35	21. 55. 20	10. 17	·1018	13. 56	·01664			
9. 50	22. 8. 40	10. 18	·1041		***			
10. 59	4. 0	10. 51	·1029	14. 10	·01630			
11. 47	7. 10	11. 8	·1038	15. 17	·01685			
12. 20	11. 0		***	15. 38	·01651			
12. 28	15. 15	12. 8	·1029	16. 47	·01730			
12. 29	12. 10	12. 24	·1087	16. 57	·01760			
12. 31	15. 0	12. 35	·1029	17. 0:	·01745			
12. 40	10. 0		***		***			
	***	12. 45	·1036	21. 6	·02070			
12. 50	11. 0	12. 47	·1009	22. 30	·02094			
12. 54	5. 5		***					
13. 28	13. 0	13. 43	·1040					
13. 46	12. 40	13. 51	·1069					
13. 59	19. 0	14 0	·1044					
14 41	2. 5	14 5	·1054					
15. 21	21 30	14. 7	·1043					
15 46	6. 40		***					
15 50	12. 0	15 0	·1026					
16. 3	4. 0	15. 25	·1053					
16. 10	4. 5	15. 36	·1048					
	***	15. 43	·1067					
16. 32	17. 10	15. 45	·1053					
	***		***					
16. 45	14. 25	17. 34	·1023					
16. 50	16. 30		***					
16. 56	11. 10	18. 22	·1036					
16. 58	17. 5	19. 46	·1032					
	***	19. 50	·1020					
17. 29	9. 0	19. 54	·1030					
	***	19. 58	·1017					
17. 45	9. 0		***					
17. 58	15. 45	20. 25	·1013					
	***	20. 58	·1019					
18. 8	8. 0	21. 45	·1005					
	***	23. 36	·0995					
18. 15	10. 55	23. 59	·1000					
	***							
18. 32	8. 50							
18. 45	11. 0							
19. 0	8. 35							
	***							
19. 32	12. 0							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 31								
h m	° ′ ″	h m		h m		h m	°	°
19. 33	22. 8. 15							
19. 51	13. 5 ***							
20. 9	9. 0 ***							
20. 13	15. 0 ***							
20. 34	10. 0 ***							
21. 9	12. 0 ***							
21. 59	10. 30 ***							
22. 2	12. 35 ***							
22. 33	12. 5							
23. 30	17. 5							
23. 59	17. 10							
Nov. 1		Nov. 1		Nov. 1				
0. 5	22. 18. 5	0. 13	·1000	1. 0	·02130	1. 40	60 ·5	64 ·0
0. 40	17. 30	1. 40	·1014	2. 2	·02095	3. 40	62 ·5	65 ·0
1. 45	19. 0	2. 8	·1008	8. 11	·01526	9. 40	64 ·0	67 ·2
2. 52	15. 0	3. 20	·1022 ***	10. 13	·01480	21. 40	62 ·5	67 ·0
3. 30	17. 35 ***	5. 0	·1007	12. 30	·01503			
4. 11	15. 40 ***	5. 24	·1018 ***	14. 0	·01460			
4. 54	17. 20	6. 20	·1023	16. 57	·01430			
5. 16	12. 0	6. 41	·1009	20. 0	·01565			
5. 29	13. 0	6. 50	·1018	22. 31	{ ·01582 ·01451			
5. 42	4. 5	7. 24	·1000	23. 46	·01505			
5. 48	5. 0	8. 25	·1021					
6. 11	1. 30 ***	9. 7	·1044					
		9. 25	·1026					
7. 16	16. 35	9. 33	·1034 ***					
7. 37	13. 20							
8. 26	10. 25	10. 45	·1004					
8. 30	11. 0	11. 58	·1005					
8. 54	1. 10	12. 28	·1030					
9. 22	9. 25	13. 8	·1032					
9. 31	4. 10	13. 59	·1013					
9. 39	5. 55	15. 18	·1034					
9. 43	3. 35	15. 57	·1007					
10. 9	22. 5. 0	17. 0	·0998 ***					
10. 22	21. 59. 55							
11. 25	22. 8. 30	18. 0	·1018 ***					
12. 20	6. 10							
12. 30	7. 0	23. 14	·0991					
12. 58	2. 35	23. 54	·1000					
13. 27	8. 0 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 1								
h m	° ′ ″	h m		h m		h m	°	°
14. 3	22. 3. 10							
14. 54	8. 0							
15. 29	5. 0							
15. 40	8. 20							
15. 57	8. 30							
16. 20	13. 40 ***							
16. 58	11. 30							
17. 10	14. 0							
18. 8	10. 30							
19. 7	16. 30							
19. 22	14. 30							
19. 37	15. 50							
19. 41	12. 45 ***							
20. 2	12. 0 ***							
20. 31	13. 5 ***							
20. 41	10. 25 ***							
20. 51	12. 45 ***							
21. 7	11. 0 ***							
21. 15	12. 20 ***							
22. 9	11. 30 ***							
23. 1	14. 0 ***							
23. 30	18. 0							
23. 45	15. 50							
23. 53	19. 35							
Nov. 2		Nov. 2		Nov. 2				
0. 41	22. 17. 0 ***	0. 42	·0996	1. 0	·01451	1. 40	64 ·0	66 ·5
		1. 45	·1006	5. 30	·01522	3. 40	65 ·3	67 ·2
1. 29	19. 15	2. 48	·1003	9. 27	·01500	9. 40	64 ·5	67 ·5
2. 26	17. 30	3. 27	·1015		(†)	21. 40	58 ·0	61 ·5
2. 57	15. 0 ***	9. 33	·1018 (†)	23. 14	·02132			
7. 28	12. 25	21. 53	·1018	23. 58	·02130			
7. 42	9. 20	22. 45	·1006					
8. 12	12. 10	23. 59	·1007					
9. 27	11. 30 (†)							
21. 53	11. 0 ***							
23. 4	15. 10							
23. 59	15. 35							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 3		Nov. 3		Nov. 3				
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 15. 30	0. 30	·1007	1. 0	·02158	1. 50	58 ·4	62 ·0
2. 0	17. 0	4. 16	·1018	1. 47	·02147	3. 40	60 ·0	63 ·0
	***		***		(†)	9. 40	63 ·5	67 ·0
4. 32	14. 0	5. 45	·1048	2. 33	·01771	21. 40	54 ·5	57 ·5
4. 42	15. 25	6. 15	·1007	8. 34	·01443			
5. 30	12. 30		***	9. 20	·01364			
5. 55	16. 35	7. 7	·1026	13. 0:	·01426			
6. 20	22. 12. 40		***	20. 28	·02100			
6. 59	21. 58. 30	8. 31	·1003	22. 37	·02053			
7. 31	22. 5. 55	8. 54	·1045	23. 45	·02089			
7. 39	5. 0		***					
8. 3	13. 55	10. 45	·1014					
8. 20	13. 25		***					
8. 41	3. 25	19. 25	·1034					
8. 59	11. 25		***					
9. 21	1. 10	22. 21	·1014					
9. 57	9. 5	23. 57	·1025					
11. 45	12. 30							
11. 59	14. 35							
12. 27	13. 5							
12. 58	16. 15							
13. 9	15. 20							
13. 29	17. 10							
14. 0	14. 0							
14. 33	12. 0							
15. 7	12. 30							
15. 23	11. 5							
16. 20	10. 10							
16. 50	11. 40							
18. 41	11. 55							
18. 51	13. 0							
19. 0	11. 20							
	***							
20. 0	10. 40							
20. 13	12. 5							
20. 29	10. 10							
	***							
22. 11	10. 35							
	***							
23. 59	16. 20							
Nov. 4		Nov. 4		Nov. 4				
0. 0	22. 16. 20	1. 15	·1014	1. 0	·02060	1. 40	57 ·2	60 ·0
	***	8. 32	·1013	4. 50	·01413	3. 40	59 ·5	63 ·5
2. 3	16. 20	9. 45	·1031	6. 26	·01430	9. 40	61 ·0	63 ·5
6. 0	10. 0	10. 2	·1024	9. 58:	·01360	21. 40	58 ·5	61 ·5
	***	19. 22	·1037	21. 30	·01711			
8. 12	10. 0	21. 18	·1019	23. 30	·01720			
8. 30	11. 10	23. 49	·1017					
8. 40	10. 30							
8. 59	12. 25							
9. 37	12. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 4								
h m	° ′ ″	h m		h m		h m	°	°
9. 52	22. 15. 55							
10. 13	11. 0							
15. 1	12. 30							
15. 30	14. 15							
16. 8	10. 25							
16. 39	9. 0							
	***							
18. 27	11. 30							
	***							
20. 39	12. 0							
21. 0	9. 15							
	***							
22. 10	9. 0							
	***							
23. 52	15. 25							
	***							
Nov. 5		Nov. 5		Nov. 5				
0. 0	22. 16. 20	0. 16	·1013	1. 0	·01616	1. 40	60 ·5	63 ·5
	***	1. 50	·1010	3. 13	·01375	3. 40	62 ·5	65 ·5
1. 14	16. 30	2. 21	·0993	9. 10	·01429	10. 0	64 ·5	68 ·5
1. 37	18. 35		***		·01685	21. 40	56 ·0	58 ·0
1. 50	18. 0	7. 1	·1022	10. 22:	·01633			
2. 36	19. 30	7. 17	·1011	16. 46	·02197			
	***	7. 27	·1017	23. 0	·02070			
4. 13	15. 25	8. 46	·1001					
4. 41	16. 0	9. 10	·1021					
5. 1	13. 0	10. 5	·1011					
5. 30	13. 0	18. 47	·1031					
6. 1	9. 20	19. 37	·1020					
6. 10	10. 20		***					
6. 29	3. 30	21. 42	·1030					
6. 45	2. 30	23. 13	·1007					
7. 11	8. 15							
7. 28	8. 5							
7. 36	9. 40							
8. 30	22. 10. 0							
8. 58	21. 59. 30							
10. 30	22. 10. 20							
	***							
12. 43	11. 25							
13. 42	13. 25							
14. 23	11. 10							
14. 50	13. 20							
	***							
16. 11	8. 35							
16. 24	11. 0							
17. 53	9. 0							
	***							
20. 1	14. 0							
	***							
21. 7	10. 5							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 5								
h m	° ′ ″	h m		h m		h m	°	°
21. 40	22. 12. 25							
21. 55	11. 25							
23. 59	15. 0							
Nov. 6		Nov. 6		Nov. 6				
0. 15	22. 16. 45	0. 15	·1013	1. 0	·02116	1. 40	58 ·0	60 ·5
1. 32	17. 30		***	2. 0	·02070	3. 40	60 ·0	62 ·5
1. 59	16. 0	2. 0	·1009	5. 54	·01347	9. 40	57 ·0	61 ·0
2. 11	17. 10		***	10. 4	·01302	22. 40	59 ·5	62 ·5
2. 28	15. 30	3. 6	·1022	12. 30	·01287			
3. 23	16. 0		***	13. 30	·01311			
5. 0	12. 25	6. 10	·1015	14. 48	·01272			
5. 15	13. 20	6. 45	·1024	23. 10	·01285			
6. 27	7. 5	7. 51	·1008					
6. 41	6. 35	18. 30	·1033					
6. 56	8. 45	21. 0	·1012					
7. 19	5. 0	23. 59	·1013					
7. 38	9. 0		***					
7. 59	8. 0							
8. 12	9. 5							
8. 38	3. 30							
9. 20	4. 5							
10. 44	10. 0							
11. 6	8. 20							
13. 12	10. 25							
14. 10	13. 5							
15. 27	9. 25							
	***							
17. 9	9. 5							
18. 38	9. 25							
20. 12	12. 20							
20. 46	11. 0							
21. 59	14. 30							
22. 46	12. 30							
23. 5	13. 45							
23. 45	15. 0							
Nov. 7		Nov. 7		Nov. 7				
0. 0	22. 15. 10	1. 47	·1006	0. 0	·01314	9. 40	61 ·0	64 ·2
0. 59	17. 25		***	1. 47	·01330	21. 40	59 ·6	63 ·2
1. 12	20. 0	2. 30	·1021	6. 21	·01320			
	***	8. 3	·1028	7. 0	·01331			
2. 26	16. 0	8. 33	·1019	8. 29	·01325			
4. 25	12. 25	18. 11	·1029	9. 0	·01344			
8. 16	11. 5	23. 59	·1007	13. 47	·01311			
8. 40	3. 5			20. 0	·01431			
9. 8	8. 5			22. 12	{ ·01527			
9. 49	7. 35				{ ·01453			
10. 19	9. 55			23. 0	·01450			
11. 20	8. 10							
12. 18	9. 25							
12. 41	8. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 7								
h m	° ′ ″	h m		h m		h m	°	°
13. 9	22. 9. 0							
13. 33	12. 50							
13. 47	11. 35							
18. 49	11. 0							
22. 0	9. 0							
23. 59	14. 0							
Nov. 8		Nov. 8		Nov. 8				
0. 13	22. 14. 0	0. 15	·1009	1. 0	·01379	1. 40	62 ·0	66 ·4
1. 50	16. 25	4. 44	·1025	1. 32	·01350	3. 40	64 ·0	67 ·5
5. 30	11. 30	7. 38	·1019	4. 0	·01440	9. 40	64 ·0	67 ·5
7. 20	11. 30	8. 5	·1026	5. 0	·01422	21. 40	62 ·2	65 ·8
7. 50:	6. 25	11. 15	·1026	11. 30	·01412			
8. 25	11. 0	11. 44	·1035	14. 30	·01380			
11. 36	11. 25	14. 6	·1024	18. 30	·01415			
12. 10:	9. 0	20. 45	·1027	21. 42	{ ·01398			
13. 11	11. 45	23. 59	·1014		{ ·01500			
13. 28	10. 10			23. 30	·01480			
14. 9	11. 40							
15. 8	10. 10							
16. 36	11. 30							
16. 50	10. 35							
20. 9	9. 50							
20. 29	8. 20							
21. 58	9. 0							
23. 48	13. 0							
Nov. 9		Nov. 9		Nov. 9				
0. 0	22. 13. 30	0. 15	·1013	1. 0	·01480	1. 40	62 ·8	66 ·0
1. 30	16. 35	3. 27	·1025	4. 30	·01380	3. 40	63 ·0	67 ·0
5. 0	11. 55	7. 3	·1025	5. 51	·01422	9. 40	63 ·0	66 ·0
6. 30	12. 45	18. 45:	·1051	10. 30:	·01410	21. 40	59 ·0	62 ·0
8. 40	11. 5	23. 55	·1020	23. 17	·02182			
16. 3	11. 30				(†)			
16. 31	12. 25							
17. 7	10. 35							
17. 27	11. 10							
18. 11	9. 5							
19. 53	12. 0							
20. 7	11. 0							
21. 38	10. 25							
23. 0	14. 0							
23. 42	15. 0							
Nov. 10		Nov. 10		Nov. 10				
0. 0	22. 14. 5	2. 12	·1030	4. 45	·02172	4. 20	59 ·5	63 ·0
0. 25	13. 25		***	12. 0:	·01960	7. 16	60 ·0	64 ·0
0. 50	16. 0	3. 9	·1014	16. 33	·02161	21. 40	53 ·0	56 ·0
1. 7	15. 0		***	16. 38	·02146			
1. 48	19. 0	4. 45	·1018	23. 2	·02081			
2. 32	17. 0	6. 46	·1037					
2. 48	18. 20	8. 43	·1027					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 10	° ′ ″	Nov. 10						
h m		h m		h m		h m	°	°
3. 12	22. 16. 10	10. 28	·1038					
4. 36	15. 30	15. 16	·1031					
7. 56	10. 10	16. 5	·1043					
	***	19. 13	·1048					
12. 0	10. 50	19. 38:	·1059					
	***	21. 46	·1032					
15. 1	9. 15	23. 30	·1034					
15. 39	11. 50							
16. 37	5. 40							
	***							
22. 39	11. 40							
23. 4	9. 40							
23. 34	17. 30							
	***							
23. 54	15. 0							
Nov. 11		Nov. 11		Nov. 11				
0. 0	22. 15. 30	0. 46	·1028	1. 0	·02115	1. 40	56 ·0	59 ·5
0. 34	12. 40		***	6. 22	·01794	3. 40	57 ·5	60 ·0
0. 44	17. 0	2. 56	·1028	7. 12	·01839	9. 40	58 ·0	61 ·4
0. 52	15. 0		***	7. 20	·01820	21. 40	57 ·0	59 ·5
1. 20	17. 50	4. 48	·1051	7. 40	·01881			
1. 30	16. 0		***	7. 46	·01854			
4. 10	13. 30	5. 28	·1044	8. 0	·01931			
5. 43	16. 30	5. 37	·1059	8. 2	·01892			
6. 30:	22. 20		***	8. 6	·02027			
	***	6. 55	·1003	8. 8	·01980			
7. 11	19. 5	7. 8	·1012	8. 18	·02199			
	***	7. 20	·1006		(†)			
7. 35	8. 0	7. 32	·1028	8. 43	·02200			
	***	7. 44:	·1019	9. 22	·01790			
7. 43	9. 0	7. 58	·1037	10. 7	·01541			
8. 10	22. 46. 10	8. 1	·1022	10. 36	·01627			
8. 56	21. 37. 10	8. 5	·1050	10. 53	·01610			
	***	8. 21	·0980	11. 5	·01644			
9. 30:	54. 0	8. 25	·1031	11. 33	·01597			
9. 50	33. 20	8. 30	·1018	12. 0	·01612			
10. 5	53. 10	8. 31	·1033	13. 44	·01457			
10. 20	21. 45. 50	8. 38	·1000	14. 48	·01451			
10. 50	22. 10. 30	8. 43	·1045	15. 20	·01380			
11. 3	5. 0	8. 50	·1010		***			
11. 15:	5. 40	9. 34	·0979	21. 0	·01395			
11. 45:	0. 30	9. 51	·1027		***			
	***	10. 7	·0987	23. 57	·01542			
11. 54	10. 0	10. 32	·1024					
13. 27	0. 50	10. 57	·0999					
14. 30	9. 30	11. 13	·1017					
14. 55	24. 10	11. 30	·1003					
15. 17	15. 5	11. 58	·1010					
	***	12. 18	·1005					
16. 45	8. 0	12. 54:	·1020					
17. 37	13. 30		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 11	° ′ ″	Nov. 11						
h m		h m		h m		h m	°	°
19. 10	22. 14. 0	14. 42	·1001					
19. 37	18. 20	15. 18	·1022					
19. 46	16. 5		***					
	***	16. 11	·1018					
20. 37	25. 40	16. 14	·1030					
20. 55	25. 40	16. 20	·1019					
	***		***					
22. 30	15. 5	17. 31	·1041					
22. 35	19. 20	18. 14	·1025					
22. 40	15. 35	19. 30	·1028					
	***		***					
23. 8	12. 55	20. 18	·0990					
23. 36	20. 0	21. 20	·1022					
23. 46	15. 35	23. 4	·0999					
23. 53	20. 25	23. 59	·1010					
	***							
Nov. 12		Nov. 12		Nov. 12				
0. 30	22. 17. 35	0. 15	·0994	1. 0	·01490	1. 40	59 ·2	62 ·4
0. 48	19. 30	2. 13	·1020	1. 53	·01353	3. 40	59 ·6	62 ·5
	***	2. 38	·1008	2. 46	·01340	9. 40	56 ·5	59 ·5
1. 30	17. 0	2. 49	·1017	3. 58	·01391	21. 40	54 ·0	58 ·0
	***	3. 27	·0991	6. 16	·01344			
2. 35	22. 30	4. 47	·1025	6. 50	·01371			
2. 47	20. 0	5. 2	·1002	7. 37:	·01355			
2. 56	22. 30		***	17. 43	·02087			
	***	6. 0	·1023	19. 0	·02036			
3. 17	20. 0	6. 20	·1000	22. 24	·02050			
	***		***		***			
3. 48	6. 10	7. 5	·1031	23. 30	·02090			
	***	7. 50	·1013					
4. 18	7. 0	8. 20	·1035					
	***	8. 45	·1005					
4. 43	14. 0	9. 34	·1000					
4. 48	10. 55	9. 59	·1021					
4. 57	15. 55	10. 8	·1005					
5. 8	12. 0	10. 58	·1028					
	***	11. 16	·1019					
6. 15	11. 0	11. 56	·1034					
	***	12. 30	·1022					
6. 43	3. 30		***					
7. 21	10. 0	20. 33	·1037					
8. 9	0. 0	22. 16	·0984					
8. 41	7. 25	23. 0	·0989					
9. 0	1. 15	23. 55	·1003					
9. 36	1. 50							
10. 11	12. 40							
10. 38	3. 30							
11. 49	7. 20							
12. 0	3. 20							
	***							
13. 47	16. 50							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 12								
h m	° ′ ″	h m		h m		h m	°	°
14. 30	22. 12. 30							
16. 40	11. 30							
17. 30	15. 35							
17. 58	23. 30							
19. 4	11. 35 ***							
20. 54	14. 0							
21. 21	10. 20							
22. 24	14. 0							
22. 35	18. 0							
22. 41	15. 50							
22. 55	17. 0							
23 12	13. 30							
23. 28	19. 0 ***							
Nov. 13		Nov. 13		Nov. 13				
0. 18	22. 13. 30 ***	0. 44	·1018 ***	2. 1	·01067	1. 40	54 ·0	57 ·5
				3. 0	·01005 ***	3. 40	55 ·0	58 ·2
0. 45	20. 30 ***	1. 55	·1004 ***			9. 40	56 ·0	59 ·5
				4. 9	·01075 ***	22. 40	54 ·0	58 ·0
1. 17	22. 0	2. 35	·1016					
1. 45	17. 0 ***	3. 8	·1000	4. 41	·01051 ***			
		3. 29	·1021 ***					
2. 57	23. 0			5. 15	·01093			
3. 24	12. 0 ***	4. 2	·1016	8. 11	·01016 ***			
		4. 47	·0982					
4. 6	9. 0	5. 28	·1028 ***	8. 46	·00940			
4. 15	18. 30			9. 51	·00967			
4. 27	13. 40	8. 33	·1003 ***	12. 58	·00940 ***			
4. 36	22. 17. 30							
5. 9	21. 54. 0	8. 55	·1014 ***	14. 9	·00930			
5. 45	22. 12. 0			14. 30	·00865			
6. 28	10. 0	9. 13	·0998	14. 40	·00880 ***			
6. 50	5. 0	10. 0	·1026					
7. 3	4. 30	12. 13	·1038 ***	15. 0	·00845 ***			
7. 25	9. 0							
7. 40	22. 8. 30	12. 59	·1025	20. 54	·01120			
7. 55	21. 53. 5	13. 7	·1051	21. 15	·01180 ***			
8. 15	21. 47. 30	13. 12	·1026					
8. 38	22. 8. 40 ***	13. 17	·1047 ***	23. 17	·01230			
8. 59	21. 58. 0 ***	13. 35	·1021 ***					
10. 26	22. 11. 0	14. 7	·1041 ***					
12. 8	0. 30							
12. 40:	8. 40	15. 46	·1011 ***					
13. 3	9. 30							
13. 7	13. 0 ***	16. 3	·1025					
		17. 1	·1040					
13. 54	3. 0	17. 58	·1016 ***					
14. 15	11. 0 ***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 13		Nov. 13						
h m	° ′ ″	h m		h m		h m	°	°
14. 32	22. 5. 10 ***	19. 48	·1006 ***					
14. 57	9. 50	20. 24	·1067					
15. 3	7. 50	20. 58	·1005					
15. 36	22. 5 ***	21. 8	·1021					
		21. 32	·1014					
16. 2	26. 0	23. 59	·1018 ***					
16. 45	15. 50							
17. 30	15. 10 ***							
19. 24	29. 50							
19. 47	29. 40							
20. 12	24. 30							
20. 27	29. 50							
20. 58	18. 30							
21. 6	13. 30							
21. 16	25. 0							
21. 56	14. 25 ***							
22. 45	14. 0							
22. 55	17. 0							
22. 57	14. 0 ***							
23. 59	15. 0							
Nov. 14		Nov. 14		Nov. 14				
0. 30	22. 16. 0 ***	1. 35	·1015 ***	1. 0	·01290	12. 0	55 ·0	59 ·0
				5. 0	·01281	21. 40	55 ·8	58 ·5
3. 42	11. 30	2. 35	·1027	12. 6	·01030			
7. 14	11. 20	2. 42	·1019	12. 30	·01040			
7. 31	8. 50	2. 57	·1033	13. 8	·00993			
7. 58	10. 30		***	23. 0	·00940			
8. 11	5. 30	3. 28	·1020 ***					
8. 28	10. 0							
8. 47:	5. 30	19. 28	·1037 ***					
9. 17:	9. 35							
9. 43:	7. 50 ***	23. 32	·1017					
11. 34	10. 25							
12. 14:	6. 0							
12. 39	17. 35							
13. 14	9. 20							
14. 32	10. 50							
22. 30	9. 30 ***							
23. 59	13. 30							
Nov. 15		Nov. 15		Nov. 15				
1. 30	22. 15. 50	0. 23	·1017	1. 30	·01060	1. 40	58 ·0	62 ·0
5. 11	12. 0	1. 15	·1025	3. 13	·01110	3. 40	60 ·0	63 ·0
5. 31	7. 10	5. 7	·1027	4. 40	·01100	9. 40	60 ·5	63 ·7
6. 7	12. 35 ***	5. 25	·1012	5. 44	·01139	21. 40	58 ·0	60 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 15		Nov. 15		Nov. 15		h m	o	o
h m	o ′ ″	h m		h m				
10. 20	22. 11. 55	5. 37	·1020	13. 0:	·01051			
10. 49	22. 9. 0		***	22. 0	·01480			
11. 25	21. 58. 40	8. 30	·1035	23. 45	·01462			
11. 56	22. 12. 30		***					
13. 7	7. 40	10. 50	·1022					
15. 12	12. 30	11. 21	·1043					
22. 13	11. 30		***					
23. 59	14. 0	11. 53	·1025					
			***					
		19. 33	·1038					
		23. 59	·1030					
Nov. 16		Nov. 16		Nov. 16				
0. 43	22. 14. 50	1. 0	·1020	1. 30	·01413	1. 40	59 ·0	63 ·0
4. 28	11. 20		***	6. 44	·01096	3. 40	60 ·0	63 ·0
5. 0:	13. 30	6. 28	·1022	9. 42	·01050	9. 40	59 ·0	63 ·5
5. 30	11. 30	6. 52	·1000	10. 46	·01069	21. 40	56 ·5	58 ·5
6. 29	13. 0	7. 22	·1020	11. 3:	·01040			
7. 10	4. 10	7. 50	·1005	21. 0	·01530			
7. 45	12. 10	8. 33	·1008	23. 51	·01540			
8. 17	22. 10. 0	8. 45	·1023					
8. 40	21. 59. 30	9. 23	·1021					
9. 20	22. 7. 0	9. 36	·1031					
9. 35	21. 58. 0	10. 13	·1014					
10. 18	22. 8. 20	10. 50	·1028					
10. 37	8. 0	11. 7	·1013					
10. 55	13. 30	11. 45	·1038					
11. 36	3. 10		***					
	***	18. 32	·1031					
13. 50	14. 30		***					
14. 16	12. 30	21. 20	·1021					
14. 45	17. 0		***					
	***	22. 49	·1005					
17. 23	10. 20		***					
18. 27	12. 40	23. 38	·1018					
	***							
21. 22	10. 35							
	***							
22. 38	14. 35							
	***							
23. 10	12. 30							
23. 37	17. 50							
Nov. 17		Nov. 17		Nov. 17				
0. 20	22. 15. 30	1. 3	·1016	1. 0	·01540	1. 40	57 ·0	58 ·0
0. 43	18. 0	2. 57	·1021	3. 30	·01434	3. 40	57 ·8	58 ·3
	***	3. 45	·1009	4. 40	·01405	9. 40	56 ·5	58 ·3
1. 28	15. 35	4. 14	·1016	6. 21	·01250	20. 2	54 ·0	57 ·0
1. 42	18. 0		***	6. 32	·01261			
	***	4. 56	·1006	7. 50	{·01180			
4. 52	9. 30		***		{·01560			
5. 15	11. 50	6. 7	·1020	11. 0	·01577			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 17		Nov. 17		Nov. 17		h m	o	o
h m	o ′ ″	h m		h m				
5. 44	22. 9. 20	6. 21	·0998	12. 30	·01510			
6. 7	22. 10. 55	6. 42	·1038	20. 22	·01445			
6. 29	21. 55. 0		***					
	***	7. 10	·1024					
7. 30	22. 12. 0	10. 42	·1031					
9. 35	11. 10	11. 3	·1057					
10. 6	8. 0	11. 45	·1030					
10. 33	10. 0	20. 59	·1039					
10. 51	4. 20	23. 59	·1015					
11. 26	10. 57							
16. 2	13. 0							
18. 10	12. 0							
20. 3	15. 30							
22. 15:	13. 55							
23. 40	18. 0							
23. 52	20. 30							
Nov. 18		Nov. 18		Nov. 18				
0. 1	22. 19. 25	0. 30	·1015	0. 0	·01450	8. 3	54 ·0	58 ·0
	***		***	3. 0	·01419	21. 40	47 ·0	50 ·0
3. 10	20. 0	5. 27	·1012	8. 0:	·01202			
3. 40	16. 35	5. 48	·1038	13. 2	·01412			
4. 16	15. 20	6. 10	·1024	19. 0	·01349			
5. 2	22. 15. 0	6. 57	·1017	23. 30	·01355			
5. 35	21. 58. 0		***					
6. 48	22. 15. 20	10. 27	·1037					
	***	20. 57	·1047					
8. 45	7. 10	22. 7	·1031					
9. 25:	10. 20	23. 59	·1035					
10. 0	6. 4							
10. 30	10. 0							
	***							
23. 50	13. 30							
Nov. 19		Nov. 19		Nov. 19				
0. 45	22. 14. 30	1. 0	·1034	1. 0	·01348	1. 40	49 ·0	52 ·0
	***	10. 50	·1033	4. 41	·00930	3. 40	51 ·5	55 ·5
5. 19	10. 20	11. 32	·1058	5. 30	·00951	9. 42	55 ·0	58 ·0
5. 58	12. 0	12. 40	·1036	11. 13	·00942	21. 40	53 ·5	57 ·0
7. 57	8. 55	20. 0	·1048	12. 30	·00920			
8. 13	11. 0	23. 59	·1029	16. 0	·00887			
	***			18. 0	·00951			
11. 50	8. 30			21. 50	·01051			
17. 30	12. 0			23. 30	·01077			
17. 48	14. 20							
18. 33	13. 0							
19. 0	14. 20							
22. 8	10. 0							
23. 59	13. 30							
Nov. 20		Nov. 20		Nov. 20				
1. 10	22. 15. 0	1. 50	·1031	1. 0	·01045	1. 40	54 ·0	57 ·5

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.20		Nov.20		Nov.20				
h m	° ′ ″	h m		h m		h m	°	°
11. 0	22. 10. 15	2. 4	·1024	2. 15	·00954	3. 40	57 ·0	60 ·5
21. 43	9. 57	4. 45	·1035	7. 10	·01010	9. 40	57 ·5	61 ·2
23. 59	14. 30	20. 25	·1042	7. 17	·01202	23. 48	56 ·0	58 ·0
		23. 59	·1031	11. 0	·01166			
				13. 0:	·01178			
				21. 0	·01390			
				23. 30	·01399			
Nov.21		Nov.21		Nov.21				
0. 30	22. 15. 20	1. 0	·1033	1. 0	·01370	10. 15	58 ·5	62 ·5
5. 53	10. 30	10. 57	·1041	7. 9	·01007	21. 40	55 ·0	59 ·2
12. 20	11. 0	11. 54	·1034	11. 44	·01020			
12. 50	12. 50	19. 41	·1047	12. 0	·01300			
13. 59	11. 10	23. 59	·1034	14. 0:	·01281			
21. 0	11. 10			22. 5	·01551			
23. 59	13. 50			23. 15	·01539			
Nov.22		Nov.22		Nov.22				
1. 0	22. 15. 0	0. 30	·1033	1. 0	·01552	1. 40	56 ·0	59 ·2
4. 0	12. 10	7. 44	·1051	2. 23	·01539	3. 40	56 ·5	58 ·5
8. 30	12. 0	9. 3	·1030	8. 2	·01140	9. 40	54 ·0	59 ·0
8. 55	9. 20	11. 13	·1046	8. 15	·01280	21. 40	49 ·5	54 ·0
12. 26	10. 55	13. 14	·1040	9. 22	·01285			
13. 20	5. 30	13. 30	·1051	11. 30:	·01317			
13. 40	9. 0	13. 52	·1040	16. 17	·01524			
14. 0	7. 50 ***	19. 50	·1059	21. 0	·01470			
		23. 20	·1045	23. 30	·01396			
14. 54	12. 30 ***							
17. 30	10. 30							
18. 8:	13. 0							
19. 0	9. 20							
20. 54	11. 0							
21. 55	10. 0 ***							
23. 59	15. 0							
Nov.23		Nov.23		Nov.23				
0. 5	22. 15. 20	0. 8	·1047	1. 0	·01414	1. 40	49 ·6	54 ·0
3. 7	13. 30	3. 29	·1051	3. 0	·01430	3. 40	54 ·5	59 ·3
4. 17	14. 58	4. 40	·1037	9. 30	·00990	9. 40	53 ·0	58 ·0
4. 33	16. 20	7. 30	·1051	11. 30	·00970	21. 40	49 ·0	52 ·0
5. 25	13. 0 ***	12. 20	·1054	14. 0	·00970			
		12. 58	·1043	20. 21	·01045			
8. 57	12. 0 ***	13. 27	·1064	21. 51	·01030			
		14. 22	·1041 ***	23. 30	·01052			
10. 0	9. 0 ***							
		16. 35	·1047					
13. 0	10. 20	17. 11	·1059 ***					
12. 15	5. 30							
13. 47	2. 30	21. 45	·1052					
14. 15	7. 30 ***	23. 46	·1042					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.23								
h m	° ′ ″	h m		h m		h m	°	°
15. 13	22. 10. 30							
16. 41	9. 40							
17. 0	12. 30							
17. 45	9. 55							
23. 59	12. 30							
Nov.24		Nov.24		Nov.24				
1. 0	22. 14. 50	0. 45	·1040	1. 0	·01027	1. 40	54 ·0	56 ·0
1. 27	15. 20 ***	2. 15	·1035	2. 12	·00930	3. 40	55 ·0	57 ·5
		2. 37	·1040	4. 30	·00953	9. 40	55 ·5	58 ·0
2. 17	12. 30 ***	9. 30	·1030	11. 2 {	·00981	21. 40	48 ·0	51 ·0
		10. 37	·1046		·01220			
2. 45	14. 20	18. 48	·1059	16. 1	·01480			
3. 45	19. 50 ***	22. 17	·1049	23. 30	·01370			
		22. 50	·1038					
7. 45	12. 20	23. 59	·1041					
8. 6	15. 0							
8. 36	10. 0							
9. 12	11. 35 ***							
10. 15:	3. 15							
11. 42	11. 5							
12. 38	10. 0							
18. 30	11. 0							
21. 30	9. 50							
23. 30	12. 0							
Nov.25		Nov.25		Nov.25				
0. 0	22. 12. 30	0. 30	·1034 ***	1. 0	·01414	1. 40	49 ·0	54 ·5
1. 5	16. 0			2. 0	·01340	3. 40	57 ·0	61 ·0
5. 36	10. 0	5. 32	·1044 ***	4. 23	·00950	9. 40	55 ·0	57 ·5
7. 3	22. 12. 40			5. 0	·00981	21. 40	53 ·5	57 ·5
7. 54	21. 55. 0 ***	6. 0	·1054	9. 51	·00921			
		7. 29	·1033	14. 0:	·00940			
8. 55	22. 11. 50	8. 0	·1050 ***	19. 8	·01273			
9. 33	7. 10			21. 45	·01230			
9. 48	9. 10	9. 13	·1022	23. 30	·01142			
10. 10	7. 10 ***	11. 17	·1039					
		12. 58	·1033					
12. 45	10. 0 ***	13. 35	·1078					
		14. 32	·1031					
13. 25	2. 0	18. 49	·1055					
13. 53	8. 0	22. 0	·1050					
14. 10	4. 0	23. 26	·1038					
14. 48	8. 0 ***							
15. 35	7. 30 ***							
16. 24	13. 0 ***							
17. 46	9. 0 ***							

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.25								
h m	° ′ ″	h m		h m		h m	°	°
22. 12	22. 9. 25							
23. 42	12. 15							
Nov.26		Nov.26		Nov.26				
0. 0	22. 12. 15	0. 0	·1042	1. 0	·01050	1. 40	57 ·0	59 ·0
5. 8	13. 10	2. 8	·1036	1. 45	·00990	3. 40	58 ·5	60 ·5
5. 30	16. 0		***	2. 7	·01120	9. 40	59 ·0	63 ·0
6. 27	16. 0	5. 13	·1047	3. 42	·01020	21. 40	53 ·5	56 ·0
6. 55	11. 30	5. 58	·1015		·01238			
7. 55	17. 10		***	5. 41	·01110			
8. 8	14. 0	7. 17	·1039	8. 0	·01090			
8. 22	19. 10		***	8. 7	·01121			
8. 40	2. 15	8. 7	·1019	8. 23	·01080			
	***	8. 10	·1041	11. 11	·01096			
9. 15	7. 30	8. 34	·1006	13. 6:	·01000			
9. 32	3. 0	8. 48	·1025	20. 45	·01510			
	***	8. 58	·1019		***			
10. 14	7. 15	9. 42	·1020	23. 30	·01470			
	***		***					
11. 15	2. 15	10. 43	·1014					
11. 30	10. 30	11. 23	·1045					
11. 45	4. 0	11. 39	·1023					
11. 54	6. 0	12. 12	·1055					
12. 4	5. 0	13. 3	·1028					
12. 33	10. 30		***					
	***	15. 52	·1036					
13. 33	5. 0	16. 22	·1026					
14. 46	15. 0	17. 29	·1043					
15. 33	11. 15		***					
16. 34	16. 20	21. 17	·1033					
	***	21. 29	·1045					
18. 4	11. 0	21. 32	·1029					
19. 24	9. 15		***					
	***	21. 45	·1040					
20. 37	14. 30		***					
20. 42	11. 20	23. 41	·1033					
	***							
21. 24	10. 0							
	***							
21. 30	15. 0							
21. 34	10. 0							
	***							
23. 30	13. 0							
Nov.27		Nov.27		Nov.27				
0. 0	22. 13. 50	0. 30	·1033	1. 0	·01478	1. 40	54 ·0	57 ·5
	***		***	2. 6	·01478	3. 40	57 ·0	60 ·0
0. 55	15. 10	3. 33	·1017	5. 51	·01026	9. 40	55 ·0	57 ·0
	***	4. 17	·1033		·01284	22. 0	49 ·0	53 ·0
1. 16	18. 30		***	6. 32	·01243			
1. 36	16. 30	7. 31	·1030	7. 29:	·01243			
	***	7. 51	·1058	12. 8	·01531			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.27		Nov.27		Nov.27				
h m	° ′ ″	h m		h m		h m	°	°
3. 7	22. 17. 0	9. 15	·1032	13. 0	·01491			
	***	11. 3	·1037	22. 46	·01418			
3. 56	6. 0	11. 12	·1047					
4. 30	12. 50	11. 50	·1041					
7. 12	11. 0	12. 10	·1062					
7. 40	0. 50	13. 13	·1042					
8. 25	9. 50	15. 47	·1047					
	***	17. 23	·1052					
11. 30	8. 20	22. 45	·1046					
12. 0	4. 30							
12. 10	8. 20							
13. 8	8. 30							
13. 20	6. 30							
14. 50	12. 20							
15. 42	10. 0							
16. 15	10. 0							
16. 30	12. 50							
	***							
18. 54	10. 20							
	***							
22. 45	10. 20							
	***							
Nov.28		Nov.28		Nov.28				
2. 30	22. 15. 30	0. 0	·1061	0. 0	·01427	10. 14	51 ·0	54 ·0
	***	7. 43	·1069	3. 0:	·01400	21. 45	46 ·5	52 ·0
4. 48	10. 15	10. 26	·1059	11. 0:	·01015			
	***	10. 57	·1069	18. 47	·01402			
10. 30	10. 30	11. 46	·1073	21. 52	·01370			
11. 36	6. 30	12. 33	·1060		·01174			
12. 10	10. 40	16. 30	·1055	22. 10	·01154			
12. 42	10. 0	16. 41	·1062	23. 50	·01230			
16. 55	12. 15	20. 0	·1057					
22. 12	10. 0	22. 49	·1061					
23. 59	12. 30							
Nov.29		Nov.29		Nov.29				
1. 5	22. 16. 0	0. 10	·1047	1. 0	·01271	1. 40	47 ·5	51 ·5
4. 37	12. 30		***	2. 48	·01260	3. 40	50 ·0	54 ·0
10. 44	12. 0	2. 7	·1039	7. 0	·00790	9. 40	51 ·0	53 ·3
11. 47	10. 30	7. 48	·1049	10. 3	·00752	21. 40	47 ·0	49 ·5
16. 10	13. 0	12. 17	·1047	11. 30:	·00772			
22. 38	12. 0	18. 45	·1060	23. 15	·01325			
		21. 45	·1057					
		22. 10	·1049					
		22. 20	·1054					
		23. 59	·1040					
Nov.30		Nov.30		Nov.30				
0. 0	22. 14. 20	0. 30	·1036	1. 0	·01330	1. 40	49 ·0	51 ·0
1. 10	14. 30	4. 44	·1037	4. 17	·00867	3. 40	52 ·0	54 ·5
9. 15	10. 30	5. 30	·1044	10. 3	·00796	9. 48	53 ·0	55 ·3

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 30		Nov. 30		Nov. 30				
h m	° ′ ″	h m		h m		h m	°	°
10. 12	22. 8. 35	9. 17	·1047	12. 30:	·00844	21. 40	44 ·0	47 ·0
10. 35	10. 0	9. 21	·1057	19. 55	·01291			
11. 5	7. 10	9. 45	·1049	22. 30	·01263			
11. 24	9. 10	10. 24	·1052	23. 52	·01338			
12. 6	6. 0	10. 39	·1040					
12. 30	11. 30		***					
12. 47	9. 30	11. 40	·1039					
14. 48	11. 0	12. 13	·1063					
15. 30:	17. 35	12. 33	·1045					
16. 0	12. 0	14. 53	·1053					
	***		***					
17. 23	12. 0	16. 0	·1077					
18. 45:	21. 30		***					
19. 22	14. 30	18. 24	·1059					
	***	19. 25	·1085					
20. 27	19. 0		***					
	***	23. 0	·1025					
21. 22	14. 55		***					
21. 52	16. 0	23. 57	·1020					
	***							
22. 31	14. 0							
23. 59	18. 0							
Dec. 1		Dec. 1		Dec. 1				
0. 2	22. 19. 0	0. 34	·1020	1. 0	·01393	1. 40	48 ·5	52 ·5
0. 22	20. 35		***	1. 57	·01341	3. 40	51 ·5	53 ·8
0. 46	17. 14	1. 34	·1027	4. 20	·00960	9. 40	54 ·0	56 ·0
	***	2. 8	·1014	11. 0	·00868	21. 40	52 ·0	55 ·0
1. 32	20. 5		***	16. 0	·00880			
	***	3. 16	·1026	21. 41	{ ·00820			
3. 2	15. 25	3. 40	·1019		{ ·00992			
	***	5. 18	·1038	23. 30	·01095			
3. 16	17. 15	8. 3	·1036					
	***	8. 33	·1029					
5. 25	10. 25	12. 0	·1043					
8. 13	10. 0	12. 55	·1038					
8. 36	7. 45	13. 36	·1045					
8. 57	11. 0	18. 22	·1044					
9. 10	9. 23	19. 11	·1055					
9. 48	10. 20	21. 53	·1040					
10. 22	8. 25	22. 28	·1028					
	***	23. 28	·1027					
23. 37	14. 55							
	***							
Dec. 2		Dec. 2		Dec. 2				
0. 0	22. 13. 30	0. 22	·1025	1. 0	·01112	1. 40	54 ·0	57 ·0
	***		***	2. 30	·01020	3. 40	56 ·0	57 ·5
0. 30	18. 0	1. 40	·1017	3. 29	{ ·01040	9. 40	55 ·0	57 ·5
	***	2. 58	·1034		{ ·01189	21. 40	49 ·0	53 ·0
1. 22	19. 40	3. 15	·1025	3. 51	·01154			
	***	3. 36	·1034	4. 30	·01260			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 2		Dec. 2		Dec. 2				
h m	° ′ ″	h m		h m		h m	°	°
2. 6	22. 14. 0	4. 4	·0988	11. 0:	·01320			
	***		***	16. 30	·01505			
3. 39	20. 18	5. 0	·1029	22. 1	·01428			
4. 10	7. 0		***	23. 30	·01465			
4. 14	8. 25	6. 28	·1016					
4. 29	4. 25	7. 3	·1032					
5. 5	14. 30	9. 25	·1040					
5. 30	12. 0	11. 0	·1030					
6. 25	18. 30	14. 34	·1046					
6. 43	14. 0	17. 56	·1049					
	***	18. 24	·1056					
9. 3	10. 10	19. 26	·1042					
9. 30	11. 30	19. 42	·1050					
	***	20. 6	·1040					
11. 3	8. 30	20. 16	·1044					
	***	21. 37	·1034					
12. 43	11. 55	23. 0	·1030					
13. 51	10. 20	23. 59	·1014					
17. 30	11. 5							
18. 15	18. 30							
18. 43	16. 35							
19. 44	26. 55							
	***							
22. 10	15. 8							
	***							
22. 38	16. 30							
	***							
Dec. 3		Dec. 3		Dec. 3				
0. 18	22. 21. 0	0. 56	·1002	1. 30	·01470	1. 40	51 ·0	55 ·5
	***	1. 30	·0999	4. 11	·01014	3. 40	55 ·0	57 ·5
1. 5	18. 25		***	5. 40	{ ·01015	9. 40	55 ·3	57 ·5
	***	3. 10	·1029		{ ·01165	21. 40	53 ·6	56 ·5
2. 3	17. 40	5. 45	·1040	6 40	·01111			
	***	9. 24	·1042	11. 2	·01160			
3. 34	10. 45	10. 18	·1031	11. 17	·01122			
	***	10. 40	·1046	12. 57:	·01150			
9. 52	11. 55	10. 58	·1030	21. 51	·01359			
10. 18	22. 9. 40	11. 8:	·1046	23. 28	·01358			
10. 38	21. 59. 30	11. 20	·1038					
10. 53	22. 1. 0	11. 30	·1065					
11. 8	22. 11. 8	11. 52	·1045					
11. 25	21. 55. 40	12. 28	·1030					
12. 24	22. 9. 0		***					
16. 12	14. 40	13. 28	·1038					
17. 11	9. 30	15. 42	·1040					
23. 59	11. 20	17. 0	·1050					
		22. 12	·1046					
		23. 38	·1038					
Dec. 4		Dec. 4		Dec. 4				
0. 30	22. 11. 30	0. 30	·1034	1. 0	·01318	1. 40	56 ·5	59 ·5
	***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 4		Dec. 4		Dec. 4				
h m	° ′ ″	h m		h m		h m	°	°
7. 39	22. 14. 20	4. 29	·1032	3. 42	·01045	3. 40	58 ·5	60 ·5
8. 0	9. 0	5. 33	·1038		·01271	9. 40	59 ·0	62 ·0
8. 8	11. 40	6. 20:	·1017	6. 0	·01075	23. 50	57 ·0	58 ·0
8. 10	8. 30	7. 10	·1022	7. 58	·01075			
8. 11	13. 5	7. 36	·1010	8. 20	·01026			
8. 17	8. 8		***	10. 9	·01060			
8. 20	10. 30	8. 10	·1042	12. 0	·01049			
8. 33	2. 0		***	16. 0	·01091			
8. 43	8. 20	8. 27	·1024	20. 0	·01240			
8. 53	3. 55	8. 32	·1037	23. 7	·01263			
9. 2:	7. 45		***					
9. 23	5. 0	9. 3	·1001					
9. 30	8. 0	9. 26:	·1019					
16. 23	12. 10	9. 38	·1014					
17. 30	13. 0	10. 28	·1027					
18. 22	9. 45	11. 38	·1033					
22. 20	9. 55	16. 27	·1034					
23. 23	12. 5	18. 15	·1044					
	***	22. 15	·1032					
		23. 24	·1030					
Dec. 5		Dec. 5		Dec. 5				
0. 0	22. 12. 35	0. 0	·1030	1. 0	·01280	4. 40	58 ·0	59 ·5
	***		***	5. 0	·01200	9. 50	58 ·5	60 ·0
1. 55	15. 0	2. 30	·1035	7. 57	·01026	21. 40	58 ·0	59 ·5
	***	4. 15:	·1032	11. 0	·01023			
5. 52	8. 0	4. 34:	·1034	14. 0	·01000			
6. 18	10. 10	4. 58:	·1030	16. 0	·01040			
6. 42	9. 0	5. 19:	·1036	19. 0	·01115			
7. 7	11. 0	5. 44:	·1032	22. 0	·01075			
	***	6. 6:	·1039	23. 15	·01115			
9. 38	10. 30	6. 36:	·1038					
	***	7. 0	·1043					
10. 15	8. 30	9. 22	·1042					
	***	9. 32:	·1060					
12. 0	10. 20	9. 45:	·1049					
12. 15	8. 20		***					
	***	12. 13	·1051					
13. 45	9. 0	12. 24	·1043					
	***		***					
15. 8	4. 0	14. 18	·1040					
	***	14. 55	·1049					
18. 13	11. 20		***					
23. 30	13. 0	15. 55	·1034					
			***					
		19. 42	·1047					
		20. 8	·1052					
		22. 25	·1043					
		23. 30	·1038					
Dec. 6		Dec. 6		Dec. 6				
0. 0	22. 13. 0	0. 0	·1039	1. 0	·01150	1. 40	59 ·0	61 ·0
					***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 6		Dec. 6		Dec. 6				
h m	° ′ ″	h m		h m		h m	°	°
0. 29	22. 13. 0	0. 18	·1031	2. 25	·01081	3. 40	58 ·8	62 ·5
0. 32	9. 30	0. 38	·1055		***	9. 40	57 ·5	62 ·5
0. 35	15. 55		***	3. 30	·01000	21. 40	53 ·0	57 ·2
1. 0	16. 20	1. 24	·1039		***			
1. 24	13. 35	1. 36	·1055		·01058			
1. 32	16. 35	1. 50	·1041	5. 9	·01289			
1. 47	15. 10	2. 12	·1059	7. 0:	·01222			
	***	2. 53	·1045	15. 21	·01604			
2. 15	21. 40	3. 5	·1057	21. 48	·01563			
2. 48	14. 5	3. 27	·1044	23. 14	·01570			
3. 12	19. 5	3. 34	·1054					
3. 18	17. 0	3. 42	·1044					
4. 10	14. 20	3. 55	·1052					
	***	4. 3	·1036					
5. 47	18. 30	4. 24	·1050					
	***		***					
6. 8	16. 0	4. 32	·1028					
	***		***					
9. 55	22. 11. 30	4. 58	·1055					
10. 23	21. 59. 10		***					
11. 0	22. 7. 55	5. 12	·1044					
12. 0	11. 8	5. 30	·1057					
16. 30	12. 30	5. 34	·1048					
21. 55	11. 20	5. 42	·1058					
23. 35	13. 0		***					
		5. 58	·1040					
			***					
		6. 55	·1050					
		7. 4	·1040					
		7. 15	·1044					
			***					
		7. 58	·1040					
		8. 2	·1052					
		8. 30	·1037					
		9. 56	·1036					
		10. 40	·1036					
		11. 10	·1029					
		16. 40	·1048					
		21. 55	·1047					
Dec. 7		Dec. 7		Dec. 7				
0. 10	22. 14. 30	0. 7	·1037	1. 0	·01568	1. 40	55 ·2	58 ·0
	***	1. 17	·1028	9. 48	·01005	3. 40	56 ·5	58 ·5
1. 19	13. 20	3. 29	·1036	11. 30:	·01001	9. 45	56 ·0	59 ·0
	***	4. 55	·1026	23. 30	·01500	21. 40	54 ·0	57 ·5
2. 45	15. 50		***					
	***	5. 40	·1035					
4. 55	11. 40	6. 30	·1029					
	***	6. 44	·1040					
5. 50	15. 20		***					
	***	8. 15	·1024					
6. 34	12. 20		***					
	***							

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 7		Dec. 7						
h m	° ′ ″	h m		h m		h m	°	°
7. 0	22. 16. 25	10. 37	·1038					
	***	11. 2	·1048					
8. 36	11. 0	11. 14	·1041					
	***	12. 3	·1040					
14. 41	14. 0	12. 27	·1038					
15. 15	11. 0	12. 54	·1044					
	***	13. 22	·1040					
23. 50	14. 0	19. 18	·1046					
		21. 0	·1043					
		21. 29	·1049					
		23. 0	·1042					
		23. 30	·1045					
Dec. 8		Dec. 8		Dec. 8				
1. 0	22. 14. 35	0. 0	·1042	1. 0	·01526	1. 40	55 ·5	57 ·5
1. 23	17. 5	2. 34	·1030	3. 0:	·01420	3. 40	57 ·0	58 ·5
3. 40	12. 45		***	7. 24:	·00964	9. 40	56 ·5	57 ·5
	***	7. 16	·1036	9. 59	·01110	21. 40	50 ·0	54 ·0
5. 45	12. 30	7. 26	·1041	10. 16:	·01096			
7. 0	18. 55		***	14. 43	·01502			
8. 5	13. 0	8. 45	·1032	21. 52	·01439			
8. 15	16. 0	9. 3	·1017	23. 14	·01435			
8. 25	15. 0		***					
8. 35	17. 40	9. 55	·1026					
8. 45	14. 50	10. 8	·1060					
10. 0	22. 7. 30	10. 26	·1020					
10. 10	21. 59. 5	10 45	·1033					
10. 22	22. 8. 10	11. 0	·1033					
10. 28	5. 10		***					
	***	17. 42	·1044					
11. 10	5. 12	18. 23	·1050					
12. 45	12. 0		***					
13. 10:	9. 5	22. 0	·1049					
14. 3	17. 0	22. 50	·1040					
14. 20	14. 20	23. 30:	·1018					
	***							
21. 0	11. 0							
	***							
23. 59	16. 5							
Dec. 9		Dec. 9		Dec. 9				
0. 15	22. 17. 0	0. 0	·1022	1. 30	·01452	1. 40	53 ·0	56 ·0
3. 15	16. 35	0. 40	·1026	5. 0	·00960	3. 40	57 ·0	59 ·8
5. 0	12. 15	1. 23	·1022	9. 40	·00912	9. 40	55 ·0	57 ·0
5. 43	15. 0	2. 42	·1020	14. 0	·00889	21. 40	55 ·8	57 ·2
6. 18	11. 45	4. 23	·1018	21. 43	·00940			
8. 17	22. 12. 35	5. 5:	·1028	23. 30	·00981			
8. 51	21. 56. 20	5. 45	·1025					
9. 25	22. 8. 25	6. 50	·1035					
10. 15	6. 30	7. 30	·1029					
11. 12	8. 35	8. 10	·1030					
	***	8. 38	·1012					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 9		Dec. 9						
h m	° ′ ″	h m		h m		h m	°	°
12. 10	22. 6. 10	9. 8	·1038					
14. 25	13. 25		***					
	***	9. 58	·1028					
15. 55	12. 0	11. 25	·1023					
	***	11. 50	·1031					
17. 12	10. 55	12. 35	·1028					
18. 33	23. 25		***					
18. 50	24. 25	15. 0	·1042					
	***		***					
19. 37	14. 10	17. 25	·1053					
	***		***					
21. 12	10. 40	18. 25	·1030					
	***		***					
22. 14	12. 15	18. 57	·1036					
	***	19. 9	·1052					
23. 35	17. 2		***					
	***	19. 42	·1033					
23. 59	15. 20		***					
	***	22. 6	·1030					
			***					
		23. 44	·1008					
			***					
		23. 59	·1016					
Dec. 10		Dec. 10		Dec. 10				
0. 32	22. 14. 0	0. 42	·1020	1. 0	·00961	1. 40	57 ·0	59 ·0
0. 45	15. 40		***	2. 7	·00980	3. 40	58 ·0	60 ·0
0. 57	13. 10	1. 36	·1025	2. 19	·01052	9. 40	49 ·0	54 ·0
1. 35	18. 0	2. 8	·0967	4. 0	·01012	21. 40	55 0	56 ·0
1. 46	16. 30		***	8. 7	{ ·01000			
1. 55	20. 40	2. 52	·1016		{ ·01259			
2. 32	14. 5	3. 18	·1029	9. 0	·01230			
2. 44	12. 30		***	9. 15	·01242			
6. 22	22. 11. 0	4. 30	·1033	10. 3	·01174			
7. 2	21. 58. 0	6. 8	·1028	14. 0	·01180			
7. 36	22. 10. 0	6. 45	·1002	16. 0:	·01185			
	***	7. 24	·1026	23. 9	·01472			
8. 40	22. 11. 30		***					
9. 12	21. 49. 5	8. 30	·1025					
9. 27	22. 4 40	8. 44	·1014					
10. 0	22. 9. 30	8. 56	·1017					
10. 20	21. 59. 25	9. 16	·1077					
11. 0	22. 9. 50		***					
12. 6	10. 0	10. 7	·1008					
12. 25	12. 30	10. 27	·1016					
12. 48	10. 10	10. 42	·1012					
13. 32	12. 0	11. 10	·1026					
13. 47	19. 20	12. 36	·1023					
	***	13. 0	·1031					
14. 37	11. 10	13. 18	·1029					
	***	13. 39	·1042					
15. 50	20. 30	14. 5	·1030					
	***		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 10		Dec. 10						
h m	° ′ ″	h m		h m		h m	°	°
16. 54	22. 10. 10	15. 45	·1042					
	***	16. 0	·1035					
17. 15	13. 20		***					
	***	17. 18	·1045					
20. 39	12. 30		***					
	***	19. 56	·1028					
21. 18	16. 0	20. 10	·1034					
	***	22. 0	·1020					
23. 59	15. 35	22. 8	·1027					
	***	22. 17	·1016					
			***					
		23. 45	·1023					
		23. 59	·1022					
Dec. 11		Dec. 11		Dec. 11				
0. 30	22. 14. 40	0. 55	·1027	0. 0	·01276	1. 40	58 ·5	58 ·5
1. 12	16. 30	1. 25	·1020	3. 45	·01051	3. 40	59 ·0	59 ·0
2. 58	10. 10	3. 15	·1025	5. 0	·01161	9. 40	58 ·5	58 ·5
	***	3. 30	·1010	6. 11	·01112	23. 40	54 ·0	55 ·5
3. 23	15. 20	3. 36	·1019	6. 27	·01278			
	***	3. 46	·1014	9. 0:	·01326			
4. 7	2. 25	4. 16:	·1038	14. 0	·01570			
	***	5. 42	·1014	23. 0	·01539			
			***					
4. 51	10. 25							
5. 3	4. 35	8. 42	·1034					
5. 20	13. 0	9. 8	·1018					
	***	9. 46	·1072					
8. 14	8. 50	10. 6	·1045					
	***	11. 10	·1032					
8. 45	22. 11. 35	12. 15	·1037					
9. 38	21. 57. 30	13. 0	·1026					
10. 0	22. 5. 0	14. 33	·1036					
10. 12	3. 30	14. 41	·1031					
10. 30	6. 25	15. 0	·1038					
11. 12	3. 20	17. 27	·1042					
12. 17	14. 5	18. 25	·1048					
12. 32	11. 30	19. 12	·1036					
	***	20. 0	·1046					
			***					
13. 18	14. 20							
13. 32	18. 30	22. 22	·1024					
14. 28	13. 10	23. 0	·1037					
15. 20	17. 0	23. 43	·1027					
	***							
16. 30	12. 5							
	***							
19. 55	13. 0							
20. 30	15. 55							
	***							
21. 16	12. 10							
	***							
23. 59	15. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 12		Dec. 12		Dec. 12				
h m	° ′ ″	h m		h m		h m	°	°
0. 30	22. 14. 0	0. 0	·1030	1. 0	·01561	9. 40	56 ·2	58 ·0
	***	0. 27	·1026	10. 50	·01180	21. 40	54 ·8	57 ·5
1. 24	16. 25		***	10. 58	·01182			
	***	1. 42	·1039	15. 0	·00960			
2. 18	12. 40		***	19. 0	·01052			
	***	4. 59	·1028	23. 30	·01151			
3. 30	16. 20	5. 21	·1050					
	***	7. 17	·1043					
4. 45	22. 8. 50	7. 38	·1033					
5. 16	21. 57. 0	8. 22	·1032					
6. 8	22. 9. 0	8. 40	·1044					
7. 58	22. 11. 0	9. 3	·1034					
9. 17	21. 58. 30	9. 15	·1042					
10. 20	22. 9. 55	9. 50	·1034					
10. 54	6. 0	10. 30	·1040					
11. 8	12. 50		***					
11. 24	6. 30	11. 5	·1033					
11. 41	10. 0	11. 24	·1044					
	***		***					
12. 23	7. 55	12. 15	·1037					
12. 40:	9. 50		***					
13. 8	5. 30	12. 55	·1048					
13. 50	6. 25	14. 0	·1034					
14. 11	12. 30	16. 30	·1048					
	***	16. 55	·1043					
17. 47	13. 20	17. 30:	·1052					
	***	18. 30:	·1045					
18. 21:	17. 8	19. 30:	·1054					
	***	20. 47	·1028					
19. 16	12. 40		***					
	***	21. 7	·1034					
20. 8	15. 20	21. 28	·1023					
	***	21. 50	·1033					
21. 18	10. 30	22. 30	·1033					
	***		***					
21. 50	15. 0	22. 40	·1052					
	***	22. 58	·1055					
22. 10	12. 20	23. 32	·1030					
	***		***					
23. 14	12. 30	23. 55	·1028					
23. 28	17. 0							
23. 55	13. 8							
Dec. 13		Dec. 13		Dec. 13				
0. 11	22. 14. 10	0. 48	·1022	1. 0	·01170	1. 40	56 ·0	58 ·0
	***	0. 54	·1024	3. 53	·01023	3. 40	58 ·0	59 ·0
0. 57	13. 30		***		***	9. 40	59 ·0	59 ·0
	***	1. 34	·1039	5. 20	·01080	21. 40	55 ·0	57 ·0
2. 25	16. 30		***	13. 12:	·00936			
	***	2. 13	·1038	23. 30	·01430			
3. 2	12. 40		***					
3. 21	15. 20	2. 42	·1020					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 13		Dec. 13						
h m	° ′ ″	h m		h m		h m	°	°
3. 48	22. 14. 30	3. 20	·1021					
			***					
4. 12	10. 0							
4. 34	12. 50	3. 58	·1000					
			***					
4. 42	10. 30							
4. 57	22. 14. 0	4. 50	·1026					
5. 17	21. 55. 20	4. 58	·1005					
5. 40	22. 8. 30	5. 34	·1060					
6. 11	11. 30	5. 45	·1032					
			***					
6. 26	10. 0							
6. 47	0. 25	6. 48	·1025					
7. 9	10. 30	7. 3	·1052					
7. 18	5. 0	7. 24	·1022					
7. 27	9. 5	7. 32	·1037					
7. 43	7. 20	7. 45	·1021					
	***		***					
8. 21	10. 25	8. 47	·1028					
			***					
8. 54	7. 30							
9. 2	11. 0	9. 5	·1047					
9. 39	5. 5	9. 18	·1031					
			***					
9. 54	9. 25							
10. 1	7. 50	9. 40	·1029					
	***	9. 54	·1052					
			***					
10. 43	14. 5							
11. 11	9. 0	11. 3	·1017					
	***		***					
12. 18	9. 30	11. 40	·1028					
12. 53	12. 40	11. 50	·1036					
13. 7	7. 10	12. 17	·1038					
	***	12. 40	·1060					
14. 0	12. 10	13. 2	·1046					
14. 27	6. 35	13. 32	·1062					
15. 7	7. 30	14. 0	·1044					
16. 5	15. 30	14. 25	·1049					
	***	15. 30	·1029					
17. 30	14. 20	17. 36	·1045					
	***	18. 17	·1038					
			***					
19. 33	20. 0							
	***	18. 57	·1048					
			***					
22. 5	12. 0							
	***	19. 45	·1042					
22. 32	14. 0	20. 20	·1048					
	***		***					
23. 12	10. 30	21. 55	·1032					
	***		***					
23. 38	15. 30	22. 8	·1037					
	***		***					
23. 52	13. 30	23. 3	·1017					
	***		***					
		23. 30	·1030					
			***					
		23. 56	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 14		Dec. 14		Dec. 14				
h m	° ′ ″	h m		h m		h m	°	°
0. 30	22. 11. 35	0. 23	·1000	1. 0	·01430	1. 40	57 ·0	59 ·0
	***	0. 47	·1008	4. 0	·01090	3. 40	60 ·0	62 ·5
1. 30	15. 40	1. 47	·1000	5. 38	·01092	9. 40	59 ·8	60 ·5
	***	3. 34	·1004		·01315	21. 40	53 ·0	56 ·5
1. 52	14. 30	4. 2	·1009	6. 43:	·01255			
3. 29	13. 0	4. 18	·0990	14. 14	·01621			
3. 47	10. 25	4. 29	·1006	23. 30	·01585			
4. 11	12. 10	4. 45	·1000					
4. 22	8. 20	4. 59	·1016					
	***		***					
4. 50	5. 30	6. 22	·1012					
	***	6. 32	·1022					
5. 8	11. 0		***					
	***	7. 8	·1024					
5. 37	8. 0	8. 33	·1012					
	***	9. 6	·1040					
6. 7	10. 55	9. 24	·1018					
6. 25	5. 30	9. 38	·1030					
6. 35	8. 20	10. 13	·1020					
6. 49	6. 30	10. 30	·1025					
7. 22	11. 20	11. 37	·1020					
8. 18	10. 20	12. 18	·1032					
8. 40	3. 55	12. 58	·1021					
8. 48	6. 20	19. 13	·1030					
8. 57	2. 45	20. 30	·1042					
9. 15	9. 20	22. 30	·1025					
9. 30	6. 45	23. 18	·1028					
9. 40	9. 25							
	***							
11. 7	9. 5							
	***							
11. 50	6. 5							
	***							
12. 29	9. 0							
12. 43	7. 25							
12. 55	10. 55							
14. 30	9. 50							
15. 30	14. 8							
19. 15	11. 20							
22. 36	10. 50							
23. 35	12. 35							
Dec. 15		Dec. 15		Dec. 15				
0. 0	22. 13. 20	0. 15	·1028	1. 0	·01570	1. 40	55 ·4	58 ·0
2. 22	15. 0	0. 24	·1018	8. 30:	·01030	3. 40	57 ·5	60 ·0
	***	2. 18	·1018	17. 1	·01515	9. 40	57 ·0	57 ·5
9. 34	10. 30	2. 55	·1023	23. 30	·01390	21. 40	50 ·0	52 ·8
	***	10. 40	·1029					
11. 56	6. 50	11. 8	·1039					
	***	12. 8	·1027					
14. 45	12. 30	14. 10	·1029					
	***	15. 34	·1033					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 15	° ′ ″	Dec. 15		h m		h m	°	°
h m		h m						
21. 41	22. 10. 30	19. 0	·1045					
23. 59	12. 20	21. 48	·1039					
		23. 18	·1034					
Dec. 16		Dec. 16		Dec. 16				
1. 30	22. 14. 0	0. 0	·1027	1. 0	·01475	1. 40	52 ·0	55 ·0
4. 11	10. 40	0. 34	·1021	2. 9	·01418	3. 40	54 ·8	57 ·5
12. 30	11. 0	2. 34	·1016	4. 51	·00918	9. 40	55 ·8	57 ·0
23. 2	10. 55	9. 54	·1037	9. 0	·00862	21. 40	54 ·0	54 ·5
23. 50	12. 7	20. 6	·1046	12. 0	·00933			
		23. 54	·1026	16. 0	·00910			
				20. 30	·00985			
				23. 30	·01080			
Dec. 17		Dec. 17		Dec. 17				
0. 30	22. 12. 20	0. 0	·1018	1. 0	·01090	1. 40	55 ·0	56 ·0
7. 15	12. 35	1. 30	·1019	3. 16	·00880	3. 40	57 ·0	59 ·0
11. 18	8. 0	8. 30	·1034	5. 58	·00928	9. 0	55 ·5	57 ·5
11. 30	9. 25		***		·01152	21. 40	52 ·0	55 ·0
12. 46	8. 30	11. 24	·1030	11. 0	·01103			
13. 8	3. 30	12. 17	·1028	16. 8	·00999			
13. 21	6. 0	13. 8	·1044	23. 52	·01475			
	***	15. 20	·1033					
13. 47	3. 55	15. 47	·1042					
	***	17. 30	·1033					
14. 14	6. 0	18. 48	·1046					
	***		***					
16. 11	1. 50	20. 18	·1036					
	***	20. 30	·1040					
17. 34	7. 30	23. 27	·1020					
17. 36	5. 20	23. 40	·1020					
	***							
20. 50	12. 50							
	***							
22. 12	11. 55							
	***							
23. 11	15. 30							
	***							
23. 43	12. 0							
23. 54	15. 15							
Dec. 18		Dec. 18		Dec. 18				
0. 30	22. 13. 10	0. 18	·1020	1. 0	·01540	1. 40	53 ·2	55 ·0
2. 20	13. 20	1. 0	·1022	2. 42	·01570	3. 40	54 ·5	56 ·8
2. 40	14. 55	3. 14	·1012	7. 30	·01238	9. 40	55 ·2	58 ·0
3. 7	12. 0	4. 0:	·1014		·01428	22. 40	52 ·5	53 ·5
4. 2	14. 35	4. 15	·1004	8. 50	·01410			
5. 42	9. 30	4. 27:	·1013	9. 9	·01443			
6. 12	13. 30	4. 37	·0997	12. 0	·01425			
6. 43	13. 50		***	13. 0	·01400			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 18	° ′ ″	Dec. 18		Dec. 18		h m	°	°
h m		h m		h m				
7. 29	22. 6. 25	5. 57	·1026	16. 14	·01532			
7. 58:	8. 25	7. 0:	·1012	22. 30	·01514			
8. 20	5. 0	7. 30	·1021					
8. 36	22. 13. 0	7. 50	·1011					
9. 2	21. 45. 35		***					
10. 0	22. 8. 30	8. 25:	·1014					
	***	8. 47	·0985					
11. 57	8. 0	9. 9	·1034					
12. 18	15. 35		***					
13. 38	6. 50	10. 4	·1008					
13. 50	8. 50	10. 39	·1020					
14. 17	8. 0		***					
15. 0	13. 0	12. 12	·1027					
	***	12. 36	·1019					
15. 45	14. 10	12. 52	·1029					
16. 22	8. 0		***					
16. 36	12. 0	14. 50	·1018					
16. 54	6. 20	16. 36:	·1032					
17. 20	12. 25	21. 44	·1035					
19. 0	9. 30	22. 30	·1022					
19. 22	11. 30	22. 36	·1029					
21. 37	10. 30	23. 15	·1027					
22. 57	14. 0	23. 45	·1036					
23. 32	10. 0							
23. 58	15. 0							
Dec. 19		Dec. 19		Dec. 19				
0. 36	22. 13. 25	1. 0	·1028	0. 0:	·01540	8. 40	54 ·0	57 ·5
3. 0	16. 0	3. 43	·1028	14. 30:	·00960	21. 40	52 ·0	55 ·0
5. 4	11. 55	5. 50	·1035	23. 30	·01529			
6. 8	13. 25	6. 24	·1024					
6. 51	7. 45	7. 26	·1035					
7. 50	12. 30	10. 0	·1037					
8. 50	9. 50		***					
9. 6	11. 0	11. 47	·1032					
	***		***					
12. 32	12. 0	13. 36	·1034					
13. 13	7. 0	14. 0	·1040					
15. 0	10. 0	15. 30	·1037					
20. 30	10. 40	19. 15	·1045					
21. 30	12. 10	20. 45	·1038					
22. 55	10. 10	22. 0	·1040					
23. 59	12. 30	23. 35	·1032					
Dec. 20		Dec. 20		Dec. 20				
1. 0	22. 12. 40	0. 0	·1033	1. 0	·01320	1. 40	55 ·0	57 ·0
6. 18	9. 40	1. 12	·1030	4. 10	·00985	3. 40	57 ·5	58 ·0
6. 45	12. 20		***	5. 3	·01039	9. 40	58 ·5	59 ·5
7. 38	10. 25	2. 50	·1036	6. 7	·01015	21. 40	52 ·5	55 ·5
9. 22	12. 10	2. 55	·1023	6. 12	·01144			

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.
Dec. 20	
h m	° ′ ″
10. 19	22. 10. 40
10. 36	5. 0
10. 50	5. 55
11. 1	3. 36
11. 30:	7. 45
11. 57	5. 0
	***
13. 20	10. 20
14. 10	6. 30
15. 57	12. 50
21. 47	10. 0
23. 59	12. 0
Dec. 21	
0. 42	22. 13. 0
4. 30	10. 20
10. 13	11. 30
11. 0	9. 25
20. 45	11. 30
23. 59	12. 0
Dec. 22	
1. 15	22. 12. 35
4. 58	11. 0
9. 20	22. 12. 0
9. 58	21. 55. 0
	***
11. 15	22. 9. 0
	***
12. 12	9. 0
12. 32	11. 25
13. 3	9. 30
13. 18	10. 30
13. 55	4. 20
14. 10	8. 40
16. 0	11. 30
	***
18. 30	12. 20
18. 54	15. 10
	***
20. 55	11. 30
	***
21. 42	9. 50
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 20	
h m	
7. 24	·1027
10. 15	·1029
10. 28	·1022
10. 45	·1030
11. 3	·1048
	***
11. 54	·1020
13. 8	·1028
13. 33	·1024
14. 0	·1034
15. 10	·1032
18. 30	·1043
18. 45	·1041
21. 45	·1043
23. 27	·1042
23. 59	·1033
Dec. 21	
0. 8	·1033
1. 19	·1025
7. 0	·1036
10. 34:	·1032
18. 6	·1050
22. 32	·1045
23. 16:	·1037
Dec. 22	
0. 0	·1040
0. 45	·1032
4. 30	·1030
	***
7. 30	·1045
9. 43:	·1027
10. 2	·1035
10. 56:	·1017
11. 43	·1029
	***
13. 27	·1022
13. 55	·1050
15. 0	·1034
	***
17. 24	·1046
18. 45	·1038
20. 0	·1043
	***
22. 30	·1038
23. 13	·1030

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 20	
h m	
6. 30:	·01135
9. 0	·01320
10. 0	·01329
11. 0:	·01436
16. 16	·01623
21. 47	·01550
23. 30	·01450
Dec. 21	
1. 0	·01540
2. 0	·01526
7. 0	·00892
8. 28	·00898
8. 31:	·01072
18. 57:	·01540
22. 31	{ ·01508
	{ ·01485
Dec. 22	
1. 0	·01537
7. 13	·00904
11. 0	·00925
14. 30:	·00917
23. 57	·01360

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	54 ·0	56 ·0
3. 40	56 ·5	57 ·5
9. 40	56 ·0	58 ·0
21. 40	51 ·0	54 ·0
1. 40	53 ·5	57 ·0
3. 40	55 ·5	58 ·0
9. 40	55 ·0	57 ·0
21. 40	52 ·0	55 ·5

Göttingen Mean Solar Time.	Western Declination.
Dec. 22	
h m	° ′ ″
23. 59	22. 11. 20
Dec. 23	
0. 15	22. 13. 10
0. 58	11. 0
1. 31	14. 45
1. 49	12. 30
	***
5. 4	14. 0
5. 27	16. 20
5. 55	14. 5
6. 41	17. 50
8. 0	14. 0
8. 39	15. 0
9. 10	7. 0
9. 17	9. 20
9. 39	3. 55
10. 38:	11. 30
11. 39	6. 30
	***
12. 12	8. 0
12. 37	5. 30
12. 51	22. 9. 0
13. 25	21. 40. 50
13. 47	48. 50
14. 9:	44. 30
14. 48	58. 30
15. 0	21. 57. 0
	***
15. 45	22. 8. 0
	***
16. 32	3. 55
17. 11	5. 45
17. 37	12. 10
	***
18. 0	7. 30
	***
18. 37	13. 25
	***
21. 7	11. 20
	***
22. 12	12. 30
	***
22. 32	12. 0
22. 37	10. 0
22. 41	13. 10
22. 54	11. 0
22. 55	14. 10
22. 57	11. 10
23. 3	15. 0
23. 11	11. 0
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Dec. 23	
h m	
0. 0	·1030
	***
1. 27	·1035
	***
3. 0	·1016
	***
3. 42	·1023
4. 32	·1052
5. 4	·1023
	***
6. 4	·1037
8. 12	·1034
8. 55:	·1022
9. 13	·1035
	***
10. 18	·1038
10. 27	·1051
	***
11. 45	·1043
12. 4	·1026
12. 27:	·1035
12. 42	·1060
12. 58	·1030
13. 34	·1073
	***
14. 36	·1018
15. 35	·1029
	***
17. 33	·1021
18. 0	·1032
	***
22. 16	·1038
	***
23. 15	·1030

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Dec. 23	
h m	
1. 0	·01350
7. 0:	·01086
11. 30	·01228
13. 2	·01252
13. 37	·01280
14. 15	·01227
19. 30	·01503
21. 0	·01498
	***
23. 15	·01502

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
1. 40	54 ·0	56 ·5
3. 40	55 ·0	57 ·5
9. 40	53 ·0	56 ·5
21. 40	49 ·5	53 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 23								
h m	° ′ ″	h m		h m		h m	°	°
23. 58	22. 13. 0							
	***							
Dec. 24		Dec. 24		Dec. 24				
0. 22	22. 15. 55	0. 0	·1024	1. 0	·01474	1. 40	53 ·5	56 ·0
	***	1. 0	·1022	5. 0	·00971	3. 40	56 ·0	58 ·0
1. 0	14. 0	1. 15	·1031	11. 0	·00881	9. 40	57 ·5	59 ·5
1. 11	18. 0	1. 34	·1018	11. 30	·00911	23. 20	57 ·0	59 ·0
1. 25	15. 0		***	11. 48	·00869			
1. 35	17. 0	2. 57	·1012	23. 0	·00893			
	***	3. 39	·1008					
2. 2	14. 25	6. 4	·1030					
	***		***					
2. 45	17. 30	7. 12	·1019					
	***		***					
3. 7	14. 0	7. 42	·1051					
	***		***					
3. 10	17. 20	8. 23	·1018					
	***	8. 34	·1027					
3. 54	12. 50	9. 4	·1013					
	***	9. 42	·1014					
4. 15	14. 10	10. 15	·1030					
4. 40	11. 10		***					
5. 25	11. 0	11. 10	·1030					
5. 34	11. 30	11. 22	·1022					
6. 45	8. 25	11. 30	·1061					
7. 0	22. 1. 30	12. 0	·1024					
7. 34	21. 48. 30	12. 10	·1031					
8. 15	22. 8. 0	12. 34	·1019					
	***		***					
8. 50	10. 50	17. 55	·1023					
9. 22	4. 20		***					
10. 2	12. 30	19. 0	·1030					
10. 13	8. 55		***					
10. 20	12. 0	23. 0	·1026					
10. 55	11. 55							
11. 23	3. 40							
11. 40	17. 0							
12. 7	6. 10							
12. 27	10. 0							
12. 45	9. 0							
13. 11	11. 20							
13. 32	9. 25							
13. 50	11. 20							
14. 7	9. 30							
	***							
15. 27	13. 0							
	***							
16. 7	10. 20							
	***							
16. 45	15. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 24								
h m	° ′ ″	h m		h m		h m	°	°
22. 0	22. 11. 0							
23. 59	15. 0							
Dec. 25		Dec. 25		Dec. 25				
0. 20	22. 13. 25	0. 0	·1019	0. 0	·00880	10. 55	55 ·0	58 ·0
0. 33	16. 0		***	0. 44	·00925	23. 22	51 ·6	55 ·0
	***	0. 42:	·1014		·01162			
1. 30	13. 0		***	3. 42	·01195			
	***	1. 50	·1027	4. 27	·01271			
2. 57	16. 30		***	9. 0	·01350			
	***	3. 0	·1017		***			
4. 12	13. 0		***	12. 0	·01409			
5. 15	13. 55	4. 15:	·1025	12. 30:	·01390			
8. 31	22. 10. 0	4. 45	·1002	17. 20	·01605			
9. 4	21. 49. 0	5. 40	·1036		***			
9. 42	22. 3. 0	8. 10	·1028	23. 0	·01539			
9. 58	4. 0	8. 32	·1016					
10. 12	0. 0	9. 4:	·1057					
	***	9. 20	·1048					
12. 8	10. 10		***					
12. 20	18. 50	9. 32	·1062					
12. 52	8. 20		***					
13. 18	9. 40	9. 45	·1044					
13. 45	17. 0		***					
14. 20	10. 10	11. 50	·1018					
16. 38	14. 0	12. 2	·1034					
17. 5	5. 50	12. 15	·1020					
17. 11	7. 0		***					
17. 32:	3. 45	14. 0	·1039					
18. 15	12. 55		***					
19. 52	13. 13	14. 45	·1024					
19. 57	16. 0	18. 30	·1041					
20. 3	14. 30	19. 52	·1034					
20. 32	18. 25		***					
21. 8	12. 0	21. 0	·1050					
	***	22. 0	·1038					
22. 7	14. 45	22. 5	·1023					
	***	22. 14	·1048					
22. 53	11. 10		***					
23. 58	14. 0	22. 38	·1033					
		23. 45	·1033					
Dec. 26		Dec. 26		Dec. 26				
0. 26	22. 15. 30	0. 27	·1035	1. 0	·01559	10. 58	54 ·0	57 ·0
	***	3. 33	·1030	6. 30	·01360	21. 47	54 ·0	57 ·0
3. 0	15. 40	5. 34	·1040	9. 50	·01300			
	***	9. 0	·1035	13. 0	·01380			
5. 3	9. 30	9. 15:	·1045	17. 0	·01347			
	***	9. 25	·1041	20. 0	·01361			
9. 27	10. 0	9. 37	·1057	22. 0	·01320			
	***							

* For the Horizontal and Vertical Forces, increasing readings denote increasing forces.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Readings of Thermometers. Of V.F. Magnet.
Dec. 26		Dec. 26		Dec. 26				
h m	° ′ ″	h m		h m		h m	°	°
9. 52	22. 7. 0	10. 20	·1033	23. 0	·01271			
	***	10. 33	·1041					
11. 11	11. 30	10. 45	·1034					
12. 15	12. 20	19. 38	·1045					
21. 49	10. 30	23. 59	·1023					
23. 59	12. 30							
Dec. 27		Dec. 27		Dec. 27				
1. 46	22. 5. 3*	1. 46	·1026*	1. 0	·01227	1. 46	55 ·0	58 ·0
				5. 15	·00931	3. 40		59 ·0
				9. 0	·00920			
				9. 30	·01092			
				11. 0:	·01111			
				18. 9	·01538			
				23. 10	·01455			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to a number, in which instances they are inferred from observations made with the telescope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

From Dec. 27 to the end of the year, the adjustments of the Declination and Horizontal Force Magnets were under examination; and from Dec. 28 to the end of the year, those of the Vertical Force Magnet were also under examination.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1852.

The Dipping Needle is described, and the mode of using it is explained, in the *Magnetical and Meteorological Observations*, 1847, Introduction, page xliii, and in the corresponding parts of several preceding Volumes.

The needle A 2 was used till November 10, and A 1 from November 15 to the end of the year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1852.

Day and Approximate Hour, 1852.		Magnetic Dip.	Day and Approximate Hour, 1852.		Magnetic Dip.	Day and Approximate Hour, 1852.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	4. 21	68. 34 ·00	April	26. 3	68. 46 ·50	August	16. 3	68. 36 ·75
	5. 3	68. 39 ·00		26. 9	68. 50 ·25		16. 9	68. 42 ·50
	5. 9	68. 37 ·50					20. 3	68. 34 ·25
	18. 21	68. 40 ·00	May	2. 21	68. 45 ·50		29. 21	68. 31 ·25
	19. 3	68. 43 ·00		3. 3	68. 43 ·00		30. 3	68. 39 ·50
	19. 9	68. 38 ·25		3. 9	68. 45 ·25		30. 9	68. 41 ·50
	25. 21	68. 41 ·75		9. 21	68. 38 ·25			
	26. 3	68. 42 ·50		10. 3	68. 45 ·25	September	5. 21	68. 39 ·50
	26. 9	68. 39 ·50		10. 9	68. 39 ·25		6. 3	68. 38 ·75
				16. 21	68. 36 ·25		6. 9	68. 44 ·00
February	1. 21	68. 47 ·50		17. 3	68. 36 ·25		12. 21	68. 47 ·75
	2. 3	68. 48 ·75		17. 9	68. 27 ·50		13. 3	68. 37 ·25
	2. 9	68. 43 ·75		23. 21	68. 40 ·00		13. 9	68. 36 ·25
	8. 21	68. 43 ·75		24. 3	68. 46 ·25		19. 21	68. 41 ·75
	9. 3	68. 40 ·50		24. 9	68. 51 ·25		20. 3	68. 54 ·00
	9. 9	68. 36 ·00		30. 21	68. 47 ·50		20. 9	68. 46 ·25
	15. 21	68. 47 ·50		31. 3	68. 38 ·25		26. 21	68. 45 ·75
	16. 3	68. 35 ·50		31. 9	68. 46 ·25		27. 3	68. 46 ·75
	16. 9	68. 41 ·75					27. 9	68. 46 ·25
	22. 21	68. 44 ·25	June	13. 21	68. 42 ·75			
	23. 3	68. 43 ·00		14. 3	68. 39 ·00	October	10. 21	68. 46 ·25
	23. 9	68. 42 ·50		14. 9	68. 38 ·25		11. 3	68. 49 ·00
				20. 21	68. 41 ·75		11. 9	68. 45 ·25
March	0. 21	68. 37 ·50		21. 3	68. 33 ·50		23. 21	68. 45 ·50
	1. 3	68. 40 ·00		21. 9	68. 38 ·25		24. 3	68. 47 ·00
	1. 9	68. 39 ·00		27. 21	68. 42 ·75		24. 9	68. 48 ·25
	7. 21	68. 39 ·25		28. 3	68. 36 ·00		30. 21	68. 45 ·25
	8. 3	68. 40 ·00		28. 9	68. 38 ·00		31. 3	68. 45 ·00
	8. 9	68. 42 ·50					31. 9	68. 46 ·75
	14. 21	68. 39 ·25	July	4. 21	68. 38 ·00			
	15. 3	68. 40 ·50		5. 3	68. 39 ·00	November	7. 21	68. 47 ·75
	15. 9	68. 42 ·50		5. 9	68. 40 ·50		14. 21	68. 41 ·25
	21. 21	68. 44 ·25		11. 21	68. 46 ·75		15. 9	68. 47 ·25
	22. 3	68. 46 ·25		12. 3	68. 37 ·75		21. 21	68. 47 ·25
	22. 9	68. 42 ·50		12. 9	68. 43 ·25		22. 3	68. 45 ·00
	28. 21	68. 43 ·75		18. 21	68. 41 ·00		22. 9	68. 40 ·25
	29. 3	68. 46 ·75		19. 3	68. 39 ·75		28. 21	68. 45 ·75
	29. 9	68. 41 ·25		19. 9	68. 39 ·75		29. 3	68. 38 ·75
				25. 21	68. 39 ·00		29. 9	68. 39 ·50
April	4. 21	68. 42 ·50		26. 3	68. 36 ·25			
	5. 3	68. 46 ·75		26. 9	68. 33 ·00	December	5. 21	68. 48 ·00
	5. 9	68. 44 ·25					6. 3	68. 45 ·50
	11. 21	68. 33 ·75	August	1. 21	68. 36 ·25		6. 9	68. 47 ·50
	12. 3	68. 38 ·75		2. 3	68. 36 ·25		6. 22	68. 52 ·00
	12. 9	68. 44 ·00		2. 9	68. 48 ·25		19. 21	68. 52 ·75
	18. 21	68. 47 ·50		8. 21	68. 44 ·25		20. 3	68. 56. 50
	19. 3	68. 55 ·00		9. 3	68. 41 ·25		20. 9	68. 50 ·50
	19. 9	68. 50 ·00		9. 9	68. 44 ·75		26. 9	68. 46 ·00
	25. 21	68. 47 ·50		15. 21	68. 40 ·00			

February 1^{d}. 21^{h} and 2^{d}. 3^{h}. The observations were made with great care. The morning damp.

February 15^{d}. 21^{h}. The observations were made with great care.

In May, some of the observations are more than usually discordant; this may arise in some degree from want of experience in the observers.

In August, some of the observations were taken by an inexperienced observer.

MEAN MONTHLY MAGNETIC DIP, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1852.

1852, Month.	Mean Monthly Dip at 21h.	Number of Observations.	Mean Monthly Dip at 3h.	Number of Observations.	Mean Monthly Dip at 9h.	Number of Observations.
	° ′		° ′		° ′	
January	68. 38 ·58	3	68. 41 ·50	3	68. 38 ·25	3
February	68. 45 ·74	4	68. 41 ·94	4	68. 41 ·00	4
March	68. 40 ·67	5	68. 42 ·68	5	68. 41 ·48	5
April	68. 42 ·81	4	68. 46 ·75	4	68. 47 ·11	4
May	68. 41 ·50	5	68. 41 ·80	5	68. 41 ·86	5
June	68. 42 ·42	3	68. 36 ·17	3	68. 38 ·17	3
July	68. 41 ·19	4	68. 38 ·19	4	68. 39 ·12	4
August	68. 37 ·64	4	68. 37 ·36	5	68. 44 ·15	4
September	68. 43 ·69	4	68. 44 ·19	4	68. 43 ·19	4
October	68. 45 ·67	3	68. 47 ·00	3	68. 46 ·75	3
November	68. 45 ·50	4	68. 41 ·88	2	68. 42 ·33	3
December	68. 50 ·38	2	68. 51 ·00	2	68. 48 ·00	3
Mean	68. 42 ·98	45	68. 42 ·54	44	68. 42 ·62	45

Mean of all = 68° 42′.7

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1852.

The Apparatus used for observation of the Deflexion of a Magnet is described, and the method of computing the results is explained, in the Greenwich *Magnetical and Meteorological Observations*, 1847, Introduction, page xlv, and in preceding Volumes. The Magnet, marked $\frac{D}{XX}$ (the same which was used in preceding years), has been employed to produce the deflexion of another magnet, marked $\frac{H}{23}$ (of nearly the same dimensions): and the vibrations then observed are those of $\frac{D}{XX}$.

The following is the explanation of the notation used:—

m = the magnetic moment of the deflecting magnet $\frac{D}{XX}$.

X = the absolute measure of horizontal magnetic force.

K = the moment of inertia of $\frac{D}{XX}$ with its stirrup and pulley as suspended for vibration = 3·92866: the unit of length being the English foot, and the unit of weight being the English grain.

T = the time of vibration in seconds of mean solar time.

Then when the natural sine of the observed deflexion (the Deflecting Magnet being in the Lateral Position) is expressed by the formula

$$\frac{a}{(\text{distance})^3} + \frac{b}{(\text{distance})^5}$$

we have for the formulæ of computation

$$\frac{m}{X} = \tfrac{1}{2} a$$

$$m X = \frac{\pi^2 K}{T^2}$$

from which m and X are found.

The natural sine of the observed deflexion when the Deflecting Magnet is in the Axial Position is treated in the same manner as the former, for expressing it by the formula

$$\frac{a_1}{(\text{distance})^3} + \frac{b_1}{(\text{distance})^5}$$

but no further use is made of these deflexions.

For the determination of the Absolute Measure of Horizontal Force on those days on which Vibrations, unaccompanied by Deflexions, were observed: it is assumed that the quantity m (which is peculiar to the magnet) changes at a uniform rate from one observation of deflexion to the next; and the comparison of its interpolated value with the value of $m X$ given by the vibration determines the value of X.

ABSTRACT of the OBSERVATIONS of DEFLEXION of a MAGNET for ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1852.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distance of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	s		°
January 29	Lateral	1. 0	42·0	11. 48. 5·39	5·125	100	40·5
	Axial			6. 27. 48·40			
	Lateral	1. 6		3. 30. 0·37			
	Axial			1. 46. 48·11	5·123	100	43·2
February 11	Lateral	1. 0	41·9	11. 50. 43·04	5·132	100	39·5
	Axial			6. 28. 21·88			
	Lateral	1. 6		3. 30. 20·03			
	Axial			1. 46. 50·65	5·135	100	43·5
March 3	Lateral	1. 0	42·4	11. 48. 34·71	5·134	100	39·7
	Axial			6. 29. 19·01			
	Lateral	1. 6		3. 30. 30·83			
	Axial			1. 46. 35·49	5·130	100	43·0
April 15	Lateral	1. 0	55·8	11. 48. 45·16	5·086	100	54·5
	Axial			6. 30. 31·08			
	Lateral	1. 6		3. 29. 22·73			
	Axial			1. 46. 21·14	5·122	100	57·5
May 25	Lateral	1. 0	60·8	11. 43. 39·30	5·138	100	58·2
	Axial			6. 30. 42·92			
	Lateral	1. 6		3. 29. 50·49			
	Axial			1. 45. 55·25	5·142	100	61·5
July 8	Lateral	1. 0	82·8	11. 41. 17·62	5·161	100	79·5
	Axial			6. 28. 30·17			
	Lateral	1. 6		3. 27. 49·09			
	Axial			1. 46. 13·25	5·150	100	82·8
August 26	Lateral	1. 0	71·0	11. 40. 40·45	5·152	100	71·5
	Axial			6. 27. 10·69			
	Lateral	1. 6		3. 29. 4·91			
	Axial			1. 47. 16·84	5·152	100	71·3
October 23	Lateral	1. 0	57·0	11. 36. 45·85	5·165	100	57·0
	Axial			6. 27. 22·77			
	Lateral	1. 6		3. 26. 45·87			
	Axial			1. 45. 47·10	5·155	100	57·0
December 2	Lateral	1. 0	44·0	11. 39. 27·95	5·152	100	44·0
	Axial			6. 26. 45·90			
	Lateral	1. 6		3. 26. 52·62			
	Axial			1. 44. 13·64	5·158	100	44·5

April 15. The result of the observations for determining the time of vibration before taking the deflexions is discordant, as compared with all other results. The time of vibration used in the calculation of the Absolute Measure of Horizontal Force is $5^{s}\cdot122$.

Computation of the Values of Absolute Measure of Horizontal Force.

Month and Day, 1852.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a_1.	Apparent Value of b_1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log.}\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. m X.	Value of X.	Value of m.
January 29	+0·20726	−0·00274		+0·09866	+0·01391	+0·20732	9·01561	5·124	0·16932	3·775	0·3913
February 11	+0·20724	−0·00197		+0·09874	+0·01377	+0·20798	9·01699	5·134	0·16762	3·761	0·3911
March 3	+0·20758	−0·00292		+0·09792	+0·01309	+0·20754	9·01607	5·132	0·16796	3·767	0·3909
April 15	+0·20591	−0·00107		+0·09726	+0·01611	+0·20734	9·01565	5·122	0·16966	3·776	0·3914
May 25	+0·20797	−0·00471	−0·00281	+0·09644	+0·01697	+0·20631	9·01347	5·140	0·16660	3·772	0·3891
July 8	+0·20498	−0·00239		+0·09746	+0·01532	+0·20525	9·01127	5·155	0·16408	3·771	0·3869
August 26	+0·20731	−0·00490		+0·09963	+0·01276	+0·20549	9·01174	5·152	0·16458	3·771	0·3874
October 23	+0·20422	−0·00293		+0·09697	+0·01548	+0·20411	9·00881	5·160	0·16324	3·778	0·3855
December 2	+0·20370	−0·00163		+0·09438	+0·01789	+0·20473	9·00917	5·155	0·16408	3·780	0·3860

Values of Absolute Measure of Horizontal Force, from Observations of Vibration of the Deflecting Magnet $\frac{D}{XX}$, unaccompanied by Deflexion.

Month and Day, 1852.	Adopted time of Vibration.	Temperature.	Log. m X.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
January 19	5·131	41·5	0·16814	0·3915	3·762
February 7	5·129	45·0	0·16848	0·3912	3·768
March 27	5·109	42·0	0·17186	0·3912	3·797
July 30	5·122	73·0	0·16966	0·3871	3·818
September 11	5·148	65·0	0·16526	0·3869	3·782
17	5·132	65·0	0·16796	0·3867	3·807
October 20	5·156	58·2	0·16390	0·3856	3·782
November 25	5·155	47·0	0·16408	0·3859	3·781
December 21	5·158	49·0	0·16358	0·3362	3·774
24	5·155	52·8	0·16408	0·3863	3·777

The number of observed vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1852.

The day in the first column of the following tables is to be understood, generally, as defined in civil reckoning.

The barometer is described in the *Greenwich Magnetical and Meteorological Observations*, 1847, Introduction, page xlviii, and in the corresponding parts of several preceding volumes. The barometer has been read at 21^h, 0^h, 3^h, 9^h (Astronomical), on every day, excepting on Sundays and on Good Friday, November 18, and Christmas Day, on which days a smaller number of observations has been taken. Every reading has been reduced to the reading which would have been obtained at the temperature 32° of the mercury and scale, by application of the correction given in table II. (pages 82 to 87) of the Report of the Committee of Physics of the Royal Society. The mean of the reduced readings has then been taken for each civil day, and finally converted into mean daily reading by application of the correction inferred from Mr. Glaisher's paper in the *Philosophical Transactions*, 1848, part I.

The positions of all the thermometers are described in the Introduction, 1847, page lxix.

The thermometer used for determining the highest temperature of the air is a mercurial thermometer, invented by Messrs. Negretti and Zambra, and described in the volume for 1851; and that for the lowest is described in the Introduction, 1847, page lxvii: both are self-registering. The readings given are corrected for index-errors.

The dry-bulb and wet-bulb thermometers are described in the Introduction, 1847, page xlix; their scales have been verified from time to time, in the manner there described.

A mean daily reading of the dry thermometer is inferred from the mean of observations taken at the same hours as the observations of the barometer, corrected by a quantity given in the *Phil. Trans.*, 1848, part I. Another mean daily reading is inferred from the mean of the maximum and minimum thermometers, also corrected by a small quantity given in the same paper. The mean daily value given in the tables is found by combining these two corrected means, giving them weights proportional to the number of observations from which they are respectively derived.

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, to the end of the year 1844).

TABLE OF FACTORS, BY WHICH THE DIFFERENCE OF READINGS OF THE DRY-BULB AND WET-BULB THERMOMETERS IS TO BE MULTIPLIED, IN ORDER TO PRODUCE THE DIFFERENCE BETWEEN THE READINGS OF THE DRY-BULB AND DEW-POINT THERMOMETERS.

Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.	Reading of the Dry-bulb Thermometer.	Factor.
°		°		°		°		°		°	
20	8·5	32	3·1	44	2·3	56	1·9	68	1·6	80	1·5
21	8·5	33	2·8	45	2·3	57	1·9	69	1·5	81	1·5
22	8·5	34	2·6	46	2·3	58	1·9	70	1·5	82	1·5
23	8·5	35	2·6	47	2·2	59	1·8	71	1·5	83	1·5
24	7·3	36	2·6	48	2·2	60	1·8	72	1·5	84	1·5
25	6·4	37	2·5	49	2·2	61	1·8	73	1·5	85	1·5
26	6·1	38	2·5	50	2·1	62	1·7	74	1·5	86	1·5
27	6·1	39	2·5	51	2·1	63	1·7	75	1·5	87	1·5
28	5·7	40	2·4	52	2·0	64	1·7	76	1·5	88	1·5
29	5·0	41	2·4	53	2·0	65	1·6	77	1·5	89	1·5
30	4·6	42	2·4	54	2·0	66	1·6	78	1·5	90	1·5
31	3·7	43	2·4	55	2·0	67	1·6	79	1·5		

The dew-point being thus found for each individual observation, the mean is taken for each day (as defined from midnight to midnight), and this mean is corrected by application of the elements in the *Phil. Trans.*, 1848, part I.

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. That for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction. Observations were lost on January 22, February 1, 2, 17, and April 1.

The thermometer for the maximum temperature of the water of the Thames was out of order from March 4 to 26; May 11 to June 11; July 15 to 28; October 6 to 18; and on December 29, 30, and 31. That for the minimum temperature was out of order on March 5, 6, and 7, and from October 6 to 18.

The mean daily value of the difference between dew-point temperature and air temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, and they probably differ little from the absolute maxima and minima.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of ten years, is found by comparison with a table of results deduced by Mr. Glaisher from ten years' observations, made in the Magnetic and Meteorological Department of the Royal Observatory from the beginning of 1841 to the end of 1850. For all ordinary week days, to the end of 1847, the mean adopted in these results was the mean of the twelve readings made at equidistant intervals of two hours. For Sundays and exceptional days in those years the maximum and minimum readings were taken, and their mean was corrected for a difference exhibited in the Introductions to the various volumes of the *Magnetical and Meteorological Observations*. For 1848, 1849, 1850, and 1851, the mean adopted was the mean of four or six observations daily, corrected for diurnal range, combined with the results derived from maximum and minimum thermometers.

Osler's Anemometer is described in the Introduction, 1847, page lxxi. Little explanation of the results deduced from it appears to be necessary. In the columns of direction, the letter C is occasionally used for Calm. It may be understood generally that the greatest pressure occurred in gusts of short duration.

Whewell's Anemometer is described in the Introduction, 1847, page lxxii. The amount of movement of air here exhibited is to be understood as from 22^h to 22^h (10^h A.M. to 10^h A.M.), the numbers being placed opposite to the day preceding the civil day on which the instrument is read.

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-gauge No. 2, described in the same place.

For understanding the divisions of time under the heads of Electricity and Weather, the following remarks are necessary:—The day is divided by columns into two parts (from midnight to noon, and from noon to midnight), and each of these parts is roughly subdivided into two or three parts by colons (:). Thus, when there is a single colon in the first column, it denotes that the remarks before it apply (roughly) to the interval from midnight to 6 A.M., and those following it to the interval from 6 A.M. to noon. When there are two colons in the first column, it is to be understood that the twelve hours are divided into three nearly equal parts of four hours each. And similarly for the second column.

The Electrical Apparatus is described in page lxxvii of the Introduction, 1847. The following is the explanation of the notation employed, it being premised that the quality of the Electricity is always to be supposed positive when no indication of quality is given:—

g cur. denotes *galvanic currents*	N denotes *negative*	s denotes *strong*	v denotes *variable*
m .. *moderate*	P .. *positive*	sp .. *sparks*	w .. *weak*

The duplication of the letter denotes an intensity of the modification described: thus, s s is very strong; v v, very variable.

The Clouds and Weather are described generally by Howard's Nomenclature; the figure denotes the proportion of sky covered by clouds, the whole sky being represented by 10. The notation is as follows:—

a denotes *aurora borealis*	hl denotes *hail*	h-r denotes *heavy rain*	h-sqs denotes *heavy squalls*
ci .. *cirrus*	so-ha .. *solar halo*	c-h-r .. *continued heavy rain*	fr-h-sqs .. *frequent heavy squalls*
ci-cu.. *cirro-cumulus*	l .. *lightning*	m-r .. *misty rain*	sc .. *scud*
ci-s .. *cirro-stratus*	li-cl .. *light clouds*	fr-mi-r .. *frequent misty rain*	li-sc .. *light scud*
cu .. *cumulus*	lu-co .. *lunar corona*	sl-r .. *slight rain*	sl .. *sleet*
cu-s .. *cumulo-stratus*	lu-ha .. *lunar halo*	h-sh .. *heavy showers*	sn .. *snow*
d .. *dew*	m .. *meteor*	fr-shs .. *frequent showers*	sl-sn .. *slight snow*
h-d .. *heavy dew*	ms .. *meteors*	fr-h-shs . *frequent heavy showers*	s .. *stratus*
f .. *fog*	n .. *nimbus*	li-shs .. *light showers*	t .. *thunder*
th-f .. *thick fog*	r .. *rain*	oc-shs .. *occasional showers*	t-s .. *thunder storm*
fr .. *frost*	th-r .. *thin rain*	sq .. *squall*	v .. *variable*
h-fr .. *hoar frost*	oc-r .. *occasional rain*	sqs .. *squalls*	w .. *wind*
h .. *haze*	fr-r .. *frozen rain*	fr-sqs .. *frequent squalls*	st-w .. *strong wind*

Observations of special character are reserved for the pages following the tabular arrangement.

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Jan. 1	..	29·759	34·1	30·7	31·8	25·1	36·0	29·0	41·0	38·4	6·7	7·4	6·0	— 5·1	W	SW	0·0	0·0	0·0	55	0·00
2	..	29·571	40·6	29·1	36·4	30·7	40·5	24·0	40·5	38·0	5·7	7·2	5·0	— 0·2	S	SW	0·0	0·0	0·0	70	0·00
3	..	29·586	45·2	35·4	40·4	33·4	49·2	28·5	40·5	38·2	7·0	11·8	2·6	+ 4·0	SW	SW	10·0	0·0	1·0	270	0·02
4	..	29·701	49·1	35·9	40·6	30·5	50·0	30·0	40·2	37·8	10·1	10·6	9·8	+ 4·4	W; NW	W	10·0	0·0	3·0	125	0·00
5	..	30·049	44·6	28·1	37·2	29·9	49·0	21·5	39·8	37·5	7·3	9·1	6·2	+ 1·1	W; SW	S	2·0	0·0	0·3	175	0·00
6	Greatest Declination N.	29·708	47·8	35·8	41·9	29·9	53·0	28·0	39·0	36·8	12·0	15·4	9·4	+ 5·8	S	SSW	3·0	0·0	0·3	235	0·00
7	Full	29·584	49·7	40·9	45·4	37·1	52·5	30·0	39·5	37·5	8·3	11·7	4·8	+ 9·3	SW	WSW	6·0	0·0	2·0	190	0·00
8	..	29·497	50·1	36·2	44·0	38·0	55·8	30·0	40·4	38·0	6·0	7·8	4·3	+ 7·9	SW; S	SSW	9·0	0·0	2·3	310	0·00
9	..	29·203	40·4	34·4	36·1	27·5	45·0	31·0	39·8	37·6	8·6	12·5	6·0	— 0·1	W	W	13·0	0·0	2·4	255	0·12
10	Perigee	29·565	40·0	30·9	34·8	27·5	50·3	24·5	39·5	37·5	7·3	10·8	6·0	— 1·5	W	WSW; SE	3·0	0·0	0·3	175	0·00
11	..	29·015	52·4	35·6	47·1	40·3	53·6	24·0	40·4	38·0	6·8	10·0	4·0	+10·7	SW	SW	6·0	0·0	4·0	230	0·20
12	..	29·095	53·6	44·3	47·8	44·7	55·0	40·8	41·2	39·2	3·1	4·4	2·4	+11·2	NE	E; SW	6·0	0·0	0·9	160	0·23
13	In Equator	29·397	49·6	38·7	42·6	40·7	50·0	33·0	42·0	39·5	1·9	2·6	1·7	+ 5·9	SW	SW; S	0·0	0·0	0·0	50	0·91
14	Last Qr.	29·623	50·6	44·7	47·0	43·5	50·7	38·0	43·0	40·5	3·5	4·6	2·9	+10·2	SW	SW	0·0	0·0	0·0	100	0·01
15	..	29·454	53·8	44·5	49·6	44·8	55·0	41·0	45·0	43·0	4·8	8·0	2·9	+12·7	SW	W	15·6	0·0	1·0	275	0·31
16	..	29·712	55·5	44·1	47·8	40·8	57·0	40·0	45·5	43·0	7·0	10·8	4·4	+10·8	SW	SW	12·0	0·0	0·8	115	0·00
17	..	29·970	47·4	38·2	42·3	35·1	54·5	34·8	45·2	43·2	7·2	10·4	4·8	+ 5·2	SW; NW	NW	2·0	0·0	0·2	100	0·10
18	..	30·213	45·4	34·1	37·5	33·7	50·0	27·0	44·8	41·6	3·8	9·2	3·6	+ 0·3	SW	SW	0·0	0·0	0·0	40	0·00
19	Greatest Declination S.	29·988	46·6	32·3	40·5	34·0	52·0	23·0	44·0	40·0	6·5	9·2	3·8	+ 3·1	S	S	0·0	0·0	0·0	95	0·00
20	..	29·634	49·9	40·7	45·6	40·1	53·0	30·5	43·5	40·0	5·5	7·1	4·6	+ 8·1	S	SSE; SW	4·5	0·0	0·5	155	0·07
21	New	29·656	48·4	35·3	43·2	37·4	52·5	29·5	42·6	40·0	5·8	7·5	4·6	+ 5·6	SW	S	7·0	0·0	1·8	270	0·01
22	..	29·210	54·6	37·7	43·4	33·6	..	45·4	43·4	40·6	9·8	14·3	6·8	+ 5·7	SW	S	10·0	0·0	1·3	215	0·25
23	..	29·515	45·2	35·4	39·5	33·0	52·5	30·0	42·4	40·5	6·5	9·2	5·2	+ 1·6	S	S	0·0	0·0	0·0	130	0·00
24	..	29·603	47·4	35·8	42·7	36·9	49·0	29·0	41·8	40·4	5·8	8·5	4·6	+ 4·7	SSW	SW	6·0	0·0	2·0	290	0·11
25	..	29·765	50·9	40·9	44·5	37·4	53·0	33·5	41·5	40·5	7·1	8·1	6·0	+ 6·4	WSW	SW	5·5	0·0	0·4	135	0·05
26	Apogee	29·891	51·4	37·6	44·4	38·4	60·5	31·8	41·8	40·6	6·0	9·7	2·5	+ 6·2	SW	SW	2·0	0·0	0·3	175	0·00
27	In Equator	29·414	46·8	39·9	42·7	38·4	54·0	34·5	42·4	40·5	4·3	6·2	3·6	+ 4·4	S	SW; S	5·0	0·0	0·6	80	0·24
28	..	29·748	43·4	32·1	36·4	32·5	48·0	28·5	42·0	40·0	3·9	7·2	2·5	— 2·0	Calm	WNW	0·0	0·0	0·0	15	0·00
29	First Qr.	29·930	46·0	29·9	38·7	32·4	53·8	22·8	41·5	39·5	6·3	9·2	5·7	+ 0·3	S	SSW	0·0	0·0	0·0	220	0·00
30	..	29·585	53·4	37·2	44·5	36·7	59·0	34·0	41·5	39·4	7·8	11·1	4·1	+ 6·0	SW; NW	W	5·3	0·0	1·0	125	0·14
31	..	29·676	51·1	35·2	43·5	38·7	57·8	27·8	42·0	39·6	4·8	6·7	3·6	+ 4·9	SW	SW; S	3·0	0·0	0·5	190	0·11
Feb. 1	..	29·695	57·1	45·9	51·5	45·3	..	34·5	43·0	40·8	6·2	9·0	5·6	+12·9	W	SW; Calm	8·0	0·0	1·8	140	0·00
2	..	29·856	57·4	43·7	50·0	45·2	..	35·5	45·0	41·5	4·8	7·6	2·1	+11·4	SW	SW	4·0	0·0	1·0	220	0·03
3	Greatest Declination N.	29·953	50·3	38·7	43·2	36·5	53·3	33·0	45·4	43·2	6·7	10·7	5·0	+ 4·5	SW	SW	2·0	0·0	0·2	125	0·00
4	..	29·833	51·4	39·1	46·2	41·4	52·5	37·0	45·0	42·6	4·8	5·9	1·9	+ 7·5	SW	W	10·0	0·0	2·8	320	0·14
5	Full.	29·599	54·8	50·9	51·6	48·4	57·7	35·5	47·0	43·6	3·2	6·2	2·0	+12·8	WSW	SW	10·0	0·0	1·5	240	0·14
6	..	29·725	53·0	40·2	44·5	36·7	55·0	40·0	47·8	44·5	7·8	9·9	6·5	+ 5·7	WSW	NW	4·0	0·0	0·8	..	0·01
7	Perigee	29·975	48·6	34·7	42·2	36·0	62·3	31·0	47·0	44·5	6·2	9·9	3·8	+ 3·4	W	W	0·0	0·0	0·0	..	0·00
8	..	29·328	54·8	43·9	49·4	43·2	58·0	32·0	46·6	44·5	6·2	10·0	3·5	+10·6	WSW	SW	6·0	0·0	1·2	..	0·12
9	In Equator	29·168	48·8	35·4	40·6	34·1	50·3	34·0	47·0	44·2	6·5	8·1	5·8	+ 1·7	SW	Calm	5·5	0·0	0·5	..	0·07
10	..	29·689	48·6	30·3	38·1	33·3	55·0	29·8	45·0	42·0	4·8	9·9	2·3	— 0·8	Calm	N	5·0	0·0	0·4	..	0·03
11	..	29·985	48·6	30·7	36·7	32·2	50·8	25·3	44·2	40·5	4·5	8·9	3·9	— 2·2	N	N	0·0	0·0	0·0	..	0·00
12	Last Qr.	29·771	43·2	26·5	34·3	29·4	52·6	20·8	42·0	39·5	4·9	8·2	3·1	— 4·7	N	SSE	0·0	0·0	0·0	..	0·00
13	..	29·569	39·4	32·1	35·0	29·5	45·8	26·4	41·8	39·5	5·5	7·5	4·9	— 4·0	SSE	SE	0·0	0·0	0·0	45	0·00
14	..	30·008	41·4	34·1	37·5	32·7	49·0	31·0	41·0	38·0	4·8	7·2	3·8	— 1·5	SSE	SE	0·0	0·0	0·0	105	0·00
15	..	30·011	47·8	33·7	43·1	37·8	50·0	38·8	41·0	38·0	5·3	6·2	4·6	+ 4·0	SW	SW	0·0	0·0	0·0	120	0·00
16	Greatest Declination S.	29·918	48·3	38·9	43·5	37·3	49·8	24·8	41·2	38·4	6·2	8·8	4·1	+ 4·4	W	W	3·5	0·0	0·8	260	0·03
17	..	29·671	57·4	44·6	51·1	43·3	..	40·0	42·6	39·0	7·8	10·2	6·4	+11·9	W	W	4·0	0·0	1·1	275	0·00
18	..	29·521	50·4	34·1	40·0	31·6	52·0	35·5	43·2	39·5	8·4	12·5	6·2	+ 0·7	NW	NW	5·8	0·0	1·7	190	0·00
19	..	29·742	38·6	32·6	34·4	27·6	46·8	29·0	42·8	39·0	6·8	9·8	3·9	— 4·4	NW; N	N	6·5	0·0	1·0	235	0·00
20	New	30·032	37·9	27·9	31·9	28·2	45·0	26·0	41·4	38·0	3·7	9·1	2·8	— 7·5	N	N	0·0	0·0	0·0	95	0·00
21	..	30·201	42·6	24·9	34·6	24·1	49·2	15·0	40·5	37·6	10·5	11·3	5·8	— 4·9	Calm	W	0·0	0·0	0·0	85	0·00
22	..	30·391	46·2	33·5	35·6	27·8	51·0	27·0	40·2	37·6	7·8	9·9	2·4	— 4·0	Calm	NE	0·0	0·0	0·0	20	0·00
23	Apogee In Equator	30·505	43·4	30·8	36·4	29·1	54·0	21·0	40·0	37·5	7·3	10·3	5·7	— 3·3	NE	NE	1·5	0·0	0·1	110	0·00
24	..	30·316	43·4	31·4	37·3	30·5	49·5	27·0	39·6	37·4	6·8	11·3	6·2	— 2·5	NE	NE	2·0	0·0	0·3	145	0·00
25	..	30·213	45·4	32·5	37·3	31·8	50·8	27·5	39·6	37·2	5·5	9·9	4·2	— 2·6	NE	NE	1·0	0·0	0·1	160	0·00
26	..	30·183	43·0	32·3	37·8	33·3	51·4	26·0	40·0	37·2	4·5	7·2	1·4	— 2·2	NE	NNE	2·0	0·0	0·3	100	0·01
27	..	29·972	45·6	33·3	39·2	33·4	54·0	26·0	39·5	37·4	5·8	9·9	3·3	— 1·0	NNE	N; Calm	0·6	0·0	0·0	105	0·00
28	First Qr.	29·537	48·9	35·0	41·9	35·9	52·5	27·2	40·2	37·8	6·0	9·7	2·3	+ 1·6	WSW	NW; NNE	0·0	0·0	0·0	150	0·15
29	..	29·679	42·4	34·1	37·7	29·2	48·5	25·0	40·0	37·6	8·5	10·1	6·5	— 2·7	N	Calm	2·0	0·0	0·3	165	0·00

Feb. 6d to 12d. Whewell's Anemometer was under repair.

MONTH and DAY, 1852.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Jan. 1	o	o	10	10
2	o	o	10 : 7	7 : r
3	o	o	o	v
4	o	o	3	3 : o
5	o	o	7	7 : 5
6	o	o	o	o : 10
7	o	o	o	o : 10, ci.-s, sc, lu.-ha
8	o	o	10, s, sc	10, s, sc
9	o	o	o : 10, cu.-s, ci.-s, sc, sl, r	10, cu.-s, ci.-s, sc, sl, r : v
10	o	o	o	o : 10
11	o	o	v, r	v, r : o
12	o	o	10, r	10, r
13	o	o	10, h.-r	10, h.-r
14	o	o	10	10
15	o	o	10 : 9	10 : r
16	o	o	7	7
17	o	o	7	7 : o
18	o	o	o	o
19	o	o	o	o : 10
20	o	o	10, fr.-shs.-r	10, fr.-shs.-r
21	o	o	10	10 : fr.-sqs.-w.-r
22	o	o	o	7 : o
23	o	o	o	o
24	o	o	10, h.-sh.-r	10, h.-sh.-r
25	o	o	o	o : h.-sh.-r, hl
26	o	o	o	o : 4 : 10
27	o	o	5 : 10	10, h.-r
28	o	m : o : o	10, th.-f : 7	7
29	m	m	o	7 : o
30	o	o	10	10 : o
31	o	o	10, fr.-r	10, fr.-r
Feb. 1	o	o	10	o
2	o	o	10	10 : m.-r
3	o	o	o	o
4	o	o	10, r	10, r
5	o	o	10, fr.-r	10, fr.-r
6	o	sps : o : o	o : v, hl, r	v : o
7	o	m	o	10
8	o	o	10	10 : h.-r
9	o	o	10	10 : h.-r : 10
10	o	P, N, s	10	10 : shs.-r : 10
11	o	w	7 : o	o
12	m	m	o	v
13	o	o	10	4 : 10
14	o	w	10	10
15	o	o	10	10 : a
16	o	o	10	10, sl.-r : r, a
17	o	o	10 : 9	10 : a
18	o	o	5	5 : o, a
19	o	o	o	10 : a
20	o	m : o : s	o	o : a
21	m	s	o	o : 10 : r
22	o	o	10	o
23	m	m	7	7 : 10
24	m	m	4	4 : 10
25	m	m	10	10 : o
26	o	o	10, oc.-r	10
27	o	o : m : m	10	10
28	N, s : o	o	10	10, h.-sh, hl, r : v, h.-sh, hl, r
29	o	o	v, ci.-cu, ci.-s	v, ci.-cu, ci.-s

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Mar. 1	Greatest Declination N.	29·608	49·0	30·4	40·0	34·2	55·7	22·0	40·0	37·6	5·8	12·1	5·3	— 0·6	W	W	2·0	0·0	0·2	120	0·02
2	..	29·688	46·5	31·5	36·9	31·4	66·3	32·0	40·4	38·0	5·5	12·3	4·8	— 3·9	W; N	N	0·0	0·0	0·0	90	0·00
3	..	29·952	44·6	28·7	35·2	26·6	55·8	21·0	40·5	38·0	8·6	11·5	7·0	— 5·6	N	N; NE	0·0	0·0	0·0	95	0·00
4	..	30·283	44·6	26·3	34·8	26·2	62·5	15·0	40·0	37·8	8·6	16·6	6·9	— 6·1	E	SE	0·0	0·0	0·0	40	0·00
5	..	30·592	44·9	21·3	33·9	25·8	65·3	11·5	39·8	37·5	8·1	14·5	5·6	— 7·2	ESE	ESE	0·0	0·0	0·0	50	0·00
6	Full Perigee	30·626	47·1	25·8	36·3	25·6	65·0	17·3	39·5	37·4	10·7	18·6	5·1	— 4·8	E	ENE	0·0	0·0	0 0	90	0·00
7	In Equator	30·521	56·6	28·1	40·2	31·3	70·2	20·0	39·5	37·5	8·9	18·6	4·0	— 1·0	NE	ENE	0·0	0·0	0·0	120	0·00
8	..	30·395	49·4	30·7	41·2	34·2	61·4	24·0	39·6	37·6	7·0	12·3	5·8	— 0·1	ENE	ENE	0·0	0·0	0·0	110	0·00
9	..	30·308	52·2	35·5	42·7	35·5	70·5	29·8	40·5	38·2	7·2	11·6	3·9	+ 1·3	ENE	ENE	0·0	0·0	0·0	190	0·00
10	..	30·242	47·2	33·5	38·3	34·3	70·5	30·0	41·5	39·0	4·0	10·1	3·8	— 3·2	NE	E	0·0	0·0	0·0	60	0·00
11	..	30·116	44·4	31·7	37·8	33·0	47·0	27·0	41·6	39·2	4·8	9·9	2·7	— 3·8	N	N; NE	1·0	0·0	0·1	120	0·00
12	Last Qr.	30·230	49·6	34·3	40·1	33·9	56·0	30·0	42·0	39·5	6·2	13·2	3·6	— 1·6	NE	E	0·0	0·0	0·0	100	0·00
13	..	30·287	49·6	32·1	39·8	32·1	68·5	23·8	42·2	39·6	7·7	15·0	5·8	— 2·0	NE	E	0·0	0·0	0·0	75	0·00
14	Greatest Declination S.	30·295	49·6	31·9	39·7	33·7	62·5	21·4	42·2	39·8	6·0	13·9	5·0	— 2·2	E; NE	E	0·0	0·0	0·0	45	0·00
15	..	30·316	46·7	28·5	37·8	33·0	49·5	19·0	42·0	40·0	4·8	8·2	2·6	— 4·2	E	NE	..	..	..	65	0·00
16	..	30·265	48·4	40·9	43·6	36·5	53·6	33·0	42·2	40·2	7·1	11·4	6·0	+ 1·5	N	N	..	..	..	95	0·00
17	..	30·203	49·6	34·3	40·8	35·5	53·6	26·0	42·2	40·5	5·3	12·3	3·4	— 1·4	NE	NE	..	..	..	85	0·00
18	..	30·108	43·8	32·9	38·1	32·6	49·0	23·0	42·0	40·4	5·5	9·9	2·8	— 4·2	ENE	ENE	..	..	..	105	0·00
19	..	30·024	47·6	32·7	39·7	33·5	62·5	24·0	42·0	40·2	6·2	12·8	3·6	— 2·7	E	E	0·0	0·0	0·0	125	0·00
20	New	29·990	55·4	30·9	43·7	34·0	70·0	21·5	42·4	40·5	9·7	19·4	3·0	+ 1·2	ESE	E	0·0	0·0	0·0	110	0·00
21	In Equator Apogee	29·996	60·4	34·3	47·4	36·0	75·0	21·0	43·0	40·6	11·4	16·7	6·0	+ 4·8	SE	SE	0·0	0·0	0·0	140	0·00
22	..	30·007	65·9	37·0	54·2	41·8	74·5	28·5	44·4	41·5	12·4	15·7	8·8	+11·5	SE	S	0·0	0·0	0·0	65	0·00
23	..	29·897	68·4	33·5	53·3	40·1	77·0	25·0	45·6	42·0	13·2	18·4	3·2	+10·5	Calm	Calm	0·0	0·0	0·0	40	0·00
24	..	29·772	60·3	32·3	46·3	37·6	71·0	23·5	45·8	42·0	8·7	15·1	5·7	+ 3·4	SSW	NE	0·0	0·0	0·0	95	0·00
25	..	29·852	47·5	28·5	39·7	30·1	60·0	17·5	45·5	42·2	9·6	14·0	3·7	— 3·3	NNE	NNE	0·0	0·0	0·0	120	0·00
26	..	29·678	48·0	33·7	40·2	32·0	55·5	25·5	45·5	42·5	8·2	12·8	3·0	— 3·0	NNW	NE	0·0	0·0	0·0	55	0·00
27	..	29·495	44·0	27·3	37·7	28·9	51·5	19·0	45·2	42·4	8·8	13·1	5·2	— 5·6	S	WSW; S	0·0	0·0	0·0	50	0·00
28	First Qr.	29·504	49·5	24·7	39·8	34·5	68·5	16·0	45·0	42·4	5·3	7·5	3·4	— 3·6	ENE	ESE	0·0	0·0	0·0	125	0·00
29	Greatest Declination N.	29·313	57·0	37·0	46·9	40·5	75·5	30·5	44·5	42·5	6·4	13·7	4·6	+ 3·3	SSW	SSW	2·0	0·0	0·2	145	0·00
30	30	29·139	56·0	44·7	50·1	46·9	59·0	43·0	44·5	43·5	3·2	4·8	1·0	+ 6·3	SW	NNE	0·0	0·0	0·0	150	0·11
31	31	29·514	48·0	42·3	43·5	40·5	50·5	36·5	44·5	44·5	3·0	7·9	2·0	— 0·4	NE	NNE	0·0	0·0	0·0	135	0·01
April 1	..	29·986	55·0	36·7	42·9	37·1	..	38·5	44·5	44·5	5·8	16·6	5·3	— 1·3	NE	NE; E	0·0	0·0	0·0	70	0·00
2	..	30·171	50·1	28·3	39·9	33·9	71·0	18·5	44·5	44·5	6·0	11·3	2·8	— 4·4	E	E	0·0	0·0	0·0	90	0·00
3	..	30·176	53·5	28·0	41·6	35·1	75·5	16·5	44·5	44·5	6·5	15·8	4·9	— 2·8	NE	NE	0·0	0·0	0·0	85	0·00
4	In Equator Perigee Full	30·030	52·5	30·5	39·7	33·2	70·2	18·0	..	44·5	6·5	13·0	5·5	— 4·9	E	E; NE	0.0	0·0	0·0	105	0·00
5	..	29·985	61·3	32·9	47·2	41·3	75·5	22·5	..	..	5·9	13·5	2·8	+ 2·4	NNE	ESE	0·0	0·0	0·0	65	0·00
6	..	30·003	58·0	32·7	45·0	40·6	80·2	29·5	..	..	4·4	11·6	2·4	+ 0·1	ESE; NE	NE	0·0	0·0	0·0	75	0·00
7	..	30·051	50·6	39·5	42·3	38·0	62·5	40·0	..	..	4·3	12·8	2·2	— 2·9	NE	NE	0·0	0·0	0·0	120	0·00
8	..	30·123	55·5	38·1	44·6	37·5	73·0	32·8	..	45·0	7·1	16·2	5·5	— 0·8	NE	NNE; E	2·3	0·0	0·2	100	0·00
9	..	30·199	55·0	33·0	42·4	37·1	69·5	23·5	..	45·2	5·3	16·2	3·3	— 3·1	E	E	0·0	0·0	0·0	55	0·00
10	Greatest Declination S.	30·118	61·0	26·7	46·5	39·2	77·0	19·0	..	45·8	7·3	16·0	0·0	+ 0·8	NE	NE; Calm	0·0	0·0	0·0	25	0·00
11	Last Qr.	30·055	55·2	30·5	42·7	35·7	76·5	21·5	..	46·0	7·0	15·0	0·0	— 3·2	NE; E	E	0·0	0·0	0·0	110	0·00
12	..	30·139	56·5	38·5	45·1	40·7	79·2	30·5	..	46·5	4·4	13·3	3·7	— 1·0	E	E	0·0	0·0	0·0	70	0·00
13	..	30·170	67·0	32·9	50·2	41·4	85·5	22·5	..	47·5	8·8	19·5	3·9	+ 3·9	E	E	0·0	0·0	0·0	40	0·00
14	..	30·097	74·7	34·3	57·7	44·8	94·5	24·0	..	48·0	12·9	17·4	8·0	+11·3	Calm	NE; E	0·0	0·0	0·0	50	0·00
15	..	30·002	56·2	33·5	45·9	41·5	74·5	25·0	..	48·5	4·4	9·5	3·0	— 0·7	E	ESE	0·0	0·0	0·0	100	0·00
16	..	29·868	52·5	35·3	41·5	36·5	67·8	40·0	..	49·0	5·0	11·2	4·9	— 5·3	NE	ENE	2·0	0·0	0·3	115	0·00
17	Apogee In Equator	29·752	57·7	28·9	45·6	37·3	80·9	18·0	..	48·4	8·3	15·6	6·5	— 1·4	NE	NE	0·0	0·0	0·0	110	0·00
18	..	29·728	49·8	36·5	42·0	35·5	60·6	28·0	..	47·6	6·5	7·3	3·3	— 5·2	SW; N	NE	2·0	0·0	0·2	80	0 00
19	New	29·928	50·5	34·1	39·7	33·2	71·5	30·5	..	47·5	6·5	10·4	4·2	— 7·6	NNE	NE; SE	0·0	0·0	0·0	80	0·00
20	..	29·999	58·0	28·3	44·5	32·3	80·8	17·0	..	47·5	12·2	19·6	0·0	— 2·9	S; SW	SW; S	0·0	0·0	0·0	75	0·00
21	..	29·928	60·3	29·0	46·8	35·6	80·8	16·0	..	47·5	11·2	19·4	6·7	— 0·8	Calm; SE	ESE	0·0	0·0	0·0	125	0·00
22	..	29·722	65·8	36·5	51·2	41·5	85·2	25·5	..	48·0	9·7	18·4	5·4	+ 3·4	E	E	0·0	0·0	0·0	125	0·00
23	..	29·744	67·0	41·7	53·3	43·5	85·5	30·5	..	48·5	9·8	15·4	4·8	+ 5·3	E	E	3·5	0·0	0·7	220	0·00
24	..	29·700	53·8	38·5	44·4	32·7	68·9	35·0	..	48·0	11·7	19·7	4·4	— 3·9	E	E	9·0	0·0	3·0	165	0·00
25	Greatest Declination N.	29·819	59·9	33·3	44·4	33·1	75·5	24·0	..	48·0	11·3	23·9	4·6	— 4·1	ENE	E; ENE	3·0	0·0	0·5	80	0·00
26	..	29·856	64·3	34·5	50·6	34·6	84·7	23·4	..	48·5	16·0	21·1	2·9	+ 1·8	ENE	ENE; ESE	0·0	0·0	0·0	60	0·00
27	First Qr.	30·026	54·2	30·8	42·5	34·3	68·8	20·0	50·5	48·8	8·2	16·2	4·0	— 6·5	Calm	NNE	0·0	0·0	0·0	20	0·00
28	..	29·903	64·0	29·5	49·8	37·0	82·0	22·5	51·0	48·8	12·8	18·9	6·2	— 0·5	Calm	SW	0·0	0·0	0·0	140	0·00
29	..	29·644	61·0	43·5	52·2	49·2	63·3	44·0	51·6	49·8	3·0	7·7	0·0	+ 2·6	SW; W	WSW	0·0	0·0	0·0	170	0·43

March 15 to 18. Osler's Anemometer was under repair.

MONTH and DAY, 1852.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Mar. 1	o	o	o : 10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s, shs.-hl.-r
2	o	w	7, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s : o
3	o	m	o	10, cu, ci.-s : o
4	o : o : m	m	o	o
5	m	o : m : o	o	o
6	o	o	o	o
7	o	o	o	o
8	o	o	10, ci.-s	o : 10, ci.-s
9	o	o	10, ci.-s	o
10	o	o : m : o	10, ci.-s	o : 10, ci.-s, f
11	m	o : m	10, f	10
12	o : o : m	o : m	10, cu, cu.-s, ci.-s	v, cu, cu.-s, ci.-s : o
13	o : o : m	o : m : o	v, cu, cu.-s, ci.-s	o : v, cu, cu.-s, ci.-s
14	m	o	10	10
15	o	m	5	10
16	o	o	10, ci.-s	10, ci.-s
17	o : o : m	s : o	10	10 : v
18	o : o : m	m : o : o	10, ci.-s	10, ci.-s : v, ci.-s
19	m : o : o	o	9, cu.-s, ci.-s	9, cu.-s, ci.-s, : 10, cu.-s, ci.-s
20	o : s	s	o	o
21	m	o	4, ci, li.-cl	4, ci, li.-cl : o
22	s	s	o	7, s : o
23	m	m	5, s, h	5, s
24	o : o : m	o	o, h	10, ci.-s
25	w	o : m : o	o	10, cu, ci.-cu, ci.-s
26	o : o : w	o : w : o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
27	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
28	o	o	v, cu.-s, ci.-s	v, cu.-s, ci.-s : 10
29	o	o	7, s, ci.-s	7, s, ci.-s : 10, r
30	o	o	10, ci.-s, r	10, ci.-s
31	o	o	10, ci.-s	10, ci.-s
April 1	o	o	10, ci.-cu, ci.-s	o
2	o	o	4, ci.-cu	o
3	o	o	5, ci.-cu, s	o
4	o	o	10, ci.-s	o
5	o	o	7, cu.-s, ci.-s	7, cu.-s, ci.-s : o
6	o	o	10, ci.-s	10, ci.-s
7	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
8	o	o	o	o
9	o	o	10, ci.-cu, ci.-s : o	o
10	o	o	o, f	o
11	o	o	10 : o	o
12	o	o	10 : o	o
13	o	o	7, s, h : o	o
14	o	m : o : o	o	o
15	o	o	7 : o	o : 10, ci.-s
16	o	o	10, ci.-cu, ci.-s	o
17	o	m : o : o	o	7, cu.-s, ci.-s : 10, ci.-s
18	w : o : o	o	10, ci.-s	10, ci.-s
19	o	w : o	4	10
20	o : o : w	m : o	o	o
21	o : o : w	w : o	5, ci.-s, li.-cl	o
22	o : o : w	o	10, cu, ci.-s : 4	4, cu, ci.-s, li.-cl
23	w	o	10, cu.-s, ci.-s, li.-cl	v, cu.-s, ci.-s, li.-cl : 10
24	o	o	1, s, ci.-s	1, s, ci.-s
25	o	o	5, cu.-s, ci.-s	o
26	o	o	o	o
27	o	o	10	10
28	o : o : w	o	10, ci.-s	10, ci.-s : r
29	o	o	10, fr.-r	10, fr.-r

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
April 30	..	29·411	65·2	49·7	53·8	46·2	80·9	50·0	52·5	50·0	7·6	22·6	3·4	+ 3·9	WSW	W	4·0	0·0	0·3	85	0·07
May 1	In Equator	29·667	56·6	44·4	46·7	38·3	64·5	45·0	52·6	50·2	8·4	16·8	4·4	— 3·7	NNE	NNE	2·0	0·0	0·1	85	0·02
2	Perigee	29·908	50·9	34·0	41·3	30·3	64·5	27·0	52·2	49·5	11·0	17·2	6·0	— 9·4	N	NE	2·5	0·0	0.2	75	0·00
3	Full	29·990	58·5	29·3	44·1	31·7	84·0	19·8	52·0	49·5	12·4	19·8	8·3	— 7·0	NE	NE; E	0·0	0·0	0·0	35	0·00
4	..	30·046	57·5	30·0	45·1	32·7	79·0	22·0	52·0	49·6	12·4	20·7	9·2	— 6·3	N	NE; E	0·0	0·0	0·0	50	0·00
5	..	30·087	58·8	31·9	46·9	34·4	80·0	14·0	52·0	50·0	12·5	16·5	8·7	— 4·8	E; NE	NE	0·0	0·0	0·0	50	0·00
6	..	30·075	57·3	34·7	47·4	38·2	73·6	16·0	51·8	50·0	9·2	16·7	4·9	— 4·5	NE	NNE; E	0·0	0·0	0·0	45	0·00
7	Greatest Declination S.	29·940	64·7	39·9	53·0	40·8	79·0	28·8	52·5	50·5	12·2	16·3	5·3	+ 0·7	Calm	SW	0·0	0·0	0·0	95	0·00
8	..	29·919	73·0	45·3	59·0	47·3	97·7	37·5	53·6	52·0	11·7	16·5	7·1	+ 6·5	WSW	W	0·0	0·0	0·0	145	0·00
9	..	29·922	73·2	48·3	56·3	42·0	92·7	37·0	55·0	52·2	14·3	20·1	9·4	+ 3·7	SW	SW	2·5	0·0	0·2	165	0·00
10	Last Qr.	29·744	59·0	51·1	52·8	46·5	82·4	37·5	56·0	52·5	6·4	12·2	4·1	+ 0·7	SSW	SW	2·5	0·0	0·3	210	0·01
11	..	29·774	62·5	40·5	48·8	42·4	81·5	37·0	..	52·2	6·4	18·7	1·9	— 4·1	SW	SW	10·0	0·0	1·3	230	0·10
12	..	29·537	61·4	46·3	50·9	47·3	69·5	40·5	..	52·0	3·6	8·8	..	— 2·0	SW	SW	5·0	0·0	0·5	165	0·14
13	..	29·586	60·8	48·6	53·5	48·7	68·0	43·2	..	52·6	4·8	7·6	3·5	+ 0·4	SW	SW	5·3	0·0	1·5	145	0·05
14	..	29·597	63·2	49·0	53·1	42·3	83·8	47·5	..	53·5	10·8	16·4	7·7	— 0·1	SW	SSW	5·5	0·0	1·8	185	0·00
15	In Equator Apogee	29·933	65·0	41·7	53·6	43·0	86·5	36·5	..	54·0	10·6	16.3	5·0	+ 0·2	SSW	S	1·8	0·0	0·7	120	0·00
16	..	29·689	73·4	44·7	59·3	47·2	92·5	37·0	..	55·0	12·1	20·4	5·0	+ 5·7	SE	S; SW	0·0	0·0	0·0	55	0·00
17	..	29·675	62·5	49·9	54·0	51·2	70·0	44·0	..	54·5	2·8	7·6	1·2	+ 0·1	SW	Calm	0·0	0·0	0·0	60	0·38
18	..	29·482	71·0	47·9	59·2	54·7	89·2	41·0	..	55·5	4·5	11·2	4·0	+ 5·1	NE	ENE; Calm	2·0	0·0	0·1	80	0·26
19	New	29·727	64·4	47·7	54·9	46·9	83·8	40·8	..	56·5	8·0	13·3	2·9	+ 0·5	S	S	0·0	0·0	0·0	40	0·10
20	..	29·853	70·5	45·1	58·3	49·6	91·5	36·5	..	57·0	8·7	14·7	3·9	+ 3·5	NE	NE	0·0	0·0	0·0	25	0·00
21	..	29·853	59·4	48·3	51·2	47·6	74·5	49·5	..	57·4	3·6	9·7	3·5	— 3·9	NE; N	N	0·0	0·0	0·0	25	0·10
22	Greatest Declination N.	29·900	62·7	47·8	52·3	48·5	75·5	47·5	..	57·2	3·8	8·2	2·0	— 3·1	N	N	0·0	0·0	0·0	35	0·00
23	..	29·917	58·7	47·4	51·3	46·0	64·2	52·5	..	57·0	5·3	8·5	3·0	— 4·4	N	N	0·0	0·0	0·0	80	0·00
24	..	29·866	68·2	44·5	54·8	49·6	88·7	46·0	..	57·0	5·2	13·0	1·6	— 1·2	NNW	N; NE	0·0	0·0	0·0	75	0·00
25	..	29·771	64·7	43·7	53·1	48·5	80·5	49·0	..	56·8	4·6	11·0	3·0	— 3·2	NNE	NNE	1·0	0·0	0·1	125	0·00
26	First Qr.	29·675	53·4	48·5	49·9	47·5	54·5	48·0	..	56·4	2·4	3·6	0·0	— 6·7	NNE	NNE	2·5	0·0	0·2	40	0·56
27	..	29·760	55·5	48·5	49·1	46·2	57·7	49·5	..	56·0	2·9	7·8	3·1	— 7·8	N	N	0·0	0·0	0·0	60	0·00
28	..	29·681	58·2	46·9	50·6	45·3	66·2	47·0	..	55·0	5·3	9·5	3·7	— 6·6	N	NNE	0·0	0·0	0·0	25	0·01
29	In Equator	29·521	52·0	44·7	46·8	44·5	71·5	47·5	..	54·5	2·3	4·4	0·0	—10·5	N	N	0·0	0·0	0·0	75	0·30
30	..	29·593	59·0	36·9	48·2	37·9	77·2	30·7	..	54·5	10·3	18·0	4·5	— 9·4	NW	SW	0·0	0·0	0·0	75	0·00
31	Perigee	29·685	59·7	41·0	50·0	40·5	78·7	35·0	..	54·8	9·5	15·5	5·0	— 7·8	SW	SW	0·0	0·0	0·0	75	0·00
June 1	..	29·738	66·5	41·0	52·2	43·6	89·7	35·5	..	55·0	8·6	16·5	6·9	— 5·7	SSW	SW	2·0	0·0	0·2	120	0·05
2	Full	29·708	63·8	45·5	53·8	44·2	81·8	45·0	..	55·2	9·6	14·5	6·6	— 4·3	S	S	5·5	0·0	1·2	140	0·00
3	..	29·598	61·0	49·1	51·8	46·4	70·3	48·0	..	55·4	5·4	11·7	5·1	— 6·5	S	SSE	5·0	0·0	0·5	60	0·15
4	Greatest Declination N.	29·664	66·4	46·0	54·6	42·2	89·2	40·0	..	55·6	12·4	19·0	4·6	— 3·9	SSE; SW	SSW	1·0	0·0	0·0	65	0·00
5	..	29·828	69·4	44·4	56·7	43·4	90·0	37·5	..	56·0	13·3	18·8	4·6	— 2·0	S	SE; E	1·0	0·0	0·0	40	0·00
6	..	29·620	69·8	53·9	58·2	50·8	83·3	52·0	..	55·8	7·4	13·4	6·5	— 0·6	SE	SE; S	0·0	0·0	0·0	30	0·05
7	..	29·412	65·3	53·6	59·6	55·2	65·0	48·0	..	56·0	4·4	5·6	1·6	+ 0·7	E	NE; S	4·0	0·0	0·4	45	0·15
8	..	29·492	69·4	52·3	58·2	54·2	80·5	44·0	..	56·2	4·0	13·4	2·2	— 0·8	SE; E	ESE	0·0	0·0	0·0	10	0·06
9	Last Qr.	29·419	60·3	53·9	56·9	53·5	61·5	46·0	..	56·8	3·4	4·0	0·0	— 2·1	Calm	SW	0·0	0·0	0·0	80	1·36
10	..	29·420	57·6	46·5	50·8	46·6	58·0	51·5	..	57·4	4·2	6·2	0·2	— 8·3	NNW	NW; SW	0·0	0·0	0·0	70	0·99
11	In Equator Apogee	29·403	57·5	44·3	51·2	43·0	64·2	35·0	..	56·5	8·2	9·8	1·6	— 8·0	SW	W; SW	3·5	0·0	0·6	105	0·02
12	..	29·561	59·6	42·5	49·3	43·6	69·4	34·2	58·5	55·6	5·7	13·1	3·8	—10·0	SW	W	0·0	0·0	0·0	40	0·00
13	..	29·510	65·7	44·5	53·7	43·3	88·3	35·0	58·5	55·8	10·4	17·6	4·1	— 5·7	SW	S	1·5	0·0	0·3	130	0·06
14	..	29·147	66·0	48·5	55·2	46·6	85·2	46·5	58·4	56·0	8·6	15·7	4·6	— 4·3	SW	SW	3·5	0·0	0·5	125	0·27
15	..	29·400	70·2	48·5	55·7	50·0	89·4	40·0	59·6	57·0	5·7	16·8	5·3	— 4·0	SW	SW; S	1·0	0·0	0·2	100	0·05
16	..	29·255	65·4	48·7	54·8	47·8	79·4	41·5	60·4	57·2	7·0	15·5	4·0	— 5·0	SE	S	7·0	0·0	1·3	110	0·03
17	New	29·355	64·7	50·7	55·3	45·9	80·3	44·5	60·8	57·6	9·4	14·6	3·9	— 4·5	SSE	S; SE	3·0	0·0	0·9	140	0·10
18	Greatest Declination N.	29·451	63·8	49·7	54·1	47·7	77·2	45·0	61·2	58·2	6·4	12·1	2·7	— 5·9	S	SSE	4·4	0·0	1·4	135	0·06
19	..	29·524	69·2	52·1	57·4	49·8	87·6	48·3	61·2	58·5	7·6	14·4	3·0	— 2·8	SSE; SW	WSW	1·0	0·0	0·0	125	0·52
20	..	29·628	68·5	49·7	56·4	51·6	87·2	41·5	62·0	59·4	4·8	14·2	2·5	— 3·9	W	S; SSE	0·0	0·0	0·0	100	0·05
21	..	29·457	67·0	53·7	57·2	51·3	82·7	55·0	62·0	59·5	5·9	11·2	4·5	— 3·2	SSE	SSW	5·5	0·0	1·2	185	0·03
22	..	29·540	65·7	48·3	55·3	47·1	84·3	40·5	62·6	60·0	8·2	15·1	4·0	— 5·2	S	SSW	4·0	0·0	0·5	140	0·01
23	..	29·622	70·8	50·0	60·3	47·7	95·2	43·2	62·2	60·0	12·6	16·1	4·6	— 0·3	S; SW	WSW	0·0	0·0	0·0	100	0·00
24	First Qr.	29·886	72·2	48·1	59·2	47·3	97·7	40·0	64·0	60·6	11·9	19·7	4·2	— 1·5	SW	SW	0·0	0·0	0·0	55	0·00
25	In Equator	29·831	72·7	47·3	60·8	46·9	93·0	39·5	63·5	60·6	13·9	18·0	4·8	+ 0·1	S	S	2·5	0·0	0·1	70	0·00
26	..	29·618	69·9	55·5	60·7	55·1	85·6	54·5	63·8	61·5	5·6	11·0	4·0	0·0	SE	SW	4·0	0·0	0·2	75	0·45
27	Perigee	29·670	69·5	51·7	56·9	50·2	85·7	45·5	64·8	62·2	6·7	14·9	4·0	— 3·8	S; SW	S	0·0	0·0	0·0	85	0·08

MONTH and DAY, 1852.	ELECTRICITY. A. M.	ELECTRICITY. P. M.	CLOUDS AND WEATHER. A. M.	CLOUDS AND WEATHER. P. M.
April 30	o	o	10, cu, ci.-cu, ci.-s	10, cu, ci-cu, ci.-s : 9, r
May 1	o	o	10	10 : v
2	o	o	10 cu, ci.-cu, ci.-s, sl.-r	10, cu, ci.-cu, ci-s : o
3	o	o	5, cu, cu.-s	7, cu, cu.-s : o
4	o	o	7, cu, cu.-s, ci.-s, so.-ha	7, cu, cu.-s, ci.-s
5	o	w : o : o	7. cu.-s, ci.-s	7, cu.-s, ci.-s
6	o	o	10, cu.-s, ci.-s, li.-cl	10, cu.-s, ci.-s, li.-cl : o
7	o	o	5, cu.-s, ci.-s	10, cu.-s, ci.-s
8	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
9	o	o	5	o
10	o	o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s, r
11	o : o : N, s	N, s, sps	v, cu, ci.-cu, ci.-s, shs.-hl.-r	v, cu, ci.-cu, ci.-s, shs.-hl.-r
12	N, s	o	10, cu.-s, ci.-s, shs.-r	10, cu.-s, ci.-s, shs.-r : o
13	o	o	10, ci.-s, sc, fr.-shs.-r	10, ci.-s, sc, fr.-shs.-r
14	o	w : o	10, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s : o, r
15	o : o : s	w	7	o
16	w	m	o	o
17	o	o : w	10, fr.-r	10, fr.-r : l, t
18	o : m	s : o : o	10, cu.-s, ci.-s : 5	10, cu.-s, ci.-s, fr.-r
19	o	o	7, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s
20	o	o	7, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s : r
21	o	o	10, ci.-s, r	10, ci.-s
22	w	w	10	10 : o
23	o	o	10	10
24	o	w : o	10	o : 10
25	o : w	w	10	10
26	N, s : o	o	10, r	10, r
27	o	w : o	10	10
28	v	v : o	10	10
29	P, N, s	P, N, s : o	10, r	10, r
30	m	m	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
31	o	o : s	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 7
June 1	s, sps	s, sps : o	7, cu, cu.-s, s : t, h.-r	7, cu, cu.-s, s
2	o	o	10, cu.-s, ci.-s	7, cu.-s, ci.-s
3	o	o	10, r	10
4	o : w	w : o	10, ci.-cu, ci.-s, li.-cl	7, ci.-cu, ci.-s, li.-cl : o
5	o	o : m	5, s, ci.-s	10, s, ci.-s
6	o	o	10, s, ci.-s, r	9, s, ci.-s : 10
7	o	w : o	10, ci.-s, r	10, ci.-s, r
8	N, s, sps : o	o	10, ci.-s, r	10, ci.-s, r : v
9	N, s, sps	o	10, h.-r	10, h.-r
10	o	o	10, r	10, r : o
11	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : v, a
12	o	o	10, ci.-s, th.-r	10, ci.-s, th.-r
13	o	s, sps : o	10, cu. ci.-cu, ci.-s shs.-r	10, cu, ci.-cu, ci.-s, shs.-r
14	o	s, sps : o	7, cu, cu.-s, n, h.-shs.-r	7, cu, cu.-s, n, h.-shs.-r : 10
15	o	o	9, ci.-cu, ci.-s, sc, shs.-r	10, ci.-cu, ci.-s, sc, shs.-r
16	o	o : w : o	10, ci.-cu, ci.-s, sc, sl.-r	10, ci.-cu, ci.-s, sc, sl.-r
17	o	o	10, s, ci.-s, sc : 9	10, s, ci.-s, sc, shs.-r
18	w	w : o	10, s, ci.-s, sc, shs.-r : 7	7, s, ci.-s, sc, shs.-r
19	o	o : w	10	10 : t.-s, h.-r
20	o	o	10	10, r
21	o	o	10, ci.-s, sc	10, ci.-s, sc
22	o	o : w	7, ci.-cu, ci.-s	10, ci.-cu, ci.-s : v, r
23	o : w	w	10, cu.-s, ci.-s	3
24	o	w : o	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
25	o : s, sps	s, sps : o	5, ci.-cu, ci.-s	5, ci.-cu, ci.-s
26	N, s	o	10, cu, ci.-cu, ci.-s, h.-r	10, cu, ci.-cu, ci.-s, h.-r
27	o	w : o	10 : shs.-r	o

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
June 28	..	29·662	69·2	51·3	58·6	50·1	91·5	47·0	65·0	63·0	8·5	14·1	3·8	— 2·2	SW	SW; S	4·0	0·0	0·6	145	0·01
29	..	29·641	67·4	56·0	58·6	51·8	85·9	55·8	64·8	62·5	6·8	10·9	4·9	— 2·3	SW	SW	4·5	0·0	0·9	240	0·00
30	..	29·733	71·8	53·6	60·0	48·5	91·4	47·5	64·2	62·0	11·5	18·2	8·8	— 1·1	SW	SW	5·0	0·0	2·0	185	0·00
July 1	Full. Greatest Dec. S.	29·929	68·4	49·6	59·3	46·9	91·8	42·5	64·5	62·0	12·4	15·5	5·3	— 1·8	SW	SW	2·5	0·0	0·3	135	0·00
2	..	29·992	71·2	51·3	60·0	49·4	90·4	45·5	64·5	62·0	10·6	16·4	3·6	— 1·2	S; SW	SW; S	3·8	0·0	0·5	70	0·00
3	..	30·035	77·5	52·3	64·7	53·2	100·5	47·7	65·2	62·5	11·5	18·9	5·0	+ 3·4	SW	S	0·0	0·0	0·0	30	0·00
4	..	29·900	83·7	57·5	68·0	58·6	102·3	43·5	67·0	63·8	9·4	18·9	6·4	+ 6·6	SE	SE	0·0	0·0	0·0	35	0·00
5	..	29·760	90·3	58·1	75·6	59·7	116·0	50·0	69·5	66·0	15·9	27·5	4·4	+14·1	SE	SE; E	0·0	0·0	0·0	30	0·00
6	..	29·716	88·7	61·0	73·5	61·2	113·3	50·0	71·2	67·5	12·3	25·8	5·6	+11·9	Calm	E; NE	0·0	0·0	0·0	40	0·00
7	..	29·846	83·2	58·1	69·8	57·9	109·5	48·5	72·2	68·4	11·9	21·8	2·9	+ 8·1	NE	NE	0·0	0·0	0·0	30	0·00
8	In Equator	29·901	83·5	51·6	67·9	55·8	110·5	41·0	71·6	69·2	12·1	22·5	5·6	+ 6·1	NE	E	0·0	0·0	0·0	25	0·00
9	Last Quarter Apogee	29·852	89·0	55·3	70·9	61·4	121·5	47·0	72·0	69·8	9·5	26·9	4·4	+ 9·0	E	Calm	0·0	0·0	0·0	20	0·00
10	..	29·938	85·0	59·5	70·5	59·7	110·0	50·0	72·5	70·5	10·8	21·2	4·3	+ 8·5	Calm	N; NNE	0·0	0·0	0·0	40	0·00
11	..	29·999	81·4	52·7	63·4	58·5	108·2	44·0	72·5	70·6	4·9	17·9	4·0	+ 1·3	NE	ENE	0·0	0·0	0·0	60	0·00
12	..	29·951	78·7	57·1	64·5	59·2	101·8	51·0	73·0	70·8	5·3	14·6	4·3	+ 2·4	NE	E	0·0	0·0	0·0	50	0·00
13	..	29·930	81·3	55·5	67·2	58·9	104·5	49·5	73·2	71·0	8·3	17·1	4·6	+ 4·6	NE	NE	1·5	0·0	0·2	60	0·00
14	..	29·942	82·2	58·3	67·5	60·9	107·3	52·0	73·4	71·0	6·6	16·7	4·8	+ 5·4	NE	E	1·8	0·0	0·2	40	0·00
15	..	29·778	87·4	60·0	72·0	62·1	116·0	52·5	..	70·5	9·9	22·7	2·3	+ 9·9	Calm	S; SW	0·0	0·0	0·0	40	0·00
16	Greatest Declination N.	29·723	84·2	55·7	69·8	59·7	115·3	48·0	..	71·6	10·1	18·6	6·2	+ 7·7	SW; Calm	ENE	5·0	0·0	0·1	80	0·00
17	New	29·645	78·0	62·0	66·7	61·9	110·0	60·0	..	71·2	4·8	12·2	4·1	+ 4·6	5/ Variable	SW	0.0	0·0	0·0	20	0·27
18	..	29·761	80·2	54·3	62·5	55·9	107·2	44·0	..	70·8	6·6	20·9	3·6	+ 0·5	SW	SW	0·0	0·0	0·0	150	0·00
19	..	29·849	78·7	53·9	65·0	56·4	103·3	46·5	..	70·6	8·6	18·6	1·2	+ 3·1	S	S	0·0	0·0	0·0	100	0·00
20	..	29·914	73·8	58·7	64·5	57·9	100·2	49·0	..	70·2	6·6	12·8	4·3	+ 2·8	SW	SW	0·0	0·0	0·0	75	0·00
21	..	29·872	80·8	57·7	66·9	56·3	106·7	51·5	..	69·8	10·6	22·2	3·8	+ 5·5	SW	W	0·8	0·0	0·1	120	0·01
22	In Equator Perigee	29·946	80·3	54·8	65·8	53·8	110·3	47·0	..	69·0	12·0	23·0	5·2	+ 4·6	SW	W; N	0·0	0·0	0·0	75	0·00
23	..	29·976	81·0	49·2	63·7	53·0	103·3	38·0	..	69·2	10·7	27·0	4·3	+ 2·5	N	E	0·0	0·0	0·0	80	0·00
24	First Qr.	29·792	80·0	54·1	66·6	55·4	110·0	44·5	..	69·5	11·2	19·7	4·6	+ 5·4	ENE	E	3·0	0·0	0·5	75	0·00
25	..	29·572	76·0	57·3	64·8	59·8	99·3	48·8	..	69·2	5·0	10·5	2·7	+ 3·6	NNE	Variable	0·0	0·0	0·0	50	1·99
26	..	29·538	77·2	59·7	65·5	59·6	94·4	57·5	..	69·2	5·9	14·9	2·3	+ 4·2	Variable	SW; E; NE	0·0	0·0	0·0	70	0·05
27	..	29·796	79·5	57·7	67·1	58·3	100·3	52·0	..	69·0	8·8	15·8	4·9	+ 5·8	NE	NE	2·3	0·0	0·1	100	0·00
28	..	29·908	80·3	55·5	65·8	55·1	103·7	46·5	..	68·6	10·7	20·6	5·0	+ 4·4	N	N	3·0	0·0	0·3	100	0·00
29	Greatest Declination S.	29·916	78·8	57·7	66·3	54·6	103·9	57·5	72·0	68·5	11·7	22·1	5·1	+ 4·9	N	N; Calm	0·0	0·0	0·0	40	0·00
30	..	29·943	76·0	51·2	63·6	52·7	102·8	42·0	72·0	68·4	10·9	19.1	2·1	+ 2·2	N	N	0·0	0·0	0·0	5	0·00
31	Full	29·934	81·7	50·2	67·0	58·4	105·1	43·0	71·5	68·0	8·6	21·9	4·4	+ 5·6	Calm	Calm	0·0	0·0	0·0	20	0·00
Aug. 1	..	29·859	81·5	55·3	70·8	54·3	104·5	45·0	72·0	68·5	16·5	23·9	4·4	+ 9·4	Calm	WSW	0·0	0·0	0·0	35	0·00
2	..	29·639	81·3	55·7	67·7	52·0	108·8	46·0	72·0	68·8	15·7	24·3	5·7	+ 6·3	Calm; WSW	SW	0·0	0·0	0·0	30	0·00
3	..	29·241	70·3	54·5	61·0	50·9	79·0	47·0	71·4	68·2	10·1	17·6	4·5	— 0·4	Calm; S	S; SW	4·0	0·0	0·5	135	0·30
4	..	29·251	71·2	49·9	59·6	50·2	93·0	42·0	70·8	67·6	9·4	14·9	3·4	— 1·9	SW	SW; S	5·0	0·0	0·8	140	0·19
5	In Equator	29·229	72·7	52·4	61·6	49·7	92·5	48·0	70·0	66·8	11·9	17·9	3·2	+ 0·1	S	S	3·0	0·0	0·6	130	0·00
6	Apogee	29·247	69·5	50·8	59·8	49·9	90·0	47·0	69·8	66·5	9·9	14·7	5·0	— 1·7	S	S	5·0	0·0	1·2	160	0·25
7	..	29·187	74·0	55·3	62·3	52·9	97·0	53·0	69·2	66·0	9·4	15·9	3·2	+ 0·8	S	SSW	5·5	0·0	1·3	185	0·27
8	Last Qr.	29·317	71·8	53·1	62·2	51·3	87·8	51·0	68·8	66·0	10·9	14·9	5·0	+ 0·7	SW	S	5·0	0·0	1·2	105	0·20
9	..	29·387	70·0	53·9	59·1	51·0	86·2	50·0	68·4	65·5	8·1	10·8	2·2	— 2·3	S; SW	SW	0·0	0·0	0·0	75	0·24
10	..	29·493	74·0	50·7	61·0	49·1	97·2	42·0	68·0	65·0	11·9	17·1	4·4	— 0·4	SW	SW; S	1·2	0·0	0·1	90	0·00
11	..	29·075	67·8	52·7	58·1	52·8	76·3	46·0	67·5	64·6	5·3	8·1	2·2	— 3·3	SE	S; SW	15·6	0·0	3·1	more than 380	0·42
12	Greatest Declination N.	29·251	60·0	53·7	54·3	50·9	65·0	54·0	66·0	62·0	3·4	7·2	3·0	— 7·1	SW	SW	6·0	0·0	1·5	150	0·55
13	..	29·548	73·2	53·7	62·0	49·4	91·5	50·0	65·5	61·5	12·6	17·3	2·0	+ 0·6	SSW	W	2·5	0·0	0·3	110	0·07
14	..	29·592	74·4	51·1	61·4	49·3	95·0	46·0	65·6	61·5	12·1	17·9	4·8	0·0	SW	W; S	0·0	0·0	0·0	70	0·00
15	New	29·462	70·3	55·7	60·1	55·6	76·2	53·0	65·4	62·0	4·5	13·5	3·6	— 1·2	E; N	N	4·0	0·0	0·3	45	1·08
16	..	29·813	68·2	50·5	60·8	52·2	75·0	43·0	64·8	62·5	8·6	11·2	4·4	— 0·4	N; Calm	SSE; SSW	3·0	0·0	0·4	115	0·00
17	..	29·708	75·2	61·3	65·7	55·5	82·0	58·8	65·8	62·0	10·2	15·9	2·2	+ 4·6	SSW	SE	4·0	0·0	0·2	60	0·42
18	Perigee In Equator.	29·674	72·0	59·4	63·1	54·1	79·7	56·0	66·6	62·8	9·0	14·6	2·5	+ 2·1	SW	SW; S	0·0	0·0	0·0	20	0·35
19	..	29·795	71·5	54·0	61·1	53·4	94·0	47·0	66·5	62·6	7·7	13·2	2·0	+ 0·2	Calm	N	0·0	0·0	0·0	40	0·05
20	..	29·907	63·5	56·5	58·4	51·7	69·0	47·0	66·5	63·4	6·7	8·8	3·9	— 2·3	N	NW	0·0	0·0	0·0	45	0·01
21	..	30·034	75·6	58·5	63·7	55·4	85·0	56·0	66·5	62·5	8·3	15·3	5·6	+ 3·1	NW	NNW	0·0	0·0	0·0	75	0·00
22	First Qr.	30·008	75·5	59·3	63·7	57·1	98·0	55·0	67·0	64·0	6·6	14·1	3·8	+ 3·2	NNW	NNW	1·0	0·0	0·1	45	0·00
23	..	30·110	74·4	54·5	63·1	54·8	92·0	46·0	67·4	64·4	8·3	13·8	2·4	+ 2·7	NNW	N; Calm	0·0	0·0	0·0	5	0·00
24	..	29·977	71·0	54·9	62·2	55·3	80·5	49·0	67·0	64·2	6·9	11·1	3·2	+ 1·9	Calm	SW	0·0	0·0	0·0	45	0·10

MONTH and DAY, 1852.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 28	o	o	5, cu.-s, ci.-s, li.-r	7, cu.-s, ci.-s, li.-r
29	o : o : w	w : o : o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : o
30	o	m : o : o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
July 1	o	m	5, ci.-s, li.-cl : o	o
2	o	m	4, ci.-s, li.-cl : o	o
3	m	m	o	o
4	o	o : m	o	o
5	m	m	o	o
6	o	o	o	o
7	v	v	o	o
8	o : m : o	m	o	o
9	v	v	o	7, cu, ci.-cu : o
10	s	s	o	5 : o
11	o	o	o	o
12	o	o	10, cu, ci.-cu, s	v, cu, ci.-cu, s
13	o	o	7, ci.-s : o	o : 10, l
14	o	o	10	o
15	o	v	7	v : o
16	m	m : o : o	10	o : 10, l, t, h.-r
17	o	o	10, r	10
18	m	m	7, cu.-s : o	o
19	o : o : m	m	7, cu.-s, ci.-s : r	7, cu.-s, ci.-s
20	o : o : m	v	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s
21	v	v	10, r	o
22	o : o : w	w	7 : o	o
23	v	o : v : o	o	o
24	o : w	o	4, ci.-cu, ci.-s, li.-cl	4, ci.-cu, ci.-s : 10, ci.-cu, ci.-s
25	s P, N, sps, g. cur	s P, N, sps, g. cur	o : v, h.-r	v : 10
26	o	w : o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : shs.-r
27	o : o : w	w : o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : o
28	o : o : w	m	o	10, ci.-cu, ci.-s
29	o : o : s	s	7	v
30	s	s	10, cu.-s, ci.-s	o
31	v	v	o	10, ci.-cu, ci.-s
Aug. 1	o	o : m	o	o
2	o : s	s	o	4, ci.-cu, ci.-s
3	s P, N, sps, g. cur	o	v : 10, cu, ci.-cu	10, cu, ci.-cu, ci.-s, h.-r
4	o	w	5, h.-shs.-r	5 : o
5	o : o : w	m : o	5, cu.-s, ci.-s	5, cu.-s, ci.-s
6	s P, N, sps, g. cur	o	v, cu, cu.-s, ci.-s, t	v, cu, cu.-s, ci.-s, h.-shs.-r
7	o	o	7, cu.-s, ci.-s, sc, h.-r	7, cu.-s, ci.-s, sc : v
8	o	o : m	v, cu.-s, ci.-s, shs.-r	v, cu.-s, ci.-s, shs.-r
9	s N, sps	s N, sps : o	7, cu, cu.-s, ci.-s, shs.-r	7, cu, cu.-s, ci.-s, l, t, shs.-r
10	o	s P, N, sps, g. cur : o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : o
11	o	o	10, sqs.-w.-r	10, sqs.-w.-r
12	o	o	10, r	10, r
13	o	o	7, cu, cu.-s, li.-cl	7, cu, cu.-s, li.-cl
14	o	s P, sps, g. cur : o	2, cu, ci.-cu	2, cu, ci.-cu : 10, ci.-s, t
15	o	o	10, h.-r	10 : o
16	o	o	10, ci.-s	10, ci.-s
17	o	o	10, cu, cu.-s, ci.-s	9, cu, cu.-s, ci.-s : 10, t-s, h.-r
18	o	o	10, ci.-cu, ci.-s, sc	10, ci.-cu, ci.-s, sc
19	o	w : o	10, cu.-s, ci.-s, sc, r	10, cu.-s, ci.-s, sc. : v
20	o	o	10, sc, r	10, oc.-r
21	o	o	10, ci.-cu, ci.-s	v
22	o	o	10, cu, ci.-s : o	o
23	o	o	10, cu.-s, ci.-s, h	5, cu.-s, ci.-s, h : 10
24	o	o	10, ci.-s, oc.-r	10, ci.-s, oc.-r

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h A.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A. M.	Osler's. General Direction. P. M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P. M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 25	Greatest Declination S.	29·784	74·0	59·9	65·0	55·2	98·0	52·0	67·6	64·0	9·8	15·0	5·3	+ 4·8	SW	SW	4·0	0·0	0·6	95	0·00
26	..	29·885	75·0	58·7	64·1	56·6	96·5	53·0	67·5	64·6	7·5	13·1	3·6	+ 3·9	Calm; E	NE	0·0	0·0	0·0	60	0·00
27	..	30·006	77·5	55·5	66·5	55·0	103·0	46·5	67·8	64·8	11·5	16·8	3·6	+ 6·4	NE	NE; E	0·0	0·0	0·0	50	0·00
28	..	29·898	79·5	53·9	64·7	58·3	104·0	45·5	68·2	64·8	6·4	16·7	2·6	+ 4·7	N	Calm	0·0	0·0	0·0	65	0·00
29	Full	29·963	71·0	57·5	63·1	53·1	104·3	50·5	68·5	65·4	10·0	13·8	4·6	+ 3·1	SW	S	0·0	0·0	0·0	70	0·00
30	..	29·895	73·5	53·1	61·5	49·4	104·0	42·0	68·8	65·0	12·1	16·7	5·6	+ 1·6	SE; SW	SW	2·5	0·0	0·3	150	0·00
31	..	29·893	70·0	50·7	58·9	46·7	93·0	43·5	67·6	64·5	12·2	17·4	4·0	— 0·9	SW	SW; S	1·0	0·0	0·1	95	0·00
Sep. 1	In Equator	30·017	73·6	51·5	61·2	52·4	94·5	42·5	67·2	64·2	8·8	16·5	5·3	+ 1·5	S	SW	1·0	0·0	0·1	65	0·00
2	..	30·099	76·5	47·8	63·4	50·8	105·0	39·0	67·5	64·5	12·6	18·3	2·2	+ 3·8	Calm	Calm; SE	0·0	0·0	0 0	20	0·00
3	Apogee	30·035	75·3	50·7	64·3	52·6	99·3	41·5	67·8	64·8	11·7	20·9	4·4	+ 4·8	Calm; SE	E	0·0	0·0	0·0	50	0·00
4	..	29·952	77·5	51·8	64·7	55·7	100·5	42·5	67·8	64·8	9·0	18·5	3·4	+ 5·4	Calm	E	0·0	0·0	0·0	40	0·00
5	..	29·841	75·5	54·6	63·6	57·0	88·0	44·0	67·5	65·0	6·6	16·4	4·0	+ 4·4	Calm	Calm	0·0	0·0	0·0	15	0·01
6	Last Qr.	29·834	70·0	55·3	61·8	55·2	85·2	46·0	67·4	65·0	6·6	10·5	3·6	+ 2·7	N	N	0·0	0·0	0·0	15	0·01
7	..	29·810	65·0	55·7	57·7	55·1	70·0	51·0	67·2	64·6	2·6	5·8	1·8	— 1·2	W	Calm	0·0	0·0	0·0	35	0·26
8	Greatest Declination N.	29·845	68·0	56·7	60·6	55·2	77·0	47·2	67·0	64·5	5·4	10·1	3·2	+ 1·8	NE	NE	5·0	0·0	0·6	130	0·97
9	..	29·785	70·2	56·8	61·4	55·1	79·0	49·0	66·5	63·8	6·3	9·6	3·0	+ 2·7	NE	NE	3·0	0·0	0·1	90	0·04
10	..	29·689	68·0	57·7	60·9	55·3	72·5	50·5	66·2	62·6	5·6	9·6	3·0	+ 2·3	N	N	3·5	0·0	0·4	140	0·11
11	..	29·716	67·5	54·2	58·6	50·5	74·0	50·0	65·8	62·0	8·1	13·9	4·3	+ 0·1	N	NW	1·0	0·0	0·0	95	0·00
12	..	29·748	66·0	50·5	57·6	46·0	86·0	40·5	65·0	61·0	11·6	14·9	7·9	— 0·7	WSW	WNW	3·0	0·0	0·5	85	0·00
13	New	29·784	68·0	47·8	57·4	46·4	92·5	38·5	64·5	60·5	11·0	15·4	6·4	— 0·8	SW	NW	0·0	0·0	0·0	30	0·00
14	..	29·771	62·7	48·7	54·9	39·3	83·0	43·0	64·0	60·5	15·6	18·4	7·0	— 3·4	W	NW; Calm	0·0	0·0	0·0	10	0·00
15	Perigee In Equator	29·352	61·0	48·7	52·9	47·9	65·5	42·2	63·5	59·8	5·0	10·3	3·4	— 5·1	Calm	SW	1·0	0·0	0·0	80	0·10
16	..	29·617	62·0	45·5	52·2	42·2	88·0	40·0	63·0	59·4	10·0	15·5	4·8	— 5·6	NW	N	0·0	0·0	0·0	..	0·00
17	..	29·711	65·0	37·9	52·0	40·2	84·5	31·5	62·5	58·6	11·8	19·2	7·7	— 5·4	Calm	NE	0·0	0·0	0·0	10	0·00
18	..	29·305	66·5	41·5	53·4	50·6	70·0	32·8	61·6	58·0	2·8	7·0	0·0	— 3·7	NE	SE; SW	5·0	0·0	0·5	80	0·75
19	..	29·346	60·2	52·0	54·3	47·9	70·0	48·0	61·2	57·6	6·4	7·0	4·2	— 2·4	S; N	N; Calm	0·0	0·0	0·0	30	0·22
20	First Qr.	29·417	64·8	49·0	56·0	49·3	73·5	43·5	61·0	56·8	6·7	9·6	4·4	— 0·3	Calm; SW	SW	4·0	0·0	0·6	180	0·25
21	Greatest Declination S.	29·479	59·0	45·7	49·0	40·4	78·5	42·0	59·5	55·5	8·6	15·1	5·5	— 6·9	SW; W	W	7·0	0·0	2·0	75	0·10
22	..	30·241	63·8	38·6	52·7	40·5	88·5	30·0	58·0	55·0	12·2	17·5	3·3	— 2·9	SW	W	0·0	0·0	0·0	35	0·00
23	..	30·323	62·0	48·7	54·4	50·0	73·8	42·8	58·0	54·8	4·4	8·1	0·0	+ 0·9	SW	Calm	0·0	0·0	0·0	..	0·00
24	..	30·290	70·0	45·8	57·7	51·8	91·0	38·2	58·0	55·2	5·9	12·8	0·0	+ 2·6	Calm	Calm	0·0	0·0	0·0	..	0·00
25	..	30·016	68·0	45·8	56·1	50·0	83·5	37·0	58·2	55·5	6·1	11·8	0·6	+ 1·3	Calm	E	0·0	0·0	0·0	15	0·00
26	..	29·787	62·0	46·8	53·2	49·0	73·5	38·6	57·9	55·5	4·2	9·0	0·6	— 1·4	Calm	NNE	0·0	0·0	0·0	15	0·00
27	..	29·705	64·0	46·7	54·9	49·7	78·0	39·5	58·0	55·4	5·2	9·3	0·2	+ 0·5	Calm	NE	0·0	0·0	0·0	..	0·00
28	In Equator Full	29·102	62·5	51·9	54·0	51·4	66·0	39·8	57·9	55·4	2·6	7·9	1·6	— 0·1	NE	NE; SE	1·0	0·0	0·0	5	0·94
29	..	29·125	63·2	47·8	54·0	45·0	72·0	45·0	57·7	55·4	9·0	13·1	3·6	+ 0·2	SSW	SSW; S	7·0	0·0	2·6	70	0·17
30	Apogee	29·442	60·0	40·9	50·6	39·0	80·0	38·5	57·3	54·5	11·6	18·1	3·8	— 3·0	Variable	WSW	6.0	0·0	3·0	165	0·00
Oct. 1	..	29·391	57·0	40·6	49·3	40·3	67·5	36·5	56·5	54·2	9·0	15·0	4·0	— 4·1	S; N	SSW	0·0	0·0	0·0	..	0·13
2	..	29·268	64·0	43·5	50·6	42·9	72·5	44·0	53·3	53·5	7·7	15·6	1·3	— 2·6	SW	SW	4·5	0·0	0·7	..	0·07
3	..	29·650	58·8	43·0	50·2	40·3	76·2	35·7	54·5	53·0	9·9	16·4	3·5	— 2·8	SW	WSW	4·5	0·0	1·5	..	0·01
4	..	29·308	55·5	48·5	50·3	48·0	57·0	30·2	53·5	52·0	2·3	5·6	0·5	— 2·5	SW; SE	SSE; SSW	10·0	0·0	2·4	..	1·01
5	..	29·044	60·2	47·7	51·9	43·9	73·5	42·5	53·3	50·5	8·0	13·2	4·5	— 0·7	SW	WSW	9·0	0·0	4·2	..	0·07
6	Greatest Dec. N. Last Quarter	29·467	49·0	41·4	43·7	41·6	52·5	32·1	..	..	2·1	6·8	0·0	— 8·6	SW	NW; N	4·0	0·0	0·2	..	0·00
7	..	29·710	55·5	41·2	46·3	35·0	62·0	31·0	..	..	11·3	17·4	5·0	— 5·7	WSW; NW	NW	4·0	0·0	1·5	..	0·00
8	..	29·732	46·0	33·5	39·8	30·9	60·5	28·5	..	..	8·9	16·8	4·0	—12·0	WSW; NW	N; NW	0·0	0·0	0·0	130	0·00
9	..	29·824	49·0	34·3	41·7	33·6	71·0	24·0	..	..	8·1	16·1	3·5	— 9·8	NNW	NNW	0·0	0·0	0·0	75	0·00
10	..	29·876	55·5	35·5	46·1	39·4	69·0	26·5	..	..	6·7	11·0	3·0	— 5·1	SSW	NNW	0·0	0·0	0·0	90	0·03
11	..	30·006	58·0	42·5	50·3	45·5	72·0	32·0	..	..	4·8	10·5	2·5	— 0·5	SW; N	N	0·0	0·0	0·0	50	0·00
12	In Equator	30·229	58·8	38·5	48·1	41·6	71·0	32·0	..	..	6·5	13·8	2·8	— 2·5	N	N	0·0	0·0	0·0	85	0·00
13	New Perigee	30·226	55·5	39·5	47·5	42·9	57·0	28·0	..	..	4·6	9·6	1·6	— 2·7	NNE	NE	0·0	0·0	0·0	50	0·00
14	..	30·174	54·5	44·2	48·8	44·2	56·5	33·0	..	..	4·6	8·4	3·0	— 1·0	NE	NE	0·0	0·0	0·0	45	0·00
15	..	30·129	55·8	45·0	49·3	41·6	57·5	36·5	..	..	7·7	10·6	4·0	— 0·2	NE	ENE	2·0	0·0	0·4	65	0·00
16	..	30·114	52·5	43·5	47·3	41·4	59·0	38·5	..	..	5·9	10·0	3·5	— 1·9	ENE	NE	0·0	0·0	0·0	90	0·00
17	..	30·043	59·0	31·0	47·1	40·3	78·0	25·2	..	..	6·8	13·0	..	— 1·8	NE	NE; E	0·0	0·0	0·0	65	0·00
18	Greatest Declination S.	30·125	59·0	40·8	48·8	42·0	78·0	31·5	..	..	6·8	13·5	3·1	+ 0·3	N	N	0·0	0·0	0·0	40	0·00
19	First Qr.	30·333	56·0	37·0	45·8	41·0	70·0	29·0	49·0	48·3	4·8	8·4	0·0	— 2·4	Calm	SW; S	0·0	0·0	0·0	10	0·00
20	..	30·139	61·0	34·6	48·7	41·0	77·0	28·7	49·0	48·3	7·7	13·3	1·8	+ 0·9	SW	S	0·0	0·0	0·0	40	0·00
21	..	29·838	60·0	38·3	51·1	43·7	68·5	28·5	48·8	48·3	7·4	12·0	3·3	+ 3·6	Calm	SW; Calm	0·0	0·0	0·0	15	0·00
22	..	29·580	61·8	50·3	55·9	52·3	62·5	45·0	48·8	48·7	3·6	6·5	2·7	+ 8·6	SE	SSE; SSW	0·0	0·0	0·0	140	0·35

October 1 to 7. Whewell's Anemometer was under repair.

MONTH and DAY, 1852.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 25	o	o	5, cu.-s, ci.-s, sc	5, cu.-s, ci.-s, sc : 10
26	o	o	7	7 : o
27	o	o	7, cu.-s, ci.-s	o
28	o	o	10, cu, ci.-cu : 5, cu, ci.-s	v : o
29	o	o	4, cu, ci.-s	o
30	o	o	7, cu, cu.-s, h	o
31	o	o	o : 10, li.-sh.-r	o
Sep. 1	o	o	10	7 : o
2	o	m : o	o, h	o, h
3	o	o	o	o
4	o	o	o	4, cu, cu.-s, h : o
5	o	o	10, cu	o : 10
6	o	o	10, ci.-s	10, ci.-s : r
7	o	o	10	10 : t.-s, h.-r
8	s, N : o	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : l
9	o	o	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s : v
10	o	o	10, ci.-s, sc, r	7, ci.-s, sc : o, l
11	o	o	5, cu.-s, ci.-s	10, cu.-s, ci.-s : v
12	o	o	7, cu.-s, ci.-s	7, cu.-s, ci.-s : o
13	o	o	10, cu, ci.-cu, ci.-s, h	10, cu, ci-cu, ci.-s, h
14	o	s, P : o	v, cu.-s, ci.-s, li.-cl, h	v, cu.-s, ci.-s, li.-cl : 10
15	o	s, N : o	10, ci.-s, r	10, ci.-s, r : o
16	o	o : m	v, cu, ci.-cu, ci.-s, h	v : o
17	o	o	4	4 : o
18	s, P, N	s, P, N	10, ci.-s, r	10, ci.-s, r
19	o	o	10, ci.-s, r	10, ci.-s
20	o	o	3, cu, cu.-s, ci.-s : 7	7, f.-shs.-r : v
21	o	o	10, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
22	m : o	o	o	5, cu, cu.-s : 10, ci.-s
23	o	o	th.-h	th.-h
24	o	o	th.-f	5 : o
25	o	o	o, h	o, h
26	o	o	10, f	10, f
27	o	o	10, f	10, f
28	o	o	10, r	10, r : th.-r
29	o	o	5 : sh.-r	5 : sh.-r
30	o	o	5	5 : 10
Oct. 1	o	o	v	10, ci.-s
2	o	o	v, r	v, r, l
3	o	o	10, r	10 : o
4	o	o	10, h.-r	10, h.-r
5	o	o	10	10 : o
6	o	o	10, th.- r	10
7	o	o	v	v : o
8	o	o	10	10 : f
9	o	o	v	v : o, th.-f
10	o	o	10, r	10 : o
11	o	o	10	10 : o
12	o	o	o	o
13	o	o	o : 10	10 : v
14	o	o	10	10 : o
15	o	o	10	10
16	o	o	10	10 : o
17	o	o	o	o
18	o	o	o	4 : o
19	o	o	th.-f : 10	o
20	o	o	o	o : 5, ci.-s
21	o	o	10, f	10, f
22	o	o	10, fr.-r	10, fr.-r

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 23	..	29·555	60·5	46·7	52·1	47·3	68·0	44·3	50·1	49·6	4·8	9·5	2·6	+ 4·8	SW	SW; S	0·0	0·0	0·0	110	0·07
24	..	29·494	59·5	45·1	49·4	43·0	75·0	38·0	50·0	49·2	6·4	12·6	5·3	+ 2·2	SW	SW; S	1·0	0·0	0·0	135	0·09
25	..	29·208	48·0	43·4	45·2	41·3	52·0	47·9	50·3	48·7	3·9	5·3	1·8	— 1·8	S; N	NW; W	3·0	0·0	0·5	155	0·92
26	In Equator	28·970	50·8	36·4	43·7	38·9	53·5	29·0	49·1	46·5	4·8	7·6	1·6	— 3·1	WSW; SSE	SSE	6·0	0·0	0·8	155	0·46
27	Full. Apogee	28·873	47·0	36·5	41·6	38·5	52·3	29·8	47·8	45·5	3·1	6·4	1·3	— 5·2	SE; NNW	W; NW	2·0	0·0	0·3	130	0·17
28	..	29·317	49·5	42·7	46·0	39·7	49·5	38·7	47·1	45·0	6·3	7·2	0·0	— 0·7	NW	NW	3·0	0·0	0·4	10	0·01
29	..	29·542	48·0	35·3	41·0	35·7	54·5	28·3	45·7	43·7	5·3	8·7	3·5	— 5·7	NW; SW	ESE	1·0	0·0	0·0	135	0·20
30	..	29·545	61·0	44·0	52·6	45·8	65·5	36·5	46·2	44·9	6·8	8·9	3·9	+ 5·9	SW	SW	3·0	0·0	0·6	160	0·16
31	..	29·587	61·0	50·5	54·6	47·8	72·0	43·5	47·9	46·0	6·8	9·0	4·4	+ 7·9	SW	S	3·6	0·0	0·9	230	0·00
Nov. 1	..	29·614	62·1	50·5	57·2	53·0	72·0	43·8	47·6	46·3	4·2	7·6	3·5	+10·5	S	SW	4·8	0·0	1·0	190	0·00
2	Greatest Declination N.	29·447	60·7	53·6	56·8	53·4	60·0	48·3	47·1	47·3	3·4	5·9	2·8	+10·2	SW	SW	6·0	0·0	1·0	200	0·45
3	..	29·534	59·0	49·7	53·2	46·4	60·0	44·5	51·6	50·5	6·8	9·7	4·6	+ 6·6	SW	SW	3·0	0·0	0·7	150	0·28
4	..	29·686	58·0	41·4	50·3	43·2	65·0	33·2	51·4	50·4	7·1	10·8	4·3	+ 3·8	SW	SE	0·0	0·0	0·0	135	0·00
5	Last Qr.	29·296	63·8	47·2	56·2	47·3	67·0	35·8	51·2	50·5	8·9	10·7	5·3	+ 9·8	SE; S	S; WSW	6·0	0·0	1·7	195	0·01
6	..	29·711	60·2	43·0	51·2	43·4	65·5	35·5	51·0	50·5	7·8	12·4	4·8	+ 5·0	SW	SW	12·0	0·0	2·0	295	0·10
7	..	29·817	59·0	53·8	56·9	49·7	59·0	48·0	51·4	50·5	7·2	8·2	6·3	+10·9	SW	SW	7·5	1·5	4·4	295	0·20
8	..	29·976	62·5	53·0	58·3	52·8	67·5	47·5	52·6	51·1	5·5	6·3	4·9	+12·5	WSW	WSW	6·0	0·0	3·5	240	0·00
9	In Equator	30·025	60·7	52·8	55·9	51·5	65·0	53·2	53·5	51·7	4·4	8·1	4·2	+10·3	W; WSW	SW	2·5	0·0	0·1	130	0·00
10	..	29·915	54·8	43·0	47·8	40·3	68·0	43·0	53·0	51·9	7·5	9·5	3·6	+ 2·4	Calm; NE	NE; ENE	0·0	0·0	0·0	80	0·00
11	Perigee New	29·430	54·0	41·4	48·2	43·4	59·0	42·0	52·8	50·9	4·8	7·5	3·1	+ 3·0	ENE; SE	SE	2·0	0·0	0·1	140	0·27
12	..	29·448	54·9	44·1	46·7	41·9	58·0	46·0	52·1	49·2	4·8	6·4	0·0	+ 1·7	NE	ENE	9·6	0·0	3·3	225	0·82
13	..	29·702	49·2	43·0	44·7	41·0	55·0	46·0	50·1	47·5	3·7	7·9	0·0	— 0·1	E	Calm	7·0	0·0	0·9	160	0·01
14	..	29·196	54·0	44·3	48·7	45·4	58·0	41·0	48·5	47·3	3·3	7·0	3·0	+ 4·1	Calm	S	0·0	0·0	0·0	215	0·35
15	Greatest Declination S.	28·940	57·7	49·8	52·8	47·8	61·2	43·0	49·3	47·5	5·0	8·9	2·7	+ 8·4	SSE	SW; SE	0·0	0·0	0·0	70	0·32
16	..	28·801	60·0	50·6	53·0	49·8	67·0	46·2	50·1	48·2	3·2	9·9	2·0	+ 8·8	S	SSW	6·0	0·0	0·8	215	0·37
17	..	29·042	55·5	49·8	50·0	43·5	58·0	43·2	50·1	48·7	6·5	12·8	5·3	+ 6·0	S	S	5·0	0·0	0·9	225	0·04
18	First Qr.	29·344	49·8	39·7	45·1	36·8	57·0	40·0	49·0	46·5	8·3	13·2	4·8	+ 1·2	SW	SW	0·0	0·0	0·0	85	0·28
19	..	29·514	53·6	36·7	45·8	40·5	58·5	30·7	47·1	45·5	5·3	7·9	4·4	+ 1·9	SE	SW	1·3	0·0	0·0	165	0·25
20	..	29·278	54·5	45·0	49·9	46·2	57·0	38·5	46·4	45·5	3·7	5·5	0·0	+ 6·1	SW	SE; SSW	1·0	0·0	0·0	115	0·16
21	..	28·997	55·0	46·3	50·8	46·8	56·0	40·0	46·9	46·0	4·0	5·4	3·1	+ 7·0	SSW; SE	Calm; N	1·5	0·0	0·0	60	0·15
22	In Equator	28·978	50·0	44·4	45·4	41·5	55·0	44·8	47·1	46·1	3·9	5·8	3·7	+ 1·7	N	NE; N	2·5	0·0	0·2	115	0·11
23	..	29·258	46·0	34·0	39·6	35·8	52·0	29·0	46·7	45·0	3·8	6·0	3·7	— 4·0	N; SW	SW; E	2·5	0·0	0·2	165	0·13
24	Apogee	29·466	48·2	41·4	45·8	40·0	54·0	33·0	45·9	43·9	5·8	7·9	3·9	+ 2·3	NNE	N	4·0	0·0	0·4	70	0·05
25	..	29·827	50·0	32·6	42·2	36·0	53·5	26·8	44·9	43·0	6·2	8·1	4·3	— 1·2	Calm	Calm; SE	7·0	0·0	0·5	175	0·02
26	Full	29·363	57·0	45·0	52·0	48·0	57·5	34·0	47·1	43·9	4·0	5·4	4·0	+ 8·8	S	SSW	10·0	0·0	4·2	240	1·00
27	..	29·684	51·0	40·6	44·3	36·9	58·0	35·4	48·0	45·3	7·4	11·6	4·8	+ 1·3	SW	SW	0·0	0·0	0·0	140	0·00
28	..	29·446	50·0	38·5	43·5	36·8	55·0	30·0	45·8	44·1	6·7	8·4	4·6	+ 0·7	S	SW; W	5·0	0·0	0·6	160	0·29
29	Greatest Declination N.	29·468	41·0	33·3	35·7	32·6	50·5	27·5	44·4	42·0	3·1	5·8	2·3	— 6·9	Calm	NNE	2·0	0·0	0·2	130	0·00
30	..	29·753	41·3	35·1	38·0	31·7	53·0	29·0	42·6	40·6	6·3	7·7	5·5	— 4·5	N	N	3·5	0·0	0·3	155	0·00
Dec. 1	..	29·796	46·0	31·7	40·6	34·1	50·0	25·0	40·9	40·2	6·5	10·4	2·8	— 1·8	Calm	S	0·0	0·0	0·0	155	0·01
2	..	29·776	48·2	41·5	44·2	37·8	54·4	28·8	41·1	40·2	6·4	9·2	4·1	+ 1·9	SW	SW	0·0	0·0	0·0	135	0·03
3	..	29·930	47·0	37·0	42·7	36·7	55·0	30·2	41·4	40·8	6·0	8·1	4·5	+ 0·5	SW	SSW	0·0	0·0	0·0	140	0·00
4	Last Qr.	29·802	55·2	45·7	51·8	46·0	58·0	32·5	43·0	40·8	5·8	6·4	5·0	+ 9·7	SSW	SW	5·0	0·0	1·8	290	0·00
5	..	29·795	55·5	51·3	53·1	48·3	58·0	46·0	46·2	43·0	4·8	6·8	2·6	+11·1	SW	SW	6·0	0·0	1·6	190	0·03
6	In Equator	29·681	54·5	45·8	48·9	43·4	55·0	47·2	48·0	45·0	5·5	8·4	3·9	+ 6·9	SW	SW	2·4	0·0	0·4	120	0·15
7	..	29·531	50·0	44·3	46·6	43·1	54·0	40·0	48·0	46·5	3·5	5·1	2·5	+ 7·7	S	SW; Calm	0·0	0·0	0·0	35	0·10
8	..	29·173	49·7	43·5	46·4	42·0	55·0	42·5	48·4	47·7	4·4	6·9	3·1	+ 4·5	Calm	SW	6·0	0·0	0·6	185	0·19
9	Perigee	29·475	50·8	39·3	45·5	39·9	53·5	34·0	47·6	45·7	5·6	7·9	3·6	+ 3·7	SW	SW; S	5·0	0·0	0·7	160	0·11
10	..	29·442	54·5	49·8	52·1	45·9	59·0	35·5	47·1	45·5	6·2	7·8	4·2	+10·4	SSW	SW	5·0	0·0	1·2	250	0·02
11	New	29·542	57·1	49·0	52·9	45·9	59·0	47·0	47·6	46·5	7·0	10·8	3·0	+11·3	SW	S by E	5·5	0·0	2·2	260	0·01
12	Greatest Declination S.	29·344	54·5	48·7	51·9	45·3	57·0	45·0	47·5	46·7	6·6	9·2	4·2	+10·4	SSE	S; SW	5·0	0·0	2·2	150	0·03
13	..	29·342	54·5	46·0	51·0	46·1	57·5	40·5	48·2	47·3	4·9	6·6	3·0	+ 9·6	Calm	S	0.0	0·0	0·0	160	0·17
14	..	29·277	55·5	45·7	50·8	44·5	60·0	42·5	48·5	47·7	6·3	8·6	1·2	+ 9·5	S	S	2·0	0·0	0·2	150	0·06
15	..	28·914	53·0	44·7	49·0	43·3	58·0	39·2	48·5	47·1	5·7	9·2	3·5	+ 7·9	S	SW	6·0	0·0	1·6	230	0·17
16	..	29·241	51·0	40·7	47·1	40·7	56·8	34·0	47·5	45·5	6·4	9·7	4·6	+ 6·2	SW	SW	7·5	0·0	1·3	310	0·09
17	..	29·063	53·0	45·2	49·0	40·2	57·0	39·0	46·4	45·5	8·8	10·7	5·3	+ 8·3	SW	SW	10·0	0·0	3·0	210	0·07
18	First Qr.	30·044	50·0	35·7	41·0	34·8	58·8	30·3	46·7	45·1	6·2	8·2	4·4	+ 0·7	NNW	Calm	9·6	0·0	0·9	100	0·00
19	In Equator	29·979	52·0	38·3	47·2	41·3	53·0	39·3	45·3	44·2	5·9	6·6	4·6	+ 7·2	S	S	4·0	0·0	1·5	215	0·00
20	..	29·693	56·0	44·5	51·4	43·6	57·0	38·5	45·3	44·2	7·8	8·8	5·7	+11·8	SSW	SSW	12·0	0·0	2·3	210	0·00

MONTH and DAY, 1852.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Oct. 23	0	0	10	10 : 0
24	0	0	10, fr.-r	v : 10
25	0	0	10, r	10, r
26	0	0	10, r	10, r : 0
27	0	0	10, r	10, r
28	0	0	10	10
29	0	0	10	10 : h.-r
30	0	0	5	v : 10
31	0	0	v, ci.-s, sc	v, ci.-s, sc
Nov. 1	0	0	10, ci.-s	10, ci.-s
2	0	0	10, ci.-s	10, ci.-s
3	0	0	10, r	10, r : 5
4	0	0	5, r	5 : 0
5	0	0	10	3
6	0	0	0	10
7	0	0	10, r	10
8	0	0	10	10
9	0	0	10, ci.-cu, ci.-s	v, ci.-cu, ci.-s : 10
10	0	0	10, ci.-cu, ci.-s	v, ci.-cu, ci.-s : 10
11	0	0	10, r	v : 9, a
12	0	0	10, ci.-s, r	10, ci.-s, r
13	0	0	10	10 : r
14	0	0	10, r	10, r
15	0	0	10, ci.-cu, ci.-s, li.-cl	v, ci.-cu, ci.-s : 10, r
16	0	0	7	7, shs.-r : v
17	0	0	5, ci, sc, li.-cl	5, ci, sc, li.-cl
18	0	0	10, r : 0	0
19	0	0	10	10 : h.-r
20	0	0	10, r	10, r
21	0	0	10, r	10, r
22	0	0	10, r	10, r
23	0	0	10	10 : h.-r
24	0	0	10, r	10, r
25	0	0	5	5 sh.-r : 0
26	0	0	10, h, r	10, h.-r
27	0	0	4	4 : 0
28	0	0	10, fr.-shs.	10, fr.-shs
29	0	0	5, ci.-s : 10	10
30	0	0	0	10, ci.-s, li.-cl, : m.-r
Dec. 1	0	0	5, s, ci, li.-cl	5 : 10
2	0	0	4, ci.-cu, ci.-s : 10	10, ci.-cu, ci.-s, li.-cl
3	0	0	10, ci.-s	10, ci.-s
4	0	0	10, ci.-s : r	10, ci.-s
5	0	0	10, m.-r	10, m.-r
6	0	0	10, fr.-r	10
7	0	0	10, fr.-r	10, fr.-r
8	0	0	10, r	10 : 7 : 0
9	0	0	0 : v	v, cu.-s, ci.-s, li.-cl
10	0	0	10, ci.-s, li.-cl	10, ci.-s, li.-cl : 0 : 10, m.-r
11	0	0	10, r	0
12	0	0	10, ci, ci.-s, m.-r	10, ci, ci.-s, m.-r
13	0	0	10, ci.-s, fr.-r	10, ci.-s, fr.-r
14	0	0	0	10, ci, ci.-s
15	0	0	10, cu.-s, ci.-s	5, cu.-s, ci.-s, : 0
16	0	0	10, s, ci.-s, sc	10, s, ci.-s, sc : h.-r, l, t
17	0	0	v, ci.-s, sc, shs.-r	v : 0 : 10, l
18	0	0	0	0, f : 10, s, ci.-s
19	0	0	10	10
20	0	0	10	10 : 0

MONTH and DAY, 1852.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9 o'clock next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 10 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's. Horizontal Movement of the Air on each day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Dec. 21	Apogee	29·917	50·0	40·5	44·9	40·5	51·5	32·8	46·0	44·4	4·4	6·4	2·9	+ 5·6	WSW	SW	0·0	0·0	0·0	45	0·00
22	..	29·666	49·8	40·1	45·7	41·6	52·0	32·0	46·0	44·6	4·1	6·1	3·4	+ 6·7	Calm	Calm	0·0	0·0	0·0	45	0·05
23	..	29·668	45·7	37·2	39·8	34·8	50·0	36·6	45·3	44·4	5·0	6·3	4·0	+ 1·1	ESE	ESE	0·0	0·0	0·0	35	0·00
24	..	29·660	54·0	37·5	49·3	43·8	57·0	34·7	45·8	44·4	5·5	6·6	4·4	+11·0	Calm; S	SW	5·0	0·0	0·6	140	0·00
25	..	29·639	55·9	45·4	49·0	38·7	58·5	43·0	46·2	45·1	10·3	13·0	3·7	+10·9	SW	SW	14·5	0·0	2·6	170	0·00
26	Full	29·488	50·8	43·3	49·1	34·1	54·0	38·0	48·0	45·0	5·0	9·0	3·1	+11·2	SW	SSW	12·0	0·0	2·0	500	0·02
27	Greatest Declination N.	29·139	56·0	42·5	50·2	39·1	58·8	42·0	48·5	45·0	11·1	14·1	7·0	+12·5	SW	SW; SSW	24·0	0·0	10·0	215	0·40
28	..	29·523	48·5	39·8	43·2	37·0	56·5	37·2	48·0	44·4	6·2	11·7	4·1	+ 5·7	SSW	SW	0·0	0·0	0·0	75	0·00
29	..	29·623	50·8	35·0	45·4	38·7	58·0	28·7	..	43·2	6·7	9·0	5·0	+ 8·1	SSW; SSE	SW	0·0	0·0	0·0	240	0·01
30	..	29·810	53·0	45·9	49·2	39·7	54·2	39·8	..	43·5	9·5	11·0	6·4	+12·0	SW	SW	0·0	0·0	0·0	170	0·00
31	..	30·027	50·8	40·2	46·2	39·3	55·0	34·5	..	43·0	6·9	9·2	5·0	+ 9·2	SW	SW	0·0	0·0	0·0	165	0·00

Dec. 29 to 31. The clock of Osler's Anemometer was under repair: the direction of the wind was determined by shifting the traversing board

MONTH and DAY, 1852.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Dec. 21	0	0	0	10 : 0
22	0	0	10, m.-r	10, m.-r
23	0	0	10	10
24	0	0	10	10
25	0	0	0	0 : 10
26	0	0	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 10, m.-r
27	0	0	10, h.-r	0 : 10
28	0	0	9, ci.-cu, ci.-s	10, ci.-cu, ci.-s : 0
29	0	0	10	10, m.-r : v
30	0	0	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 0
31	0	0	v, ci.-cu, s	v, ci.-cu, s

MAXIMA AND MINIMA READINGS OF THE BAROMETER.

The following table contains the highest and lowest readings of the Barometer, reduced to 32° Fahrenheit, extracted from the observations taken by the eye. There is good reason to believe that these readings do not differ much from the true maxima and minima, although the times may sometimes be sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1852.		Reading.	Approximate Mean Solar Time, 1852.		Reading.	Approximate Mean Solar Time, 1852.		Reading.	Approximate Mean Solar Time, 1852.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	4. 21. 0	30·106	January	3. 9. 0	29·481	July	22. 21. 0	30·016	July	17. 0. 0	29·629
	7. 21. 0	29·728		6. 21. 0	29·447		30. 21. 0	29·958		26. 3. 0	29·522
	10. 0. 0	29·623		8. 21. 0	29·100	August	10. 9. 0	29·523	August	3. 9. 0	29·151
	17. 22. 0	30·241		12. 3. 0	28·925		15. 21. 0	29·830		11. 9. 0	29·010
	20. 21. 0	29·857		20. 3. 0	29·578		22. 21. 0	30·133		17. 9. 0	29·593
	23. 21. 0	29·721		22. 9. 0	29·188		27. 0. 0	30·018		25. 3. 0	29·774
	25. 21. 0	29·946		24. 9. 0	29·470	September	1. 21. 0	30·124		28. 9. 0	29·877
	28. 21. 0	29·975		27. 3. 0	29·374		13. 21. 0	29·821	September	10. 3. 0	29·668
February	3. 9. 0	30·008		31. 3. 0	29·592		16. 21. 0	29·726		15. 9. 0	29·273
	7. 0. 0	30·044	February	5. 9. 0	29·545		23. 21. 0	30·351		18. 9. 0	29·138
	11. 9. 0	30·007		8. 21. 0	29·020		30. 9. 0	29·552		28. 9. 0	28·884
	14. 9. 0	30·088		12. 21. 0	29·504	October	3. 9. 0	29·712	October	1. 21. 0	29·237
	22. 21. 0	30·531		17. 21. 0	29·491		19. 0. 0	30·358		4. 21. 0	28·898
March	5. 21. 0	30·655		28. 3. 0	29·485		28. 21. 0	29·635		26. 21. 0	28·743
	14. 21. 0	30·338	March	11. 3. 0	30·087		31. 9. 0	29·706		29. 9. 0	29·368
April	3. 0. 0	30·207		29. 21. 0	29·095	November	3. 21. 0	29·731	November	2. 3. 0	29·388
	20. 9. 0	30·024	April	17. 22. 0	29·632		8. 21. 0	30·069		5. 3. 0	29·249
	27. 21. 0	30·038		22. 9. 0	29·704		18. 21. 0	29·625		16. 0. 0	28·750
May	5. 21. 0	30·122		30. 3. 0	29·381		22. 21. 0	29·408		22. 3. 0	28·934
	14. 21. 0	29·973	May	13. 21. 0	29·444		25. 3. 0	29·916		23. 9. 0	28·989
	22. 22. 0	29·932		17. 21. 0	29·485		27. 9. 0	29·756		26. 3. 0	29·341
June	4. 21. 0	29·856		29. 9. 0	29·486	December	3. 0. 0	29·953		28. 9. 30	29·378
	12. 9. 0	29·612	June	7. 3. 0	29·342		11. 0. 0	29·559	December	8. 3. 0	29·161
	24. 9. 0	29·949		14. 0. 0	29·081		18. 9. 0	30·120		14. 21. 0	28·827
July	2. 21. 0	30·056		26. 0. 0	29·595		20. 21. 0	29·951		20. 3. 0	29·681
	10. 22. 0	30·019	July	5. 21. 0	29·705		30. 21. 0	30·061		26. 21. 0	29·019

READINGS OF THERMOMETERS SUNK IN THE GROUND.

(I.)—Reading of a Thermometer whose bulb is sunk to the depth of 25·6 feet (24 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·45	*S*	50·10	49·47	48·84	48·64	48·82	*S*	50·25	51·25	52·07	52·22
2	51·43	50·84	50·07	49·44	*S*	48·64	48·83	49·37	50·35	51·32	52·09	52·22
3	51·44	50·75	50·04	49·42	48·82	48·63	48·85	49·39	50·40	*S*	52·08	52·23
4	*S*	50·73	50·03	*S*	48·80	48·64	*S*	49·41	50·43	51·34	52·13	52·25
5	51·40	50·72	50·02	49·38	48·79	48·65	48·85	49·42	*S*	51·45	52·12	*S*
6	51·38	50·67	50·00	49·36	48·77	*S*	48·87	49·46	50·48	51·44	52·15	52·22
7	51·37	50·66	*S*	49·33	48·77	48·65	48·87	49·48	50·49	51·48	*S*	52·17
8	51·35	*S*	49·96	49·32	48·77	48·66	48·89	*S*	50·54	51·49	52·15	52·19
9	51·30	50·59	49·94	Good Friday	*S*	48·64	48·90	49·53	50·58	51·53	52·15	52·15
10	51·27	50·55	49·90	49·26	48·74	48·63	48·92	49·57	50·60	*S*	52·15	52·15
11	*S*	50·54	49·88	*S*	48·75	48·63	*S*	49·58	50·64	51·58	52·16	52·18
12	51·27	50·52	49·86	49·22	48·70	48·64	48·93	49·61	*S*	51·62	52·16	*S*
13	51·23	50·47	49·87	49·22	48·70	*S*	48·98	49·65	50·70	51·64	52·22	52·15
14	51·24	50·45	*S*	49·22	48·70	48·66	48·97	49·70	50·70	51·65	*S*	52·12
15	51·22	*S*	49·75	49·18	48·70	48·67	49·00	*S*	50·75	51·68	52·22	52·09
16	51·19	50·44	49·72	49·13	*S*	48·67	49·00	49·75	50·75	51·79	52·28	52·08
17	51·15	50·43	49·74	49·13	48·67	48·68	49·02	49·80	50·82	*S*	52·25	52·08
18	*S*	50·42	49·73	*S*	48·67	48·68	*S*	49·80	50·84	51·74	Rot	52·07
19	51·10	50·35	49·72	49·07	48·66	48·69	49·05	49·85	*S*	51·75	52·24	*S*
20	51·10	50·32	49·72	49·03	48·67	*S*	49·10	49·87	50·92	51·78	52·25	52·08
21	51·05	50·30	*S*	49·05	48·64	48·71	49·12	49·88	50·93	51·80	*S*	52·05
22	51·04	*S*	49·74	49·05	48·68	48·72	49·14	*S*	50·98	51·82	52·26	52·03
23	51·04	50·27	49·68	49·04	*S*	48·73	49·16	49·98	51·03	51·82	52·25	52·00
24	50·98	50·25	49·65	49·00	48·67	48·74	49·18	50·00	51·06	*S*	52·24	51·99
25	*S*	50·21	49·57	*S*	48·67	48·75	*S*	50·06	51·10	51·83	52·23	Christ. Day
26	50·95	50·19	49·57	48·98	48·65	48·75	49·22	50·15	*S*	51·88	52·28	*S*
27	50·97	50·17	49·55	48·94	48·65	*S*	49·24	50·15	51·14	51·92	52·29	51·95
28	50·87	50·15	*S*	48·90	48·65	48·78	49·27	50·18	51·15	51·97	*S*	51·94
29	50·86	*S*	49·54	48·88	48·64	48·78	49·28	*S*	51·19	51·99	52·25	51·93
30	50·86		49·52	48·85	*S*	48·80	49·30	50·22	51·24	52·03	52·22	51·93
31	50·83		49·47		48·64		49·33	50·24		*S*		51·93

The letter *S* denotes that the day was Sunday.

April 9. Good Friday: the instruments were not read.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01, than the monthly mean of all the observations; in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12·8 feet (12 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·38	*S*	46·74	45·90	46·57	48·40	50·35	*S*	55·64	56·12	54·35	52·63
2	49·30	47·73	46·69	45·90	*S*	48·47	50·40	53·70	55·75	56·08	54·28	52·60
3	49·28	47·57	46·67	45·90	46·64	48·54	50·50	53·85	55·80	*S*	54·14	52·55
4	*S*	47·54	46·62	*S*	46·67	48·62	*S*	53·98	55·82	56·02	54·10	52·62
5	49·15	47·50	46·57	45·93	46·67	48·69	50·65	54·10	*S*	56·03	53·97	*S*
6	49·10	47·45	46·55	45·95	46·76	*S*	50·73	54·17	55·85	56·00	53·94	52·49
7	49·05	47·43	*S*	45·92	46·83	48·80	50·78	54·28	55·83	55·98	*S*	52·38
8	49·00	*S*	46·48	45·95	46·90	48·87	50·87	*S*	55·92	55·90	53·82	52·33

(II.)—Reading of a Thermometer whose bulb is sunk to the depth of 12 French feet—*continued.*

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
9	48·88	47·30	46·42	...	*S*	48·90	50·97	54·45	55·95	55·88	53·75	52·20
10	48·83	47·27	46·35	45·96	47·00	48·94	51·04	54·57	56·00	*S*	53·72	52·15
11	*S*	47·27	46·32	*S*	47·03	49·00	*S*	54·61	56·04	55·80	53·70	52·16
12	48·70	47·24	46·38	46·00	47·06	49·08	51·19	54·65	*S*	55·75	53·68	*S*
13	48·60	47·17	46·35	46·02	47·12	*S*	51·30	54·74	56·12	55·70	53·49	52·03
14	48·55	47·19	*S*	46·06	47·18	49·25	51·44	54·88	56·08	55·61	*S*	51·92
15	48·46	*S*	46·20	46·05	47·20	49·33	51·57	*S*	56·12	55·54	53·44	51·85
16	48·35	47·20	46·15	46·06	*S*	49·39	51·70	55·04	56·14	55·45	53·43	51·77
17	48·22	47·20	46·10	46·10	47·33	49·45	51·80	55·13	56·18	*S*	53·32	51·80
18	*S*	47·18	46·10	*S*	47·37	49·48	*S*	55·18	56·16	55·33	Not.	51·70
19	48·14	47·10	45·97	46·15	47·45	49·57	52·07	55·28	*S*	55·23	53·27	*S*
20	48·11	47·09	46·00	46·20	47·48	*S*	52·23	55·30	56·25	55·20	53·24	51·80
21	48·06	47·06	*S*	46·25	47·54	49·68	52·37	55·33	56·20	55·10	*S*	51·62
22	48·04	*S*	46·03	46·32	47·70	49·75	52·52	*S*	56·28	55·04	53·16	51·57
23	48·02	47·00	46·00	46·35	*S*	49·82	52·65	55·38	56·30	54·94	53·09	51·51
24	47·94	46·98	45·93	46·39	47·82	49·88	52·80	55·40	56·30	*S*	53·04	51·47
25	*S*	46·93	45·93	*S*	47·90	49·95	*S*	55·47	56·30	54·75	53·00	Christ. Day.
26	47·85	46·93	45·95	46·48	47·95	49·98	53·02	55·52	*S*	54·70	52·97	*S*
27	47·80	46·86	45·95	46·50	48·02	*S*	53·17	55·55	56·23	54·59	52·85	51·35
28	47·77	46·83	*S*	46·44	48·10	50·12	53·31	55·55	56·15	54·54	*S*	51·32
29	47·70	*S*	45·95	46·48	48·15	50·18	53·40	*S*	56·18	54·40	52·73	51·24
30	47·74		45·94	46·54	*S*	50·25	53·50	55·60	56·16	54·44	52·64	51·20
31	47·67		45·90		48·34		53·65	55·60		*S*		51·22

The letter *S* denotes that the day was Sunday.

April 9. Good Friday.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to have the same value in three cases as the monthly mean of all the readings; in five cases it was in excess by 0°·01; in seven cases the excess amounted to 0°·02; in four cases to 0°·03; and in one case to 0°·04.

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6·4 feet (6 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·35	*S*	44·10	44·72	47·80	51·45	54·58	*S*	59·55	58·00	52·81	50·65
2	46·20	45·11	44·08	44·82	*S*	51·47	54·72	59·50	59·48	57·90	52·79	50·57
3	46·10	44·97	44·05	44·96	48·03	51·47	54·90	59·60	59·40	*S*	52·59	50·38
4	*S*	45·05	44·00	*S*	48·12	51·55	*S*	59·70	59·40	57·80	52·62	50·38
5	45·80	45·12	43·93	45·08	48·19	51·65	55·27	59·80	*S*	56·95	52·70	*S*
6	45·70	45·17	43·89	45·20	48·30	*S*	55·47	59·50	59·48	56·85	52·83	50·12
7	45·60	45·25	*S*	45·24	48·30	51·80	55·68	59·40	59·42	56·70	*S*	50·08
8	45·50	*S*	43·70	45·35	48·40	51·93	56·00	*S*	59·40	56·50	52·87	50·08
9	45·39	45·40	43·60	Not.	*S*	52·03	56·40	59·30	59·40	56·35	52·88	49·95
10	45·30	45·40	43·50	45·55	48·52	52·20	56·75	59·30	59·38	*S*	52·92	50·03
11	*S*	45·38	43·50	*S*	48·68	52·57	*S*	59·20	59·48	55·90	52·90	50·12
12	45·27	45·37	43·53	45·75	48·78	52·66	57·38	59·20	*S*	55·68	52·80	*S*
13	45·18	45·38	43·65	45·88	48·97	*S*	57·80	59·20	59·44	55·46	52·82	50·12
14	44·97	45·30	*S*	46·02	49·10	52·72	57·90	59·20	59·40	55·13	*S*	50·08
15	44·97	*S*	43·70	46·12	49·27	52·70	58·10	*S*	59·35	55·08	52·57	50·10
16	44·95	45·08	43·72	46·29	*S*	52·70	58·30	59·20	59·30	54·90	52·38	50·08
17	45·10	45·00	43·78	46·50	49·48	52·76	58·80	59·20	59·34	*S*	52·35	50·15
18	*S*	45·01	43·80	*S*	49·67	52·80	*S*	59·00	59·30	54·70	Not.	50·09
19	45·40	44·88	43·80	46·80	49·80	52·92	59·00	58·95	*S*	54·53	52·30	*S*

(III.)—Reading of a Thermometer whose bulb is sunk to the depth of 6 French feet—*continued.*

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
20	45·47	44·90	43·90	46·87	50·04	*S*	59·10	58·90	59·25	54·50	52·24	50·08
21	45·47	44·90	*S*	47·02	50·19	53·18	59·10	58·90	59·00	54·38	*S*	49·98
22	45·40	*S*	44·05	47·10	50·40	53·29	59·20	*S*	59·00	54·25	51·95	49·90
23	45·47	44·72	44·10	47·18	*S*	53·42	59·20	59·00	58·98	54·10	51·83	49·79
24	45·40	44·60	44·10	47·20	50·78	53·55	59·20	59·05	58·95	*S*	51·78	49·72
25	*S*	44·47	44·15	*S*	50·93	53·65	*S*	59·20	59·00	53·90	51·68	Christ. Day.
26	45·38	44·38	44·35	47·42	51·00	53·73	59·20	59·40	*S*	53·70	51·66	*S*
27	45·41	44·30	44·45	47·50	51·13	*S*	59·30	59·40	58·85	53·31	50·95	49·50
28	45·20	44·20	*S*	47·57	51·27	54·10	59·30	59·40	58·80	53·32	*S*	49·45
29	45·20	*S*	44·60	47·67	51·30	54·27	59·30	*S*	58·00	53·18	50·73	49·40
30	45·20		44·65	47·77	*S*	54·45	59·30	59·50	58·00	53·06	50·70	49·40
31	45·10		44·65		51·42		59·30	59·50		*S*		49·40

The letter *S* denotes that the day was Sunday.

April 9. Good Friday.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be higher than the monthly mean reading, as found from all the observations, by 0°·03.

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3·2 feet (3 French feet) below the surface of the soil, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	41·98	*S*	40·70	44·00	48·70	52·70	58·00	*S*	63·40	57·20	50·50	46·88
2	41·65	42·54	40·58	44·15	*S*	52·83	58·12	65·80	63·30	56·80	51·00	46·50
3	41·40	42·90	40·66	44·15	48·78	53·08	58·38	65·80	63·20	*S*	51·65	46·50
4	*S*	43·10	40·47	*S*	48·48	53·25	*S*	65·80	63·22	55·95	51·92	46·63
5	41·60	43·27	40·22	44·15	48·55	53·40	59·60	65·00	*S*	54·92	51·60	*S*
6	41·35	43·69	39·96	44·28	48·50	*S*	60·60	64·40	63·30	54·90	51·72	47·50
7	41·19	44·00	*S*	44·56	48·68	54·20	61·60	64·10	63·11	54·55	*S*	47·87
8	41·38	*S*	39·67	44·90	48·96	54·55	62·50	*S*	63·00	53·95	51·80	48·03
9	41·50	43·80	39·87	Not.	*S*	54·75	63·10	63·58	62·80	53·52	52·15	47·90
10	41·55	43·77	40·19	45·30	49·98	55·10	63·45	63·38	62·55	*S*	52·51	47·78
11	*S*	43·30	40·58	*S*	50·45	55·00	*S*	63·00	62·42	52·60	52·70	48·15
12	41·20	42·67	40·74	45·53	50·49	54·48	63·95	62·57	*S*	52·60	51·88	*S*
13	41·73	42·12	41·00	45·90	50·60	*S*	64·30	62·10	61·85	52·50	51·57	48·42
14	42·18	41·78	*S*	46·40	50·80	54·08	64·40	62·00	61·30	52·39	*S*	48·45
15	42·67	*S*	41·00	46·80	50·90	54·33	64·80	*S*	60·93	52·42	51·68	48·50
16	43·20	41·58	41·15	47·20	*S*	54·57	64·80	62·05	60·55	52·49	50·92	48·40
17	43·60	41·85	41·40	47·50	51·50	54·90	65·20	62·10	60·22	*S*	50·90	48·20
18	*S*	42·44	41·55	*S*	52·00	55·03	*S*	62·40	59·55	52·30	Not.	48·03
19	43·19	42·57	41·60	47·30	52·37	55·22	65·50	62·70	*S*	52·12	50·50	*S*
20	42·62	42·10	41·60	46·90	52·85	*S*	65·70	62·70	59·02	52·02	49·80	47·70
21	42·66	41·55	*S*	46·85	53·00	55·63	65·70	62·80	58·70	51·79	*S*	47·67
22	42·70	*S*	42·10	47·00	53·30	55·90	65·40	*S*	58·47	51·70	49·82	47·45
23	43·02	40·87	42·45	47·28	*S*	56·00	65·40	62·95	58·00	51·98	49·57	47·20
24	42·68	40·67	43·00	47·60	53·30	56·23	65·40	63·05	57·90	*S*	49·30	47·17
25	*S*	40·60	43·10	*S*	53·38	56·60	*S*	63·11	57·90	51·92	48·95	Christ. Day.
26	42·40	40·62	43·20	48·02	53·50	56·95	65·50	63·10	*S*	51·90	48·64	*S*
27	42·59	40·66	43·22	48·00	53·48	*S*	65·70	63·35	57·93	50·80	48·46	47·10
28	42·46	40·58	*S*	48·10	53·50	57·58	65·70	63·50	57·83	50·33	*S*	47·42
29	42·35	*S*	42·80	48·10	53·50	57·68	65·70	*S*	57·80	50·10	47·86	47·19
30	41·97		43·00	48·35	*S*	57·87	65·70	63·78	57·54	49·98	47·29	46·80
31	41·85		44·55		52·70		65·80	63·65		*S*		46·92

The letter *S* denotes that the day was Sunday.

April 9. Good Friday.

November 18. The instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting Sundays and a few other days). During that interval of time, the monthly mean reading at noon, in the months from April to September, was found to be 0°·08 higher than the mean for the same months from all the observations, and in the remaining months the excess was 0°·03.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the box which covers the tops of the deep-sunk Thermometers, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	36·5	*S*	40·5	46·0	51·5	56·5	63·0	*S*	64·0	53·0	55·0	41·0
2	38·0	49·2	40·5	45·0	*S*	57·5	63·5	71·0	64·5	54·0	57·3	45·0
3	41·0	44·8	38·0	45.0	49·3	56·5	66·0	68·0	66·5	*S*	54·0	44·0
4	*S*	45·0	38·0	*S*	50·7	57·0	*S*	65·0	76·8	51·5	51·5	50·0
5	38·0	50·5	36·0	49·0	52·0	59·5	77·0	65·0	*S*	53·5	55·4	*S*
6	42·0	47·0	38·0	47·0	52·5	*S*	77·0	64·0	75·8	50·0	51·1	51·0
7	45·5	43·0	*S*	47·0	53·0	61·0	75·0	65·0	61·8	49·0	*S*	48·0
8	43·5	*S*	43·0	48·5	58·0	62·0	73·0	*S*	63·5	47·4	58·0	48·2
9	39·0	44·0	43·0	Good Friday	*S*	59·0	75·0	64·5	63·8	46·3	57·0	46·0
10	38·0	40·0	42·0	47·0	59·0	56·0	73·0	64·5	64·0	*S*	52·2	51·0
11	*S*	39·0	41·0	*S*	53·5	54·0	*S*	62·0	63·0	50·4	50·0	52·3
12	48·0	38·0	41·0	49·5	53·5	52·0	68·0	59·5	*S*	50·2	50·5	*S*
13	42·8	38·0	42·0	50·5	57·0	*S*	73·0	63·0	60·8	51·2	48·4	52·7
14	48·0	39·0	*S*	54·5	55·0	57·5	73·0	64·0	58·0	51·2	*S*	53·0
15	50·0	*S*	41·5	52·2	56·2	59·0	75·5	*S*	59·0	51·5	53·0	50·0
16	48·0	43·0	44·0	48·8	*S*	59·0	73·5	64·0	58·0	51·3	53·7	47·0
17	44·8	48·0	43·5	48·5	58·0	59·0	72·5	66·0	55·2	*S*	53·0	48·5
18	*S*	44·0	42·0	*S*	61·0	58·0	*S*	66·5	55·9	50·5	Xmas.	44·2
19	42·0	39·0	43·5	46·6	58·0	60·0	69·0	65·0	*S*	49·0	45·3	*S*
20	46·0	37·0	40·3	48·4	61·0	*S*	69·5	64·0	58·5	50·0	50·5	50·0
21	43·0	36·0	*S*	50.0	58·0	62·0	69·0	63·6	63·5	50·3	*S*	47·3
22	44·0	*S*	49·5	53·8	56·5	60·5	69·5	*S*	53·5	53·5	48·8	46·8
23	42·5	39·4	48·5	56·0	*S*	62·0	69·8	66·0	52·5	57·0	40·0	44·0
24	43·0	39·5	48·0	53·0	55·0	63·0	73·0	66·0	57·0	*S*	47·8	51·2
25	*S*	40·0	44·0	*S*	58·0	63·0	*S*	66·0	59·5	49·0	43·7	Christ. Day
26	43·8	41·0	44·0	53·0	54·0	61·5	68·5	67·5	*S*	47·5	51·8	*S*
27	44·5	40·4	42·0	48·8	54·0	*S*	70·5	67·8	57·5	45·5	47·2	50·0
28	39·0	43·0	*S*	53·0	53·5	62·3	70·0	66·0	58·0	47·8	*S*	45·4
29	39·0	*S*	47·0	53·0	53·0	62·5	70·0	*S*	57·0	45·0	41·2	45·0
30	45·5		51·5	54·0	*S*	63·0	69·0	68·0	55·0	50·7	43·0	48·8
31	40·5		48·0		50·5		70·5	63·0		*S*		46·8

The letter *S* denotes that the day was Sunday.

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers, whose bulb is placed on a level with their scales, at Noon on every Day generally, except Sundays.

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	34·0	*S*	46·8	50·0	51·3	62·0	66·5	*S*	66·5	54·0	59·5	45·0
2	39·0	52·0	41·0	50·0	*S*	62·5	68·0	75·5	73·5	59·0	59·5	45·5
3	43·0	46·5	40·8	51·5	54·5	58·0	73·0	66·8	74·0	*S*	57·0	44·5
4	*S*	47·0	42·0	*S*	56·8	62·5	*S*	65·3	74·5	52·5	56·5	53·5
5	39·5	53·0	41·0	58·0	58·8	63·0	88·0	68·0	*S*	55·5	58·0	*S*
6	45·0	47·0	44·8	53·5	57·0	*S*	86·5	64·5	69·1	47·5	53·5	50·1
7	47·0	46·4	*S*	47·0	62·5	64·5	83·0	68·0	59·5	50·6	*S*	49·0
8	47·0	*S*	49·0	52·5	69·5	66·5	83·5	*S*	65·8	44·5	61·0	47·3
9	39·0	42·5	50·0	Good Friday	*S*	60·0	86·0	65·5	66·0	50·1	58·0	47·7
10	38·8	39·0	41·8	55·0	63·3	54·5	81·0	69·5	65·5	*S*	50·9	54·0

(VI.)—Reading of a Thermometer within the case covering the deep-sunk Thermometers—*continued.*

Day of the Month, 1852.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
11	*S*	41·0	41·4	*S*	55·0	55·0	*S*	63·5	65·5	52·7	51·0	55·0
12	50·0	39·8	42·0	54·5	55·0	55·0	73·0	65·0	*S*	56·0	47·4	*S*
13	40·5	38·8	45·0	59·0	59·0	*S*	79·5	66·0	65·5	54·5	46·6	52·8
14	49·8	47·6	*S*	68·5	58·5	65·0	77·0	70·5	61·4	54·4	*S*	54·2
15	51·8	*S*	45·0	58·0	63·0	63·5	84·2	*S*	59·5	53·4	55·0	50·7
16	50·0	45·5	47·0	48·0	*S*	62·0	82·0	66·0	61·5	51·8	57·0	49·0
17	45·5	54·8	45·0	55·0	59·0	62·0	76·0	69·5	60·5	*S*	54·0	48·5
18	*S*	44·0	43·0	*S*	68·4	58·5	*S*	70·5	56·2	55·5	52·1	42·5
19	45·0	38·8	45·8	47·0	61·0	64·8	76·0	69·0	*S*	52·6	46·0	*S*
20	48·8	36·8	50·0	54·8	70·7	*S*	72·0	62·7	61·8	58·8	53·0	53·8
21	44·8	40·0	*S*	57·0	59·0	64·0	74·5	68·0	52·0	56·0	*S*	48·5
22	45·8	*S*	63·0	63·8	57·5	63·5	74·5	*S*	60·0	57·2	46·5	47·0
23	43·5	41·0	60·0	64·0	*S*	68·0	75·0	68·8	61·8	58·8	37·5	40·5
24	44·8	43·0	59·0	54·5	59·0	59·0	80·0	68·0	65·0	*S*	42·5	53·0
25	*S*	41·8	48·2	*S*	61·5	69·0	*S*	71·5	66.5	45·5	46·0	Christ. Day
26	47·0	44·5	46·5	62·5	54·0	63·0	73·0	72·0	*S*	48·8	54·5	*S*
27	44·5	43·0	43·0	49·0	53·8	*S*	76·0	74·5	60·8	43·6	47·0	51·9
28	36·9	45·8	*S*	69·4	57·0	65·5	76·0	74·5	55·5	47·5	*S*	44·5
29	42·8	*S*	54·0	58·0	53·0	64·5	74·0	*S*	59·5	44·5	47·5	48·0
30	49·0		55·0	56·0	*S*	67·0	73·5	73·0	57·8	56·8	39·5	51·0
31	40·0		48·0		59·0		78·0	67·0		*S*		49·0

The letter *S* denotes that the day was Sunday.

ABSTRACT OF THE CHANGES OF THE DIRECTION OF THE WIND, AS DERIVED FROM OSLER'S ANEMOMETER.

By *direct* motion, in the following statements, is meant that the change of the direction of the wind was in the order N., E., S., W., N., &c.; by *retrograde* is meant in the order N., W., S., E., N., &c.

		d	h	
1851.	Dec.	31.	12.	The direction of the wind was W.
1852.	Jan.	31.	12.	,, ,, W., which implies no change.
	Jan.	13.	9.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of January was 360°.

		d	h	
1852.	Jan.	31.	12.	The direction of the wind was W.
	Feb.	29.	12.	,, ,, W., which implies no change.
	Feb.	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of February was 360°.

		d	h	
1852.	Feb.	29.	12.	The direction of the wind was W.
	March	31.	12.	,, ,, N.N.E., which implies a direct motion of 112½°.
	March	20.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	March	24.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	27.	2.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of March was 1192½°.

		d	h	
1852.	March	31.	12.	The direction of the wind was N.N.E.
	April	30.	12.	,, ,, N.N.E., which implies no change.
	April	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	21.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	21.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of April was 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

		d	h	
1852.	April	30.	12.	The direction of the wind was N.N.E.
	May	31.	12.	,, ,, S.S.W., which implies a retrograde motion of 180°.
	May	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	18.	23.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	19.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of May was 180°.

		d	h	
1852.	May	31.	12.	The direction of the wind was S.S.W.
	June	30.	12.	,, ,, S.W., which implies a direct motion of 22½°.
	June	7.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of June was 22½°.

		d	h	
1852.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, W.S.W., which implies a direct motion of 22½°.
	July	9.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	25.	7.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	July	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	26.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of July was 1102½°.

		d	h	
1852.	July	31.	12.	The direction of the wind was W.S.W.
	August	31.	12.	,, ,, S., which implies a retrograde motion of 67½°.
	August	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	24.	1.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of August was 292½°.

		d	h	
1852.	August	31.	12.	The direction of the wind was S.
	Sep.	30.	12.	,, ,, S.W., which implies a direct motion of 45°.
	Sep.	20.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sep.	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sep.	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sep.	29.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of September was 45°.

		d	h	
1852.	Sep.	30.	12.	The direction of the wind was S.W.
	Oct.	31.	12.	,, ,, S.S.W., which implies a retrograde motion of 22½°.
	Oct.	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	26.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	29.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of October was 1102½°.

		d	h	
1852.	Oct.	31.	12.	The direction of the wind was S.S.W.
	Nov.	30.	12.	,, ,, N.N.W., which implies a direct motion of 135°.
	Nov.	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Nov.	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

CHANGES IN THE DIRECTION OF THE WIND—*continued.*

1852. Nov. 23d 22h. The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°. Therefore the whole excess of direct motion in the month of November was 495°.

1852. Nov. 30d 12h. The direction of the wind was N.N.W.
Dec. 31. 12. ,, ,, S.S.W., which implies a retrograde motion of 135°.
Dec. 23. 22. The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
Therefore the whole excess of direct motion in the month of December was 225°.

The whole excess of direct motion to the end of the year was $3172\frac{1}{2}°$.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1852.

1852, Month.	Monthly Amount of Rain collected in each Gauge.			
	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.	Cylinder partly sunk in the Ground at the Royal Naval Schools.
	in.	in.	in.	in.
January	2·8	2·9	3·6	3·2
February	0·4	0·9	0·9	1·0
March	0·1	0·1	0·2	0·2
April	0·5	0·5	0·5	0·4
May	2·0	1·8	1·9	1·8
June	4·9	4·2	4·6	4·8
July	2·0	1·7	2·3	2·3
August	4·4	4·1	4·4	4·2
September	3·6	3·6	3·8	7·7
October	3·6	3·7	3·8	
November	5·3	5·3	6·0	5·8
December	1·5	1·6	2·2	1·9
Sums	31·1	30·4	34·2	33·3

The gauges at the Royal Observatory are read at 9h P. M., and the monthly records for the Royal Observatory terminate at 9h P.M., on the last day of every month. The gauge at the Royal Naval Schools is read at noon on the last day of every month, and the monthly record for the Royal Naval Schools terminates at noon on the last day of every month. The results at the two places are not strictly comparable in those instances in which rain has fallen between the hours of noon and 9h P.M. on the last day of the month.

At the end of July the gauge at the Royal Naval Schools was found choked up with dirt, and the reading was $1^{in.}7$ only; the inferred number $2^{in.}3$ is inserted in the above table. The reading was not taken for September; but, at the end of October, the amount accumulated in the two months was found to be $7^{in.}7$. The monthly fall at the Royal Observatory was $3^{in.}8$ in each month, and the fall at the Royal Naval Schools may be considered to have been $3^{in.}85$ in each month.