RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1853.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1853.)

ROYAL OBSERVATORY, GREENWICH.

RESULTS

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1853.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1853, of Mr. Glaisher the Superintendant, and Mr. Downs, with two or three supernumerary assistants, 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, page i to xlii ; and to corresponding parts of the preceding volumes.

During the year 1853, 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 19, 28, February 5, 16, March 2, 12, 26, April 16, 28, May 13, 20, July 25, August 26, September 5, 24, October 20, 26, November 9, December 23 and 29.

Observations were made of the Collimation of the Declination Magnetometer ; of the Collimation of the Theodolite-Telescope ; and of the Torsion-force of the Suspension skein, on 1852, December 28 and 29.

Observations of the angle of torsion of the HORIZONTAL FORCE MAGNETOMETER, were made on 1852, December 29, 30, and 1853, January 1. The angle determined was 42°. 38′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on 1852, December 29, 30, and 1853, January 1, and the general conclusion was, that the scale-readings were nearly identical and had nearly the same value when the reading of the torsion-circle was 144° (marked end West); and 229°.16′ (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 for a disturbance through one division of the scale, in parts of the whole horizontal force, is 0·0020862.

The correction for temperature is $0{\cdot}0000809 \times (t-32) + 0{\cdot}000000762\ (t-32)^2$, 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 January 27, was $12^s{\cdot}34$; from January 28 to April 26, $24^s{\cdot}2$; from April 27 to June 20, $25^s{\cdot}9$; from June 21 to September 21, $25^s{\cdot}1$; and from September 22 to the end of the year, $22^s{\cdot}3$.

Observations for the time of vibration in a horizontal plane were made on January 3 and 4, and the time was found to be $25^s{\cdot}0033$ from 10000 vibrations. The values of the disturbing force, in terms of the whole vertical force, for one division of the scale, are inferred to be 0·002545 till January 27; 0·000661 from January 28 to April 26 ; 0·000577 from April 27 to June 20; 0·000615 from June 21 to September 21; and 0·000781 from September 22 to the end of the year : and these numbers are used throughout their respective periods.

The correction for temperature is $0{\cdot}00013845 \times (t-32) + 0{\cdot}000004054 + (t-32)^2$. 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 four 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 abscissæ; these are connected by a brace, and the difference of the numbers 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.	Of V. F. Magnet.
Jan. 10		Jan. 10				Jan. 10		
h m	° ′ ″	h m		h m		h m	°	°
1. 15	22. 17. 15	1. 22	·0919			1. 40	48 ·5	
1. 38	22. 20	1. 50	·0902			3. 40	50 ·0	
2. 0	14. 20		***			9. 40	53 ·0	
2. 27	12. 55	4. 38:	·0923			21. 40	51 ·0	
2. 43	15. 0	5. 16	·0902					
	***	5. 48	·0934					
5. 7	15. 0		***					
5. 33	2. 5	7. 36	·0918					
6. 15	14. 30	7. 56	·0892					
	***	8. 17	·0942					
7. 42	22. 13. 0	8. 30	·0932					
8. 13	21. 43. 25	8. 44	·0942					
8. 29	21. 55. 0	9. 11	·0915					
9. 1	22. 4. 0	9. 55	·0902					
9. 18	4. 0		***					
10. 8	10. 30	10. 33	·0927					
10. 34	17. 0	10. 50	·0914					
11. 0	9. 8		***					
	***	11. 35	·0924					
12. 22	10. 20	12. 0	·0915					
12. 40	18. 15		***					
13. 50	14. 2	14. 0	·0915					
	***	19. 30	·0924					
18. 15	11. 0	23. 17	·0911					
	***	23. 59	·0902					
22. 52	12. 25							
23. 0	14. 40							
	***							
23. 59	15. 40							
	***							
Jan. 11		Jan. 11				Jan. 11		
0. 30	22. 16. 0	0. 32	·0884			1. 40	52 ·0	
0. 40	14. 15	2. 11	·0910			3. 40	53 ·0	
1. 25	17. 20	7. 0	·0917			9. 40	52 ·5	
1. 59	15. 0	8. 1	·0910			21. 40	51 ·0	
	***	9. 6	·0921					
5. 43	12. 45	12. 43	·0920					
6. 52	13. 0	19. 45	·0930					
7. 15:	11. 55	23. 59	·0914					
7. 31:	12. 35							
8. 0:	9. 50							
8. 22:	12. 25							
8. 44	10. 30							
15. 50	14. 0							
21. 17	11. 55							
23. 59	13. 5							
Jan. 12		Jan. 12				Jan. 12		
0. 40	22. 13. 40	1. 42	·0918			1. 40	54 ·0	
	***	6. 13	·0917			3. 40	55 ·0	
6. 17	13. 30	6. 40:	·0908			9. 40	55 ·5	
6. 32	11. 35	7. 13:	·0926			21. 40	50 ·5	
6. 45	13. 55	7. 56	·0910					
8. 9	13. 10	10. 20	·0917					
9. 39	12. 30	10. 32	·0910					
9. 53	11. 25	10. 43	·0920					
10. 45	13. 20	11. 20	·0916					

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. 12		Jan. 12						
h m	° ′ ″	h m		h m		h	°	°
11. 31	22. 9. 30	11. 40	·0924					
11. 47	12. 30	11. 57	·0916					
12. 43:	11. 18	14. 27	·0927					
13. 10:	17. 20	15. 20	·0918					
13. 46:	11. 35	18. 22	·0934					
14. 13:	13. 5	21. 10	·0935					
14. 37	0. 40	23. 59	·0910					
16. 10	9. 55							
16. 33	8. 30							
17. 25	12. 5							
18. 30	10. 20							
18. 58	3. 30							
	†							
19. 45	7. 30							
20. 8	12. 30							
20. 17	11. 35							
20. 31	13. 5							
21. 2	9. 55							
21. 35	12. 35							
	***							
23. 14	13. 30							
	***							
23. 45	16. 10							
	***							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 35	22. 17. 0	0. 15	·0907	3. 36	·02060	1. 40	51 ·0	52 ·5
	***	1. 18:	·0894	4. 17	·02120	3. 40	52 ·5	54 ·0
1. 8	19. 50	2. 17	·0914	9. 28	·02090	9. 40	52 ·0	54 ·0
1. 31	13. 35	3. 42	·0910	16. 38	·01970	21. 40	49 ·2	51 ·0
	***	3. 57	·0890	23. 59	·01950			
2. 50	20. 0	4. 23	·0888					
	***	4. 57	·0915					
3. 40	20. 55	6. 0	·0905					
3. 55	14. 30	6. 15:	·0920					
4. 8	16. 20	6. 35	·0908					
4. 29	11. 0	7. 8	·0903					
4. 45	15. 30	7. 38	·0916					
	***	10. 14	·0922					
6. 1	11. 0	10. 36	·0912					
6. 20	18. 30	11. 10	·0912					
6. 54	17. 0	11. 36	·0926					
7. 17	11. 40	15. 15	·0924					
8. 28	15. 0	15. 45	·0938					
8. 32	12. 30	16. 15	·0932					
	***		***					
10. 23	12. 25	19. 15	·0934					
	***		***					
23. 59	16. 5	19. 39	·0942					
	***		***					
		21. 4	·0938					
		21. 12	·0925					
		21. 17	·0938					
			***					
		22. 34	·0920					
		22. 43	·0928					
		23. 59	·0928					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 14	° ′ ″	Jan. 14		Jan. 14		Jan. 14	°	°
h m		h m		h m		h m		
0. 7	22. 15. 40	0. 5	·0928	0. 46	·01960	1. 40	49 ·5	52 ·0
	***	1. 0	·0922	2. 8	·01920	3. 40	52 ·0	53 ·0
2. 0	14. 30	2. 37	·0920	4. 6	·01750	9. 40	53 ·0	54 ·5
2. 15	16. 30		***	4. 7	·01950	21. 40	46 ·0	47 ·5
2. 34	15. 40	3. 52	·0896	4. 57	·01900			
2. 43	17. 0	4. 15	·0914	8. 16	·02090			
2. 49	15. 20	5. 15	·0922	13. 23	·02000			
3. 13	17. 0	5. 25	·0912	18. 47	·02000			
3. 30:	20. 30	8. 15	·0918	23. 59	·01970			
4. 12	10. 0	8. 40	·0938					
4. 35	11. 0	9. 8	·0918					
4. 49	14. 15	9. 50	·0946					
5. 4	13. 15	10. 8	·0930					
5. 30	16. 10		†					
	***	12. 0	·0911					
6. 32	12. 5	13. 0	·0939					
7. 30:	14. 25	14. 0	·0920					
7. 55	10. 0	17. 0	·0924					
8. 20	10. 30	20. 15	·0942					
8. 34	4. 30	22. 8	·0930					
9. 7	10. 25		†					
9. 44	3. 30							
9. 58	7. 45							
10. 22:	9. 25							
10. 43:	6. 15							
10. 56:	8. 5							
11. 31	3. 30							
12. 4	7. 30							
12. 15	6. 30							
13. 8	16. 30							
13. 32	10. 0							
14. 30	10. 30							
15. 3	14. 0							
15. 22	11. 5							
15. 38	13. 10							
	***							
18. 17	12. 55							
19. 40	15. 30							
20. 58	11. 50							
22. 37	11. 20							
	***							
23. 52	13. 45							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 13	22. 16. 30	0. 13	·0928	0. 23	·01970	1. 40	51 ·5	53 ·5
0. 52	14. 45	1. 8	·0926	1. 38	·01880	3. 40	52 ·5	54 ·0
1. 54	16. 0	1. 40	·0914		·01750	9. 40	53 ·0	56 ·0
2. 53	13. 0	5. 27	·0916	3. 52	·01540	23. 40	47 ·0	50 ·0
4. 15	12. 55	5. 43	·0911	5. 22	·01520			
4. 48	14. 0	6. 15	·0918	5. 23	·01730			
	†	11. 42	·0926	11. 2	·02010			
6. 30	12. 0	12. 0	·0927	23. 45	·01880			
6. 45	13. 30	16. 0	·0929					
9. 36	11. 30	16. 34	·0937					
10. 17	12. 20	23. 40	·0934					
	***							
11. 47	9. 30							
12. 3:	11. 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.	Of V. F. Magnet.
Jan. 15								
h m	° ′ ″	h m		h m		h m	°	°
12. 30	22. 9. 50							
13. 18	10. 0							
13. 52	13. 20							
13. 58	12. 5							
15. 4	11. 15							
15. 41	12. 15							
16. 20	12. 0							
	†							
18. 30	11. 20							
18. 43	11. 5							
19. 20	13. 0							
21. 43	12. 40							
22. 45	13. 5							
23. 42	16. 0							
Jan. 16		Jan. 16		Jan. 16		Jan. 16		
0. 55	22. 15. 40	2. 4	·0932	1. 0	·01880	8. 10	48 ·5	52 ·0
2. 9	14. 50	7. 39	·0936	5. 46	·01860	21. 40	47 ·5	50 ·5
4. 45	16. 5	10. 25	·0934	11. 50	·01530			
6. 13	13. 30	10. 30	·0930	23. 45	·01480			
	†	10. 45	·0936					
8. 17	11. 40	22. 4	·0944					
10. 23	12. 45	22. 45	·0942					
10. 36	7. 30	23. 45	·0934					
11. 8	11. 0							
11. 31:	9. 20							
	***							
12. 46	12. 0							
	***							
13. 30	10. 10							
	***							
15. 23	12. 0							
16. 0:	10. 5							
	†							
20. 50	13. 30							
23. 59	13. 30							
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 5	22. 13. 30	1. 45	·0924	0. 40	·01850	1. 40	49 ·0	52 ·0
	***	3. 45	·0926	3. 8	·01450	3. 40	51 ·0	53 ·0
0. 36	13. 45	4. 45	·0912	5. 25	·01500	9. 40	49 ·0	53 ·0
1. 0	15. 25	5. 27	·0926	5. 28	·01700	21. 40	45 ·4	49 ·5
2. 30	15. 30	6. 9	·0931	6. 58	·01650			
2. 54	17. 10	6. 28	·0930	8. 23	·01750			
3. 31	16. 5	6. 34	·0940	9. 58	·01740			
3. 52	17. 45	7. 30	·0905	14. 38	·01930			
4. 4	17. 0	8. 0	·0920	23. 17	·01870			
4. 40:	20. 10	8. 26	·0896					
5. 12	16. 45	9. 0	·0930					
5. 45:	16. 25	11. 10	·0934					
6. 6	15. 0	12. 45	·0932					
	***	12. 51	·0926					
7. 0	17. 45	13. 46	·0946					
7. 45:	3. 20	14. 7	·0934					
8. 25	17. 55	21. 45	·0950					
8. 46:	12. 55	22. 45	·0940					
9. 0	13. 20	23. 8	·0941					
10. 22	10. 55							
	***							

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. 17								
h m	° ′ ″	h m		h m		h m	°	°
12. 37	22. 12. 30							
	***							
13. 32	8. 45							
13. 47	10. 30							
14. 12	8. 0							
	***							
16. 51	13. 0							
21. 25	11. 30							
23. 59	14. 0							
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 37	22. 13. 20	0. 15	·0933	0. 40	·01880	1. 40	47 ·5	50 ·5
5. 13	19. 25	5. 0	·0921	3. 32	·01710	3. 40	51 ·	53 ·0
5. 49	15. 40	5. 42	·0911	5. 53	·01440	9. 40	50·	53 ·0
6. 3	18. 0	5. 55	·0918	7. 58	·01500	21. 48	43 ·5	47 ·5
6. 14	15. 10	6. 9	·0908	8. 0	·01700			
6. 34	16. 20	6. 44	·0932	13. 13	·01990			
6. 46	20. 55	6. 54	·0920	16. 14	·01830			
6. 58	16. 40	7. 3	·0932	23. 52	·01850			
7. 7	20. 0		***					
7. 26	17. 0	8. 45	·0888					
7. 42	25. 5	9. 30	·0912					
7. 47	21. 45	9. 58	·0910					
8. 9	24. 55	10. 15	·0938					
9. 4	8. 40	10. 37	·0900					
9. 16	10. 40	10. 47	·0904					
9. 44	22. 11. 35	11. 0	·0898					
10. 13	21. 50. 0	11. 15	·0908					
10. 28	22. 4. 0	12. 4	·0898					
10. 35	2. 50	12. 45	·0915					
10. 52	8. 5	14. 45	·0920					
11. 5	4. 30	15. 34	·0939					
11. 24	6. 0	16. 45	·0930					
	***	17. 52	·0944					
11. 50	3. 30	18. 15	·0938					
12. 4	5. 0	18. 34	·0940					
12. 30	1. 0	18. 47	·0933					
13. 7:	3. 0	19. 27	·0930					
13. 40:	18. 30	21. 28	·0918					
	***	21. 50	·0930					
14. 53:	9. 0	23. 30	·0928					
15. 25:	13. 0							
15. 43	8. 30							
16. 33	6. 15							
	***							
17. 47	13. 30							
18. 21	15. 20							
18. 37	20. 0							
18. 53	16. 20							
19. 15	18. 45							
19. 30	17. 35							
	***							
20. 2	19. 30							
20. 30	15. 10							
21. 19	20. 40							
	***							
21. 49	20. 30							
22. 16	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.
Jan. 18								
h m	° ′ ″	h m		h m		h m	°	°
22. 36	22. 13. 25							
	***							
23. 11	18. 35							
	***							
23. 55	18. 0							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 10	22. 18. 20	0. 17	·0910	0. 0	·01870	1. 40	50 ·0	54 ·0
0. 37	17. 35	2. 4	·0905	3. 53	·01440	3. 40	50 ·5	52 ·0
0. 52	20. 0	2. 40:	·0914	6. 13	·01530	9. 40	53 ·5	54 ·0
0. 55	17. 20	3. 5	·0924	12. 0	·01450	21. 40	52 ·0	53 ·0
1. 3	18. 25	3. 17	·0918	18. 0	·01580			
	***	4. 27	·0923	23. 50	·01470			
2. 21	12. 40	5. 6	·0904					
3. 6	16. 25	5. 36	·0904					
3. 36:	14. 50		***					
5. 0	16. 30	6. 15	·0917					
5. 45	10. 0	6. 43	·0908					
5. 54	11. 30	7. 15	·0914					
6. 4	11. 0	8. 30	·0910					
6. 37:	17. 10	9. 34	·0918					
6. 48	15. 0	11. 30	·0924					
	***	13. 0	·0917					
8. 10	13. 20	16. 0	·0926					
8. 34:	15. 5	20. 45	·0930					
9. 18	11. 30	22. 45	·0920					
10. 26	12. 0	23. 45	·0920					
11. 9	10. 55							
12. 21	12. 30							
13. 30	10. 50							
14. 20	11. 50							
14. 42:	10. 40							
15. 51	13. 30							
16. 4	12. 0							
20. 15	12. 0							
22. 13	11. 0							
23. 59	15. 0							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 32	22. 15. 10	0. 30	·0918	0. 30	·01500	1. 40	55 ·0	56 ·0
1. 15	15. 45	1. 30	·0910	4. 46	·01600	3. 40	57 ·0	57 ·5
4. 30	11. 45	4. 33	·0912	4. 47	·01720	9. 50	57 ·0	58 ·5
7. 47	12. 20	4. 45	·0909	11. 0	·02130	21. 40	52 ·0	56 ·0
10. 15	12. 20	11. 30	·0924	23. 59	·02050			
10. 36	11. 30		***					
15. 30	12. 0	17. 4	·0928					
16. 16	11. 0	17. 20:	·0924					
16. 30	12. 30	17. 57	·0937					
17. 0	13. 25	18. 15	·0936					
17. 30:	16. 30	18. 30	·0942					
18. 15	10. 40	19. 0	·0934					
	***	19. 45	·0940					
18. 49	9. 40		***					
	***	23. 59	·0922					
19. 25	11. 30							
	***							
21. 55	11. 0							
22. 16	12. 5							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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	°	°
22. 42:	22. 10. 30							
22. 58	12. 0							
23. 7	10. 15							
23. 15	13. 59							
23. 18	12. 10							
23. 45	15. 0							
23. 47	13. 35							
23. 59	15. 10							
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
0. 6	22. 16. 25	0. 7	·0921	0. 46	·02050	1. 40	54 ·0	56 ·0
0. 22:	16. 30	2. 43	·0903	2. 44	·01970	3. 40	57 ·0	57 ·5
0. 44	14. 30	3. 14	·0892	5. 4	·01670	9. 40	55 ·0	58 ·0
	***	3. 50	·0910	5. 9	·01850	21. 40	46 ·5	48 ·0
1. 50	17. 15	3. 56	·0906	7. 13	·01950			
	***	4. 30	·0910	8. 52	·02110			
2. 58	17. 55	18. 15	·0937	23. 23	·01900			
3. 17	15. 25	21. 0	·0944					
3. 45	14. 5	23. 16	·0928					
4. 45:	15. 45							
5. 25:	11. 30							
6 45	12. 0							
8. 38	11. 45							
9. 25:	8. 50							
9. 58	11. 0							
10. 12	10. 20							
10. 45	11. 30							
11. 28	10. 35							
17. 10	12. 35							
18. 45	11. 0							
18. 52	13. 0							
21. 44	9. 25							
23. 14	11. 0							
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	22. 12. 20	0. 0	·0924	0. 0	·01900	1. 40	48 ·0	50 ·0
0. 45	12. 5	0. 45	·0916	1. 31	·01870	3. 40	49 ·6	51 ·5
0. 54	11. 30	1. 42	·0923	4. 13	·01650	9. 40	49 ·0	51 ·5
2. 24	13. 0	8. 30	·0934	5. 36	·01390	23. 17	47 ·0	49 ·0
4. 41	11. 20	12. 43	·0933	11. 13	·01380			
7. 37	11. 50	13. 0:	·0940	19. 0	·01770			
10. 0	10. 30	13. 35	·0936	23. 10	·01820			
12. 45	11. 0	18. 50	·0942					
13. 5	12. 40	23. 18	·0938					
	***							
13. 21	11. 25							
18. 47	12. 0							
21. 40	10. 25							
23. 59	13. 0							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 7	22. 13. 10	0. 0	·0936	0. 30	·01850	10. 16	47 ·0	48 ·0
2. 0	15. 0	20. 20	·0950	3. 0	·01860	21. 40	44 ·0	47 ·0
5. 11	12. 0	22. 36	·0938	7. 45	·01620			
8. 30	11. 25	23. 14	·0940	11. 27	·01640			
13. 12	13. 15			16. 17	·01900			
13. 17	12. 0			23. 20	·01870			
13. 35	13. 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. Magn t.	Of V. F Magnet.
Jan. 23								
h m	° ′ ″	h m		h m		h m	°	°
13. 55	22. 12. 0							
15. 0	13. 10							
17. 55	12. 40							
20. 59	10. 50							
21. 27	10. 0							
	***							
23. 4	10. 30							
23. 54	14. 0							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 30	22. 12. 45	0. 0	·0941	0. 33	·01850	1. 40	46 ·5	49 ·5
1. 25	15. 5	4. 15	·0924	3. 13	·01730	3. 40	48 ·5	51 ·0
2. 53	16. 0	6. 54	·0931	6. 32	·01320	9. 40	50 ·0	51 ·5
4. 12	13. 20	8. 15	·0924	14. 5	·01300	21. 40	45 ·0	50 ·0
6. 21	12. 0		***	23. 20	·01710			
8. 4	12. 40	12. 0	·0930					
8. 28	11. 30		***					
8. 55	12. 5	15. 57	·0932					
10. 18	11. 30	21. 5	·0946					
10. 47	12. 0		***					
11. 6:	10. 0	23. 15	·0925					
	***							
12. 38	10. 30							
	***							
13. 21	12. 25							
13. 50	9. 35							
15. 23	13. 0							
15. 30	12. 0							
15. 52	13. 25							
16. 46	11. 0							
17. 40	12. 0							
18. 7	10. 30							
19. 25:	12. 30							
20. 3	8. 0							
20. 17	7. 30							
20. 47:	12. 0							
21. 13	12. 0							
21. 15	10. 40							
23. 36:	11. 30							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 34	22. 15. 40	0. 0	·0922	0. 0	·01730	2. 5	48 ·7	50 ·5
1. 15	16. 50	1. 30	·0910	1. 18	·01700	3. 40	51 ·0	52 ·0
1. 44	15. 50	2. 0	·0918	3. 6	·01580	9. 40	49 ·7	53 ·0
2. 22	18. 15	3. 45	·0913	5. 7	·01340	21. 40	45 ·0	49 ·0
3. 9	17. 30	8. 18	·0922	12. 30	·01400			
3. 43	14. 30	8. 30	·0916	19. 52	·01870			
4. 55	14. 40	10. 25	·0929	23. 25	·01850			
5. 28	13. 30	10. 35	·0939					
6. 20	14. 0	10. 45	·0938					
	***	11. 0	·0932					
8. 0	10. 40	13. 0	·0929					
8. 15	11. 35	20. 0	·0951					
	***	23. 25	·0934					
8. 50:	8. 20	23. 59	·0924					
9. 12	9. 40							
	***							
10. 35	9. 39							

For the Horizontal and Vertical Forces, increasing readings denote ncreasing 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.
Jan. 25								
h m	° ′ ″	h m		h m		h m	°	°
10 .52	22. 10. 40							
11 . 6	9. 20							
	***							
11. 56	9. 5							
12. 45	12. 5							
13. 7	11. 15							
13. 55:	14. 25							
14. 13	13. 0							
15. 5	13. 0							
15. 26	15. 40							
16. 14	13. 30							
16. 35	10. 10							
17. 30	12. 30							
	***							
21. 55	10. 10							
23. 59	11. 50							
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 25	22. 13. 0	0. 15	·0925		(†)	1. 40	47 ·7	49 ·0
2. 4	14. 50	4. 30	·0916	4. 48	·00950	3. 40	49 ·0	52 ·0
4. 38	11. 30	20. 15	·0950	8. 13	·00950	9. 40	50 ·5	52 ·5
5. 45	11. 15	23. 20	·0926		·01130	21. 40	43 ·5	46 ·3
7. 25	12. 20			11. 15	·01150			
9. 20	9. 35			15. 17	·01320			
10. 45:	10. 45			21. 53	·01250			
13. 17	13. 0				(†)			
19. 30	12. 0							
23. 20	10. 25							
23. 59	11. 25							
Jan. 27		Jan. 27				Jan. 27		
0 .30	22. 12. 0	0. 18	·0922			1. 40	48 ·0	52 ·0
	***	16. 25	·0938			3. 40	48 ·5	52 ·0
2. 50	14. 30	17. 33	·0948			9. 40	48 ·0	52 ·0
3. 35	12. 50	19. 13	·0936			21. 40	45 ·5	50 ·0
5. 0	12. 30	19. 40	·0943					
12. 17	11. 10	21. 13	·0941					
16. 5	12. 20	23. 0	·0914					
16. 48	13. 20	23. 59	·0912					
17. 47	10. 30							
18. 38	10. 30							
19. 38	11. 55							
	***							
21. 27	9. 30							
23. 14	10. 0							
23. 53	13. 0							
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 24	22. 15. 0	0. 30	·0910	0. 17	·01800	1. 40	49 ·0	53 ·0
0. 45	15. 30	0. 44	·0908	1. 0	·01785	3. 40	51 ·5	53 ·5
0. 51	13. 5	0. 50	·0900	2. 40	·01653	9. 40	51 ·0	54 ·0
1. 3	15. 30	1. 5	·0907	5. 31	·01292	21. 40	46 ·5	51 ·0
	***	10. 25	·0930		·01435			
1. 21	15. 45	15. 13:	·0925	14. 34	·01540			
2. 8	20. 5	15. 35	·0934	18. 45	·01715			
2. 46:	16. 0	22. 5	·0926	23. 14	·01890			
	***	23. 59	·0918					
4. 17	17. 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.
Jan. 28								
h m	° ′ ″	h m		h m		h m	°	°
4. 40	22. 19. 10							
5. 5	16. 35							
7. 5	12. 30							
7. 40	14. 30							
9. 43	11. 30							
14. 25	10. 50							
15. 13	9. 40							
15. 30	10. 40							
16. 0	9. 15							
16. 50	12. 0							
18. 7	12. 20							
18. 26	10. 40							
19. 11	12. 30							
	***							
21. 25	10. 30							
22. 7	10. 0							
22. 55	10. 25							
23. 13	12. 30							
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 30	22. 11. 20	0. 40	·0914	0. 29	·01970	1. 40	49 ·0	52 ·0
	***	7. 15	·0928	1. 5:	·01988	3. 40	50 ·5	53 ·0
2. 1	16. 0	8. 45	·0918	2. 30	·01957	9. 40	51 ·0	54 ·0
2. 40	13. 25	12. 15	·0922	4. 13	·01850	22. 40	47 ·0	50 ·8
4. 40	12. 0	12. 35	·0930	5. 13	·01702			
	***	13. 15	·0925	5. 40	·01660			
7. 58	11. 30	20. 20	·0936	8. 17	·01512			
8. 34	10. 30	21. 54	·0924	8. 29	·01615			
	***	23. 59	·0930	11. 24	·01625			
12. 38	10. 50			14. 40:	·01682			
	***			19. 0	·01895			
13. 30	7. 45			22. 48	·02053			
	***							
14. 43	7. 5							
	***							
17. 18	11. 30							
	***							
20. 23	13. 30							
20. 58	7. 30							
21. 17	10. 30							
	***							
22. 2	12. 30							
23. 15	13. 30							
23. 23	12. 10							
23. 59	13. 0							
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
0. 38	22. 16. 30	0. 15	·0931	0. 25	·02175	10. 10	48 ·0	50 ·5
0. 55	15. 30	10. 5	·0938	1. 48	·02270	21. 40	45 ·7	49 ·0
1. 52	17. 0	10. 20	·0949		·02195			
2. 38	16. 25	10. 50	·0930	3. 17	·02248			
3. 15	13. 50	13. 5	·0920	5. 24	·02215			
5. 55	11. 30	14. 0:	·0934	6. 38	·02175			
7. 20	13. 0	14. 50	·0918	9. 53	·02135			
7. 38	10. 0	16. 5	·0931	11. 33	·02085			
8. 0	11. 30	19. 50	·0936	13. 23	·02075			
8. 12	10. 25	20. 15	·0925	14. 8	·02035			
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

Jan. 27. The adjustments of the Vertical Force Magnetometer were under alteration.

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. 30		Jan. 30		Jan. 30				
h m	° ′ ″	h m		h m		h m	°	°
8. 20	22. 11. 30	22. 47	·0930	18. 6	·02055			
9. 5	11. 40	23. 0	·0922	21. 31	·02125			
9. 51	9. 35	23. 38	·0919	23. 7	·02205			
9. 53	7. 40				·02153			
10. 13	4. 30			23. 59	·02170			
10. 30	3. 0							
10. 47	8. 40							
10. 51	8. 25							
11. 5	10. 20							
11. 15	8. 50							
11. 23	9. 25							
11. 51	4. 40							
13. 7	5. 40							
13. 27:	22. 7. 40							
14. 16:	21. 59. 15							
14. 35	22. 3. 0							
14. 53:	3. 20							
16. 3	10. 50							
16. 28	10. 0							
17. 25	13. 0 ***							
18. 48	11. 20							
19. 36	12. 30							
20. 20	11. 35							
20. 30	13. 0 ***							
22. 15	10. 40							
23. 48	12. 0							
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 8:	22. 15. 30	0. 30	·0922	0. 47	·02190	1. 40	46 ·0	49 ·8
0. 15	13. 0	4. 15	·0919	1. 40:	·02207	3. 40	49 ·7	52 ·2
0. 38	12. 0	4. 55	·0924	3. 29:	·02085	9. 40	50 ·8	53 ·0
1. 27	13. 30	5. 20	·0922	5. 35:	·01750	21. 40	41 ·8	45 ·3
1. 38	17. 0	5. 45	·0932	8. 15:	·01495			
1. 54	17. 25	6. 30	·0924 ***	9. 53	·01480			
2. 6	15. 40			12. 21	·01560			
2. 35	16. 10 ***	11. 15	·0925	14. 7	·01695			
		11. 30	·0916	17. 58	·02172			
5. 43	11. 35	11. 45	·0921		·02105			
6. 21	14. 0	12. 0	·0944	19. 0	·02130			
7. 25	11. 25	12. 45	·0918	22. 40	·02105			
9. 37	11. 0	13. 30	·0928	23. 59	·02125			
9. 55:	9. 55	20. 0	·0948 ***					
10. 24	10. 25 ***	23. 59	·0938					
10. 57	8. 30							
11. 22	22. 12. 0							
11. 53	21. 56. 10							
12. 47	22. 6. 40							
13. 5:	7. 0							
13. 49:	11. 0							
17. 0	13. 5							
22. 36	11. 30							
23. 59	13. 20							
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 20	22. 13. 30	0. 30	·0932	0. 18	·02135	1. 40	45 ·0	48 ·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. 1		Feb. 1		Feb. 1		Feb. 1		
m	° ′ ″	h m		h m		h m	°	°
0. 40	22. 13. 0	3. 5	·0921	3. 10:	·02065	3. 40	46 ·0	47 ·8
2. 36	14 10	4. 53	·0928	7. 58:	·01578	9. 40	47 ·0	50 ·0
2. 50	13. 30	5. 40	·0912	9. 52	·01505	21. 40	43 ·0	44 ·2
5. 54	13. 40	6. 36	·0931	14. 14	·01583			
5. 58	12. 40	8. 8	·0936	16. 47	·01725			
6. 32	11. 50	10. 11	·0930	17. 3	·01720			
6. 50	12. 35	10. 25	·0918	18. 40:	·01862			
7. 14	12. 30	10. 35	·0916	23. 32	·02130			
10. 17	22. 11. 0 ***	11. 10	·0930					
		12. 0	·0928					
11. 6	21. 58. 0 ***	13. 40	·0934					
		13. 50	·0942					
12. 22	22. 9. 40 ***	16. 35	·0934					
		16. 57	·0950 ***					
13. 55	14. 0							
14. 19	12. 0	18. 45	·0935					
15. 16	11. 30	18. 58	·0942					
15. 54	12. 40	21. 55	·0929					
16. 11	15. 35	22. 15	·0920					
16. 36	15. 30	22. 24	·0925					
16. 52	18. 0	23. 57	·0920					
17. 20	9. 40							
17. 52	12. 25							
18. 2	11. 0							
18. 41	11. 20							
18. 48	12. 30							
19. 11	11. 25 ***							
20. 25	12. 40							
21. 19	15. 40 ***							
22. 25	12. 30 ***							
23. 25	12. 20							
23. 36	15. 0							
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 0.	22. 16. 20	0. 0	·0919	0. 0	·02132	1. 40	46 ·0	48 ·0
0. 40	16. 20 ***	1. 50	·0900	1. 12	·02082	3. 40	49 ·2	52 ·3
		2. 45	·0914	2. 28	·01960	9. 40	51 ·0	53 ·0
1. 15	19. 40 ***	3. 45	·0910	4. 58	·01565	21. 40	46 ·5	49 ·5
		4. 10	·0881 ***	7. 30	·00950			
2. 10	16. 20 ***			9. 46	·00655			
		5. 30	·0912	12. 24	·00652			
2. 45	18. 50 ***	6. 30	·0906	14. 32	·00745			
		7. 18	·0918	19. 2	·01110			
3. 0	16. 50 ***	7. 35	·0909	23. 33	·01350			
		8. 6	·0925					
3. 20	18. 25	8. 24	·0920					
3. 38	17. 0	9. 55	·0927					
3. 56	18. 30	10. 26	·0918					
4. 28	4. 55	10. 40	·0926					
4. 32	5. 35	13. 10	·0930					
4. 38	5. 0	13. 35	·0924					
5. 6	9. 0	17. 50	·0938 ***					
5. 43:	16. 20							
7. 2:	14. 20	21. 55	·0932					
7. 43	5. 0	23. 30	·0922					

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

Göttingen Mean Solar Time.	Western Declination.
Feb. 2	
h m	° ′ ″
8. 17	22. 12. 30
	***
9. 57	11. 30
	***
11. 16	12. 0
	***
13. 30:	8. 20
	***
15. 54	13. 0
17. 24	12. 40
17. 49	11. 30
	***
19. 32	13. 25
	***
20. 40	11. 0
	***
23. 40	12. 30
Feb. 3	
0. 0	22. 12. 40
1. 15	13. 0
1. 32	14. 20
3. 36	12. 15
6. 15:	9. 0
6. 47	11. 25
9. 2	11. 30
10. 19	13. 55
	***
11. 32	11. 30
13. 1	10. 30
13. 20	11. 40
	***
15. 2	11. 0
	***
15. 25	8. 20
	***
16. 35	6. 25
17. 3	12. 40
17. 52	12. 35
	***
19. 1	11. 30
	***
20. 4	14. 0
	***
20. 41	19. 0
	***
21. 20	14. 10
21. 25	16. 40
21. 28	15. 0
21. 32	17. 50
21. 35	15. 50
	***
22. 8	14. 25
	***
23. 59	14. 30
	***

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 3	
h m	
0. 0	·0920
1. 15	2. 25	·0912
1. 32	4. 8	·0910
3. 36	9. 0	·0928
6. 15:	9. 24	·0925
6. 47	10. 0	·0930
9. 2	10. 45	·0922
10. 19	12. 24	·0934
		***
11. 32	16. 40	·0934
13. 1	17. 0	·0940
13. 20		***
	19. 30	·0942
15. 2	20. 32	·0928
		***
15. 25	21. 52	·0936
		***
16. 35	23. 59	·0918

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 3	
h m	
0. 0	·01357
3. 45:	·01135
7. 5	·00790
8. 6	{·00750
	{·00983
9. 37	·00995
13. 35	·01097
19. 35	·01430
21. 17	·01473
23. 30	·01588

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 3		
h m	°	°
1. 40	48 ·0	51 ·0
3. 40	49 ·8	52 ·2
9. 40	49 ·6	52 ·5
21. 40	44 ·8	49 ·0

Göttingen Mean Solar Time.	Western Declination.
Feb. 4	
h m	° ′ ″
0. 32	22. 15. 0
0. 38	13. 25
0. 50	16. 0
1. 8	14. 0
1. 47	15. 30
2. 16	15. 30
	***
2. 55	10. 50
	***
5. 28	10. 0
6. 10	13. 50
	***
6. 45:	11. 25
7. 13:	13. 20
7. 31:	12. 0
7. 42:	12. 40
8. 0:	10. 35
8. 12:	11. 40
8. 33:	9. 0
8. 52:	10. 0
10. 24	8. 50
	***
13. 13	12. 0
	***
14. 55	10. 50
	***
16. 57	14. 20
	***
18. 30	11. 20
	***
18. 41	13. 35
19. 12:	12. 20
19. 41:	0. 55
20. 15:	11. 0
20. 32:	8. 55
	***
23. 20	12. 0
Feb. 5	
0. 0	22. 13. 50
0. 43	13. 0
1. 8	15. 30
1. 20	13. 0
1. 36	14. 5
	***
4. 45	11. 0
	***
5. 34	7. 0
5. 54	9. 0
6. 15:	1. 10
6. 45	8. 30
7. 38	8. 0
7. 57:	2. 40
8. 25	11. 30
8. 47	3. 0
9. 10	8. 25
9. 23:	5. 25
9. 44	8. 55

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
Feb. 4	
h m	
0. 10	·0915
	***
1. 45	·0920
2. 45	·0904
3. 50	·0926
5. 14	·0912
	***
5. 50	·0910
7. 15	·0924
7. 35	·0904
8. 12	·0925
8. 25	·0920
11. 45	·0935
12. 30	·0929
13. 15	·0939
14. 0	·0932
	***
17. 0	·0933
17. 8	·0928
17. 40	·0940
18. 0	·0934
	***
19. 15	·0942
22. 3	·0926
23. 59	·0922
Feb. 5	
0. 5	·0922
0. 45	·0922
1. 20	.0910
1. 45	·0915
	***
4. 30	·0916
5. 10	·0906
5. 55	·0916
6. 15	·0904
6. 30	·0918
7. 13	·0918
7. 20	·0904
7. 35	·0908
7. 54	·0901
8. 20	·0935
8. 44	·0908
8. 57	·0917
9. 20	·0893
10. 22	·0912

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Feb. 4	
h m	
0. 40	·01580
2. 58	·01398
3. 45	·01315
6. 21	·00950
6. 24	·01040
7. 22	·01000
7. 56	·01038
11. 24	·01085
13. 58	·01348
18. 39	·01612
23. 25	·01880
Feb. 5	
0. 52	·01893
4. 17:	·01620
6. 47:	·01260
8. 17	·01128
8. 44	·01060
10. 48	·01075
13. 46	·01190
14. 6	·01173
18. 47	·01446
23. 36	·01640

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 4		
h m	°	°
1. 40	49 ·0	53 ·0
3. 40	51 ·0	53 ·0
9. 40	50 ·0	52 ·5
21. 40	44 ·7	48 ·3
Feb. 5		
1. 40	47 ·0	50 ·0
3. 40	50 ·0	51 ·8
9. 40	49 ·5	53 ·0
23. 17	43 ·0	47 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 5		Feb. 5						
h m	° ′ ″	h m		h m		h m	°	°
10. 15	22. 8. 25	13. 30	·0918					
	***	13. 50	·0938					
13. 47	12. 0	14. 35	·0916					
13. 53	16. 40	14. 55	·0916					
14. 21	10. 10	15. 15	·0924					
14. 54	13. 20	18. 30	·0923					
	***	18. 55	·0936					
16. 27	9. 20	20. 30	·0924					
	***	21. 15	·0926					
18. 8	13. 0	21. 46	·0922					
18. 30:	6. 40	23. 8	·0912					
19. 9:	12. 30	23. 59	·0916					
19. 32	13. 30							
19. 49	12. 20							
21. 0	12. 10							
21. 15	14. 5							
21. 25	12. 50							
	***							
23. 30	14. 25							
	***							
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 2	22. 13. 30	0. 5	·0918	0. 22	·01695	11. 15	46 ·0	49 ·0
	***		***	3. 13:	·01732	21. 40	44 ·5	47 ·5
0. 40	13. 25	1. 2	·0918	8. 8:	·01625			
0. 52	15. 0	1. 8	·0928	14. 4	·01650			
0. 55	13. 40	1. 10	·0918	19. 30	·01862			
1. 5	16. 35	1. 15	·0922	22. 7	·01924			
	***	1. 35	·0911	23. 38	·01995			
1. 42	13. 10							
2. 30	12. 0	2. 0:	·0912					
	***	2. 22	·0921					
4. 31	11. 30		***					
5. 11	5. 40	4. 20	·0916					
5. 40	6. 20	5. 5	·0903					
5. 52	10. 25		***					
6. 53	12. 30	5. 55	·0922					
8. 38	10. 40	9. 50	·0924					
9. 8	12. 30	10. 2	·0948					
9. 28	9. 35	10. 30	·0930					
9. 48	10. 25	11. 5	·0920					
9. 54	2. 30	12. 4	·0921					
10. 4	6. 0	12. 17	·0930					
10. 23	7. 40	16. 30	·0922					
10. 38	6. 30	19. 45	·0930					
10. 53	9. 0	20. 15	·0929					
11. 8	8. 0	20. 44	·0920					
	***	23. 30	·0917					
12. 13	12. 0							
12. 32	10. 20							
12. 43	12. 40							
12. 53	12. 40							
13. 2	11. 20							
13. 52	13. 40							
14. 11	12. 0							
15. 8:	14. 20							
15. 31	11. 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.
Feb. 6								
h m	° ′ ″	h m		h m		h m	°	°
16. 33	22. 12. 40							
17. 8	12. 0							
18. 5	13. 30							
18. 41:	11. 0							
19. 21	13. 2							
	***							
21. 24	11. 10							
	***							
23. 35	13. 0							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	22. 13. 40	0. 8	·0918	0. 45	·01993	1. 40	47 ·7	50 ·5
0. 21	13. 0	4. 30	·0908	2. 5:	·01895	3. 40	50 ·0	52 ·2
1. 48	14. 20	7. 15	·0914	3. 44:	·01650	9. 40	49 ·0	52 ·0
4. 16	11. 0	8. 2	·0908	6. 8	·01228	21. 40	45 ·0	48 ·0
5. 50	10. 25	12. 15	·0916		·01358			
6. 50	11. 50	12. 32	·0949	10. 5	·01435			
7. 25	10. 40	13. 35	·0920	13. 34	·01610			
7. 47	11. 30	19. 20	·0934	19. 13	·01982			
8. 15	9. 35	20. 45	·0922	22. 27	·02075			
11. 13	11. 20		***		·01964			
12. 6	10. 20	22. 5	·0930	23. 20	·01995			
12. 19	2. 10	23. 25	·0910					
12. 36	5. 30							
14. 6	11. 40							
17. 41	12. 25							
19. 10	11. 10							
20. 28	10. 40							
	***							
21. 30	13. 35							
	***							
22. 23	14. 30							
23. 22	13. 25							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 0	22. 13. 30	0. 0	·0912	0. 51:	·02057	1. 40	47 ·0	49 ·5
0. 24	13. 0	0. 45	·0910	5. 43:	·01773	3. 40	49 ·0	50 ·8
	***	7. 15	·0916	8. 40	·01695	9. 40	48 ·5	51 ·8
2. 25	15. 30	7. 32	·0906	8. 52	·01756	21. 40	42 ·5	47 ·5
4. 43	12. 20	8. 2	·0915	11. 22	·01860			
5. 47	11. 0	9. 45	·0916	14. 3	·02055			
6. 8	9. 30	10. 0	·0927		·02021			
7. 5	11. 50	10. 15	·0923	18. 51	·02058			
7. 25	8. 40	10. 45	·0920	23. 59	·02038			
7. 53	7. 50	10. 53	·0927					
8. 43:	10. 35	12. 45	·0924					
9. 22:	8. 40	19. 50	·0942					
9. 44	9. 30	21. 24	·0936					
9. 53	7. 30	22. 15	·0938					
10. 20	7. 50	22. 50	·0928					
10. 36	9. 30	23. 59	·0922					
14. 16	11. 40							
18. 45	11. 40							
20. 42	11. 0							
21. 15	12. 20							
21. 46	11. 25							
	***							
23. 59	11. 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.	Reading of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
h	° ′ ″	h m		h m		h m	°	°
0. 8	22. 11. 30	0. 35	·0918	0. 34	·02015	1. 40	46·5	48·5
1. 4	11. 0	1. 45	·0916	3. 57:	·01585	3. 40	48·7	52·0
4. 50	12. 5	15. 43	·0930	6. 37:	·01173	9. 40	48·5	52·5
10. 42	10. 20	20. 0	·0940	9. 6:	·01036	21. 40	44·8	48·8
13. 8	10. 35	23. 59	·0920	9. 38	·01040			
17. 22	12. 20			13. 47:	·01152			
21. 17	10. 0			19. 49	·01535			
23. 0	10. 0			23. 58	·01700			
23. 52	11. 50							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 15	22. 15. 0	0. 8	·0918	1. 0:	·01716	1. 40	47·0	50·0
2. 45	14. 0	2. 45	·0926	5. 2:	·01426	3. 40	49·0	52·0
4. 23	11. 50	3. 40	·0922	8. 23	·01220	9. 40	49·0	52·5
6. 55	16. 20	5. 15	·0926	12. 18	·01287	21. 40	42·0	45·0
	***	6. 15	·0929	17. 10	·01666			
9. 38	10. 40	7. 15:	·0911	22. 41	·02020			
	***	8. 30	·0924		·01931			
10. 20	22. 6. 0		***	23. 59	·01975			
10. 35	21. 56. 10	10. 14	·0922					
11. 6	22. 6. 20	10. 30	·0930					
11. 36	21. 55. 50	11. 8	·0912					
11. 53	58. 20	11. 44	·0930					
12. 33:	21. 58. 40	12. 40	·0905					
13. 4	22. 3. 20	15. 34	·0923					
15. 4	12. 5	15. 40	·0928					
15. 41	10. 30	17. 22	·0928					
15. 50	11. 40	18. 0:	·0938					
16. 15	8. 20	18. 45	·0936					
17. 22:	15. 10	21. 30	·0936					
18. 5:	9. 30	23. 55	·0921					
19. 0	11. 30							
	***							
22. 56	11. 20							
	***							
23. 52	13. 30							
Feb. 11		Feb. 11		Feb. 11		Feb, 11		
0. 15	22. 14. 0	0. 0	·0916	0. 31	·01998	1. 40	45·0	48·0
1. 27	13. 25		***	3. 8	·01920	3. 40	45·0	51·5
1. 51	16. 0	3. 45	·0920		·01585	9. 40	47·0	51·0
	***	4. 38	·0913	5. 30	·01320	21. 40	41·0	45·8
5. 30	11. 20		***	7. 43:	·01073			
	***	9. 47	·0930	9. 42	·01038			
11. 42	11. 0		***	12. 0	·01130			
12. 5	8. 40	11. 10	·0923	14. 6	·01263			
13. 0	10. 30	12. 57	·0924	19. 40	·01800			
13. 15:	8. 30	13. 15:	·0939	23. 59	·01908			
	***	14. 45:	·0925					
15. 25	5. 55	15. 20	·0931					
	***	16. 15	·0926					
17. 26	12. 25	18. 15	·0937					
	***	21. 15	·0940					
21. 0	12. 10	23. 15	·0928					
23. 12	13. 30							
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
c	22. 14. 15	0. 5	·0923	0. 16:	·01910	1 ·40	44·0	47·5

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.
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
h m	° ′ ″	h m		h m		h m	°	°
0. 41	22. 14. 5	0. 30	·0922	3. 18:	·01690	3. 40	45·5	50·0
1. 20	16. 25	0. 45	·0918	5. 24:	·01430	9. 40	45·0	47·5
1. 35	15. 30	1. 15	·0920	7. 47:	·01340	23. 40	41·0	44·7
2. 14	15. 40	3. 40	·0924	6. 30	·01870			
2. 24:	14. 40	3. 50	·0928		·01842			
2. 38	15. 35	4. 0	·0917	23. 59	·01805			
4. 25	14. 20	7. 30	·0928					
11. 35	11. 30	7. 36	·0931					
12. 57	14. 15	10. 57	·0922					
13. 7	10. 25	12. 20	·0925					
13. 23	9. 30	12. 30	·0933					
	***	13. 15	·0922					
14. 45	12. 40	13. 45	·0926					
18. 9	11. 25	14. 5	·0925					
21. 42	12. 0	17. 10	·0932					
23. 30	17. 0	19. 30	·0932					
23. 54	16. 40	20. 0	·0928					
		20. 30:	·0932					
		20. 55	·0925					
		21. 11	·0929					
		21. 38	·0925					
		23. 58	·0920					
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	22. 17. 0	0. 0	·0920	0. 15	·01803	9. 40	42·0	46·0
	***	0. 45	·0924	8. 20	·01660	21. 40	38·0	43·5
2. 13	17. 25	0. 50	·0918	12. 20	·01712			
4. 46	12. 0	1. 0	·0924	15. 27	·01840			
	***	4. 0	·0938		·01806			
6. 53	13. 55	4. 48	·0936	18. 25	·01832			
7. 45	13. 30	4. 55	·0950	18. 32	·01750			
	***	5. 0	·0944	22. 51	·01795			
18. 21	8. 40	5. 36	·0938	23. 22	·01760			
	***	6. 53	·0942					
18. 41	11. 30	7. 30	·0937					
	***	8. 23	·0946					
19. 45	10. 0		***					
21. 5	12. 0	12. 25	·0943					
	***	12. 36	·0937					
21. 42	11. 30	18. 0	·0940					
	***	18. 45:	·0932					
22. 2	14. 50		* *					
22. 32	13. 15	19. 52	·0949					
23. 5	19. 0		* *					
23. 12	13. 30	22. 27	·0926					
23. 59	20. 30	22. 45	·0918					
		22. 51	·0924					
		23. 20	·0920					
		23. 59	·0917					
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 30:	22. 20. 30	0. 30	·0912	0. 16:	·01745	1. 40	42·0	45·0
1. 0	25. 30	0. 40	·0901	3. 43	·01535	3. 40	44·5	47·0
1. 20	26. 0	1. 13	·0892	4. 2	·01570	9. 40	45·0	48·0
1. 37	22. 0	1. 25	·0900	6. 38	·01240	21. 40	33·6	37·0
2. 45	24. 0	1. 36	·0897	7. 1	·01268			
2. 52	26. 40	2. 23	·0911	7. 38	·01072			
3. 11:	24. 20	2. 50	·0910		***			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 14		Feb. 14		Feb. 14		h m	o	o
h m	o ′ ″	h m		h m				
3. 25	22. 28. 0	2. 55	·0918	8. 53	·01080			
	***	3. 23	·0912	9. 55	·01020			
3. 40	28. 0	3. 31	·0900	10. 40	·01045			
	***	4. 15	·0891	11. 35	·00934			
3. 50	25. 15	4. 40	·0904	12. 6	·01005			
	***	5. 0	·0898	15. 53	·01210			
4. 2	28. 40	5. 24	·0906	16. 3	·01192			
4. 17	14. 15	5. 33	·0902	18. 2	·01370			
4. 46	22. 40	6. 35	·0907	19. 40	·01577			
5. 8	19. 10	6. 52	·0882	22. 32	·01830			
5. 45	23. 0	7. 7	·0928		·01790			
	***	7. 9	·0920	23. 59	·01810			
6. 32	21. 0	7. 23	·0936					
6. 43	22. 30	7. 40	·0891					
7. 3	2. 30	7. 50	·0900					
7. 13	8. 0	8. 8	·0870					
7. 16	6. 0	8. 25	·0885					
7. 38	23. 30	8. 35	·0874					
7. 46	17. 30	8. 49	·0886					
7. 58	18. 35	9. 10	·0884					
8. 5	22. 30	9. 32	·0897					
8. 13	14. 15	9. 40	·0914					
8. 47	8. 20	10. 0	·0896					
8. 54	11. 15	10. 8	·0902					
9. 3	5. 5	10. 24:	·0891					
9. 15	10. 9	10. 45	·0924					
9. 19	8. 15	10. 50	·0922					
9. 27	9. 30	10. 54	·0936					
9. 36	5. 30	11. 4	·0928					
9. 53	14. 50	11. 17	·0947					
10. 2	13. 0	11. 40	·0894					
10. 11	15. 0	11. 52	·0908					
10. 36	7. 0	12. 0	·0904					
	***	12. 12	·0914					
10. 51	10. 0	12. 25	·0900					
	***	12. 52	·0905					
11. 2	9. 0	13. 40:	·0896					
11. 9	5. 15	14. 15	·0917					
11. 27:	15. 30	14. 50	·0894					
11. 46	4. 30	15. 30	·0914					
11. 52	6. 25	15. 37	·0910					
12. 1	5. 40	15. 45	·0916					
12. 19	9. 30	16. 0	·0906					
12. 50:	5. 0	16. 23	·0920					
13. 35	3. 50	16. 46	·0915					
13. 53	7. 5	17. 17	·0929					
14. 8	2. 40	17. 45	·0916					
14. 30	3. 0		***					
15. 3	13. 0	18. 53	·0915					
15. 38:	4. 0	19. 45	·0925					
15. 50	11. 35	20. 30	·0918					
16. 13	3. 40	21. 14	·0892					
16. 43	8. 30	21. 30	·0906					
	***	22. 11	·0898					
18. 13	9. 50	23. 7	·0906					
18. 21	12. 40	23. 59	·0898					
18. 38	12. 20							
18. 44	10. 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.
Feb. 14		h m		h m		h m	o	o
h m	o ′ ″							
18. 52	22. 13. 0							
19. 42	10. 25							
20. 8	11. 20							
	***							
20. 15	15. 30							
	***							
20. 57	15. 0							
	***							
21. 8	17. 20							
21. 23	15. 30							
21. 32	20. 25							
21. 41	21. 40							
	***							
22. 25	16. 30							
22. 56	15. 35							
23. 5	17. 0							
23. 46	16. 50							
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 15	22. 20. 0	0. 5	·0900	1. 15:	·01840	1. 40	40 ·0	43 ·0
1. 30	17. 25	1. 15	·0900	4. 29:	·01628	3. 40	42 ·0	44 ·0
4. 55	13. 10	6. 45	·0920	8. 18:	·01388	9. 40	43 ·5	45 ·0
6. 25	12. 0	9. 35	·0918	13. 20:	·01462	21. 40	41 ·0	43 ·7
9. 50	13. 0	11. 40	·0922	21. 51	·01425			
10. 25:	10. 40	13. 30	·0913	23. 59	·01512			
10. 52	11. 35	15. 47	·0915					
11. 37	10. 0	18. 0	·0924					
13. 2	9. 50	20. 8	·0927					
14. 30	11. 30	23. 59	·0910					
14. 52	10. 10							
17. 0	11. 25							
18. 5	10. 15							
23. 59	14. 0							
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 15	22. 15. 50	0. 0	·0910	1. 15	·01512	1. 40	44 ·0	48 ·0
2. 33	17. 0	1. 50	·0904	1. 42:	·01427	3. 40	46 ·0	48 ·0
5. 10	12. 30	4. 23	·0912	3. 13	·01200	10. 3	49 ·0	51 ·3
6. 30	14. 5	7. 7	·0904	5. 47	·00685	21. 40	40 ·8	44 ·2
7. 8	13. 35		***		(†)			
	***	9. 30	·0886	7. 38	·00672			
7. 46	16. 0	9. 43	·0890	12. 2	·00850			
	***	9. 55	·0886	18. 10	·01500			
9. 7	12. 0	11. 15	·0894	18. 41	·01517			
9. 20	13. 25	11. 50	·0896	22. 0	·01825			
10. 12	8. 40	12. 5	·0900	22. 34	·01805			
10. 36	8. 20	12. 17	·0896	23. 59	·01825			
10. 58	9. 40	12. 38	·0902					
11. 13	7. 50	12. 50	·0898					
11. 47	8. 20	13. 15	·0898					
12. 15	12. 25	13. 37	·0912					
12. 32	9. 0	13. 44	·0906					
	***	14. 30	·0900					
12. 55	10. 30	15. 0	·0907					
13. 30	6. 15	15. 45	·0904					
13. 45	10. 30	15. 50	·0900					
14. 23:	4. 20	16. 0	·0908					
	***	18. 0	·0912					

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

February 16. Vertical Force Magnet. Between $5^h.\ 47^m.$ and $7^h.\ 38^m.$ the spot of light fell off the sheet.

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						
h m	° ′ ″	h m		h m		h m	°	°
16. 7	22. 9. 0	18. 40	·0938					
	***		***					
17. 16	7. 30	19. 37	·0930					
17. 45	9. 30		***					
17. 56	7. 30	19. 52	·0938					
18. 20	14. 0		***					
	***	20. 8	·0930					
19. 50	7. 30		***					
	***	20. 45	·0930					
20. 5	11. 30		***					
20. 24	10. 0	21. 30	·0910					
	***	21. 34	·0915					
20. 54	13. 0	22. 0	·0912					
	***	22. 4	·0906					
21. 13	14. 0		***					
	***	22. 25	·0917					
21. 34	11. 0		***					
	***	23. 20	·0901					
21. 59	12. 20							
22. 1	9. 50							
22. 4	10. 25							
22. 7	9. 40							
22. 21	13. 39							
	***							
23. 32	16. 25							
23. 46	14. 20							
23. 51	17. 15							
23. 59	14. 30							
Feb. 17				Feb. 17		Feb. 17		
0. 45	22. 17. 30			0. 23	·01835	1. 40	43 ·0	45 ·7
1. 32	15. 0			1. 52	·01808	3. 40	44 ·5	47 ·0
2. 5:	18. 20			6. 53	·01420	9. 40	44 ·0	47 ·5
2. 45	15. 0			9. 17:	·01337	21. 40	38 ·5	42 ·6
3. 35	17. 0			12. 13	·01366			
4. 17	13. 15			15. 0	·01486			
5. 23	12. 30			19. 36	·01845			
6. 45	13. 0			20. 39	·01848			
	***			21. 30	·01826			
8. 3	6. 40			21. 37	·01768			
8. 47	11. 30			22. 40	·01813			
	***			23. 59	·01795			
11. 10	9. 0							
11. 18	11. 30							
11. 31	5. 10							
11. 46	7. 0							
12. 29:	7. 0							
12. 46	10. 30							
14. 35	11. 40							
20. 45	10. 30							
	***							
23. 52	14. 35							
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 10	22. 16. 30	0. 45	·0893	0. 30	·01785	1. 40	43 ·0	45 ·5
0. 28	16. 20	1. 54	·0890	6. 30	·01080	3. 40	45 ·0	47 ·2
0. 46	17. 30	3. 5	·0904		†			
1. 17	16. 15	4. 55	·0902	9. 25	·00948	9. 40	44 ·5	48 ·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.
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
h m	° ′ ″	h m		h m		h m	°	°
1. 48	22. 13. 15	6. 38	·0916	11. 45	·01000	21. 40	36 ·0	42 ·5
3. 7	12. 35	7. 0	·0912					
3. 43	13. 50	7. 24	·0912	20. 39	·01822			
4. 30	12. 30	7. 43	·0916		·00798			
6. 38	12. 0	10. 0	·0918	23. 59	·01803			
7. 26	13. 25	10. 20	·0914					
10. 16:	11. 0	10. 45:	·0933					
10. 35:	22. 5. 25	11. 9	·0934					
11. 43:	21. 57. 40	11. 50	·0912					
12. 5	22. 12. 30	12. 10	·0906					
13. 6	9. 20	15. 15	·0922					
	***	19. 53	·0928					
16. 13	13. 0	21. 50	·0922					
	***	22. 39	·0912					
18. 43	11. 10	23. 59	·0908					
21. 20	11. 0							
22. 37	11. 30							
23. 59	15. 10							
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 20	22. 14. 20	0. 0	·0906	0. 30	·01803	1. 40	40 ·5	42 ·8
2. 3	14. 30	6. 15	·0911	3. 9	·01583	3. 40	40 ·5	42 ·5
4. 55	10. 25	7. 14	·0918	5. 10	·01107	9. 40	44 ·0	45 ·0
6. 55	10. 0	8. 45	·0916	6. 37	·00820	23. 1	34 ·0	40 ·5
8. 0	11. 15	16. 40	·0937		†			
16. 8	11. 30	17. 18	·0944	13. 44	·00852			
16. 32:	13. 50	17. 38	·0944	17. 25:	·01380			
	***	17. 50	·0940	20. 48	·01713			
17. 15	11. 10	18. 4	·0946	23. 5	·01710			
17. 50	14. 30	19. 7	·0950					
18. 22	12. 20	19. 50	·0942					
18. 36	13. 15	22. 0	·0942					
18. 43	12. 20	23. 59	·0930					
19. 14	10. 10							
	***							
20. 57	13. 20							
	***							
22. 41	12. 10							
	***							
23. 59	14. 40							
	***							
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 15	22. 15. 30	0. 15	·0935		·01720	11. 3	41 ·0	43 ·0
	***	0. 44:	·0927	0. 9	·01612	21. 40	38 ·5	43 ·0
1. 31	16. 30	1. 4	·0934		***			
1. 38	20. 30	1. 45	·0924	3. 2:	·01500			
	***	1. 59	·0938	5. 24:	·01180			
2. 2	20. 0	2. 30	·0924	7. 2	·00900			
2. 11	17. 0	2. 53	·0924		†			
	***	3. 4	·0918	20. 7	·00902			
2. 40	17. 25	3. 24	·0926	21. 45	·00930			
2. 50	15. 30	7. 5	·0930	23. 59	·01110			
3. 2	18. 25	10. 30	·0928					
3. 5	16. 40		***					
3. 28	15. 5	11. 23	·0946					
5. 40	12. 0	11. 30	·0932					
10. 51	11. 0	11. 45	·0928					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

February 17. The Horizontal Force Magnet was in contact with the copper damper.

February 19. Vertical Force Magnet. The spot of light was off the sheet from $6^h.\ 37^m.$ till $13^h.\ 44^m.$; and on February 20, from 7^h till 20^h.

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.	Readin of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 20		Feb. 20						
h m	° ′ ″	h m		h m		h m	°	°
11. 5	22. 5. 20	13. 30	·0926					
11. 55	10. 45	13. 45	·0923					
12. 20:	7. 20	14. 15	·0923					
12. 35	9. 30	14. 30	·0926					
13. 11:	4. 0	14. 37	·0924					
14. 21	11. 0	15. 5	·0930					
14. 49:	19. 10	15. 23	·0936					
15. 23:	8. 0	15. 50:	·0932					
15. 41:	10. 40	16. 8:	·0936					
16. 27	12. 25	16. 44	·0930					
17. 54	9. 0	17. 0:	·0936					
18. 3	7. 30	17. 30:	·0930					
18. 27	10. 30	17. 50	·0936					
20. 46	8. 50	18. 15	·0931					
22. 50	13. 0	18. 46	·0940					
23. 50	17. 5		***					
		19. 45:	·0933					
		20. 0	·0939					
		20. 15	·0939					
		21. 4	·0924					
		21. 30	·0926					
		22. 30	·0926					
		23. 45	·0894					
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 0:	22. 15. 35	0. 0	·0900	0. 15	·01115	1. 40	43 ·0	48 ·0
0. 40	21. 0	0. 23	·0884		***	3. 40	44 ·8	47 ·5
2. 27	17. 20	0. 45	·0896	1. 37:	·01090	9. 40	46 ·0	49 ·0
	***	1. 0	·0888		***	21. 40	38 ·5	41 ·5
2. 52	19. 25	1. 26	·0900	2. 58	·00976			
	***	2. 30	·0908	3. 58	·00730			
3. 54	17. 25	3. 7	·0898		†			
	***	3. 50	·0902	12. 59	·00740			
5. 25	12. 30	3. 59	·0908	19. 25:	·01396			
	***	4. 3	·0902	22. 2	·01720			
5. 48	17. 0		***	23. 28	·01705			
5. 58	10. 30	5. 20	·0896					
6. 8	12. 20	5. 34	·0908					
6. 10	11. 20	5. 45	·0896					
6. 22	13. 30		***					
6. 32	11. 40	6. 50	·0898					
6. 50	11. 25	7. 8	·0885					
7. 1	15. 30	7. 30	·0897					
7. 15:	10. 50	7. 38	·0880					
7. 35	17. 0	7. 54	·0888					
7. 45	8. 5	8. 7	·0880					
7. 58	13. 20	8. 27	·0880					
	***	8. 36	·0887					
8. 32	8. 0	8. 50	·0882					
8. 44	10. 35	9. 15	·0892					
9. 9	5. 0	9. 30	·0880					
9. 29	8. 35		***					
9. 38	1. 35	11. 20	·0892					
9. 55	5. 30	12. 0	·0893					
10. 16	2. 30	12. 15	·0900					
10. 45	4. 25	12. 45	·0894					
11. 18	1. 35	13. 30	·0905					
12. 0	3. 30	14. 34	·0904					

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 H. V. Magnet.
Feb. 21		Feb. 21						
h m	° ′ ″	h m		h m		h m	°	°
12. 22	22. 0. 30	15. 9	·0914					
12. 36	2. 25	16. 0	·0912					
12. 47	2. 15	17. 25	·0922					
13. 9	22. 6. 35	18. 23	·0917					
14. 18	21. 59. 10		***					
15. 6	22. 4. 30	22. 15	·0910					
15. 16	3. 30		***					
15. 29	6. 5	23. 15	·0902					
	***	23. 59	·0902					
15. 57	5. 0							
	***							
17. 18	8. 25							
17. 30	6. 40							
18. 53	9. 45							
20. 3	8. 45							
22. 51	11. 30							
23. 59	14. 0							
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 30	22. 14. 30	0. 30	·0904	0. 33	·01742	1. 40	41 ·0	43 ·0
0. 50	18. 10	0. 55	·0910	3. 15:	·01592	3. 40	43 ·7	45 ·0
1. 48	19. 0	1. 15	·0905	7. 3	·00882	9. 40	46 ·5	49 ·0
2. 18	17. 20	2. 4	·0904		†	21. 40	44 ·0	46 ·0
2. 55	21. 0	2. 15	·0895					
3. 17	19. 20	2. 45	·0904					
	***	3. 20	·0898					
4. 7	20. 20	4. 2	·0904					
5. 21	14. 35	4. 14	·0897					
6. 47	14. 35	5. 45	·0904					
7. 27	11. 10	6. 37	·0906					
7. 45	12. 45	6. 46	·0901					
	***	8. 15	·0902					
8. 8	11. 30	8. 32	·0894					
8. 27	14. 25	8. 46	·0904					
8. 42	11. 10	9. 8	·0894					
8. 57:	12. 45	9. 45	·0905					
9. 28	9. 50	11. 15	·0910					
	***	11. 53	·0914					
11. 37	12. 0	12. 20	·0908					
12. 22	9. 30	13. 15	·0912					
13. 0	11. 30	13. 48	·0908					
18. 0	12. 30	18. 20	·0920					
18. 32	10. 30	18. 50	·0910					
19. 2	12. 0	19. 50	·0919					
	***	22. 3	·0898					
22. 2	11. 55	23. 59	·0886					
23. 59	17. 15							
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
0. 13	22. 18. 0	0. 0	·0886		†	1. 40	45 ·5	49 ·5
0. 53	20. 15	1. 14	·0892	11. 37	·00807	3. 40	49 ·0	52 ·0
2. 17	16. 20	1. 26	·0886	18. 20	·01830	9. 40	49 ·0	52 ·2
2. 52	16. 15	2. 23	·0892	20. 30	·01823	21. 40	39 ·0	43 ·0
3. 1	18. 10	2. 45	·0894	22. 16	·01775			
	***	3. 4	·0902	23. 45	·01785			
3. 52	17. 0	4. 33	·0886					
	***	5. 0	·0898					
4. 35	3. 20	11. 24	·0906					

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

Feb. 21. Vertical Force Magnet. The spot of light was off the sheet from 4^h. to 13^h.

Feb. 22 and 23. Vertical Force Magnet. The spot of light was off the sheet from February 22^d. 7^h. till 23^d. 11^h. 37^m.

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 Thermometer. Of H. F. Magnet.	Readings of Thermometer. Of V. F. Magnet.
Feb. 23		Feb. 23						
h m	°	h m		h m		h m	°	°
5. 28	22. 9. 30	11. 30	·0913					
8. 15	9. 25	11. 45	·0926					
11. 37	10. 30	12. 5	·0915					
12. 8:	6. 45	12. 30	·0908					
12. 45	10. 30	18. 5	·0924					
17. 57	11. 45	21. 45	·0912					
20. 35	9. 0	22. 15	·0906					
22. 18	9. 20	23. 38	·0902					
23. 43	13. 0							
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 15	22. 14. 25	0. 0	·0902	0. 15	·01762	1. 40	41 ·5	45 ·0
1. 30	15. 0	0. 30	·0900	2. 49:	·01642	3. 40	44 ·0	46 ·5
1. 53	14. 10	3. 15	·0904	8. 5:	·01167	9. 40	44 ·6	48 ·0
2. 15	15. 0		***	16. 50:	·01365	21. 40	43 ·2	46 ·5
	***	5. 45	·0910	23. 32	·01240			
5. 28	12. 0	12. 25	·0911					
12. 52	11. 0	12. 50	·0916					
13. 35	8. 30	13. 34	·0910					
14. 13	9. 30	19. 37	·0918					
15. 5	8. 30	20. 0	·0914					
17. 36	11. 20	21. 0	·0914					
20. 50	9. 30	23. 0	·0899					
22. 5	11. 0	23. 59	·0900					
23. 59	16. 25							
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 35	22. 18. 10	0. 0	·0900	0. 10	·01233	1. 40	45 ·5	48 ·0
1. 10	16. 40	6. 15	·0897	2. 17	·01085	3. 40	48 ·5	51 ·0
2. 1	17. 0	7. 34	·0904	4. 25	·00605	9. 40	48 ·5	52 ·2
2. 20	16. 0	9. 20	·0902	6. 47	·00580	21. 45	43 ·3	46 ·5
6. 25	12. 30	9. 34	·0908	8. 29:	·00500			
	***	10. 4	·0900	10. 50	·00655			
9. 17	13. 30	10. 23	·0899	16. 7	·01430			
9. 35	8. 45	11. 8	·0906	19. 17	·01815			
10. 4	8. 30	12. 47	·0903	23. 59	·01760			
10. 32	11. 20	14. 5	·0910					
	***	20. 15	·0916					
11. 32	9. 50	21. 50	·0911					
12. 45	11. 30							
13. 47	7. 25							
15. 43	10. 30							
17. 40	11. 5							
21. 55	10. 0							
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 0	22. 12. 50	0. 8	·0901	0. 30	·01750	1. 40	46 ·0	47 ·5
3. 0	16. 0	3. 12	·0906	3. 0:	·01510	3. 40	48 ·5	48 ·5
3. 32	14. 35	3. 34	·0902	5. 26:	·01030	9. 40	47 ·0	49 ·0
7. 35	12. 30	4. 4	·0906	8. 53	·00780			
7. 51	11. 35	8. 34	·0908	12. 5	·00825			
8. 51	14. 0	8. 55	·0902	14. 47	·01000			
9. 39	9. 25	10. 6	·0896	19. 13	·01360			
10. 35	8. 20	16. 30	·0914	23. 59	·01575			
11. 30	10. 20	16. 45	·0916					
12. 7	9. 30	23. 59	·0912					
15. 15	12. 0							
21. 30	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 Thermometer. Of H. F. Magnet.	Readings of Thermometer. Of V. F. Magnet.
Feb. 26								
h m	° ′ ″	h m		h m		h m	°	°
22. 47	22. 12. 30							
23. 55	15. 30							
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
1. 0	22. 16. 0	0. 0	·0925	0. 23	·01600	0. 40	44 ·5	45 ·5
1. 19	17. 30		***	4. 0	·01665	9. 40	43 ·5	47 ·5
1. 31	16. 30	0. 45	·0923	8. 57	·01580	21. 40	38 ·0	42 ·0
2. 5	17. 40	1. 0	·0912	11. 33	·01628			
3. 33	15. 10	1. 22	·0918	12. 0	·01582			
4. 0	16. 35	3. 30	·0920	14. 40	·01764			
5. 0	15. 30	4. 8	·0926	16. 0	{ ·01751			
7. 26	19. 0	8. 0	·0916		{ ·01570			
8. 58	14. 45	8. 45	·0924	17. 45	·01632			
9. 10	17. 0	9. 40	·0903	20. 48	·01620			
9. 20	15. 20	11. 0	·0916	23. 59	·01558			
9. 30	16. 30	11. 20	·0914					
10. 7	12. 30	11. 40	·0930					
10. 52	11. 30	12. 0	·0922					
11. 30	7. 0	12. 30	·0911					
11. 53	13. 25	13. 35	·0922					
12. 15:	12. 20	14. 7	·0916					
12. 32	10. 0	15. 33	·0920					
12. 47	8. 10	17. 7	·0934					
14. 15	11. 40	19. 15	·0935					
15. 10	9. 0	20. 0	·0921					
16. 15	12. 45	20. 36	·0922					
17. 35	12. 30	21. 55	·0943					
17. 43	14. 0		***					
	***	23. 5	·0936					
19. 27	12. 0	23. 20	·0918					
	***	23. 40	·0946					
20. 47	18. 30							
	***							
21. 21	16. 0							
	***							
22. 7	17. 45							
	***							
23. 6	15. 20							
23. 13	17. 25							
23. 30:	14. 10							
23. 59	15. 50							
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 13	22. 17. 0	0. 45	·0922	0. 30	·01535	1. 40	41 ·5	44 ·5
0. 36	14. 30	2. 2	·0922	2. 53:	·01230	3. 40	56 ·0	49 ·0
0. 45	17. 0	2. 9	·0913	5. 3	·00524	9. 40	47 ·4	48 ·5
1. 22	13. 45	2. 25	·0910	7. 54	·00520	21. 40	39 ·5	43 ·2
1. 58	17. 0	2. 38	·0920	13. 40	·01035			
2. 4	14. 0	2. 47	·0908		(†)			
2. 19	14. 20	3. 38	·0904					
2. 32	17. 35	3. 56	·0914					
2. 35	14. 20	4. 15	·0904					
2. 44	14. 15	4. 38	·0916					
2. 48	15. 15	5. 0	·0906					
3. 38	12. 30	5. 17	·0915					
3. 52	15. 45	5. 34	·0895					
4. 13	13. 0	6. 55	·0908					
4. 35	14. 50	7. 50	·0908					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 28		Feb. 28						
h m	° ′ ″	h m		h m		h m	°	°
4. 57	22. 13. 30	8. 30	·0890					
	***	8. 57	·0910					
7. 51	12. 25	9. 27:	·0903					
8. 33	3. 20	10. 0	·0914					
8. 53	9. 30	10. 30	·0906					
	***	10. 45	·0916					
9. 27	9. 20	11. 0	·0910					
	***	13. 38	·0916					
10. 27	11. 20	14. 7	·0932					
	***	14. 38	·0910					
13. 30	9. 35	15. 11	·0932					
13. 48	12. 15	15. 55	·0912					
13. 58	8. 30	16. 2	·0916					
14. 42	15. 0	16. 17	·0906					
15. 22	5. 0	16. 30	·0916					
	***	16. 38	·0913					
16. 28	11. 45		***					
	***	20. 35	·0926					
16. 45	10. 0	21. 45	·0913					
	***	23. 59	·0913					
17. 25	14. 0							
17. 32	11. 30							
17. 36	13. 10							
17. 40	11. 35							
18. 8	13. 20							
	***							
19. 45	10. 40							
23. 59	13. 0							
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 7	22. 13. 30	0. 5	·0913	0. 10	·01732	1. 40	42·0	43·5
0. 53	14. 5	1. 0	·0918	2. 52:	·01605	3. 40	45·0	46·5
1. 3	15. 0	1. 30:	·0910	5. 16	·01305	9. 40	45·0	47·5
1. 21	13. 30	2. 0	·0915	9. 18	·00958	21. 40	41·0	44·0
1. 52	13. 30	2. 40	·0906	12. 13	·00827			
2. 0	15. 30	4. 50	·0902	14. 31:	·00882			
	***	5. 4	·0910	20. 25	·01362			
3. 35	13. 30		***	23. 59	·01465			
	***	7. 30	·0912					
4. 2	15. 0	7. 40	·0932					
	***	8. 0	·0918					
4. 35	12. 0		***					
	***	8. 34	·0914					
7. 0	11. 15	9. 38	·0912					
7. 20	11. 45	10. 45	·0918					
7. 42	1. 10	11. 5	·0922					
	***	12. 37	·0914					
8. 23	9. 35	15. 30	·0917					
	***	15. 40	·0914					
9. 9	12. 15	17. 8	·0924					
9. 40	10. 5	17. 30	·0921					
10. 38	10. 45	18. 34	·0928					
11. 2	8. 30	20. 0	·0920					
11. 35	10. 20	21. 38	·0916					
11. 55	8. 50	21. 52	·0912					
12. 26	8. 30	22. 15	·0917					
13. 7	8. 0	22. 55	·0910					
14. 40	10. 0	23. 30	·0906					
	***							

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 Thermo meters. Of H. F. Magnet.	Readings of Thermo meters. Of V. F. Magnet.
Mar. 1								
h m	° ′ ″	h m		h m		h m	°	°
16. 10	22. 13. 0							
	***							
17. 0	11. 30							
18. 5	13. 0							
19. 16	11. 25							
20. 7	10. 0							
	***							
21. 26	14. 0							
23. 15	16. 45							
23. 59	15. 30							
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 39	22. 16. 0	0. 5	·0918	0. 16	·01475	1. 40	44·0	46·0
2. 42	12. 30	2. 50	·0909	2. 5:	·01325	3. 40	48·0	49·5
	***	3. 11	·0912	5. 26	·00540	9. 40	47·0	49·8
6. 7	12. 0	4. 25	·0906	7. 5:	·00565	21. 40	43·5	47·3
6. 47	13. 20	5. 30	·0904	10. 32:	·00400			
10. 13	11. 30	8. 34	·0916	13. 43	·00488			
10. 39	10. 10	8. 45	·0911	16. 35	·00697			
11. 34	11. 40		***	19. 30:	·01035			
11. 42	10. 30	12. 47	·0916	23. 59	·01368			
11. 59	11. 0	13. 0	·0908					
12. 10	9. 10	13. 35	·0910					
12. 32	11. 0	13. 49	·0906					
12. 53	8. 50	14. 5	·0912					
	***	15. 0	·0910					
14. 5	12. 40	15. 30	·0916					
	***	15. 45	·0906					
14. 53	10. 45	16. 15	·0930					
15. 16	7. 15		***					
15. 42	17. 0	17. 12	·0913					
16. 34	6. 0		***					
	***	17. 40	·0925					
17. 2	8. 0		***					
	***	18. 14	·0914					
21. 26	14. 10		***					
21. 37	16. 5	18. 55	·0921					
21. 46	13. 30	19. 53	·0912					
	***	20. 45	·0916					
23. 44	19. 30	21. 35	·0910					
	***	21. 45	·0904					
23. 58	17. 30	22. 4	·0908					
	***	23. 45	·0897					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 6	22. 15. 20	1. 5	·0900	0. 18	·01390	1. 40	47·0	49·3
0. 9	17. 25	2. 53	·0893		***	3. 40	50·0	52·3
0. 11	15. 20	3. 15:	·0902	1. 25	·01350	9. 40	49·5	52·8
0. 40	20. 0	3. 35	·0890	3. 20	·01070	21. 40	41·0	45·0
1. 11:	16. 0	4. 50	·0902	5. 14	·00595			
1. 58	17. 45		***	5. 58	·00570			
3. 17	15. 30	7. 8	·0900		·00756			
	***		***	10. 7	·00855			
5. 24	10. 25	8. 0	·0914	11. 15	·00842			
	***		***	13. 18:	·00970			
8. 24	22. 11. 45	9. 20	·0887	19. 23	·01750			
9. 27	21. 52. 20	9. 45	·0908	22. 30	·01675			
10. 19	22. 7. 0	10. 17	·0912	23. 35	·01715			

For the Horizontal and Vertical Forces, increased 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. 3		Mar. 3						
h m	° ′ ″	h m		h m		h m	°	°
11. 5	22. 9. 30	10. 25	·0908					
11. 15	12. 0	16. 15	·0910					
11. 35	8. 25	16. 43	·0918					
	***	16. 50	·0913					
13. 20	13. 0	16. 59	·0918					
	***	17. 3	·0914					
14. 50	9. 25	18. 30	·0925					
	***	18. 35	·0922					
16. 56	14. 10		***					
	***	21. 50	·0916					
18. 6	10. 30	22. 50	·0914					
	***	23. 0	·0920					
21. 16	11. 15	23. 59	·0904					
	***							
22. 50	14. 15							
23. 13	18. 20							
23. 36	18. 30							
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 0	22. 18. 0	0. 4	·0902	0. 30	·01733	1. 40	45 ·0	48 ·3
0. 30	17. 55	0. 25	·0904	2. 13	·01595	3. 40	49 ·5	51 ·5
0. 40	19. 20	1. 0	·0893	6. 20	·00532	9. 40	49 ·8	52 ·0
2. 54	16. 30	1. 15	·0896		·00710	21. 40	47 ·0	50 ·0
3. 16:	12. 35	1. 26	·0906	6. 50	·00680			
3. 24:	13. 0	1. 33	·0898	9. 44	·00777			
3. 45:	11. 15		***	11. 28	·00727			
5. 37	10. 0	2. 30	·0904	16. 28:	·01210			
9. 11	22. 9. 45	3. 0	·0892	19. 33:	·01287			
10. 6	21. 51. 45	3. 25	·0894	23. 22	·01195			
10. 23	21. 53. 15	3. 50	·0906					
10. 59	22. 4. 40	4. 45	·0904					
11. 13	1. 30	5. 15	·0896					
11. 26	7. 50	7. 8	·0902					
11. 40	7. 0	8. 15	·0914					
11. 47	8. 0	8. 30	·0908					
12. 0	6. 30	9. 20	·0905					
	***	10. 23	·0930					
12. 56	10. 35	11. 0	·0886					
13. 30	9. 0	11. 30	·0902					
14. 8	13. 0	11. 45	·0888					
15. 35	10. 30	12. 40	·0901					
	***	13. 1	·0898					
21. 7	9. 25	13. 15	·0903					
22. 6	9. 30	13. 45	·0900					
22. 15	12. 0	13. 55	·0903					
22. 20	8. 50	18. 23	·0914					
22. 27	11. 0		***					
23. 59	15. 5	19. 37	·0902					
		22. 2	·0901					
		22. 5	·0905					
		22. 15	·0897					
		22. 18	·0904					
		22. 45	·0897					
		23. 59	·0891					
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 25	22. 13. 45	0. 4	·0891	0. 17	·01142	1. 40	51 ·0	53 ·0
1. 0	14. 50	0. 34	·0900	1. 18:	·01008	3. 40	53 ·5	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.	Of V. F. Magnet.
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
h m	° ′ ″	h m		h m		h m	°	°
1. 37	22. 13. 25	4. 5	·0898	2. 58	·00650	9. 40	55 ·0	57 ·0
3. 20	11. 15	4. 45	·0901		·00702	23. 16	52 ·4	54 ·0
3. 30	12. 35	5. 14	·0896	4. 20	·00731			
4. 5	10. 25	7. 30	·0894	10. 18	·00674			
5. 26	9. 20	7. 37	·0891	11. 17	·00700			
	***	8. 4	·0901	12. 28	·00799			
7. 24	10. 30	9. 56	·0896	15. 55	·00957			
7. 45	6. 30	10. 14	·0907	20. 21	·01262			
8. 11	10. 0	10. 56	·0898	23. 35	·01418			
	***	11. 10	·0902					
8. 20	9. 0	11. 30	·0907					
9. 5	10. 30	12. 20	·0900					
9. 43	8. 50	13. 0:	·0908					
9. 54	10. 5	13. 30	·0902					
10. 35:	6. 15	15. 45	·0901					
11. 8	11. 30	16. 6	·0896					
11. 43	11. 45	17. 0	·0904					
12. 6	10. 30	19. 40	·0907					
12. 20	10. 25	20. 30	·0904					
12. 43	9. 45	21. 15	·0890					
12. 56	11. 15	21. 30:	·0888					
13. 28	9. 30	21. 40	·0890					
	***	22. 0	·0896					
14. 51	11. 0	23. 5	·0902					
	***	23. 59	·0896					
15. 41:	9. 30							
16. 4:	13. 0							
16. 17	12. 0							
16. 28	13. 0							
	***							
17. 7	11. 20							
	***							
20. 20	8. 30							
	***							
22. 16	14. 0							
22. 21	12. 30							
23. 28	14. 20							
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 7	22. 13. 0	0. 4	·0901	1. 0	·01462	11. 36	55 ·0	58 ·0
2 21	9. 30	1. 0	·0904	3. 53	·01420	21. 40	53 ·5	56 ·0
4. 0	9. 0	2. 0	·0898	9. 18	·00932			
6. 12	10. 45	7. 15	·0904	11. 15	·00850			
10. 15	12. 0	11. 2:	·0897	14. 27:	·00957			
12. 1	11. 20	11. 40	·0904	18. 57	·01227			
12. 23	8. 45	12. 3	·0902	20. 52	·01217			
12. 58	9. 30	12. 44	·0928	23. 48	·01267			
13. 7	6. 0	12. 57	·0895					
13. 17	9. 25	13. 14	·0902					
14. 11	9. 40	15. 45	·0888					
14. 37:	8. 40	16. 55	·0892					
15. 0:	10. 40	17. 3	·0888					
	***	17. 35	·0916					
16. 3	9. 25	17. 57	·0890					
	***	18. 46	·0898					
16. 36	11. 20	19. 6	·0893					
	***	19. 35	·0904					
17. 28	10. 30	20. 21	·0886					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.
Mar. 6		Mar. 6						
h m	° ′ ″	h m		h m		h m	°	°
17. 32	22. 12. 0	20. 40	·0910					
18. 8	0. 0	21. 4	·0900					
18. 31	12. 0	21. 23:	·0904					
19. 29	14. 40	21. 42	·0898					
	***	22. 35	·0902					
19. 58	9. 15	22. 50	·0896					
	***	23. 5:	·0903					
20. 44	18. 30	23. 23:	·0898					
21. 3	16. 35	23. 59	·0900					
22. 45	17. 50							
23. 3	16. 50							
23. 18	18. 30							
23. 42	16. 30							
23. 52	18. 0							
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 10	22. 13. 0	0. 5	·0897	0. 12	·01265	1. 40	56 ·0	57 ·2
	***	0. 20	·0902	2. 48:	·01155	3. 40	58 ·0	59 ·0
1. 39	15. 0	2. 23	·0899		***	9. 40	58 ·0	59 ·5
2. 35	12. 0	2. 40	·0900	5. 58	·00847	21. 40	51 ·0	53 ·0
3. 29	11. 50	2. 56	·0910		***			
4. 40	15. 0	3. 30	·0883	7. 0	·00835			
4. 47	15. 30	3. 40	·0890	7. 12	·00888			
4. 50	14. 20	4. 5	·0886	7. 17	·00805			
5. 3	15. 25		***	7. 20	·00857			
5. 11	14. 25	5. 20	·0902		***			
5. 19	15. 40	5. 23	·0888	9. 23	·00887			
5. 21	13. 40	5. 30	·0902		***			
5. 31	15. 35	5. 35	·0899	10. 50	·00762			
5. 44	13. 40	6. 0	·0910	12. 58	·00825			
6. 15	15. 20	6. 7	·0906	13. 40	·00710			
6. 22	10. 30	6. 12	·0929		***			
6. 29	22. 13. 20	6. 20	·0916	16. 10	·01003			
	***	6. 27	·0936	20. 27	·01700			
6. 57	21. 50. 30	6. 44	·0906	22. 15	·01872			
	***		***	23. 59	·01912			
7. 14	55. 30	7. 5	·0948					
7. 15	21. 53. 0	7. 34	·0886					
7. 18	22. 2. 30		***					
7. 19	1. 0	8. 34	·0892					
7. 31	8. 0	8. 46	·0880					
	***	9. 32	·0900					
7. 57	3. 50	9. 45	·0880					
	***	9. 50	·0896					
8. 17	8. 40	10. 13	·0888					
	***	10. 16	·0886					
8. 32	4. 0	10. 56	·0873					
8. 47	4. 20	11. 16	·0888					
9. 30	22. 11. 50	11. 35	·0893					
9. 56	21. 56. 0	12. 0	·0882					
10. 5	59. 30	12. 35	·0884					
10. 16	54. 0	12. 55	·0924					
10. 18	55. 0	13. 14	·0892					
10. 29	21. 50. 20	13. 27	·0885					
10. 45	22. 5. 0	13. 45	·0920					
10. 48	4. 30	14. 8	·0902					
10. 55	6. 30	14. 23	·0906					
11. 8	3. 55	14. 38	·0896					

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		Mar. 7						
h m	° ′ ″	h m		h m		h m	°	°
11. 28	22. 6. 30	14. 53	·0894					
11. 42	5. 15	16. 5	·0912					
	***	16. 15	·0923					
12. 57	8. 30		***					
13. 17	17. 45	16. 34	·0924					
13. 30	16. 40		***					
13. 58:	8. 0	17. 30	·0895					
14. 12	11. 0	18. 15	·0901					
14. 23	7. 45	18. 23	·0896					
14. 30	22. 8. 25	18. 32	·0908					
15. 28	21. 47. 0		***					
16. 8	22. 9. 30	18. 50	·0906					
16. 30	8. 0		***					
16. 36	9. 45	19. 15	·0886					
16. 45	6. 30	19. 23	·0900					
16. 51	8. 50	19. 34	·0883					
	***	19. 46	·0877					
18. 8	8. 25	19. 55	·0886					
18. 20	4. 0	20. 32	·0892					
	***	20. 55	·0884					
18. 42	7. 30	21. 0	·0885					
18. 50	11. 0	21. 17	·0896					
19. 10	7. 0		***					
	***	21. 35	·0892					
19. 43	12. 25	21. 45	·0888					
	***		***					
20. 13	11. 30	22. 15	·0886					
20. 25	14. 0	22. 30	·0876					
	***	23. 0	·0884					
21. 15	11. 25	23. 15	·0892					
21. 20	15. 0	23. 30	·0883					
21. 30	11. 35	23. 45	·0888					
	***	23. 46	·0878					
22. 27	12. 0	23. 59	·0882					
	***							
22. 50	12. 25							
	***							
23. 18	12. 0							
	***							
23. 27	13. 30							
23. 30	17. 0							
23. 32	14. 30							
23. 43	18. 30							
	***							
23. 50	16. 15							
23. 59	17. 35							
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
1. 0	22. 21. 0	0. 5	·0888	1. 27	·01950	1. 40	54 ·0	56 ·0
1. 14	13. 40	0. 20	·0880		***	3. 40	55 ·0	57 ·0
	***	0. 30	·0858	3. 56	·01712	9. 40	55 ·5	57 ·0
1. 32	17. 25	1. 34	·0896	4. 17	·01730	21. 40	47 ·0	53 ·0
	***	2. 15	·0890		***			
1. 53	16. 0	2. 46	·0908	6. 28	·01467			
	***	3. 4	·0892		***			
2. 25	17. 0	3. 25	·0916	7. 17	·01420			
	***	4. 15	·0904		***			
2. 52	20. 30	6. 9	·0917	8. 33	·01242			

For the Horizontal and Vertical Forces, increased 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. 8		Mar. 8		Mar. 8		h m	°	°
h m	° ′ ″	h m		h m	***			
3. 3	22. 18. 15	6. 35	·0912					
	***	6. 50	·0918	9. 47	·01280			
3. 22	21. 50	7. 16	·0911	10. 28	·01235			
3. 29	21. 25		***	11. 50	·01278			
3. 37	24. 0	8. 30	·0904	12. 17	·01180			
	***	8. 34	·0914	13. 15	·01090			
4. 8	10. 30	8. 40	·0906	14. 2	·01170			
4. 23	17. 25	8. 45	·0913	14. 24	·01162			
	***		***		***			
4. 37	14. 30	9. 23	·0910	19. 44	·01900			
	***	9. 34	·0892	23. 54	{ ·01855			
4. 55	19. 0	10. 20	·0936		{ ·01750			
5. 4	15. 20	10. 30	·0936					
5. 11	18. 30	10. 35	·0923					
5. 17	17. 20		***					
5. 23	19. 0	11. 16	·0902					
	***	11. 30	·0906					
6. 6	13. 40	11. 41	·0898					
6. 17	13. 40	12. 5	·0931					
6. 33	8. 30	12. 24	·0914					
7. 2	22. 9. 25	12. 55	·0954					
7. 17	21. 46. 30	13. 14	·0918					
7. 31	59. 0	13. 40	·0902					
7. 36	21. 53. 40		***					
7. 55	22. 3. 30	14. 23	·0908					
8. 5	22. 3. 0	14. 40	·0892					
8. 20	21. 55. 20	14. 50	·0900					
8. 27	59. 35	15. 0	·0892					
8. 38	53. 10	15. 4	·0900					
8. 47	56. 25	15. 23	·0886					
9. 12	21. 49. 30	15. 38	·0906					
9. 35	22. 4. 25	15. 45	·0891					
9. 55	22. 3. 30	16. 35	·0904					
10. 17	21. 54. 30		***					
10. 36	22. 4. 0	17. 58	·0896					
10. 43	2. 0	18. 5	·0902					
	***	18. 24	·0900					
11. 12	22. 2. 10	18. 34	·0912					
11. 25	21. 59. 20	19. 4	·0904					
12. 2	22. 14. 40	19. 15	·0956					
12. 8	12. 0	19. 25	·0942					
12. 20	15. 30	19. 38	·0950					
12. 40	5. 0	19. 53	·0926					
13. 7	17. 25	20. 2	·0926					
13. 58	7. 30	20. 15	·0938					
14. 31	51. 30	20. 30	·0898					
15. 2	8. 30	20. 55	·0907					
15. 17	5. 25	21. 15	·0906					
15. 31	7. 10	21. 37:	·0886					
15. 50	3. 0	22. 0	·0886					
16. 32	10. 40	22. 8	·0896					
16. 50	6. 0		***					
	***	22. 45	·0894					
17. 16	10. 0		***					
17. 27	7. 0	23. 17	·0906					
	***	23. 28	·0905					
17. 42	8. 30	23. 40	·0896					
	***	23. 59	·0898					
17. 52	6. 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. 8								
	° ′ ″	h m		h m		h m	°	
	***							
18. 10	22. 6. 30							
	***							
18. 17	8. 45							
19. 18	11. 0							
19. 30	8. 45							
	***							
19. 51	12. 0							
19. 53	8. 0							
20. 0	12. 0							
20. 4	8. 50							
20. 7	12. 0							
20. 9	9. 35							
	***							
20. 36	12. 20							
20. 38	9. 40							
	***							
21. 20	14. 0							
21. 44	11. 30							
21. 59	13. 35							
	***							
22. 17	11. 30							
22. 28	17. 30							
	***							
23. 0	12. 0							
	***							
23. 30	19. 0							
23. 59	16. 30							
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0.	22. 20. 0	0. 15	·0906	1. 8	·01730	1. 40	49 ·0	54 ·0
	***	1. 0	·0902	2. 17	·01742	3. 40	53 ·0	56 ·0
2. 1	12. 50	1. 28	·0904	3. 37	·01617	9. 40	54 ·0	56. 0
	***	1. 32	·0897	5. 22	·01287	21. 40	48 ·5	53 ·0
3. 6	23. 15	1. 50	·0908	5. 36	·01270			
3. 22	15. 10	1. 55	·0900	8. 28	·00755			
3. 30	16. 0	2. 15	·0911	10. 2	·00715			
3. 43	9. 50		***	10. 35	·00600			
4. 0	14. 45	3. 0	·0905	15. 38	·01018			
4. 45	14. 25	3. 8	·0984	18. 23:	·01352			
4. 52	16. 30	3. 15	·0904	21. 27	·01506			
5. 5	12. 45	3. 17	·0897	23. 59	·01612			
	***	3. 28	·0908					
5. 25	22. 14. 10	3. 45	·0902					
5. 35	21. 50. 10	3. 50	·0912					
6. 0	22. 5. 30	3. 53	·0906					
6. 15	9. 25	4. 0	·0916					
6. 19	8. 30	4. 3	·0905					
6. 29	10. 5	4. 16	·0897					
6. 38	7. 50	4. 30	·0906					
6. 48	12. 10	4. 38	·0896					
6. 55	11. 0	4. 50	·0910					
7. 6	13. 30	5. 0	·0896					
7. 11	11. 25	5. 4	·0902					
7. 20	12. 30	5. 27	·0886					
7. 29	7. 30	5. 45	·0942					
7. 39	5. 0	6. 4	·0907					
	***	6. 15	·0903					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 : atttached 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.
Mar.9		Mar.9						
h m	′	h m		h m		h m	°	°
8.16	22. 9. 0	6.23	·0908					
8.24	6. 0	6.34	·0896					
8.40	9.50	6.45	·0902					
9.32	11.45	6.50	·0898					
9.55	5.30	7. 5	·0902					
10. 2	10.30	7.14	·0898					
10.30	15.25	7.27	·0900					
10.46	6.40		***					
11. 2	14. 0	8. 8	·0924					
11.14	11.15	8.24	·0912					
11.25	12.30	8.30	·0920					
	***	8.45	·0911					
13. 1	6.45	9.48	·0908					
13.23	16. 0	10. 2	·0946					
14. 1	12.45	10.20	·0946					
14.13	14. 0	10.40	·0916					
15.17:	7. 0	10.50	·0921					
15.47	15. 0	11. 3	·0910					
	***	11.16	·0917					
16.21	9.55	11.40	·0906					
16.31	11.30	12.16	·0906					
16.41	9.25	12.30	·0914					
17.25	10.35	12.45	·0903					
17.54	8.20	12.55	·0906					
18.28	8.30	13.14	·0899					
	***	13.30	·0902					
20.30	20. 0	13.50	·0914					
	***		***					
20.43	20. 0	15.33	·0920					
20.47	17.20	15.45	·0908					
	***	16.20	·0914					
21. 2	19. 0	16.25	·0920					
21.29:	15. 0	16.35:	·0912					
22. 7	17. 0	16.45	·0918					
	***	18.55	·0912					
22.46	14. 0	19.15	·0896					
	***	19.35	·0892					
23.25	18. 0	20. 8	·0906					
	***		***					
23.58	18. 0	21. 5	·0902					
	***	22.25	·0904					
		22.50	·0890					
			***					
		23.59	·0886					
Mar.10		Mar.10		Mar.10		Mar.10		
0.36	22. 17. 0	0.29	·0894	0.46	·01578	1.40	53 ·0	56 ·0
	***	0.35	·0894	3.48	·01130	3.40	56 ·0	58 ·0
1.32	18.30	2.34	·0910	5. 5.	·00880	9.40	57 ·0	58 ·0
1.59	15. 0	3. 0	·0894		·00932	21.40	48 ·0	49 ·0
2.33	15.25	3.23	·0908	6.20	·00868			
2.45	12.30	3.30	·0902	6.28	·00902			
	***	3.55	·0906	10. 5	·00742			
4. 4	14.30	4.15	·0890	11.19	·00957			
4.52	4.45	4.23	·0896		***			
5.25	11. 0	4.36	·0882	12.27	·00942			
6. 0	22. 12. 30	5. 8	·0906	14.20	·01122			
6.25	21. 55. 30	5.35	·0912	18.50	·01855			
	***	5.50	·0904	23.59	·01886			

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. Magn t.	Of V, F. M t. net.
Mar.10		Mar.10						
h m	° ′ ″	h m		h m		h m	°	°
7.55	22. 8. 0	6. 0	·0910					
8.10	7.30	6.20	·0886					
8.20	3.20	6.34	·0937					
8.47	12.30	7. 8	·0913					
9. 5	4. 0	8. 0	·0898					
9. 6	6.10	8.16	·0902					
9.22	0.30	8.29	0918					
9.40	16. 0	8.38	·0916					
9.55	14.30	8.53	·0900					
10. 7	17.40	9. 8	·0914					
10. 9	4. 0	9.15	·0912					
10.35	7. 5	9.30	·0943					
10.42	5.45	10.15	·0897					
10 53	5.30	10.30	·0915					
11. 5:	8.25	11.12	·0888					
11.18	4.25	11.20	·0902					
11.45	15.30	11.35	·0918					
11.55	5.20	11.53	·0896					
12.11	12. 0	12. 2	·0920					
12.40	7. 0	12.23	·0906					
	***	12.45	·0910					
13.23	9. 0		***					
13.35	13. 0	13.15	·0900					
13.53	14.30	13.45	·0913					
14.13	21. 0	14.20	·0900					
14.54	11. 0	15.30	·0926					
15.42	4.30	16.45	·0901					
16.24	6. 0	17.24	·0917					
16.57	11.30		***					
	***	19. 0	·0914					
17.44	7.30	19.15	·0906					
	***	20.14	·0906					
17.56	10.20	20.35:	·0912					
	***	21. 8	·0902					
18.20	8. 0	21.24	·0906					
	***	23.14	·0886					
19.55	10.35	23.46	·0886					
	***							
20.29	13. 0							
20.58	11.15							
21. 2	12.30							
	***							
21.17	9.20							
	***							
22. 8	13. 0							
	***							
22.58	12. 0							
	***							
23.22	14.50							
	***							
23.50	14.45							
Mar.11		Mar.11		Mar.11		Mar.11		
0. 7	22. 17. 30	0. 5	·0891	0.46	·00815	1.40	51 ·7	53 ·8
	***	1.20	·0888		***	3.40	55 ·5	57 ·5
1.42	16.40	1.33	·0891	3. 8	·01595	9.40	56 ·2	58 ·2
2.28	21.10	2.20	·0880	5.46	·00918	21.40	49 ·0	52 ·0
2.35	25.40	4.30	·0893	7. 0	·00902			

For the Horizontal and Vertical Forces, increased 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. 11		Mar. 11		Mar. 11		h m	o	o
h m	o / //	h m		h m				
2. 44	22. 16. 30	4. 46	·0905	7. 43	·00938			
2. 48	13. 45		***	9. 37	·00828			
3. 2	10. 0	5. 12	·0906		***			
3. 21	10. 25	5. 30	·0893	10. 40	·00733			
	***	5. 44	·0920	11. 30	·00760			
3. 33	13. 45	6. 8	·0913		***			
3. 40	11. 50	6. 15	·0904	13. 10	·00822			
4. 35	17. 0	6. 23	·0906	13. 15	·00950			
4. 58	6. 30	6. 33	·0900	14. 12	·01002			
5. 13:	11. 45	7. 0	·0906	17. 39	·01540			
5. 22:	10. 30	7. 15	·0891	20. 40	·01854			
5. 35:	12. 10	7. 23	·0892	22. 30	·01818			
5. 54:	9. 45	7. 36	·0914	23. 59	·01830			
6. 15	15. 0	7. 54	·0893					
6. 17	13. 0	8. 15	·0900					
6. 32	12. 0	8. 25	·0896					
6. 45	0. 0	8. 45	·0908					
6. 53	22. 0. 15	9. 15	·0880					
6. 59	21. 59. 0	9. 45	·0926					
7. 16	22. 7. 0	9. 56	·0906					
7. 28	4. 0		***					
7. 42	5. 10	10. 22	·0894					
7. 47	4. 0	10. 30	·0904					
7. 58	6. 45	10. 45	·0896					
	***	11. 45	·0896					
8. 11:	4. 45	11. 48	·0933					
8. 51	9. 30	12. 2	·0916					
9. 6	22. 8. 30	12. 6	·0934					
9. 16	21. 56. 20	12. 30	·0883					
9. 28	22. 4. 0	12. 54	·0926					
9. 35	0. 30	13. 8	·0914					
9. 46	11. 0	13. 28	·0926					
10. 13	1. 0	13. 44	·0885					
10. 21	22. 5. 0	13. 57	·0883					
10. 42:	21. 56. 25	14. 4	·0873					
10. 59	22. 1. 45	14. 16	·0876					
11. 22	21. 52. 0	14. 30	·0866					
11. 42	21. 58. 30	15. 16	·0906					
11. 55	22. 11. 0		***					
12. 0	9. 0	16. 4	·0900					
12. 12	10. 30	16. 45	·0884					
12. 23	7. 0	17. 14	·0885					
12. 52	13. 25	17. 30	·0898					
	***		***					
13. 10	22. 12. 30	18. 40	·0911					
13. 47	21. 56. 45	18. 57	·0900					
14. 28:	22. 21. 10	19. 35	·0904					
15. 22	9. 35	20. 12	·0890					
15. 43	11. 25	21. 0	·0911					
16. 2	8. 0		***					
16. 15	9. 30	21. 40	·0904					
16. 44	9. 0	21. 45	·0913					
16. 58	10. 25	21. 55	·0902					
17. 11	9. 15	22. 0	·0908					
17. 44	11. 0	22. 37	·0884					
17. 54	10. 30	23. 0	·0898					
18. 32	13. 25		***					
18. 53	9. 35	23. 35	·0893					
	***	23. 59	·0877					

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. 11	o	h m		h m		h m	o	o
h m	/ //							
20. 15	22. 12. 30							
20. 19	9. 40							
	***							
20. 40	13. 30							
	***							
21. 13	11. 15							
21. 26	13. 25							
21. 35	12. 0							
21. 45	18. 20							
21. 50	15. 0							
21. 57	16. 0							
	***							
22. 28	14. 25							
	***							
22. 42	18. 0							
	***							
23. 22	19. 0							
	***							
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 3	22. 16. 15	0. 0	·0876	0. 27	·01883	1. 40	52 ·5	55 ·c
	**	1. 5	·0894	1. 19	·01858	3. 40	56 ·0	59 ·0
0. 26	17. 30	2. 32	·0898	3. 33	·01475	9. 40	57 ·0	60 ·c
	***	2. 54	·0878	4. 48	·01073	23. 5	49 ·0	53 ·0
0. 58	15. 30	3. 31	·0899	6. 16	·01060			
	***	4. 0:	·0880	8. 13	·00940			
1. 20	17. 20	4. 19	·0896		***			
	***	4. 27	·0892	9. 43	·01055			
2. 4	16. 0	4. 40	·0912	9. 53	·01093			
	***	4. 50	·0892	10. 24	·01078			
2. 14	19. 45		***	13. 48	·01427			
	***	5. 28	·0902	16. 51	·01883			
2. 53	20. 35	5. 47	·0883	18. 5	·01805			
	***	6. 4	·0916	20. 35:	·01882			
3. 15	16. 50		***	23. 59	·01898			
	***	6. 45	·0905					
3. 30	14. 0	6. 57	·0888					
3. 38	11. 40		***					
3. 43	12. 0	8. 9	·0888					
3. 55	8. 30	8. 15	·0896					
	***	8. 29	·0896					
4. 40	10. 30	8. 36	·0921					
4. 46	13. 10	8. 46	·0885					
4. 55	10. 30	9. 4	·0910					
5. 12	12. 0	9. 12	·0890					
5. 37	22. 11. 30		***					
5. 58	21. 54. 20	9. 31	·0914					
6. 13	22. 2. 15	9. 46	·0898					
6. 37	2. 35	10. 2:	·0934					
7. 13	9. 25	10. 30	·0882					
	***	10. 38	·0900					
7. 52	7. 25	10. 45	·0894					
	***	11. 0	·0898					
8. 10	9. 20	11. 23	·0896					
	***	11. 31	·0902					
8. 33	4. 15	12. 5	·0882					
8. 40	12. 25	12. 40:	·0897					
8. 53	2. 0	13. 0	·0893					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.
Mar. 12 h m	° ′ ″	Mar. 12 h m		h m		h m	°	°
9. 8	22. 10. 30	13. 26	·0908					
9. 30	4. 30	13. 40	·0900					
9. 36	22. 6. 30	14. 40	·0907					
9. 52	21. 54. 0	14. 55	·0912					
10. 11	22. 2. 0	16. 15	·0892					
			***					
10. 35	21. 49. 0							
10. 48	21. 52. 0	17. 45:	·0930					
11. 0	22. 1. 0	18. 20	·0910					
11. 5	0. 0	19. 4	·0904					
11. 14	2. 30	19. 14	·0912					
			***					
11. 24	11. 0							
11. 45	6. 40	20. 30	·0894					
11. 53	6. 30	21. 55:	·0858					
12. 13	12. 0	22. 17	·0864					
12. 28:	11. 0	22. 45	·0886					
12. 50	13. 25	23. 59	·0888					
13. 5	10. 30							
13. 22	11. 5							
13. 34	13. 35							
	***							
14. 15	13. 0							
	***							
15. 22	6. 30							
	***							
16. 58	16. 0							
17. 10	15. 0							
17. 42	18. 0							
	***							
18. 18	9. 0							
	***							
19. 3	10. 30							
19. 7	8. 50							
19. 17	11. 40							
19. 25	11. 5							
19. 32	12. 25							
	***							
20. 0	7. 50							
20. 6	12. 0							
20. 10	10. 30							
20. 58	12. 15							
21. 5	9. 50							
21. 13	13. 0							
	***							
21. 32	13. 25							
	***							
21. 41	15. 30							
	***							
22. 5	14. 30							
	***							
22. 17	18. 0							
22. 25	15. 25							
22. 36	17. 30							
23. 12	16. 50							
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
0. 3	22. 19. 0	0. 20	·0884	0. 30	·01898	9. 10	57 ·0	61 ·0
0. 21	18. 5	1. 9	·0895		***	21. 45	54 ·0	57 ·0
0. 38	20. 50	1. 35	·0896	2. 29	·01882			

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 h m	° ′ ″	Mar. 13 h m		Mar. 13 h m		h m	°	°
0. 51	22. 20. 0	2. 0	·0884	4. 17	·01675			
1. 3	21. 45	2. 40	·0898	8. 0	·00890			
1. 16	18. 25	3. 4:	·0884	9. 25	·00846			
1. 22	19. 20	3. 14	·0894	10. 13	·00780			
1. 32	17. 20	3. 23	·0888	14. 15:	·00800			
1. 43	20. 0	3. 30	·0898	19. 15:	·01210			
1. 48	18. 0	3. 44	·0891	23. 59	·01452			
	***	3. 50	·0898					
2. 38	21. 45	4. 7	·0883					
2. 47	20. 0	4. 23	·0898					
3. 2	20. 50		***					
3. 13	13. 35	5. 50	·0898					
3. 23	11. 0	6. 0	·0908					
	***	6. 8	·0904					
3. 35	14. 35	6. 30	·0915					
3. 43	16. 10	6. 45	·0904					
	***	7. 11	·0900					
4. 4	13. 0	7. 35	·0900					
4. 16	14. 0	7. 50	·0910					
5. 28	14. 0	8. 20	·0904					
5. 46	12. 0	8. 37	·0918					
6. 0	6. 45	9. 8	·0898					
6. 8	6. 0	9. 34	·0926					
6. 9	3. 0	10. 15	·0900					
6. 42	9. 0	11. 4	·0898					
6. 50	8. 25	11. 28	·0927					
7. 4	10. 0	12. 30	·0898					
7. 32	8. 25	12. 45	·0902					
7. 37	9. 0	13. 0	·0898					
7. 42	7. 50	13. 20	·0904					
7. 48	9. 0	15. 5	·0900					
7. 52	7. 35	19. 0	·0906					
8. 16	7. 0	22. 15	·0892					
8. 30	2. 30							
8. 54:	8. 0							
9. 26	3. 0							
10. 0	12. 10							
10. 37	5. 15							
10. 52	7. 30							
11. 0	7. 0							
11. 8	9. 30							
11. 17	5. 0							
11. 50:	13. 30							
12. 33	7. 30							
12. 52	11. 10							
	***							
14. 6	8. 30							
	***							
15. 21	11. 30							
15. 47	9. 30							
19. 17	11. 0							
	***							
21. 10	9. 45							
	***							
22. 47	12. 25							
	***							
23. 30	16. 30							
23. 45	15. 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.	Readings of Thermometers. Of V. F. Magnet.
Mar. 13								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 16. 30							
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
0. 15	22. 16. 50	0. 35	·0880	0. 36	·01500	1. 40	54 ·5	56 ·0
0. 46	19. 0	2. 16	·0893	4. 30	·01734	3. 40	54 ·5	56 ·5
1. 5	17. 45	2. 26	·0891	8. 51	·01900	9. 40	53 ·0	55 ·0
1. 39	19. 15	2. 55	·0896	13. 44	·01898	21. 40	48 ·0	50 ·0
2. 35	17. 0	4. 15	·0896	15. 51	{ ·01736			
3. 38	17. 0	5. 27:	·0905		{ ·01555			
4. 30	14. 15	6. 0	·0901	18. 51:	·01720			
7. 22	11. 5	7. 6	·0900	23. 59	·01560			
10. 6	10. 40	7. 32	·0904					
10. 50	9. 30	9. 56	·0905					
11. 13	5. 40	10. 8	·0912					
12. 4	6. 45	11. 8	·0912					
12. 25:	9. 30	11. 20	·0916					
13. 5	9. 25	11. 47	·0907					
13. 24	11. 0	13. 0	·0904					
14. 21	7. 40	13. 16	·0910					
	***	13. 27	·0906					
15. 7	20. 50	14. 0:	·0912					
15. 47	7. 45	14. 45	·0893					
16. 40	4. 30	15. 30	·0912					
17. 36	12. 5	16. 34	·0919					
18. 46	10. 0	17. 9:	·0910					
19. 43	10. 40	17. 45	·0920					
	***	20. 19	·0922					
20. 50	8. 20	22. 30	·0906					
21. 48	10. 5	23. 59	·0898					
22. 49	10. 0							
23. 59	15. 0							
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 8	22. 14. 30	0. 15	·0890	0. 15	·01540	1. 40	51 ·0	53 ·5
1. 37	17. 25	1. 34	·0894	2. 32:	·01250	3. 40	53 ·5	54 ·0
2. 12	19. 30	2. 3	·0900	4. 41	·00708	9. 40	55 ·0	57 ·5
2. 41	17. 0	2. 16	·0900	7. 3	·00783	21. 40	48 ·5	52 ·5
3. 47	15. 30	2. 40	·0893	9. 43:	·00738			
4. 30	15. 40	3. 16	·0896	13. 50:	·00972			
6. 5	11. 40	4. 0	·0908	17. 53	·01433			
6. 34:	3. 30	4. 45	·0900	22. 17	·01752			
7. 9	10. 25		***	23. 59	·01746			
8. 46	11. 35	5. 57	·0902					
9. 5	8. 50	6. 18	·0884					
9. 14	10. 15	6. 50	·0906					
9. 26	3. 15	7. 30:	·0896					
9. 36	3. 50	8. 15	·0904					
9. 48	2. 15		***					
10. 16	3. 10	9. 20	·0902					
10. 38	7. 15	9. 32	·0922					
10. 45	6. 30	9. 55	·0911					
11. 2	9. 10	10. 5	·0913					
11. 30:	6. 0	10. 41	·0894					
12. 0:	8. 30	11. 36	·0903					
12. 30	5. 50	11. 40	·0896					
13. 26	5. 25	11. 55	·0902					
15. 22	11. 30	12. 15	·0902					
16. 31	11. 30	12. 35	·0896					

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. 15		Mar. 15						
h m	° ′ ″	h m		h m		h m	°	°
17. 21	22. 9. 30	13. 30	·0901					
19. 0	12. 25	13. 40	·0898					
	***	15. 45	·0908					
20. 55	9. 0	21. 5	·0912					
	***	21. 30	·0910					
22. 50	10. 0	22. 0	·0914					
	***		***					
23. 59	13. 40	23. 20	·0900					
			***					
		23. 59	·0900					
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 10	22. 14. 0	0. 8	·0898	0. 30	·01758	1. 40	50 ·0	53 ·0
1. 15	17. 20	0. 30	·0896	3. 12:	·01668	3. 40	53 ·0	54 ·5
3. 52	16. 0	5. 15	·0904	8. 18:	·01418	9. 40	51 ·5	54 ·0
6. 48	10. 25	5. 30	·0901	14. 9	·01762	21. 40	43 ·5	47 ·5
7. 8	10. 30	6. 0	·0906	21. 55	·01680			
7. 24	9. 25	6. 20:	·0902		(†)			
7. 52	10. 0	7. 25	·0906					
8. 17:	7. 50	8. 10	·0902					
9. 20	11. 30	8. 35	·0911					
19. 26	11. 0	10. 15	·0912					
20. 40	9. 0	15. 50	·0920					
21. 55	9. 30	20. 30	·0928					
		21. 54	·0925					
		23. 59	·0916					
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 18	22. 15. 30	0. 5	·0917	0. 15	·01665	1. 40	45 ·0	49 ·0
2. 11	18. 0	1. 37	·0916	2. 5	·01685	3. 40	46 ·0	48 ·5
2. 40	17. 20	2. 10	·0924		***	9. 40	46 ·0	48 ·0
2. 50	18. 30	2. 38	·0921	5. 41:	·01575	21. 40	39 ·5	42 ·7
3. 6	18. 0	2. 50	·0929		***			
3. 26	19. 50	3. 4	·0925	8. 8	·01687			
3. 56	17. 5	3. 23	·0934		***			
4. 22	19. 0		***	8. 38	·01670			
5. 15	19. 0	3. 40	·0924	9. 17	·01530			
5. 47	10. 30	4. 33	·0936	13. 2	·01735			
6. 0	12. 5	4. 44	·0930	15. 29	{ ·01668			
6. 4	11. 10		***		{ ·01545			
6. 39	14. 0	5. 4	·0944	16. 22	·01623			
6. 58	17. 35	5. 8	·0932	19. 43:	·01620			
7. 16	16. 0	5. 24	·0926	22. 13	·01548			
7. 47	21. 30	5. 30	·0928	23. 59	·01500			
8. 1	8. 40	5. 34	·0922					
8. 10	22. 8. 0	5. 50	·0937					
8. 28	21. 43. 10	6. 1	·0921					
8. 47	22. 10. 0	6. 11:	·0926					
8. 53	4. 55	6. 20	·0918					
9. 4	13. 45	6. 27	·0920					
9. 14	22. 2. 0	7. 0	·0908					
9. 30	21. 58. 40	7. 18	·0904					
9. 40	21. 59. 0		***					
10. 13	22. 4. 0	7. 45:	·0916					
10. 20	3. 30	8. 1	·0896					
	***	8. 15	·0916					
11. 2	6. 10	8. 20	·0916					
	***	8. 28	·0904					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.17		Mar.17						
h m	° ′ ″	h m		h m		h m	°	°
11.48	22. 1.30	8.40	·0959					
13.14	12.25	8.55	·0920					
16.45	11.35	9. 0	·0934					
17.47	10.30	9. 8	·0915					
18. 0	12.10	9.38	·0894					
18. 5	11.15	10. 2	·0904					
18.40	14. 0	10.11	·0900					
18.58	17.35	10.24	·0910					
20.28:	8.45	12.24	·0912					
	***	16. 4	·0922					
22.45	13.30	18. 0	·0934					
22.51	12. 0	19. 7	·0921					
22.56	14. 5	19.45	·0930					
23. 5	11.45	20.30	·0924					
23.30	17.30	21.40	·0926					
23.47	16. 0	22.15	·0912					
23.59	17. 0		***					
		23. 9	·0902					
		23.23	·0916					
		23.56	·0898					
Mar.18		Mar.18		Mar.18		Mar.18		
0.10	22.17. 0	0. 2	·0903	0.45	·01470	1.40	44 ·0	47 ·0
0.59	19.30	0.15	·0898	2. 6	·01380	3.40	46 ·0	48 ·0
1.45	19.50	0.27	·0902	6.21	·00650	9.40	45 ·8	48 ·0
1.53	19. 0	0.35	·0895	11.42	·00500	21.40	37 ·5	41 ·5
2. 7	21. 0	1.15	·0895	16. 5	·01140			
2.30	19. 0	1.55	·0900	19.32	·01562			
2.55	18.35	2.30:	·0887	22. 2	·01515			
3. 3	20. 0	3. 4	·0902	22.12	·01442			
	***	3. 8	·0898	23.59	·01360			
3.22	18. 0	3.35	·0908					
3.51	19.40	4. 4	·0910					
5. 7	11.30	4.39	·0890					
7.38	11. 5	4.55	·0908					
8. 2:	9.15		***					
8.16:	9.45	5.44	·0918					
8.25:	9.15	6. 8	·0900					
8.40	11. 0		***					
9.47:	11. 0	8.30	·0912					
10.38:	6. 0	8.45:	·0908					
11.18	11.25	9. 4	·0913					
11.40	9.30	9.45	·0919					
13. 0	11.45	9.55	·0912					
19. 8	11. 0		***					
19.17	10. 0	11.30	·0926					
21. 4	9. 0	17.45	·0930					
22.10	10. 0		***					
23.59	13. 0	19. 8	·0928					
		21.30	·0918					
		23.59	·0915					
Mar.19		Mar.19		Mar.19		Mar.19		
0.25	22.14. 0	0. 0	·0915	0.18	·01350	1.40	41 ·0	44 ·0
2.11	16. 0	3.30	·0912	2.48:	·01100	3.40	44 ·0	47 ·5
7.10	10.25	4. 8	·0924	4.42	·00528	9.40	47 ·0	50 ·0
7.40	10.30		***	4.58	·00535	23.13	40 ·0	44 ·0
7.58:	8.45	5.15	·0918	6.13:	·00462			
8.23:	11. 0		***	7.42:	·00513			

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.19		Mar.19		Mar.19				
h m	° ′ ″	h m		h m		h m	°	°
8.43	22. 6.30	7.11	·0924	9.30	·00468			
9.20	11. 0	7.24	·0930	14.21:	·00550			
13.38	10.30	7.49	·0921	21.13	·01420			
15.55	12.35	8. 1	·0926	23.59	·01608			
17. 0	8.10	8.24	·0927					
	***	8.33	·0922					
19. 2	10.30	8.45	·0929					
20.43	7. 0	9. 8	·0925					
21.25	7.30	13.50	·0923					
23.59	14.45	14. 5	·0930					
		14.30	·0926					
		15.37	·0924					
		16.35	·0932					
		18.38	·0926					
		20.45	·0927					
		22.45	·0908					
		23. 9	·0903					
Mar.20		Mar.20		Mar.20		Mar.20		
0. 2	22.14.45	0.35	·0914	0.30	·01613	11.24	45 ·0	48 ·0
0.22	17. 0	0.55	·0910	2.32:	·01600	21.40	42 ·0	44 ·8
0.45	16.25	4.30	·0925	10.35:	·00823			
2.32	17.25	4.38	·0928	14.20:	·00895			
7.13	10.25	6. 5	·0924	19.32:	·01440			
14.45	9.50	7.45	·0926	23.17	·01625			
17. 8	10.30	15. 5	·0934		·01562			
17.30	9.30	19.20	·0931	23.59	·01572			
18.16	10.30	20.37	·0924					
20. 3	6.50	23.59	·0914					
22.32	8.15							
23.59	13.40							
Mar.21		Mar.21		Mar.21		Mar.21		
0.13	22.14. 0	0.15	·0913	1.22	·01565	1.40	43 ·5	46 ·5
1.30	17.40	0.45	·0917	4.14:	·01326	3.40	45 ·0	47 ·5
3. 3	17.15	3.50	·0916	8.43:	·00750	9.40	46 ·0	50 ·0
5.40	12. 0	4.24	·0924	12.15:	·00655	21.40	41 ·0	45 ·0
9. 0	11. 0	5.30	·0922	20.16:	·01384			
9.30	11.45	10.30	·0928	23.59	·01532			
9.53	11. 0	11.20	·0926					
11. 8	11. 0	11.35	·0931					
12.23	9.10	11.50	·0926					
13.20	11. 0	12. 2	·0931					
13.31	12.30	13.20	·0926					
14. 8	10.30	13.45	·0930					
15. 4	12.30	16.24	·0930					
15.45:	10.35	19. 5	·0936					
16.25	12. 0	22.40	·0912					
17. 0	10.40	23.59	·0914					
17.12	11.20							
19.48	7.30							
20.53	7. 0							
22.53	11.10							
23.53	14. 0							
Mar.22		Mar.22		Mar.22		Mar.22		
0.20	22.15. 0	0. 0	·0914	0.36	·01478	1.40	44 ·0	48 ·0
1.30	16. 0	3.50	·0909	2.41:	·01333	3.40	47 ·5	50 ·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.
Mar. 22		Mar. 22		Mar. 22		Mar. 22	°	°
h m	° ′ ″	h m		h m		h m		
1. 48	22. 15. 30	17. 20	·0931	5. 30	·00662	9. 40	49 ·0	52 ·2
2. 45	16. 0	23. 59	·0905	11. 20:	·00610	21. 40	42 ·0	46 ·0
5. 30	12. 0			14. 32:	·00802			
11. 3	11. 0			18. 36:	·01361			
14. 0	11. 50			22. 22	·01625			
18. 53	9. 35 ***			23. 59	·01612			
20. 32	6. 0							
21. 25	7. 10							
23. 56	15. 5							
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
0. 16	22. 15. 0	0. 30	·0906	0. 30	·01623	1. 40	44 ·0	47 ·5
1. 38	12. 25	1. 5	·0910	3. 23:	·01500	3. 40	46 ·5	48 ·0
3. 30	13. 50	4. 40	·0912	6. 43:	·01072	9. 40	47 ·5	48 ·0
8. 8	10. 0	5. 5	·0908	9. 29:	·00895	21. 40	39 ·5	44 ·5
9. 35	10. 30	7. 35	·0914	13. 59:	·01060			
9. 47	9. 30	10. 40	·0925	18. 7	·01620			
10. 28	10. 5	11. 16	·0920		·01597			
10. 47	8. 55	11. 40	·0925	20. 23	·01620			
11. 43	11. 0	17. 5	·0938	22. 9	·01583			
17. 56	8. 55	21. 35	·0922	23. 46	·01588			
19. 31	8. 45 ***	23. 59	·0900					
20. 15	5. 0 ***							
21. 9	5. 25							
21. 25	7. 30							
22. 16	7. 30							
23. 50	14. 30							
Mar. 24		Mar. 24		Mar. 24		Mar. 24		
0. 0	22. 15. 0	0. 0	·0900	0. 0	·01530	1. 40	45 ·5	47 ·5
1. 17	19. 50	1. 22	·0898	2. 2:	·01380	3. 40	48 ·5	49 ·5
2. 17:	15. 40	3. 0	·0912	5. 17	·00780	9. 40	48 ·2	51 ·0
3. 8	19. 20 ***	4. 16	·0893		(†)	23. 20	41 ·5	47 ·0
		4. 55	·0906	10. 5	·00590			
3. 42	16. 10	5. 25	·0901	12. 13	·00620			
4. 4	17. 30	11. 30	·0918	13. 50	·00840			
4. 32	14. 0	11. 45	·0913	17. 50	·01522			
6. 25	13. 20	15. 0	·0922	18. 20	·01482			
7. 38	10. 30	17. 45	·0934	22. 16	·01410			
10. 4	10. 0	20. 30	·0934	22. 23	·01330			
10. 15	8. 30	22. 31	·0916	23. 59	·01265			
10. 26	8. 30	22. 56	·0924					
10. 40:	3. 20	23. 30	·0915					
11. 0	9. 0							
11. 32	1. 0							
11. 43	5. 30							
12. 41	9. 30							
13. 15	8. 0							
16. 0	10. 15							
16. 33	9. 25							
17. 35	11. 0							
18. 0	9. 40							
18 41	12. 10							
19. 53	7. 20							
20. 32	6. 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.
Mar. 24								
h m	° ′ ″	h m		h m		h m	°	°
22. 0	22. 8. 0							
23. 40	12. 30							
23. 55	15. 0							
Mar. 25		Mar. 25		Mar. 25		Mar. 25		
0. 4	22. 15. 0	0. 8	·0920 ***	1. 45	·01310	9. 40	44 ·5	47 ·5
1. 3	18. 30			2. 0	·01295	21. 40	38 ·5	42 ·0
1. 21	17. 0	1. 55	·0920	2. 12	·01380			
1. 31	17. 45	5. 20	·0932	4. 32:	·01213			
2. 0	16. 15	6. 0	·0914	11. 8	·00263			
2. 35	18. 20	6. 30	·0922	18. 14	·00288			
5. 5	14. 20	9. 55	·0914	21. 0	·00850			
5. 43	15. 35	12. 50	·0914	23. 59	·01172			
7. 43	11. 20	13. 55	·0946					
8. 23	13. 20	14. 40	·0928					
9. 16	11. 0	19. 15	·0934					
9. 31	13. 0	22. 5	·0914					
10. 8	8. 0	23. 59	·0912					
10. 24	8. 40							
10. 40	6. 25							
11. 2	6. 0							
11. 10	7. 0 ***							
12. 11	5. 30 ***							
12. 30	7. 5 ***							
12. 44	6. 10							
12. 50	7. 0							
13. 11	4. 15 ***							
13. 34	5. 30							
13. 52	2. 0							
15. 4	4. 0							
15. 50	9. 20							
18. 27	10. 15							
18. 41	18. 30							
19. 28	9. 0							
19. 35	7. 15							
20. 55	8. 35							
21. 15	7. 30							
23. 4	14. 50							
23. 13	14. 20							
23. 28	15. 30							
23. 43	15. 25							
Mar. 26		Mar. 26		Mar. 26		Mar. 26		
0. 0	22. 15. 30	0. 9	·0914	0. 30	·01205	1. 40	41 ·0	44 ·5
1. 32	18. 0	1. 50	·0929	1. 30:	·01180	3. 40	46 ·0	48 ·0
1. 51	21. 10	2. 27	·0916	3. 23:	·01070	9. 40	49 ·0	51 ·0
2. 12	18. 25 ***	3. 28	·0914	5. 1	·00600	23. 10	39 ·5	42 ·5
		3. 45	·0925		·00700			
3. 0	17. 20	4. 8	·0903 ***	5. 54	·00728 ***			
3. 40	21. 40							
3. 49	19. 50	6. 45	·0922	7. 17:	·00660			
3. 55	21. 0	7. 23	·0896	8. 56	·00735			
4. 2	18. 35 ***	7. 45	·0908	9. 34	·00720			
		11. 47	·0930	13. 10:	·01060			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

March 24. Vertical Force Magnet. The spot of light was off the sheet at $5^h.\ 20^m$; at $10^h.$ an additional piece of paper was attached to the sheet.

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		Mar.26				
h m	° ′ ″	h m		h m		h m	°	°
4. 15	22. 19. 15	18. 45	·0940	16. 30	·01615			
4. 38	15. 0	19. 15	·0944	22. 7	·01480			
4. 50	17. 25	21. 0	·0925	23. 32	·01485			
	***	21. 32	·0906					
6. 32	13. 0							
6. 47	13. 20							
7. 38	4. 0							
8. 2	9. 30							
9. 8	11. 25							
11. 17	9. 5							
14. 18	11. 10							
	***							
17. 50	9. 40							
18. 37	12. 10							
	***							
19. 46	7. 30							
	***							
20. 7	7. 5							
20. 11	8. 30							
20. 23	5. 35							
	***							
21. 8	10. 0							
	***							
21. 20	8. 0							
	***							
22. 32	16. 35							
22. 36	15. 30							
22. 55	17. 45							
23. 47	17. 35							
23. 58	19. 30							
Mar.27		Mar.27		Mar.27		Mar.27		
0. 5	22. 19. 30	0. 4	·0911	0. 40	·01500	10. 40	46 ·0	49 ·5
0. 8	18. 0	1. 45	·0917	2. 52	·01345	21. 40	44 ·5	47 ·0
	***	1. 55	·0910	7. 16	·00450			
1. 3	19. 5	2. 38	·0918	12. 6	·00384			
	***	8. 16	·0925	12. 48	·00250			
1. 35	23. 0	9. 8	·0920	13. 0	·00265			
3. 3	17. 30	10. 25	·0930	13. 10	·00227			
4. 6	14. 0	11. 45	·0930	13. 22	·00287			
5. 31	12. 45	12. 0	·0920	13. 40	·00250			
5. 42	13. 45	12. 15	·0942	18. 13:	·00500			
6. 32	8. 30	12. 35	·0946	21. 2:	·00790			
7. 42	12. 0	13. 0	·0903	23. 59	·00980			
8. 53	11. 0	13. 23	·0898					
9. 20	8. 45	14. 0	·0926					
11. 36	10. 10	14. 32	·0919					
12. 5	7. 15	15. 32	·0932					
12. 13	22. 9. 30	15. 59	·0927					
12. 33	21. 57. 45	16. 44	·0944					
12. 48	59. 30	17. 25	·0914					
13. 3	52. 30		***					
13. 8	55. 0	17. 52	·0910					
13. 18:	21. 52. 50	18. 45	·0924					
13. 35	22. 1. 15	19. 0	·0924					
13. 48	21. 59. 0	19. 30	·0930					
	***	20. 45	·0928					
14. 13	22. 1. 45	21. 35	·0903 (†)					

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								
h m	° ′ ″	h m		h m		h m	°	°
14. 36	22. 8. 0							
15. 17	6. 40							
16. 44	11. 5							
17. 1	8. 55							
17. 34	11. 0							
	***							
20. 31	7. 15							
20. 42	6. 15							
	***							
21. 40	7. 25							
	***							
22. 28	14. 30							
	***							
23. 20	15. 0							
	***							
23. 58	13. 25							
	***							
Mar.28		Mar.28		Mar.28		Mar.28		
0. 8	22. 13. 0	3. 0	·0908	0. 23	·00975	1. 40	48 ·0	51 ·0
	***	5. 55	·0906	2. 53	·00590	3. 40	51 ·0	52 ·5
0. 47	17. 30	6. 15	·0914	3. 47	·00740	9. 40	52 ·0	53 ·5
1. 2	17. 5	6. 32	·0898	5. 56	·00745	21. 40	41 ·5	45 ·0
2. 11	16. 30	6. 50	·0909		***			
2. 26	19. 0	7. 30	·0884	7. 52	·00905			
2. 44	16. 30	8. 7	·0920	9. 52	·00920			
3. 6	16. 15	8. 50	·0908	13. 20	·01243			
3. 14	18. 30	12. 8	·0913	16. 2	·01700			
	***	12. 30	·0926	21. 23	·01605			
3. 46	19. 0	12. 45	·0920	23. 59	·01506			
4. 2	13. 0	13. 15	·0925					
4. 29	15. 15	14. 0	·0914					
5. 6	12. 55	14. 30	·0918					
5. 30	14. 0	16. 23	·0924					
	***		***					
6. 18	12. 0	18. 0	·0932					
6. 38	7. 30	18. 25	·0926					
7. 7	22. 8. 30	18. 30	·0932					
7. 40	21. 55. 0	23. 59	·0908					
7. 50	21. 55. 20							
8. 7	22. 3. 0							
8. 37	8. 0							
9. 17	10. 30							
11. 32	11. 0							
12. 3	9. 35							
12. 23	14. 0							
12. 51	10. 40							
13. 13:	13. 45							
13. 55	10. 30							
14. 46	14. 0							
15. 16	11. 0							
17. 52	11. 45							
18. 15	14. 30							
19. 16	11. 30							
19. 22	9. 30							
19. 28	11. 5							
19. 52	8. 40							
22. 17	8. 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.
Mar. 28								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 11. 55							
Mar. 29		Mar. 29		Mar. 29		Mar. 29		
1. 0	22. 17. 20	0. 25	·0907	0. 30	·01480	1. 40	46 ·0	48 ·5
3. 47	12. 30	0. 55	·0912	2. 14:	·01270	3. 40	51 ·0	52 ·5
4. 25	13. 30	1. 30	·0900	4. 5	·00680	9. 40	52 ·5	54 ·5
5. 18	11. 35	3. 10	·0898	7. 38	.00700	21. 40	43 ·0	45 ·5
6. 37	10. 45	4. 30	·0919	9. 35	·00860			
7. 16	9. 30	6. 25	·0910	13. 23:	·01217			
8. 2	11. 15	6. 55	·0918	16. 28	·01670			
14. 32	8. 30	7. 20	·0910	23. 22	·01570			
15. 46	9. 25	14. 0	·0927	23. 58	·01410			
16. 19	12. 10		***					
16. 55	10. 0	14. 35	·0921					
17. 30	10. 0		***					
18. 22	10. 30	17. 10	·0934					
20. 40	7. 15	17. 35	·0930					
20. 46	15. 10	18. 15	·0934					
20. 58	7. 0	20. 55	·0923					
21. 13	6. 0	22. 0	·0904					
23. 59	12. 30	22. 55	·0904					
Mar. 30		Mar. 30		Mar. 30		Mar. 30		
1. 4	22. 16. 30	0. 55	·0890	0. 30	·01382	1. 40	48 ·5	50 ·0
1. 26	20. 0	2. 12	·0884	2. 23	·00680	3. 40	52 ·0	55 ·0
2. 0	20. 0	2. 40	·0900	4. 10	·00840	9. 40	55 ·5	59 ·0
2. 17	17. 45	3. 15	·0887	6. 45	·00858	21. 40	48 ·0	51 ·0
	***	4. 20	·0907	10. 36	·01246			
3. 6	18. 20		***	16. 23	·01785			
3. 28	14. 20	5. 16	·0910	23. 59	·01718			
6. 1	8. 30	5. 45	·0896					
7. 20	8. 30	7. 5	·0918					
7. 38	7. 0	7. 50	·0895					
9. 29	22. 9. 20	9. 30	·0916					
10. 2	21. 54. 50	9. 55	·0902					
10. 25	21. 58. 30	10. 35	·0917					
10. 43	22. 15. 0	10. 46	·0908					
11. 8	15. 20	19. 0	·0925					
11. 56	8. 50	22. 45	·0908					
12. 13	6. 45	23. 59	·0890					
13. 20	10. 0							
	***							
19. 0	7. 30							
	***							
19. 28	6. 15							
19. 38	8. 10							
	***							
20. 22	6. 50							
20. 28	9. 0							
20. 31	6. 50							
	***							
21. 4	8. 30							
22. 23	7. 30							
	***							
23. 59	14. 50							
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
0. 30	22. 18. 0	2. 0	·0884	0. 45	·01692	1. 40	51 ·0	53 ·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.
Mar. 31		Mar. 31		Mar. 31		Mar. 31		
h m	° ′ ″	h m		h m		h m	°	°
0. 48	22. 19. 20	2. 45	·0884	2. 40:	·01480	3. 40	55 ·0	56 ·0
1. 44	17. 10		***	5. 22	·00930	·9. 40	57 ·0	58 ·5
2. 27	20. 25	4. 0	·0906	6. 29	{·00920	21. 40	52 ·0	54 ·5
2. 45	19. 30		***		{·01068			
3. 8	22. 0	5. 20	·0885	6. 48	·01038			
	***		***	8. 28	·01090			
3. 50	11. 10	7. 40	·0904	9. 58	·01095			
4. 2	13. 50	8. 4	·0891	13. 50	·01335			
4. 12	12. 30	8. 25	·0913	14. 16	·01334			
4. 47	19. 0	9. 0	·0902	16. 27	·01537			
5. 35	13. 15		***	21. 9	·01775			
6. 32	12. 25	12. 55	·0912	23. 52	·01776			
7. 20	6. 45	13. 38	·0902					
7. 48	22. 7. 20	14. 4	·0918					
8. 13	21. 58. 25	14. 30	·0909					
8. 26	22. 3. 30		***					
9. 34	8. 25	16. 30	·0914					
9. 47	7. 30	17. 10	·0906					
12. 7	9. 25		***					
13. 26	8. 0	18. 36	·0918					
14. 8	18. 30		***					
14. 47	18. 20	19. 50	·0908					
15. 5	10. 50	21. 30	·0908					
18. 16	7. 35	22. 43	·0874					
20. 21	10. 0	23. 59	·0890					
21. 6	8. 30							
22. 25	10. 25							
23. 17	14. 30							
23. 35	14. 0							
23. 55	15. 30							
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
0. 18	22. 15. 40	1. 0	·0890	0. 8	·01778	1. 40	54 ·0	55 ·0
0. 45	15. 30	2. 15	·0896	2. 30:	·01644	3. 40	56 ·5	57 ·5
1. 19	17. 20	5. 15	·0882	5. 43:	·01175	9. 40	56 ·0	57 ·0
2. 19	17. 0	5. 38	·0898	8. 19:	·01028	21. 40	49 ·5	51 ·5
3. 11	14. 0		***	13. 38	·01514			
4. 0	14. 20	6. 35	·0892	13. 56	·01523			
4. 57	12. 30		***					
5. 32	8. 10	12. 25	·0902	15. 43	{·01778			
	***	12. 40	·0916		{·01750			
6. 40	10. 40	13. 13	·0899	19. 59	{·01720			
8. 4	9. 10	13. 38	·0914		{·01590			
11. 50	9. 45		***	21. 53:	·01615			
12. 2	9. 0	17. 14	·0898	23. 32	·01505			
12. 24	10. 5	18. 20	·0916					
12. 37	9. 20	18. 45	·0904					
12. 47:	10. 20		***					
13. 13	7. 5	22. 45	·0902					
13. 47	18. 0							
14. 57:	3. 15							
	***							
16. 31	6. 30							
17. 47	11. 35							
18. 21	9. 0							
	***							
20. 2	9. 15							
	***							
21. 3	11. 15							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 1	° ′ ″	h m		h m		h m	°	°
h m								
21. 17	22. 13. 0							
22. 27	8. 56							
22. 40	11. 10							
23. 32	12. 30							
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	22. 13. 0	3. 30	·0884	0. 15	·01460	1. 40	54 ·5	55 ·0
	***	5. 0	·0874	1. 48:	·01257	3. 40	56 ·0	58 ·0
2. 28	15. 35	19. 0	·0900	3. 36	·00815	9. 40	58 ·5	58 ·5
5. 11	8. 30	23. 0	·0884	5. 17	·00883	23. 20	49 ·0	53 ·0
7. 20	7. 50	23. 59	·0882	7. 5	·00880			
10. 32	9. 55			9. 46	·01182			
11. 50	8. 35			15. 22	·01828			
13. 0	10. 0			15. 29	·01804			
14. 43	9. 15			20. 7:	·01800			
	***			21. 48	·01740			
15. 20	11. 15			23. 30	·01642			
16. 38	8. 25							
19. 30	7. 10							
21. 0	5. 50							
23. 13	9. 15							
23. 23	10. 14							
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
0. 5	22. 14. 5	0. 0	·0882	0. 30	·01595	11. 0	53 ·0	54 ·5
0. 45	14. 10		***	2. 38	·01515	21. 40	49 ·0	53 ·0
1. 0	15. 45	4. 5	·0900	6. 20:	·01215			
2. 18	16. 30		(†)	15. 22	·00910			
5. 15	11. 30	11. 15	·0904	19. 44:	·00910			
12. 38	11. 5	15. 0	·0904	22. 48	·00695			
14. 43	10. 35	16. 5	·0908					
15. 34:	12. 0		(†)					
16. 17:	9. 0							
17. 17	9. 15							
20. 46	6. 45							
21. 25	6. 40							
22. 40	11. 25							
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 30	22. 16. 20	1. 0	·0886	0. 30:	·00619	1. 40	55 ·5	57 ·0
2. 38	16. 30	20. 30	·0912	3. 54:	·00907	3. 40	58 ·5	58 ·5
4. 0	13. 10		***	9. 13:	·00885	9. 40	60 ·5	61 ·5
5. 36	10. 45	22. 45	·0890	16. 9:	·01220	21. 40	56 ·5	58 ·0
12. 23	10. 35	23. 59	·0902	20. 40:	·01390			
14. 16:	9. 5			23. 0	·01390			
14. 32:	9. 55			23. 59	·01340			
15. 22	8. 55							
16. 22	10. 30							
	***							
19. 20	3. 30							
	***							
19. 57	5. 30							
19. 58	4. 15							
	***							
20. 16	4. 25							
20. 23	7. 0							
	***							
20. 37	6. 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.
Apr. 4	° ′ ″	h m		h m		h m	°	°
h m	***							
20. 50	22. 8. 20							
	***							
21. 11	6. 0							
21. 17	8. 35							
21. 23	6. 25							
22. 46	10. 0							
23. 59	17. 5							
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
1. 46	22. 24. 0	1. 40	·0990*	0. 36	·01288	1. 40	57 ·5	59 ·0
2. 0	23. 0	3. 40	·0908*	4. 56	·00930	3. 40	60 ·5	61 ·0
2. 20	24. 45	9. 40	·0903*		·00960	9. 40	60 ·2	63 ·0
2. 43	22. 10	21. 40	·0888*	10. 37	·00974	21. 40	56 ·0	59 ·0
2. 47	23. 40			10. 46	·00920			
3. 1	19. 0			11. 0	·00980			
3. 48	15. 15			11. 21	·00900			
4. 14	17. 25			12. 2	·01015			
5. 8	13. 45			12. 25	·01000			
5. 40	14. 0			14. 46	·01390			
6. 21	10. 10				***			
6. 46	3. 25			16. 29	·01523			
7. 18	9. 35			19. 4:	·01843			
7. 42	8. 55			22. 8	·01870			
8. 30	10. 25			23. 59	·01780			
8. 55	9. 5							
9. 0	6. 50							
9. 13	7. 30							
9. 23	4. 25							
9. 37	13. 0							
10. 19	2. 0							
10. 30	4. 10							
10. 35	1. 0							
10. 44	22. 9. 35							
11. 4	21. 52. 10							
11. 22	22. 4. 50							
11. 38	21. 52. 35							
11. 43	54. 0							
11. 50	21. 50. 5							
12. 19	22. 10. 0							
12. 30	0. 30							
12. 36	2. 25							
12. 44	1. 10							
	***							
13. 22	8. 55							
13. 37	8. 50							
14. 1	12. 0							
14. 33	9. 0							
14. 38	10. 5							
15. 1	10. 35							
15. 17	15. 20							
15. 32	3. 0							
16. 8	21. 35							
16. 32	12. 30							
17. 0	8. 0							
	***							
18. 2	5. 35							
18. 6	3. 40							

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

April 5. There was no Photographic Register of the Horizontal Force Magnet. It is believed that the cover of the box was in contact with the suspension thread. The eye observations are probably not trustworthy.

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. 5								
h m	° ′ ″	h m		h m		h m	°	°
18. 15	22. 7. 30							
	***							
18. 27	7. 30							
18. 39	3. 0							
18. 48	8. 45							
18. 54	7. 0							
	***							
19. 23	12. 45							
19. 30	10. 30							
	***							
20. 1	13. 0							
20. 10	10. 0							
20. 17	12. 0							
20. 20	8. 0							
20. 33	13. 35							
	***							
20. 45	10. 0							
20. 52	13. 15							
20. 56	10. 5							
	***							
21. 17	13. 15							
21. 26	11. 15							
21. 43	10. 40							
21. 50	12. 30							
21. 58	10. 35							
	***							
22. 28	13. 0							
22. 32	10. 55							
	***							
22. 42	15. 30							
22. 44	13. 30							
	***							
23. 14	15. 30							
23. 18	17. 0							
23. 32	15. 0							
23. 47	15. 0							
23. 59	18. 30							
Apr. 6		Apr. 6		Apr. 6		Apr. 6		
0. 7	22. 20. 45	1. 30	·0860	0. 30	·01737	1. 40	60 ·0	63 ·0
0. 22:	18. 20	2. 45	·0852	1. 15	·01629	3. 40	62 ·5	62 ·5
1. 32	28. 20	4. 30	·0882	1. 55	·01691	9. 40	62 ·5	62 ·5
1. 44	23. 0	5. 16	·0854	4. 51	·01300	21. 40	53 ·0	56 ·0
1. 58	21. 30	6. 20	·0880		***			
2. 7	24. 45	6. 45	·0870	5. 45	·01250			
2. 10	22. 50	7. 27	·0884	6. 53	·01115			
2. 15	23. 15	8. 0	·0875	8. 13	·01058			
2. 25	21. 10	8. 8	·0892	8. 23	·01010			
2. 36	23. 5	8. 20	·0870	9. 45	·01040			
2. 58	18. 30	8. 30	·0882	10. 14	·00950			
3. 29	16. 30	8. 40	·0872	10. 40	·00937			
3. 40	19. 30	9. 0	·0883	14. 23	·01322			
3. 47	16. 40	9. 39	·0894	14. 44	·01284			
4. 46	18. 20	10. 0	·0875	17. 13	·01417			
	***	10. 24	·0900	18. 47	·01551			
5. 4	13. 30	10. 40:	·0880		***			
5. 15	14. 50	10. 50	·0890	21. 17	·01778			
5. 27	9. 25	11. 3	·0874	23. 59	·01838			

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. 6		Apr. 6						
h m	° ′ ″	h m		h m		h m	°	°
5. 47:	22. 7. 30	11. 32	·0870					
6. 6	12. 10	12. 30	·0880					
6. 18	12. 25	14. 10	·0880					
6. 29	17. 0	14. 25	·0892					
7. 20	9. 15	14. 35	·0886					
7. 32	11. 45		***					
7. 40	8. 30	15. 45	·0906					
7. 50	11. 10	16. 35	·0878					
8. 3	8. 15		***					
8. 10	9. 35	18. 0	·0884					
8. 13	7. 50	18. 45	·0856					
8. 22	17. 10		***					
8. 30	9. 50	22. 45	·0848					
8. 38	11. 45							
9. 0	7. 10							
9. 7	9. 35							
9. 16	5. 0							
9. 23	7. 0							
9. 39	7. 30							
9. 54:	18. 20							
10. 13	8. 0							
10. 17	8. 45							
10. 29	2. 30							
10. 36	22. 6. 40							
10. 53	21. 59. 35							
11. 3	22. 2. 30							
11. 17	21. 59. 15							
11. 31	22. 5. 25							
11. 46	3. 45							
12. 28	9. 50							
13. 44	9. 0							
14. 18	5. 45							
14. 40	19. 30							
15. 47	2. 35							
15. 58	22. 3. 0							
16. 5	21. 59. 10							
16. 32	21. 59. 25							
17. 2	22. 5. 20							
	***							
17. 40	7. 40							
17. 57	7. 20							
18. 35	11. 50							
18. 52	9. 30							
19. 41	9. 95							
19. 55	7. 10							
20. 14	8. 15							
20. 38	21. 40							
20. 57	19. 0							
	***							
21. 18	21. 0							
21. 26	24. 5							
	***							
22. 30	14. 35							
23. 55	22. 0							
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 32	22. 17. 10		(†)	0. 30	·01858	1. 40	57 ·0	58 ·0
1. 10	19. 25	3. 15	·0872	2. 23	·01810	3. 40	57 ·0	58 ·8

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 7	° ′ ″	Apr. 7		Apr. 7		Apr. 7	°	°
h m		h m		h m		h m		
1. 17	22. 17. 30		(†)	6. 54	·01822	9. 40	59 ·0	59 ·7
	***	6. 55	·0845	7. 58	·01225	21. 40	49 ·5	53 ·0
1. 43	18. 30		***	8. 30	·01195			
2. 10	17. 0		(†)	11. 24:	·01282			
2. 16	18. 0	13. 0	·0878	16. 20	{·01829			
4. 38	12. 30	20. 15	·0894		{·01800			
4. 51	13. 10	22. 20	·0870	19. 25:	·01802			
5. 53	10. 45	23. 37	·0882	22. 31	·01750			
6. 30	22. 10. 40	23. 59	·0878	23. 59	·01760			
7. 11	21. 58. 0							
7. 50	22. 5. 0							
8. 11	12. 0							
8. 31	2. 0							
8. 41	5. 45							
8. 53	0. 0							
9. 4	1. 5							
9. 12	0. 30							
10. 0	9. 5							
12. 20	10. 55							
12. 52	9. 40							
14. 32	11. 30							
14. 55:	14. 0							
15. 31	10. 0							
16. 20	8. 10							
19. 0	7. 10							
	***							
21. 13	4. 25							
22. 42	14. 0							
23. 13	12. 15							
23. 59	16. 10							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 5	22. 16. 15	0. 30	·0882	0. 30	·01758	1. 40	52 ·5	54 ·0
0. 45	21. 0	1. 15	·0880	1. 44:	·01768	3. 40	54 ·5	55 ·5
1. 13	18. 5	3. 0	·0898	2. 52	·01700	9. 40	53 ·5	55 ·0
	***	3. 24	·0914	3. 10	·01720	21. 40	46 ·0	48 ·5
1. 57	19. 0	4. 0	·0894	6. 16	·01518			
2. 32	23. 15		***	8. 7	·01470			
2. 43	22. 15	5. 39	·0894	9. 49	·01475			
3. 6	14. 0	6. 2	·0926	10. 6	·01448			
	***	6. 23	·0886	12. 5	·01527			
3. 52	19. 20	6. 35	·0900	12. 42	·01535			
	***	6. 45	·0890	14. 50	{·01690			
4. 29	16. 35	6. 55	·0896		{·01655			
4. 45	18. 20		***	18. 17	{·01648			
5. 10	15. 15	8. 0	·0880		{·01475			
5. 30	16. 30	10. 0	·0886	19. 14	·01545			
5. 46	13. 15	10. 14	·0875	21. 48	·01540			
5. 53	15. 25	10. 35	·0897	23. 59	·01455			
6. 0	9. 30	10. 45	·0887					
6. 9	7. 50	11. 15	·0896					
6. 25	6. 5	11. 25	·0886					
6. 36	9. 10		***					
6. 50	6. 0	12. 0	·0886					
7. 5	8. 30	12. 20	·0898					
	***	13. 0	·0884					
8. 0	9. 30	13. 25	·0898					
8. 52	7. 30	14. 30	·0886					

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					°	°
h m		h m		h m		h m		
9. 6	22. 4. 30	15. 5	·0902					
9. 17	5. 45	16. 15	·0880					
9. 42	4. 45	17. 8	·0900					
	***	19. 25	·0902					
10. 1	14. 5	20. 15	·0884					
10. 13	9. 55	22. 14	·0886					
10. 16	10. 25	22. 45	·0872					
10. 27	4. 55	23. 59	·0868					
10. 34	6. 30							
10. 49	4. 0							
10. 58	4. 0							
11. 15	7. 20							
	***							
12. 15	6. 40							
12. 35:	12. 5							
13. 14:	7. 30							
13. 34:	9. 0							
13. 52	7. 5							
14. 23	13. 15							
15. 42	4. 30							
16. 10	10. 30							
16. 33	12. 5							
17. 43:	7. 0							
18. 15	8. 30							
	***							
22. 18	9. 0							
23. 31	16. 10							
23. 59	17. 25							
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 15	22. 18. 30	0. 30	·0870	0. 20	·01440	1. 40	49 ·8	53 ·0
1. 34	17. 30		(†)	3. 5	·01145	3. 40	53 ·5	54 ·0
2. 2	21. 5	5. 15	·0874	4. 14	·00880	9. 40	53 ·5	55 ·5
	***	7. 2	·0876	5. 13	·00795	23. 20	49 ·5	53 ·0
2. 58	12. 30	7. 17	·0903	7. 25	·00837			
3. 30	18. 0	7. 37	·0908	7. 55	·00780			
	***	8. 6	·0872	8. 59	·00734			
4. 11	16. 25	8. 45	·0884	9. 50	·00740			
4. 30	8. 50	9. 30	·0880	10. 2	·00690			
4. 38	13. 20	9. 51	·0916	11. 38:	·00800			
4. 56	14. 10	10. 3	·0894	12. 26	·00752			
5. 11	11. 25	10. 20	·0906	14. 33	·00988			
5. 18	13. 20	11. 0	·0886	14. 57	·00976			
5. 38	10. 15	11. 38	·0900	19. 10:	·01400			
6. 0	12. 30	12. 23	·0896	23. 45	·01410			
6. 36	11. 20	12. 55	·0912					
6. 52	22. 9. 0	14. 0	·0890					
7. 15	21. 57. 0	14. 35	·0886					
7. 47	22. 9. 30	16. 0	·0906					
8. 23	5. 0	16. 55	·0897					
8. 46:	8. 0		***					
9. 7	5. 30	20. 30	·0892					
9. 16	6. 5	21. 45	·0876					
9. 40	5. 20	23. 59	·0890					
9. 55	10. 45							
10. 10:	1. 25							
10. 22	4. 10							
10. 57	4. 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. 9								
h m	° ′ ″	h m		h m		h m	°	°
12. 18	22. 12. 10							
12. 45	5. 30							
13. 22	4. 15							
13. 43	0. 0							
14. 12	4. 0							
14. 40:	16. 5							
	***							
15. 57:	6. 15							
17. 30	12. 30							
18. 7	10. 35							
19. 1	12. 0							
19. 13	10. 0							
19. 18	11. 0							
19. 26	8. 5							
	***							
19. 37	9. 30							
	***							
20. 17	7. 15							
	***							
23. 26	12. 30							
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 0	22. 14. 20	0. 0	·0883	0. 0	·01400	8. 15	54 ·8	57 ·3
0. 24	16. 30	0. 40	·0876	3. 6:	·01174	21. 40	49 ·0	52 ·0
0. 35	16. 0	1. 20	·0890	6. 2	·00740			
0. 40	14. 25	7. 15	·0908		·00768			
1. 34	17. 30	8. 5	·0898	6. 31:	·00760			
7. 10	10. 0	9. 5	·0910	8. 2:	·00802			
7. 32	8. 25	10. 50	·0900	10. 12	·00771			
8. 41	10. 0	15. 5	·0909	15. 46:	·01020			
8. 55	6. 35		***	19. 23:	·01487			
10. 20	10. 0	15. 45	·0922	21. 46	·01730			
12. 35	10. 10	17. 45	·0900	21. 50	·01700			
13. 0	13. 30	18. 2	·0907	23. 59	·01692			
14. 11:	7. 55	18. 40	·0900					
14. 49:	14. 40	20. 30	·0900					
15. 38	5. 45	22. 7	·0893					
15. 58	5. 30	23. 7	·0876					
16. 30	2. 45	23. 59	·0874					
17. 40	7. 0							
17. 47	6. 20							
18. 10	8. 45							
18. 30	7. 30							
18. 43	9. 25							
18. 57	8. 25							
19. 51	13. 10							
20. 0	12. 0							
20. 15	13. 0							
20. 53	9. 45							
21. 16	10. 20							
21. 43	8. 50							
23. 59	15. 0							
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 30	22. 16. 25	0. 25	·0878	0. 30	·01668	1. 40	52 ·0	54 ·5
2. 7	20. 0	2. 54	·0882	3. 5:	·01444	3. 40	54 ·0	56 ·5
2. 40	20. 0	3. 10	·0890	5. 32	·01025	9. 40	57 ·0	60 ·0
2. 50	20. 50	3. 25	·0884	7. 8:	·01035	21. 40	54 ·5	56 ·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 The rmometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 11		Apr. 11		Apr. 11				
h m	° ′ ″	h m		h m		h m	°	°
3. 20	22. 19. 0		***					
3. 43	19. 45	5. 5	·0893	9. 2	·00980			
3. 48	18. 10	5. 35	·0919		·01132			
3. 59	19. 0	6. 5	·0894	10. 22:	·01090			
4. 5	17. 30		***	11. 40	·01132			
4. 43	17. 0	7. 30	·0903	12. 7	·01096			
4. 55	15. 0	8. 17	·0887	16. 16	·01288			
5. 4	17. 0		***	17. 17	·01298			
5. 17	9. 5	11. 30	·0892	21. 0	·01630			
5. 41	14. 45	11. 50	·0912	23. 0	·01730			
5. 54	12. 35	12. 26	·0892	23. 59	·01722			
6. 10	14. 25	13. 25	·0886					
6. 22	11. 0	14. 30	·0896					
6. 28	11. 30	15. 45	·0890					
6. 38	9. 0	17. 15	·0907					
6. 45	9. 15	17. 45	·0902					
7. 6	4. 0	18. 7	·0910					
	***		***					
7. 24	6. 15	20. 0	·0890					
7. 42	5. 0	20. 45	·0880					
7. 53	7. 40	23. 10	·0874					
8. 15:	7. 20							
8. 50:	10. 0							
9. 37	7. 40							
10. 22	8. 40							
10. 52:	11. 35							
11. 7	10. 30							
11. 35	11. 0							
11. 52	16. 30							
12. 34:	8. 0							
12. 53:	7. 45							
13. 43:	11. 30							
15. 3	9. 0							
16. 25	11. 55							
17. 21	8. 55							
18. 25	12. 5							
20. 19:	9. 15							
21. 1	15. 50							
21. 18	13. 30							
21. 44	14. 45							
22. 3	11. 20							
22. 29	9. 40							
22. 55	11. 40							
23. 25	10. 30							
23. 59	14. 20							
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 20	22. 13. 35	3. 45	·0880	0. 18	·01715	1. 40	57 ·0	58 ·5
0. 57	16. 30	4. 45	·0893	1. 55	·01640	3. 40	58 ·5	60 ·0
1. 8	16. 0	5. 15	·0880	4. 36	·01388	9. 40	58 ·5	60 ·5
2. 2	19. 20	5. 55	·0896		·01562	21. 40	48 ·0	52 ·0
2. 20	17. 0	6. 15	·0886	5. 22	·01512			
2. 43	18. 30		***	9. 18	·01677			
2. 51	17. 30	9. 5	·0893	10. 13	·01773			
3. 23	18. 15	9. 16	·0884	10. 26	·01760			
5. 32	13. 50	9. 30	·0896	12. 6	·01905			
5. 46	14. 15	9. 56	·0882	12. 55	·01806			
6. 23	11. 35	10. 12	·0906	14. 25	·01854			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 12		Apr. 12		Apr. 12		h m	°	°
h m	° ′ ″	h m		h m				
8. 7	22. 19. 20	10. 27	·0898	18. 45	·01831			
8. 34	6. 20	10. 59	·0900	23. 59	·01740			
9. 14	~. 25	11. 30	·0875					
9. 28	3. 50	12. 15	·0892					
9. 45	5. 30	12. 30	·0913					
10. 4	3. 0	13. 24	·0882					
10. 17	9. 0	19. 0	·0904					
10. 33	22. 2. 20	22. 55	·0885					
10. 53	21. 58. 10							
11. 25	22. 2. 0							
11. 35	0. 30							
11. 52	1. 45							
12. 41	12. 0							
13. 2	7. 30							
13. 14	7. 10							
13. 30	4. 30							
13. 42	5. 45							
14. 0	5. 35							
14. 32	9. 0							
16. 45	8. 50							
18. 20	9. 50							
18. 23	8. 20							
18. 55	8. 25							
19. 4	9. 0							
20. 34	7. 0							
22. 11	8. 0							
23. 44	12. 0							
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 2	22. 12. 35	0. 0	·0887	0. 45	·01722	1. 40	51 ·0	54 ·0
1. 7	17. 20	0. 38	·0881	1. 0	·01670	3. 40	53 ·5	54 ·0
2. 36	20. 0	4. 0	·0894	2. 52:	·01535	9. 40	49 ·0	52 ·5
4. 34	15. 0	5. 8	·0912	5. 1:	·01335	21. 48	44 ·5	48 ·0
6. 45	10. 30	6. 20	·0910	9. 25:	·01370			
7. 11	3. 50	6. 40	·0898	14. 13	·01773			
7. 26	4. 20	7. 20	·0913		·01742			
7. 40	6. 30		***	17. 32	·01695			
7. 50:	5. 45	7. 50	·0900		·01565			
8. 14	8. 25	19. 38	·0918	18. 19	·01615			
9. 29	8. 0	23. 35	·0888	21. 8	·01595			
11. 47	10. 0			23. 51	·01452			
16. 14	9. 35							
16. 35	11. 0							
17. 0	10. 0							
18. 34	9. 25							
20. 32	7. 0							
22. 18	7. 0							
23. 32	8. 0							
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 30	22. 11. 25	1. 45	·1054	0. 31	·01400	1. 40	49 ·0	53 ·5
1. 41	13. 10	8. 45	·1074	2. 3:	·01080	3. 40	54 ·0	55 ·5
2. 4	16. 30	9. 8	·1068	3. 14	·00652	9. 40	55 ·0	56 ·5
2. 49	16. 0	9. 25	·1076	7. 33	·00762	21. 40	47 ·5	50 ·7
3. 4	16. 45	10. 30	·1072	10. 10	·00755			
5. 20	14. 20		***	14. 13:	·00975			
8. 47	13. 0	13. 15	·1070	18. 2:	·01442			
9. 23:	9. 0	19. 0	·1089	20. 42	·01770			
					·01675			

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	°	°
h m	° ′ ″	h m		h m				
10. 14:	22. 12. 5	22. 8	·1068	23. 59	·01638			
11. 0	9. 20	23. 59	·1065					
12. 43:	10. 30							
13. 8	8. 50							
13. 58	11. 20							
16. 5	11. 5							
18. 13	14. 0							
18. 14	16. 30							
20. 10	17. 20							
21. 15	16. 15							
22. 8	17. 30							
22. 25	16. 0							
22. 58	15. 50							
23. 15	14. 45							
23. 59	16. 35							
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 37	22. 16. 15	0. 0	·1065	0. 22	·01652	1. 40	50 ·0	52 ·5
1. 35	18. 15	2. 0	·1065	1. 48	·01657	3. 40	52 ·0	54 ·5
6. 45	13. 10	5. 40	·1084	3. 21:	·01510	9. 40	54 ·0	56 ·0
12. 0	14. 10	19. 30	·1088	9. 1	·00755	21. 40	51 ·0	53 ·5
12. 58	15. 50	23. 59	·1062	13. 46:	·00726			
14. 35	15. 25			22. 46	·01200			
17. 27	17. 0			23. 59	·01183			
19. 5	20. 0							
19. 53	20. 30							
21. 37	18. 25							
22. 6	19. 35							
22. 26	17. 20							
23. 59	15. 0							
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
1. 40	22. 18. 13*	1. 40	·1042*	0. 15	·01167	1. 40	54 ·5	56 ·0
3. 40	23. 36*	3. 40	·1067*	2. 7:	·01030	3. 40	56 ·0	57 ·5
9. 40	14. 38*	9. 40	·1083*	3. 50	·00780	9. 40	57 ·0	58 ·0
23. 20	16. 59*	23. 20	·1059*		·00855	23. 20	54 ·0	54 ·8
				6. 37	·00859			
				8. 39	·00835			
					·01075			
				11. 23	·01049			
				15. 38:	·01190			
				20. 18:	·01597			
				22. 30:	·01675			
				23. 30	·01670			
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	22. 18. 10	0. 0	·1068	0. 17	·01623	12. 35	58 ·0	60 ·0
0. 18	17. 30	0. 30	·1053	3. 22:	·01435	21. 40	55 ·5	57 ·5
1. 17	19. 30	1. 30	·1054	8. 31	·00905			
1. 26	19. 0	2. 20	·1072		·00925			
2. 7	20. 20	3. 34	·1064	9. 14	·00920			
2. 50	18. 20	4. 0	·1070		·01100			
3. 58	17. 10	4. 15	·1064	13. 14:	·01030			
8. 6	16. 0	5. 10	·1086	16. 24	·01165			
12. 15	18. 25	7. 10	·1078	17. 20	·01190			
13. 25	15. 35	13. 15	·1078	20. 40:	·01468			
14. 43	15. 15	14. 50	·1060	23. 59	·01520			
16. 7	19. 15	16. 0	·1070					

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

April 14^{d}. 0^{h}. The adjustments of the Horizontal Force Magnet were altered so as to cause the pencil of light to fall on the paper, about 0·0085 nearer the base line ; so that all readings from this time are 0·0085 greater than those in the series ending April 13^{d}. 23^{h}. 35^{m}.

April 16. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint to use.

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. 17		Apr. 17						
h m	° ′ ″	h m		h m		h m	°	°
16. 35	22. 22. 5	16. 30	·1084					
17. 24	20. 50	17. 12	·1068					
19. 54	22. 30	19. 0	·1082					
21. 0	20. 30	22. 45	·1054					
22. 45	20. 0	23. 59	·1050					
23. 20	21. 0							
23. 32	19. 50							
23. 59	20. 20							
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
0. 28	22. 19. 50	0. 0	·1050	0. 30	·01512	1. 40	57 ·0	59 ·5
0. 36	19. 35	1. 0	·1047	2. 9:	·01393	3. 40	59 ·5	61 ·0
0. 47	21. 30	2. 0	·1062	5. 5	·00935	9. 40	62 ·0	62 ·5
0. 58	20. 0	6. 30	·1076		·00955	21. 40	55 ·0	57 ·0
1. 45	20. 50	12. 0	·1074	6. 28	·00960			
2. 30	18. 15		***		·01150			
5. 30	12. 20	12. 50	·1084	7. 10	·01118			
6. 44	11. 45	14. 15	·1074	13. 12:	·01360			
11. 7	13. 20		***	17. 30	·01852			
11. 59	12. 30	17. 0	·1076		·01836			
12. 11	13. 30	20. 45	·1073	23. 30	·01799			
13. 10	10. 25	23. 59	·1060					
15. 54	11. 0							
18. 0	13. 50							
20. 40	18. 10							
22. 0	17. 40							
22. 25:	16. 50							
23. 0	17. 55							
23. 48	16. 0							
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
0. 9	22. 17. 35	0. 0	·1061	0. 30	·01792	1. 40	57 ·0	57 ·5
0. 40	17. 0	2. 0	·1060	2. 36:	·01685	3. 40	59 ·0	60 ·0
1. 30	19. 0	4. 30	·1082	5. 35	·01405	10. 40	58 ·5	59 ·8
3. 23	17. 50	5. 30	·1068	11. 8	·01823	21. 40	52 ·8	55 ·0
3. 52	15. 30		***	15. 2:	·01458			
4. 53	16. 30	6. 15	·1084	19. 20	·01820			
5. 17	15. 20	7. 16	·1070		·01795			
6. 25	15, 45	7. 44	·1078	23. 55	·01770			
7. 4	13. 0	8. 15	·1064					
7. 43	12. 15	8. 50	·1072					
8. 6	13. 25	9. 23	·1065					
8. 26	11. 0	9. 32	·1072					
	***	9. 55	·1062					
8. 52	12. 50	10. 56	·1070					
9. 3	12. 0	11. 10	·1060					
9. 25	5. 30	14. 0	·1075					
9. 58	10. 30	17. 23	·1076					
10. 28	11. 0	23. 55	·1058					
10. 40	9. 35							
11. 3	12. 0							
11. 34:	6. 5							
13. 0	12. 5							
20. 5	12. 45							
21. 2	16. 0							
21. 15	17. 0							
21. 27	15. 30							
21. 47	15. 40							

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. 19								
h m	° ′ ″	h m		h m		h m	°	°
22. 31:	22. 12. 5							
23. 51	15. 0							
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 0	22. 15. 30	0. 0	·1059	0. 50:	·01762	1. 40	56 ·6	57 ·3
1. 16	18. 20	1. 44	·1058	1. 49	·01697	3. 40	57 ·5	58 ·0
3. 3	18. 0	3. 20	·1062	6. 15	·01243	9. 40	57 ·0	59 ·0
3. 37	15. 30	4. 28	·1081	9. 27	·01170	21. 40	49 ·8	53 ·0
4. 13	14. 40	4. 40	·1070	12. 6	·01260			
4. 21	15. 30	5. 28	·1076	13. 16	·01380			
4. 43	14. 10	5. 43	·1092	13. 35	·01348			
5. 30	14. 0	6. 15	·1075	16. 26	·01770			
5. 44	15. 0		***		·01740			
6. 40	12. 45	8. 0	·1078	19. 0	·01760			
7. 30	13. 0		***	21. 30	·01710			
8. 0	11. 55	9. 56	·1070		·01578			
8. 35	9. 30	10. 44	·1084	23. 59	·01510			
9. 20	11. 10		***					
10. 11	5. 55	11. 35	·1076					
10. 27	22. 7. 15	11. 44	·1066					
11. 18	21. 57. 55	11. 50	·1076					
	***		***					
11. 52	22. 2. 55	12. 30	·1058					
12. 13	21. 59. 45	12. 50	·1070					
	***		***					
12. 58	22. 3. 0	13. 55	·1062					
13. 25:	13. 0	14. 38	·1090					
13. 50:	9. 35		***					
14. 13	13. 35	15. 25	·1080					
15. 17:	8. 50	19. 34	·1082					
15. 47	10. 0	22. 10	·1067					
16. 10	8. 30	23. 59	·1054					
	***							
19. 10	9. 5							
21. 47	13. 5							
22. 10	15. 0							
22. 55	15. 10							
23. 40	16. 30							
23. 58	18. 20							
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 18	22. 18. 20	0. 8	·1052	1. 30	·01440	1. 40	52 ·5	53 ·5
1. 32	22. 0	1. 43	·1060	3. 47:	·01295	3. 40	54 ·0	55 ·0
	***	3. 37	·1079	9. 1	·00647	9. 40	54 ·5	57 ·5
4. 14	18. 25	7. 15	·1089		(†)	21. 40	51 ·5	54 ·0
6. 30	17. 35	10. 50	·1090	16. 7	·00640			
8. 52	19. 15	11. 14	·1101	18. 33:	·00973			
	***	11. 30	·1092	22. 30	·01220			
10. 8	22. 10		***		·01087			
12. 3	20. 55	14. 47	·1104	23. 45	·01090			
13. 43	24. 5	14. 58	·1094	23. 59	·01032			
14. 16	26. 45		***					
14. 45	25. 0	15. 30	·1100					
	***	16. 10	·1077					
15. 28	24. 45		***					
15. 58:	20. 0	20. 50	·1076					
16. 48	24. 30		***					
	***	22. 13	·1058					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

April 21. Vertical Force Magnet. The spot of light was off the sheet from 9^h to 16^h.

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.21		Apr.21						
h m	° ′ ″	h m		h m		h m	°	°
21. 46	22. 32. 0	23. 45	·1060					
	***	23. 59	·1066					
22. 20	34. 30							
	***							
22. 58	33. 40							
	***							
23. 58	36. 30							
		Apr.22		Apr.22		Apr.22		
		0. 0	·1066	0. 30	·00988	1. 40	54 ·0	56 ·5
		0. 13	·1060	2. 46	·00850	3. 40	55 ·0	57 ·5
		0. 30	·1074	3. 53	·00590	9. 40	55 ·0	57 ·5
		0. 46	·1068		·00630	21. 40	56 ·5	52 ·5
		1. 8	·1074		***			
		1. 27	·1065	4. 43	·00607			
		1. 45	·1073	8. 17	·00660			
		2. 55	·1072	10. 0	·00660			
		3. 18	·1062	10. 20	·00605			
		4. 4	·1082	16. 8	·01222			
		4. 50	·1076	18. 31	·01415			
		5. 11	·1100		·01260			
			***	19. 43	·01325			
		6. 0	·1080	23. 59	·01295			
		6. 13	·1090					
		6. 24	·1078					
		7. 16	·1073					
		7. 30	·1079					
		7. 43	·1070					
		8. 50	·1087					
		9. 35	·1075					
		9. 50	·1092					
		10. 15	·1068					
		10. 53	·1083					
		11. 30	·1073					
		11. 45	·1081					
			***					
		15. 30	·1078					
		16. 50	·1088					
		17. 45	·1072					
		18. 30	·1091					
		20. 45	·1088					
		21. 15	·1072					
			***					
		23. 0	·1058					
		23. 59	·1067					
Apr.23		Apr.23		Apr.23		Apr.23		
	(†)	0. 0	·1066	1. 40	·01296*	1. 40	51 ·0	53 ·0
6. 6	22. 17. 45		(†)		(†)	3. 40	51 ·0	54 ·0
7. 14.	11. 0	6. 22	·1016	3. 40	·02387*	9. 40	54 ·5	55 ·5
7. 31	22. 6. 0	6. 37	·1020		(†)	22. 40	49 ·0	52 ·5
8. 28	21. 56. 25	7. 2	·1008	6. 21	·02322			
8. 47	22. 3. 0	7. 15	·1019	7. 43	·02410			
8. 57	1. 0	7. 43	·1008	11. 10	·02230			
9. 23	6. 5	8. 8	·1021	14. 20	·02261			
9. 33	4. 30	8. 47	·1000	17. 36	·02562			
9. 50	7. 50	9. 0	·1009		(†)			
10. 16	7. 0	9. 28	·1002	22. 40	·02576*			
					(†)			

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.23		Apr.23						
h m	° ′ ″	h m		h m		h m	°	°
10. 28	22. 9. 35	9. 50	·1013					
10. 38	9. 5	10. 5	·1005					
10. 55	11. 45	10. 20	·1014					
11. 27	8. 20	10. 30	·1010					
12. 45	11. 0	10. 54	·1018					
13. 25	9. 50	11. 15	·1014					
13. 45:	16. 0		***					
14. 3	11. 20	13. 37	·1013					
16. 2	9. 0	14. 0	·1016					
16. 17	10. 50	14. 23	·1013					
16. 55	7. 50		***					
	(†)	17. 11	·1015					
20. 35	5. 0		(†)					
20. 40	7. 15	20. 21	·1004					
20. 46	6. 30	21. 10	·0992					
21. 3	9. 5	21. 17	·0997					
21. 8	7. 50	21. 32	·0986					
23. 59	8. 30	22. 5	·0998					
		22. 17	·0998					
Apr.24		Apr.24		Apr.24		Apr.24		
0. 0	22. 11. 40	0. 8	·0998		(†)	8. 0	52 ·5	53 ·0
1. 43	14. 25	3. 45	·1014	8. 0	·02138*	21. 40	45 ·8	47 ·0
	***	4. 10	·1022		(†)			
5. 30	12. 25	4. 37	·1012	21. 40	·01913*			
6. 5	12. 30	6. 36	·1024		(†)			
	***	11. 30	·1024					
9. 2	10. 0	12. 12	·1040					
9. 47	11. 5	13. 0	·1020					
11. 34	11. 25	13. 16	·1031					
11. 50	14. 50	14. 4	·1016					
11. 57	13. 30	15. 12	·1026					
12. 10	16. 0	16. 25	·1016					
12. 25	11. 30	18. 0	·1024					
12. 43	15. 0	20. 12	·1020					
13. 0	12. 0	22. 0	·0998					
13. 17	19. 15	22. 57	·1000					
13. 58	10. 0	23. 59	·1000					
14. 23	8. 20							
14. 54	10. 35							
15. 31	7. 5							
	***							
16. 15	11. 20							
	***							
17. 20	9. 0							
	***							
21. 50	7. 0							
22. 35	8. 0							
22. 43	10. 0							
23. 0	9. 40							
23. 59	12. 45							
Apr.25		Apr.25		Apr.25		Apr.25		
0. 15	22. 13. 30	0. 0	·1001	1. 4	·02766	1. 40	48 ·5	50 ·5
1. 16	16. 5	4. 30	·1022	2. 53	·02570	3. 40	49 ·0	51 ·0
2. 45	15. 10	4. 45	·1032	3. 0	·02560	9. 40	48 ·0	51 ·0
3. 27	13. 45	5. 9	·1023	6. 31	·02325	21. 40	45 ·5	49 ·0
9. 43	11. 50		***	11. 23	·02310			
9. 49	12. 55	6. 15	·1038	14. 8	·02413			

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

April 23. The magnet was found resting on the copper damper, and in consequence the observations made on April 22, have not been used.

April 23, 24, 25. Vertical Force Magnet. The spot of light was off the sheet from April 23^{d}. 17^{h}. till April 25^{d}. 1^{h}.

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		Apr.25		Apr.25				
h m	° ′ ″	h m		h m		h m	°	°
10. 30	22. 10. 35	6. 30	·1032	15. 26	·02530			
10. 14	10. 15		***	15. 46	·02476			
11. 29:	8. 45	7. 55	·1036	21. 38	·02466			
12. 6	11. 0	9. 30	·1030	23. 59	·02366			
12. 35	10. 30	9. 45	·1036					
	***	10. 35	·1030					
13. 33	17. 35	11. 15	·1042					
14. 10	6. 50	11. 30	·1036					
16. 8	13. 0	12. 20	·1042					
16. 23	11. 30	13. 5	·1036					
16. 45	14. 30	14. 0	·1052					
17. 44	10. 30	14. 40	·1034					
	***		***					
20. 47	8. 0	16. 35	·1036					
	***	16. 55	·1033					
22. 20	8. 30	17. 30	·1038					
23. 59	13. 30	19. 54	·1036					
		22. 2	·1007					
		23. 59	·1004					
Apr.26		Apr.26		Apr.26		Apr.26		
0. 5	22. 13. 50	0. 0	·1004	2. 5	·01310	1. 40	49 ·5	51 ·0
1. 43	16. 0	4. 8	·1020	3. 12	·01156	3. 40	52 ·0	53 ·0
	***	4. 15	·1024	4. 50	·01242	9. 40	54 ·0	55 ·0
8. 4	9. 10	4. 30	·1019	7. 5	·01220	21. 40	47 ·5	48 ·5
8. 50	10. 30	6. 45	·1034	10. 2	·01265			
11. 16	9. 40	9. 15	·1023	14. 5:	·01540			
11. 32:	8. 0	18. 30	·1036	17. 26	{ ·02032			
12. 18	9. 40	19. 45	·1022		{ ·01980			
12. 45	9. 35	20. 0	·1028	23. 59	·01970			
13. 5	12. 25	22. 45	·1007					
13. 45	10. 35	23. 59	·1006					
15. 35	9. 30							
18. 40	10. 0							
20. 33	6. 5							
	***							
21. 44	6. 10							
23. 59	10. 40							
Apr.27		Apr.27		Apr.27		Apr.27		
0. 46	22. 11. 30	0. 0	·1006	0. 40	·02015	1. 40	49 ·3	50 ·4
1. 30	13. 0		***	2. 40:	·01818	3. 40	52 ·8	54 ·0
1. 32	14. 45	3. 15	·1007	4. 25	·01412	9. 40	56 ·0	56 ·0
1. 52	16. 25	5. 24	·1026	5. 26	·01452	21. 40	48 ·0	50 ·0
3. 43	15. 15	7. 9	·1022	6. 28	·01417			
6. 0	11. 30	7. 20	·1027	8. 26	·01428			
7. 17	10. 0	7. 34	·1022	8. 35	·01490			
9. 2	11. 15	15. 30	·1022	9. 10	·01480			
13. 2	9. 0	19. 45	·1035	13. 20	·01670			
13. 25	8. 30	21. 54	·1026	16. 25:	·01820			
15. 22	11. 0	23. 59	·1003	20. 7	{ ·01250			
19. 5	10. 0				{ ·01213			
19. 34	8. 10			21. 54	·02108			
19. 55	9. 40			23. 0	·02125			
	***			23. 59	·02056			
21. 17	6. 15							
23. 7	7. 30							
23. 59	9. 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.	Of V. F. Magnet.
Apr.28		Apr.28		Apr.28		Apr.28		
h m	° ′ ″	h m		h m		h m	°	°
0. 32	22. 11. 30	0. 0	·1003	0. 32	·01995	1. 40	55 ·5	57 ·0
2. 35	14. 0	1. 37	·0994	1. 54:	·01800	3. 40	59 ·0	61 ·0
7. 35	10. 0	5. 0	·1010	2. 53	·01540	10. 15	58 ·0	60 ·0
	***	5. 8	·1015	4. 20	{ ·01570	21. 40	49 ·5	53 ·0
16. 46	8. 50	5. 18	·1005		{ ·01656			
18. 10	9. 45	6. 45	·1016	8. 15	·01965			
	***	8. 8	·1011	10. 46	·02060			
19. 41:	7. 15	8. 20	·1018	13. 28	{ ·02250			
19. 53	9. 20	14. 40	·1030		{ ·02231			
	***	22. 0	·1032	22. 25	·02152			
22. 53	7. 10	23. 59	·1010	23. 59	·02167			
23. 59	9. 30							
Apr.29		Apr.29		Apr.29		Apr.29		
0. 5	22. 10. 0	0. 0	·1010	0. 20	·02170	1. 40	52 ·3	55 ·0
2. 31	15. 0	2. 45	·1018	2. 31	·02166	3. 40	54 ·0	56 ·5
12. 1	10. 0	3. 15	·1014	8. 5	·02070	9. 40	54 ·0	55 ·4
12. 15	11. 35	3. 24	·1022	12. 45	·02080	21. 40	50 ·0	54 ·0
12. 30	10. 30	3. 45	·1018	15. 44	·02130			
12. 36	11. 40		***	16. 0	·02085			
13. 25	6. 15	5. 11	·1033	16. 44	·02117			
14. 0	6. 55		***	19. 57	·02110			
14. 12	6. 15	6. 0	·1028	23. 40	·01988			
15. 3	14. 0	11. 55	·1030					
	***	12. 30	·1035					
16. 9	8. 55	14. 33	·1019					
	***		***					
16. 44	10. 30	16. 10	·1032					
	***	16. 25	·1022					
17. 23	8. 0	17. 15	·1028					
	***	21. 15	·1017					
17. 54	8. 50	23. 0	·0996					
	***	23. 38	·0996					
18. 21	7. 15							
	***							
21. 6	7. 25							
23. 35	12. 30							
Apr.30		Apr.30		Apr.30		Apr.30		
0. 0	22. 12. 0	0. 0	·1002	0. 0	·01972	1. 40	57 ·0	57 ·5
1. 35	12. 30	1. 33	·1005	1. 34:	·01825	3. 40	60 ·5	61 ·0
2. 8	13. 50	2. 9	·1013	3. 19	·01526	9. 40	64 ·0	64 ·0
4. 13	10. 0	2. 30	·1008	7. 55	·01572	23. 10	55 ·0	59 ·0
8. 0	9. 15	3. 45	·1014	11. 26	·01762			
8. 30	10. 0	4. 8	·1008	13. 30:	·01920			
8. 55	8. 50	5. 0	·1016	16. 23	{ ·02270			
9. 46	10. 30	5. 15	·1010		{ ·02231			
10. 44	9. 15	6. 22	·1003	21. ,	·02180			
11. 1	10. 35	7. 9	·1012	23. 3 (	·02210			
12. 30	9. 40	8. 35	·1004					
16. 54	10. 10	10. 0	·1012					
17. 8	10. 30	10. 20	·1007					
19. 15	9. 20	19. 15	·1025					
19. 25	7. 45	21. 0	·1018					
19. 53	8. 30	22. 2	·1003					
20. 43	4. 55	23. 30	·0994					
20. 56	6. 25							
21. 10	5. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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								
h m	° ′ ″	h m		h m		h m	°	°
21. 34	22. 7. 15							
22. 43	7. 55							
23. 28	11. 10							
May 1		May 1		May 1		May 1		
0. 0	22. 11. 30	0. 0	·0990	0. 0	·02182	11. 40	64 ·0	65 ·5
1. 0	14. 15	0. 43	·0986	2. 8:	·01940	21. 40	55 ·0	57 ·0
2. 32	15. 5	2. 50	·0999	4. 2	·01570			
4. 5	10. 5	3. 9	·0994	5. 58	·01618			
5. 36	11. 10	3. 19	·0998	7. 17	·01590			
6. 4	9. 45	3. 36	·0987		·01712			
6. 53	10. 45	3. 51	·0996	11. 15	·01918			
7. 36	8. 15	4. 4	·0991	12. 45	·02052			
9. 5	9. 50	4. 35	·0999	14. 31	·02288			
9. 32	9. 20	4. 56	·0996		·02252			
10. 28	10. 15	5. 12	·1004	21. 24	·02120			
13. 32	9. 45	6. 2	·0990	23. 59	·01853			
14. 0	14. 50	6. 45	·1001					
14. 17	10. 0	7. 13	·0990					
14. 45	10. 0	8. 15	·1000					
15. 5	12. 15	12. 45	·1011					
16. 3	8. 20		***					
17. 19	8. 30	17. 45	·1030					
18. 8	5. 45	20. 24	·1022					
19. 38	5. 45	21. 30	·1026					
20. 17:	3. 40	22. 11	·1018					
20. 51	5. 50	23. 30	·1016					
20. 58	4. 45							
21. 54	8. 50							
22. 13	8. 0							
23. 30	12. 30							
23. 58	12. 15							
May 2		May 2		May 2		May 2		
1. 46	22. 16. 0	0. 30	·1010	1. 5	·01770	1. 40	59 ·0	62 ·0
	***	1. 50	·1020	2. 13	·01570	3. 40	63 ·0	64 ·5
3. 23	18. 0	2. 14	·1010	3. 35	·01430	9. 40	62 ·0	65 ·0
	***	3. 45	·1014	6. 47	·01465	21. 40	56 ·0	59 ·0
4. 45	11. 30	3. 55	·1008	8. 49	·01584			
5. 0	13. 30	4. 7	·1014	9. 58	·01585			
5. 30	12. 45	4. 15	·1010	10. 27	·01552			
5. 58	14. 0	4. 50	·1020	14. 40	·01817			
6. 46	11. 45		***	14. 55	·01797			
7. 13	13. 0	5. 15	·1042	15. 53	·02105			
7. 26	11. 20		***	17. 5	·02178			
7. 36	11. 55	5. 45	·1024		·02122			
8. 8	3. 0		***	17. 35	·02122			
8. 21	4. 50	6. 9	·1038	17. 48	·02080			
8. 26	7. 0	6. 15	·1028	17. 59	·02097			
8. 27	5. 0	6. 20	·1036	18. 17	·02012			
8. 38	7. 15		***	18. 43	·02088			
8. 48	6. 0	6. 52	·1024	19. 8	·02010			
9. 31	22. 8. 35	6. 59	·1032		***			
9. 53	21. 58. 0	7. 2	·1026	22. 28	·02138			
10. 25	22. 2. 40		***		***			
10. 37	21. 55. 20	7. 38	·1042	23. 59	·02102			
10. 49	22. 1. 30	7. 52	·1024					
10. 55	0. 40	7. 58	·1030					

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 2		May 2						
h m	° ′ ″	h m		h m		h m	°	°
11. 12	22. 3. 0	8. 4	·1020					
11. 26	0. 15	8. 15	·1030					
11. 43:	22. 4. 30	8. 17	·1022					
12. 15:	21. 58. 30	8. 23	·1027					
	***	8. 28	·1016					
12. 44	22. 1. 30	8. 33	·1020					
13. 14	22. 0. 0	8. 46	·1008					
13. 34:	21. 56. 30	9. 24	·1018					
13. 54	59. 35	9. 40	·1014					
13. 56	21. 58. 15	10. 15	·1055					
14. 17	22. 0. 0	10. 33	·1023					
14. 33	21. 56. 30	10. 47	·1049					
14. 45	59. 30	11. 27	·1020					
15. 5	21. 53. 15	11. 40	·1027					
15. 33	22. 8. 45		***					
15. 52	4. 45	12. 15	·1006					
	***	12. 30	·1017					
16. 20	7. 35	12. 43	·1012					
16. 47	4. 30	13. 20	·1022					
17. 16	5. 20	14. 6	·1003					
17. 44	14. 30	14. 47	·1042					
17. 54	11. 20	15. 27	·0984					
18. 14	23. 0	15. 55	·1008					
18. 23	16. 40	16. 4	·1005					
18. 37	20. 0	16. 16	·1010					
18. 45	28. 45	16. 30	·1006					
19. 9	13. 0	17. 16	·1014					
19. 20	11. 30	17. 26	·1005					
	***	17. 32	·1015					
19. 40	16. 45		***					
	***	17. 45	·1014					
20. 15	10. 0	17. 57	·0990					
	***		***					
20. 37	13. 30	18. 6	·0994					
	***	18. 25	·0964					
20. 54	9. 30	18. 33	·0976					
	***	18. 39	·0968					
21. 5	13. 45	19. 0	·1021					
21. 10	9. 30	19. 7	·1023					
21. 13	14. 25	19. 18	·1018					
21. 14	10. 10	19. 27	·1027					
	***	19. 36	·1016					
21. 22	8. 10	19. 50	·1015					
	***	20. 15	·0979					
21. 34	15. 30	20. 29	·1004					
21. 36	12. 30		***					
	***	20. 58	·0996					
22. 45	15. 5	21. 0	·1006					
22. 48	17. 30	21. 10	·0993					
	***	21. 15	·1005					
23. 36	17. 30	21. 17	·0997					
	***	21. 37	·0989					
23. 46	20. 45	21. 46	·0996					
	***	21. 50	·0984					
		22. 0	·0992					
		22. 9	·0981					
		22. 15	·0986					
		22. 23	·0979					

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	° ′ ″	May 2 h m		h m		h m	°	°
		22. 26	·0988					
		22. 33	·0984					
		22. 35	·0988					
		22. 43	·0984					
		23. 0	·0990					
		23. 24	·0988					
		23. 32	·1001					
			***					
		23. 45	·0986					
		23. 54	·1002					
		23. 57	·0982					
		23. 59	·0986					
May 3		May 3		May 3		May 3		
0. 6	22. 18. 50	0. 4	·0976	1. 0	·02092	1. 40	59 ·0	61 ·0
	***	0. 8	·0986	2. 5	·02070	3. 40	61 ·0	62 ·5
0. 15	17. 5	0. 10	·0976	2. 9	·02008	9. 58	61 ·0	63 ·5
	***	0. 16	·0986	2. 53	·01963	21. 40	57 ·0	58 ·5
0. 34	20. 0	0. 20	·0980	3. 33	·02000			
	***		***	4. 8	·01948			
0. 46	17. 50	0. 47	·1003	4. 17	·01970			
	***	1. 0	·0989	4. 51	·01870			
1. 45	15. 45	1. 43	·0994	5. 50	·01730			
2. 9	21. 50	1. 45	·0990	6. 3	·01758			
2. 36	22. 45	2. 10	·1028	6. 41	·01673			
2. 45	20. 50	2. 25	·1010	7. 45	·01692			
2. 51	24. 0	2. 40	·1024	9. 18	·01620			
2. 58	20. 30	2. 46	·1004	9. 34	·01535			
3. 3	21. 30	3. 33	·1019	9. 55	·01590			
3. 31	14. 0	3. 40	·1040	11. 23	·01610			
3. 56	12. 30	4. 14	·1000	13. 15	·01645			
4. 6	15. 0	4. 25	·1066	14. 14	·01600			
4. 18	2. 45	4. 46	·1004	14. 55	·01623			
4. 28	10. 0	5. 1	·1000	16. 25	·01775			
5. 2	13. 0		***	17. 8	·01747			
5. 13	9. 20	5. 25	·1032	18. 40	·01928			
	***	5. 40	·1014	20. 5	{·02022			
5. 40	16. 30	5. 44	·1021		{·01885			
6. 53	2. 30	5. 55	·1004	21. 50	·01953			
7. 2	22. 4. 0	6. 9	·1069	23. 59	·01845			
7. 20	21. 58. 10	6. 23	·1033					
7. 28	59. 50	6. 30	·1046					
7. 32	58. 15	6. 53	·1027					
7. 46	21. 58. 10	6. 59	·1037					
8. 7	22. 5. 30	7. 24	·1041					
8. 18	2. 20	7. 39	·1022					
	***		***					
8. 42	3. 0	8. 0	·1027					
8. 55	8. 0	8. 20	·1002					
9. 13	4. 5		***					
9. 27	19. 45	8. 50	·1002					
9. 58	7. 15	9. 5	·0988					
10. 14	9. 35	9. 21	·1018					
10. 42	7. 0	9. 36	·0994					
10. 55:	2 5	10. 0	·1018					
11. 18	7. 10	10. 27	·1006					
11. 32	8. 0		***					
11. 40	3. 45	11. 0	·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.	Of V. F. Magnet.
May 3		May 3						
h m	° ′ ″	h m		h m		h	°	°
11. 52	22. 7. 5		***					
12. 6	5. 0	11. 34	·1006					
	***	11. 54	·1045					
12. 37	7. 10	12. 4	·1032					
	***	12. 15	·1034					
13. 30	4. 0	12. 25	·1025					
13. 54	10. 30	12. 27	·1024					
14. 18	13. 0	12. 44	·1012					
14. 44	19. 0		***					
15. 45:	6. 30	13. 42	·1012					
16. 13	8. 50	13. 55	·0992					
16. 29	13. 0		***					
17. 2	15. 0	14. 30	·1000					
17. 17	12. 0	15. 15	·1032					
17. 28	13. 30	16. 27	·1010					
17. 47	22. 11. 30	17. 1	·1029					
18. 0	21. 58. 0	17. 33	·1028					
18. 13	22. 8. 0	17. 38	·1020					
18. 29	6. 0	17. 41	·1028					
18. 38	9. 0	17. 50	·1016					
	***	18. 40	·1008					
19. 50	5. 40		***					
	***	19. 34	·1014					
20. 1	9. 15		***					
20. 4	6. 0	20. 56	·0978					
	***		***					
20. 15	5. 30	22. 31	·1002					
20. 20	8. 0	22. 37	·0995					
20. 32	6. 0	22. 50	·1007					
20. 49	10. 0	23. 8	·0994					
	***	23. 37	·1003					
22. 37	10. 30	23. 45	·0998					
22. 52	13. 30							
	***							
23. 16	12. 20							
23. 49	15. 40							
May 4		May 4		May 4		May 4		
0. 7	22. 14. 0	0. 8	·0986	0. 30	·01842	1. 40	60 ·0	62 ·5
	***	1. 0	·1007		***	3. 40	61 ·0	63 ·0
0. 31	13. 0	1. 27	·1008	3. 19	·01805	9. 40	60 ·0	62 ·5
	***	1. 46	·1002		***	21. 40	54 ·0	55 ·0
0. 57	16. 25	2. 35	·1022	4. 25:	·01610			
	***	3. 4	·1053		***			
1. 11	13. 0	4. 16	·1014	5. 45	·01460			
	***	4. 45	·1030		***			
2. 8	17. 50	5. 2	·1021	9. 8	·01382			
2. 19	15. 30	5. 10	·1030	10. 58	·01415			
	***	5. 23	·1032	15. 30	·01785			
2. 43	17. 20	5. 27	·1027	17. 8	{·02065			
3. 3	6. 0	5. 30	·1036		{·02021			
	***	5. 50	·1013	18. 13	{·02028			
3. 36	10. 30	6. 15	·1026		{·01900			
	***	6. 22	·1020	20. 5	·02000			
3. 44	13. 55	6. 38	·1052	23. 5	·01913			
	***	6. 40	·1044	23. 59	·01792			
4. 7	12. 50	6. 46	·1058					
4. 17	8. 10		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 4		May 4						
h m	° ′ ″	h m		h m		h m	°	°
4. 28	22. 11. 35	7. 9	·1054					
4. 38	8. 5	7. 43	·1023					
4. 50	7. 50	8. 0	·1040					
5. 17	15. 0	8. 20	·1038					
5. 28	12. 40	8. 39	·1024					
5. 32	14. 0	8. 49	·1031					
5. 54	10. 40	9. 32	·1020					
6. 7	11. 30	10. 5	·1032					
6. 18	7. 30	10. 35	·1023					
6. 24	8. 35	11. 25	·1026					
6. 45	5. 0	12. 20	·1044					
	***		***					
7. 5	6. 20	13. 15	·1026					
	***	14. 0	·1045					
7. 30	10. 35	14. 50	·1008					
7. 52	4. 20	15. 15	·1009					
8. 21	9. 10	15. 39	·1025					
8. 45	6. 0	16. 1	·1018					
9. 7	9. 0	16. 26	·1026					
9. 45	9. 15	16. 46	·1020					
10. 15	13. 10	17. 5	·1030					
12. 15	9. 10	17. 28	·1012					
13. 5	14. 40	18. 5	·1012					
14. 24:	2. 0	18. 10	·1006					
	***	18. 23	·1016					
15. 44	13. 35		***					
	***	18. 55	·1016					
16. 31	7. 0	19. 25	·0985					
17. 1	13. 30	19. 40	·0995					
	***	19. 50	·0988					
17. 41	14. 0	20. 15	·1014					
17. 50	12. 0	20. 50	·0995					
18. 4	13. 55		***					
18. 9	9. 55	20. 58	·1000					
18. 25	12. 30	21. 0	·0988					
	***		***					
18. 48	9. 50	21. 15	·0994					
	***		***					
19. 13	17. 40	21. 25	·0992					
	***	21. 38	·0996					
19. 58	7. 0	22. 24	·0980					
20. 13	9. 10	22. 31	·0992					
20. 18	8. 10		***					
	***	22. 40	·0988					
20. 44	12. 0	22. 45	·0978					
	***		***					
21. 9	6. 55	23. 5	·0993					
21. 22	10. 25	23. 10	·0984					
	***	23. 30	·0998					
21. 29	8. 50							
21. 36	11. 0							
	***							
22. 47	10. 0							
23. 0	13. 0							
23. 45	13. 45							
May 5		May 5		May 5		May 5		
0. 8	22. 14. 20	0. 30	·0998	0. 43	·01715	1. 40	58 ·0	58 ·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.
May 5		May 5		May 5		May 5		
h m	° ′ ″	h m		h m		h m	°	°
0. 55	22. 17. 45	0. 47	·1010	2. 8	·01440	3. 40	61 ·8	63 ·5
1. 36	13. 0	1. 20	·0980	7. 13	·01768	9. 40	62 ·4	64 ·5
2. 12	14. 30		***	7. 53	·01780	21. 40	54 ·0	55 ·0
	***	1. 37	·1000	9. 17	·01870			
4. 50	8. 35	2. 38	·1002	11. 28:	·01935			
5. 16	5. 30	3. 30	·0987	14. 7	·02273			
5. 48	7. 10	3. 50	·0997		·02235			
6. 23	4. 25	4. 4	·0991	18. 14	·02130			
7. 9	4. 10	4. 55	·1013	21. 3	·02135			
7. 47	6. 40	4. 57	·1003	23. 59	·02017			
13. 1	10. 30	5. 14	·1013					
13. 34	12. 5	5. 18	·1006					
14. 22	10. 30	5. 25	·1014					
14. 27	11. 30	5. 27	·1008					
14. 31	10. 15	5. 53	·1008					
15. 17	11. 25	6. 3	·1001					
15. 29	10. 30	6. 50	·1012					
15. 40	13. 0	7. 43	·1010					
16. 45	11. 0	8. 8	·1002					
16. 50	12. 0	9. 43	·1000					
17. 7	10. 30	15. 15	·1014					
17. 52	16. 0	15. 25	·1010					
18. 13	15. 20	15. 35	·1015					
18. 28	10. 5	15. 45	·1006					
	***	16. 15	·1001					
19. 46	6. 30	16. 45	·1010					
	***	17. 5	·1008					
20. 8	2. 30		***					
	***	18. 15	·1017					
20. 52	9. 5		***					
	***	18. 23	·1008					
21. 13	6. 10		***					
	***	21. 5	·1000					
21. 38	7. 30		***					
	***	22. 40	·0972					
22. 13	11. 30	23. 10	·0988					
	***	23. 18	·0978					
22. 32	9. 20	23. 30	·0995					
	***	23. 33	·0989					
23. 8	14. 15	23. 42	·0996					
23. 24	13. 10	23. 49	·0988					
23. 44	15. 30							
23. 58	15. 30							
May 6		May 6		May 6		May 6		
0. 38	22. 16. 0	1. 4	·1002	0. 30	·02010	1. 40	55 ·7	56 ·3
0. 58	14. 30	3. 20	·1006	4. 10:	·01840	3. 40	58 ·0	58 ·5
1. 9	15. 45	4. 35	·1017	6. 28	·01662	9. 40	57 ·5	58 ·0
2. 20	15. 45	4. 50	·1012	7. 0	·01660	21 ·40	51 ·0	53 ·0
3. 20	13. 0		***	10. 5:	·01515			
6. 3	9. 0	5. 50	·1024	14. 43:	·01754			
6. 31	7. 10		***	17. 38	·01980			
6. 53	1. 20	6. 32	·1013		·01855			
7. 10	4. 40	6. 47	·1015	18. 44	·01918			
8. 42	9. 0	7. 2	·1040	22. 8	·01900			
9. 14	8. 20	8. 0	·1022	23. 59	·01862			
9. 22	9. 30	8. 5	·1026					
9. 39	8. 40	8. 30	·1017					

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 6		May 6						
h m	° ′ ″	h m		h m		h m	°	°
9. 47	22. 5. 25	8. 53	·1024					
10. 43	7. 35	9. 10	·1018					
10. 56	12. 30	10. 15	·1036					
11. 12	10. 0	10. 45	·1022					
	***	10. 50	·1032					
11. 23	11. 0	23. 30	·1020					
11. 26	9. 30	23. 49	·1029					
12. 9	7. 50	23. 59	·1023					
	***							
12. 58	8. 20							
	***							
13. 56	14. 35							
14. 22	11. 50							
15. 21	14. 5							
16. 44	8. 20							
18. 18	7. 25							
	***							
19. 3	5. 20							
	***							
20. 0	9. 0							
	***							
20. 52	6. 45							
	***							
22. 55	8. 55							
23. 55	12. 30							
May 7		May 7		May 7		May 7		
0. 8	22. 13. 15	1. 15	·1010	0. 20	·01863	1. 40	54 ·2	55 ·5
2. 15	12. 50	2. 0	·1021	3. 59	·01768	3. 40	55 ·5	56 ·5
2. 30	17. 0	2. 19	·1010	4. 55	·01712	10. 8	50 ·0	53 ·5
2. 38	17. 40	3. 4	·1028	8. 28	·01808			
2. 58	13. 10	4. 30	·1022	8. 44	·01760			
3. 16	12. 15		***	11. 13	·01942			
3. 31	10. 45	5. 29	·1026	13. 34	·01818			
	***	5. 40	·1020	16. 5	·01905			
4. 0	14. 0		***	20. 5	·01913			
4. 18	13. 0	6. 53	·1030	23. 59	·01830			
4. 57	14. 0	7. 30	·1026					
5. 27	4. 10	7. 50	·1044					
6. 30	11. 35	8. 20	·1035					
7. 20	8. 0	8. 30	·1066					
7. 37	2. 15	8. 50	·1030					
8. 17	9. 0		***					
8. 22	8. 5	9. 9	·1030					
8. 34	12. 40	9. 19	·1023					
8. 55	5. 30	9. 38	·1028					
	**	10. 40	·1020					
9. 8	10. 0	11. 15	·1050					
	***	11. 50	·1026					
9. 50	3. 0	12. 14	·1034					
10. 5	3. 20	12. 25	·1026					
10. 47	11. 10	13. 0	·1065					
11. 6	9. 0	13. 49	·1000					
11. 23	12. 45	14. 0	·0997					
11. 53	9. 0	14. 45	·1022					
12. 7	9. 10	14. 53	·1018					
12. 22	16. 55	16. 4	·1033					
12. 32	22. 17. 0	16. 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.	Of V. F. Magnet.
May 7		May 7						
h m	° ′ ″	h m		h m		h m	°	°
13. 20	21. 56. 20	17. 11	·1022					
14. 22:	22. 15. 35	17. 40	·1049					
	***		***					
14. 54	10. 45	18. 30	·1043					
	***	18. 44	·1034					
15. 56	6. 30	18. 55	·1041					
16. 4	8. 30	19. 34	·1026					
16. 45	11. 0		***					
17. 17	9. 25	20. 55	·1016					
	***	21. 0	·1009					
18. 17	7. 30	21. 9	·1013					
	***		***					
18. 42	7. 40	21. 41	·1001					
20. 0	4. 0		***					
	***	22. 57	·0996					
21. 27	6. 50	23. 59	·1004					
22. 32	12. 30							
23. 59	16. 30							
May 8		May 8		May 8		May 8		
0. 34	22. 16. 35	0. 15	·1006	0. 30	·01809	0. 5	48 ·0	50 ·0
	***	1. 0	·1007	4. 6	·01840	8. 5	52 ·0	54 ·0
1. 37	18. 0	1. 16	·1001	7. 26	·01473	21. 40	47 ·0	49 ·8
3. 0	16. 50	2. 32	·1025	10. 14	·01175			
3. 33	14. 30	3. 20	·1017	11. 36	·01175			
4. 0	10. 50	3. 45	·1044	13. 32	·01252			
5. 1	12. 0	4. 15	·1031	18. 32:	·01838			
6. 23	8. 10	5. 0	·1042	20. 28	{·01936			
7. 3	8. 0	5. 15	·1034		{·01843			
7. 20	0. 0	5. 55	·1040	23. 59	·01640			
7. 43:	3. 20		***					
7. 53	2. 0	6. 30	·1031					
8. 44	8. 20	6. 58	·1042					
9. 0	7. 35	7. 16	·1030					
	***	7. 30	·1050					
9. 55	8. 20	7. 45	·1034					
10. 16	4. 20	9. 45	·1028					
10. 40	8. 0	10. 0	·1042					
11. 5	9. 30	10. 11	·1034					
11. 34	7. 20	10. 46	·1028					
12. 13	8. 40	12. 0	·1032					
12. 48	8. 0	12. 53	·1022					
13. 19	16. 0	14. 38	·1035					
14. 0	11. 45	15. 30	·1029					
14. 44	11. 40		***					
15. 35	8. 45	19. 0	·1026					
	***	23. 59	·1010					
17. 56	10. 0							
19. 34	5. 35							
20. 22	5. 0							
23. 8	7. 30							
23. 58	10. 30							
May 9		May 9		May 9		May 9		
0. 10	22. 11. 30	1. 20	·1014	0. 30	·01610	1. 48	50 ·5	52 ·0
1. 30	14. 30	3. 30	·1024	2. 20:	·01532	3. 40	54 ·0	53 ·0
1. 51	13. 30	12. 30	·1027	5. 32:	·01242	9. 40	54 ·0	54 ·0
2. 56	14. 10	12. 56	·1024	10. 55:	·01170	21. 40	48 ·0	50 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 9		May 9		May 9				
h m	° ′ ″	h m		h m		h m	°	°
6. 53	22. 9. 30	13. 17	·1031	15. 41:	·01335			
7. 53	9. 25	18. 0	·1026	23. 6:	·01757			
8. 15	8. 5	19. 38	·1034	23. 59	·01750			
9. 18	8. 30	23. 0	·1009					
9. 54	10. 0	23. 59	·1009					
11. 0	8. 0							
12. 43	10. 20							
13. 0:	12. 35							
13. 13	11. 50							
13. 31	18. 15							
14. 2	11. 0							
15. 30	9. 30							
16. 50	11. 20							
17. 27	10. 30							
18. 4	12. 45							
19. 36	7. 30							
21. 0	6. 30							
22. 28	8. 15							
23. 59	12. 25							
May 10		May 10		May 10		May 10		
0. 17	22. 13. 0	0. 15	·1012	0. 30	·01730	1. 40	51 ·0	53 ·0
2. 24	15. 50		***	2. 3:	·01610	3. 40	55 ·0	56 ·0
4. 0	14. 25	2. 23	·1019	3. 53	·01315	9. 40	57 ·0	57 ·7
6. 30	10. 25	3. 0	·1015	10. 47	·01438	21. 40	49 ·0	51 ·5
8. 23	8. 30	5. 4	·1024	14. 52:	·01718			
12. 35	9. 10	13. 0	·1030	18. 18	{·02110			
13. 25:	13. 5	13. 34	·1040		{·02064			
13. 52:	9. 55	14. 15	·1032	23. 0	·02028			
	***	14. 45	·1039	23. 59	·01932			
18. 40	9. 30	15. 40	·1030					
20. 14	4. 25	19. 1	·1034					
20. 57	6. 0	20. 53	·1016					
21. 4	7. 15	23. 59	·1007					
22. 23	7. 0							
23. 59	11. 0							
May 11		May 11		May 11		May 11		
0. 10	22. 12. 10	0. 45	·1010	0. 20	·01910	1. 40	54 ·0	56 ·0
0. 48	13. 45	1. 0	·1003	1. 53:	·01700	3. 40	58 ·7	59 ·5
3. 23	12. 20	4. 23	·1006	3. 17	·01410	9. 40	60 ·8	63 ·0
3. 33	11. 35	5. 50	·1016	4. 53	·01468	21. 40	50 ·0	52 ·0
5. 36	9. 20	5. 58	·1032	6. 32	·01480			
7. 55	9. 0	6. 4	·1026	6. 35	·01580			
8. 21	7. 30		***	7. 53	·01566			
9. 23	9. 25	7. 10	·1024	8. 53	·01631			
10. 12	8. 50		***	12. 15:	·01762			
10. 45	10. 45	8. 0	·1033	15. 48	{·02195			
13. 44	10. 35	8. 4	·1028		{·02164			
14. 8	11. 30	8. 14	·1036	22. 32	·02066			
14. 34	10. 45	9. 15	·1020	23. 59	·01947			
18. 47	9. 20		***					
	***	12. 45	·1026					
19. 22	7. 15	19. 55	·1033					
	***	22. 45	·1014					
19. 51	8. 35	23. 0	·1006					
	***	23. 8	·1010					
20. 8	7. 15	23. 58	·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.
May 11								
h m	° ′ ″	h m		h m		h m	°	°
20. 17	22. 8. 0							
21. 40	6. 50							
22. 18	6. 50							
	***							
23. 59	12. 50							
May 12		May 12		May 12		May 12		
0. 20	22. 14. 0	0. 0	·1004	0. 15	·01920	1. 40	55 ·8	57 ·4
1. 33	13. 50		***	1. 38:	·01762	3. 40	58 ·0	60 ·0
4. 23	10. 0	0. 45	·1010	3. 7	·01392	9. 40	58 ·5	60 ·7
5. 43	8. 40		***	4. 28	·01450	21. 40	53 ·5	55 ·5
7. 3	8. 55	1. 7	·1004	5. 16	·01630			
8. 13	8. 0	1. 15	·1012	8. 33	·01852			
10. 15	9. 30		***	11. 45	·01947			
10. 48	8. 30	3. 15	·1013	14. 12	·02158			
11. 17	9. 30	5. 53	·1026	14. 15	·02140			
13. 42	8. 10	6. 2	·1018	19. 21	·02163			
16. 1	9. 25	6. 10	·1028	21. 42	·02140			
18. 5	8. 35	6. 39	·1025	23. 59	·02155			
	***	11. 0	·1039					
20. 45	6. 10	11. 20	·1044					
	***	12. 10	·1041					
22. 2	7. 50	16. 53	·1056					
23. 59	13. 50	19. 30	·1051					
		23. 59	·1022					
May 13		May 13		May 13		May 13		
0. 31	22. 14. 20	0. 30	·1020	0. 15	·02050	1. 40	56 ·0	57 ·4
1. 57	14. 10	1. 50	·1027	3. 43:	·01996	3. 40	58 ·0	58 ·5
2. 8	15. 15	2. 8	·1037	7. 8:	·01730	9. 40	60 ·0	62 ·8
5. 13	8. 55	2. 41	·1028	9. 50	·01418	21. 40	55 ·5	56 ·0
6. 46	8. 0	4. 35	·1038	10. 52:	·01367			
8. 13	9. 0		***	14. 30	·01632			
8. 32	7. 40	6. 33	·1040	19. 7	·02155			
10. 23	9. 20	6. 52	·1033	19. 9	·02128			
	***	7. 18	·1038	19. 33	{·02125			
11. 31	7. 0	8. 0	·1033		{·01993			
12. 22	9. 25	8. 14	·1018	22. 47:	·01852			
13. 32	10. 45	8. 45	·1030	23. 59	·01745			
20. 57	6. 25	9. 40	·1026					
22. 20	7. 25	10. 20	·1032					
22. 52	6. 30	11. 15	·1026					
23. 59	9. 10	19. 33	·1046					
		23. 59	·1006					
May 14		May 14		May 14		May 14		
0. 33	22. 11. 0	1. 45	·1008	0. 32	·01690	1. 40	60 ·0	61 ·0
3. 5	9. 50	3. 30	·1020	2. 0	·01423	3. 40	62 ·0	64 ·0
5. 8	6. 0	5. 25	·1022	3. 43	·01490	9. 40	62 ·5	65 ·0
6. 57	5. 30	5. 45	·1018	6. 44:	·01823	23. 7	54 ·0	57 ·5
7. 38	6. 20	9. 45	·1024	11. 8	·01980			
10. 23	9. 15	18. 30	·1045	14. 2	·02260			
11. 17	8. 20	21. 0	·1028	14. 4	·02240			
15. 12	9. 50	23. 15	·1016	22. 15	·02126			
19. 30	5. 15	23. 50	·1029	23. 20	·02013			
21. 5	4. 30	23. 59	·1016					
22. 30	8. 0							
23. 3	11. 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.
May 14	° ′ ″	h m		h m		h m	°	°
h m 23. 59	22. 12. 30							
May 15		May 15		May 15		May 15		
0. 6	22. 13. 0	0. 50	·1030	0. 30	·02025	9. 2	63 ·0	64 ·5
1. 0	15. 25	1. 14	·1014	3. 38:	·01878	21. 40	58 ·0	60 ·0
1. 11	14. 30	1. 40	·1028	7. 13	·01450			
1. 37	15. 35	2. 0	·1020	11. 0	·01422			
2. 9	14. 15	3. 50	·1043	14. 47:	·01640			
3. 27	13. 10		***	18. 52:	·02000			
4. 13	14. 10	4. 23	·1022	21. 15	{·02105			
4. 46	10. 50		***		{·01986			
7. 33	6. 50	4. 45	·1022	23. 59:	·01595			
10. 25	9. 0	4. 57	·1027					
16. 47	8. 40	5. 20	·1019					
17. 14	8. 0	6. 15	·1028					
17. 45	7. 20	6. 35	·1038					
18. 45	6. 10	6. 45	·1035					
19. 9	7. 10	21. 23	·1036					
20. 34	6. 0	23. 37	·1021					
22. 43	10. 25	23. 59	·1022					
23. 58	11. 30							
May 16		May 16		May 16		May 16		
1. 40	22. 14. 10*	0. 45	·1020	1. 0	·01450	1. 40	63 ·0	65 ·5
3. 40	10. 28*	1. 0	·1018	2. 58:	·01553	3. 40	66 ·5	69 ·0
9. 40	6. 43*	4. 15	·1019	4. 57	·01545	9. 40	69 ·0	72 ·0
21. 40	5. 14*	6. 0	·1036		***	21. 40	63 ·0	63 ·3
		6. 30	·1027	7. 21	·01661			
		7. 25	·1031	8. 32	·01773			
		10. 8	·1022	9. 18:	·01773			
		16. 45	·1030	11. 25:	·01918			
		17. 18	·1024	13. 52	{·02210			
		17. 34	·1030		{·02175			
		18. 53	·1028	22. 35	·02083			
		19. 30	·1020	23. 59	·02016			
			***					
		22. 11	·1010					
		22. 24	·1018					
		22. 30	·1014					
		22. 33	·1016					
		22. 40	·1007					
		22. 45	·1013					
		23. 25	·1011					
		23. 30	·1016					
		23. 40	·1012					
May 17		May 17		May 17		May 17		
1. 37	22. 16. 10	0. 15	·1002	0. 15	·01995	1. 40	65 ·0	67 ·4
2. 4	15. 0		***	2. 50	·01610	3. 40	67 ·5	69 ·5
3. 0	15. 30	0. 46	·1010		(†)	9. 40	67 ·8	70 ·3
5. 13	11. 0	1. 0	·1005	9. 22	·01740	21. 40	59 ·0	61 ·5
6. 47	9. 20	1. 18	·1008	11. 25:	·01875			
9. 35	11. 0	3. 34	·1008	13. 44	{·02190			
10. 55	5. 20	4. 53	·1026		{·02160			
12. 14	11. 0	5. 45	·1021	15. 40	·02136			
13. 38	11. 30	6. 45	·1022	17. 2	·02051			
14. 35	9. 20	7. 1	·1035	20. 14	·02060			
	***	7. 30	·1022	21. 46	{·02010			
					{·01785			

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 17	° ′ ″	May 17		May 17				
h m 15. 28	22. 10. 30	h m 8. 46	·1022	h m 22. 55	·01648	h m	°	°
15. 46	14. 20	10. 8	·1030	23. 59	·01548			
16. 15	15. 45	11. 0	·1016					
16. 51	7. 30	15. 10	·1026					
17. 31	6. 0	15. 25	·1022					
	***	16. 30	·1040					
18. 25	8. 30	17. 15	·1030					
18. 48	6. 20	19. 0	·1036					
20. 0	6. 0	19. 9	·1044					
	***	19. 17	·1035					
20. 54	8. 45	23. 59	·1022					
21. 43	9. 10							
23. 0	16. 0							
23. 59	17. 55							
May 18		May 18		May 18		May 18		
0. 5	22. 18. 0	0. 15	·1024	0. 15	·01510	1. 40	64 ·5	66 ·0
0. 48	19. 0	1. 13	·1012	2. 1:	·01212	3. 40	67 ·0	68 ·5
1. 2	19. 20		(†)	4. 17	·01330	9. 40	66 ·5	68 ·0
	***	5. 15	·1022	5. 36	·01466	21. 40	57 ·0	58 ·5
3. 32	15. 45	5. 20	·1016	10. 26	·01580			
	***	5. 45	·1031	13. 0	·02065			
4. 17	11. 0	6. 15	·1025	15. 0	·01980			
	***	6. 30	·1036	18. 50	·01962			
4. 36	13. 0		***		(†)			
	***	7. 46	·1026					
5. 12	9. 30	7. 58	·1032					
	***	8. 34	·1025					
7. 7	10. 10	9. 30	·1031					
9. 17	9. 0	9. 58	·1050					
9. 58	18. 50	10. 17	·1030					
10. 36	2. 10	10. 50	·1046					
11. 15	11. 10	11. 25	·1030					
	***	12. 30	·1042					
14. 7	4. 45	13. 30	·1048					
14. 41	11. 0	13. 50	·1041					
15. 14	7. 40		(†)					
	***	17. 0	·1047					
16. 28	9. 30	20. 34	·1052					
17. 41	9. 0		***					
18. 32	7. 5	21. 30	·1060					
19. 34	7. 10	21. 43	·1056					
21. 40	14. 40	21. 50	·1060					
22. 47	16. 50	22. 23	·1063					
23. 14	19. 40	22. 28	·1054					
23. 25	18. 40	22. 31	·1064					
	***	22. 40	·1052					
23. 59	19. 10	22. 45	·1062					
	***		***					
		23. 59	·1061					
May 19		May 19		May 19		May 19		
0. 9	22. 19. 15	0. 15	·1064	1. 15	·01050	1. 40	64 ·0	64 ·8
0. 29	20. 30	0. 23	·1058	2. 52	·01195	3. 40	66 ·0	68 ·0
0. 34	19. 30	0. 28	·1062		***	9. 40	68 ·0	69 ·5
0. 49	21. 10	2. 2	·1035	2. 57	·01170	21. 40	58 ·0	59 ·5
1. 47	20. 0	2. 15	·1026		***			
2. 0	21. 0	2. 44	·1047	5. 23	·01340			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 16. The Photographic Traces of the Declination and Horizontal Force Magnets were too faint for use.

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		May 19				
h m	° ′ ″	h m		h m		h m	°	°
2. 24	22. 19. 0	3. 0	·1031	8. 43	·01473			
	***	3. 15	·1032	11. 15	·01498			
2. 51	22. 0	3. 24	·1023	14. 13:	·01635			
3. 0	18. 20	4. 4	·1065	16. 32	·01992			
3. 12	19. 40	4. 24	·1062	19. 17	·01910			
3. 18	18. 0	4. 40	·1074	23. 59	·01840			
3. 42	19. 0	5. 0	·1063					
4. 10	12. 0	5. 13	·1066					
4. 45	21. 0	5. 35	·1047					
4. 55	18. 30	5. 48	·1054					
	***		***					
5. 21	21. 30	6. 50	·1023					
5. 31	19. 0	6. 55	·1031					
6. 13	12. 0	7. 3	·1020					
6. 49	11. 0	7. 12	·1032					
	***	7. 16	·1027					
7. 34	13. 20	7. 43	·1040					
7. 52	10. 30	7. 50	·1030					
8. 24	10. 35	8. 9	·1030					
9. 22	14. 30	8. 15	·1035					
9. 55	11. 20	8. 25	·1031					
10. 26	13. 0	8. 45	·1039					
10. 44	9. 0	9. 13	·1037					
11. 44	13. 30	9. 17	·1048					
	***	9. 50	·1037					
15. 59	14. 0		***					
17. 29	12. 25	11. 15	·1052					
18. 20	15. 30	11. 30	·1040					
19. 2	16. 0	13. 52	·1036					
20. 0	11. 0	14. 24	·1042					
	***	15. 0	·1038					
20. 49	11. 0		***					
22. 32	16. 40	17. 20	·1043					
23. 59	18. 0	18. 35	·1032					
		19. 0	·1042					
		19. 30	·1040					
		19. 32	·1052					
			***					
		20. 55	·1060					
		22. 45	·1053					
		23. 19	·1036					
		23. 59	·1036					
May 20		May 20		May 20		May 20		
0. 6	22. 18. 0	0. 15	·1038	0. 30	·01847	1. 40	62 ·0	64 ·0
1. 1	17. 55	3. 8	·1048	3. 25:	·01633	3. 40	64 ·0	66 ·0
1. 28	18. 30	3. 47	·1043	6. 6	·01225	9. 40	67 ·0	67 ·8
3. 53	12. 25		***	10. 26:	·01420	21. 40	54 ·0	56 ·8
5. 16	11. 30	5. 34	·1036	14. 2	·01952			
5. 36	9. 50	7. 10	·1045	21. 2	·01800			
7. 51	8. 30	7. 23	·1040	23. 47:	·01612			
8. 53	11. 30	8. 8	·1043					
10. 44	11. 30	9. 25	·1036					
14. 0	12. 35	21. 34	·1048					
14. 32	11. 40	22. 15	·1036					
16. 4	12. 0	22. 45	·1042					
19. 43	9. 10	23. 30	·1037					
21. 22	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.	Of V. F. Magnet.
May 20								
h m	° ′ ″	h m		h m		h m	°	°
22. 39	22. 16. 5							
23. 16	18. 0							
23. 48	18. 0							
May 21		May 21		May 21		May 21		
0. 4	22. 18. 5	0. 15	·1046	0. 0	·01595	1. 40	58 ·7	58 ·0
0. 53	20. 5	0. 45	·1054	2. 0	·01450	3. 43	61 ·0	62 ·5
4. 56	8. 50	1. 15	·1047	3. 36	·01210	9. 40	64 ·8	65 ·8
5. 56	7. 30	2. 15	·1054		***	22. 50	58 ·0	61 ·0
7. 52	9. 0	3. 0	·1046	10. 2	·01328			
9. 38	11. 50		***	13. 17:	·01460			
12. 52	12. 0	4. 35	·1048	16. 16	{·01918			
15. 4	12. 50	5. 5	·1028		{·01896			
20. 21	8. 25	5. 40	·1049	22. 45	·01818			
21. 45	11. 15	5. 58	·1039	23. 0	·01801			
23. 59	11. 20	6. 23	·1036					
		7. 20	·1050					
		9. 15	·1047					
		11. 30	·1052					
		12. 15	·1054					
		12. 55	·1048					
		18. 15	·1062					
		23. 0	·1030					
		23. 59	·1030					
May 22		May 22		May 22		May 22		
0. 17	22. 18. 0	0. 15	·1031	0. 0	·01710	9. 58	66 ·0	68 ·0
0. 47:	20. 20	7. 30	·1038	1. 47:	·01470	21. 40	59 ·0	59 ·0
6. 25	7. 10	7. 35	·1044	2. 43	·01268			
12. 34	11. 35	16. 5	·1068	3. 58	·01238			
14. 2	10. 20	18. 15	·1060	6. 13	·01495			
14. 17	11. 25	18. 40	·1068	10. 20	·01658			
14. 30	10. 20	18. 46	·1064	12. 15:	·01770			
16. 15	10. 0	18. 50	·1070	13. 53	{·01980			
16. 38	10. 40		***		{·01952			
17. 44	8. 55	19. 30	·1059	21. 30	·01785			
18. 49	12. 10	19. 45	·1064	23. 59:	·01570			
19. 16:	9. 20	20. 45	·1051					
19. 37:	12. 0	23. 9	·1048					
20. 0	10. 0	23. 30	·1052					
20. 33	9. 35	23. 53	·1044					
22. 6	15. 35							
23. 30	17. 25							
23. 59	20. 30							
May 23		May 23		May 23		May 23		
0. 16	22. 22. 0	0. 30	·1050	0. 30	·01490	1. 40	64 ·0	65 ·5
0. 30	21. 30	1. 55	·1056	2. 7	·01240	3. 40	67 ·0	68 ·0
1. 15	23. 40	2. 15	·1054		***	9. 40	69 ·0	71 ·5
2. 10	22. 40	2. 40	·1068	6. 0	·01490	21. 40	63 ·5	63 ·0
	***	2. 53	·1054		***			
2. 51	19. 0	3. 26	·1066	11. 13	·01496			
3. 58	20. 0	3. 43	·1040	13. 23	·01720			
4. 31	16. 30	3. 52	·1050	15. 43	·01980			
4. 45	16. 40	4. 8	·1041	20. 32	·01875			
5. 2	14. 50	4. 22	·1051	23. 59	·01580			
5. 17	14. 55	4. 30	·1044					
5. 28	12. 30	4. 45	·1070					

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 23		May 23						
h m	° ′ ″	h m		h m		h m	°	°
5.33	22. 13. 30	5. 2	·1060					
6. 3	7. 0	5. 14	·1064					
6.30	9. 25	5. 26	·1032					
7.43	8. 0	5. 33	·1040					
9. 20	7. 40	5. 45	·1037					
10. 1	22. 4. 30	6. 25	·1071					
10. 28	21. 57. 45	6. 40	·1053					
11. 6	22. 9. 30	6. 50	·1060					
11. 26	5. 45	7. 3	·1050					
11. 47	9. 10	7. 20	·1062					
12. 23	7. 15	7. 26	·1056					
13. 35	8. 30	7. 34	·1060					
14. 47	11. 30	7. 40	·1056					
15. 38	9. 10		***					
	***	7. 57	·1068					
16. 15	9. 30	8. 21	·1054					
	***	8. 30	·1064					
16. 38	12. 10	9. 0	·1057					
17. 5	10. 30	9. 25	·1064					
17. 13	11. 0	9. 46	·1057					
17. 38	7. 50	10. 0	·1066					
	***	10. 15	·1060					
19. 20	8. 30	10. 57	·1082					
19. 28	9. 0	11. 20	·1058					
19. 33	6. 55	11. 45	·1062					
19. 47	9. 0	12. 8	·1054					
19. 53	6. 30		***					
20. 2	8. 30	13. 0	·1058					
21. 1	8. 10	17. 45	·1070					
21. 26	10. 45	19. 45	·1054					
22. 5	11. 0		***					
	***	23. 59	·1043					
23. 5	14. 10							
23. 55	15. 0							
May 24		May 24		May 24		May 24		
0. 13	22. 19 0	0. 8	·1034	0. 15	·01557	1. 40	65 ·0	68 ·0
0. 19	17. 0	0. 14	·1040	2. 2	·01283	3. 40	69 ·0	71 ·5
0. 29	18. 0	0. 18	·1036		***	9. 40	70 ·5	72 ·5
1. 15	16. 50	0. 30	·1045	4. 27	·01265	21. 40	62 ·0	63 ·0
3. 28	18. 0		***		***			
4. 8	20. 5	2. 23	·1052	6. 36	·01482			
	***	2. 55	·1068	7. 0	·01420			
4. 47	16. 30	3. 0	·1060	7. 36	·01430			
4. 52	14. 10	3. 8	·1068		***			
5. 36	14. 30		***	7. 45	·01382			
	***	3. 58	·1076		***			
6. 2	17. 35	4. 7	·1088	8. 49	·01450			
6. 15	13. 5	4. 28	·1063		***			
6. 28	17. 45	4. 33	·1068	10. 10	·01442			
6. 45	11. 20	4. 35	·1063		***			
6. 54	14. 30	4. 55	·1090	12. 23	·01625			
7. 13	7. 10	5. 0	·1070	13. 11	·01582			
7. 17	22. 8. 20	5. 30	·1110	13. 28	·01510			
7. 45	21. 58. 30	5. 45	·1082	13. 33	·01580			
7. 51	22. 0. 50	6. 4	·1105	13. 55	·01290			
7. 55	21. 57. 30	6. 17	·1084	14. 7	·01315			
8. 13	21. 59. 0	6. 23	·1104	14. 16	·01292			

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	°	°
8. 31	22. 3. 30	6. 32	·1060	14. 22	·01340			
8. 43	2. 20		***	14. 31	·01280			
8. 58	4. 0	6. 59	·1098	14. 45	·01510			
9. 10	2. 30	7. 10	·1072	14. 59	·01371			
9. 34	6. 30	7. 20	·1086	15. 7	·01400			
10. 11	9. 15	7. 36	·1064	15. 16	·01322			
10. 23	6. 35		***	15. 23	·01457			
10. 43	11. 45	7. 50	·1102	15. 45	·01222			
11. 14	12. 0		***	15. 49	·01370			
11. 23	10. 15	8. 8	·1063	16. 0	·00987			
11. 47	14. 30	8. 16	·1083	16. 21	·00995			
12. 2:	10. 35	8. 25	·1054	16. 43	·01322			
12. 15	13. 0	8. 27	·1066	16. 57	·01285			
12. 38:	9. 0		***	17. 7	·01350			
13. 2	15. 0	8. 45	·1048	17. 18	·01260			
13. 30	7. 30	9. 0	·1064	17. 30	·01355			
13. 40	22. 30. 0	9. 8	·1054		***			
14. 35	21. 52. 25		***	18. 7	·01227			
14. 52	57. 0	9. 15	·1064	18. 17	·01308			
15. 5	21. 52. 30	9. 26	·1051	18. 30	·01240			
15. 23	22. 22. 30	9. 30	·1062	19. 10	·01491			
15. 34	13. 30	9. 45	·1056	19. 18	·01480			
15. 54	27. 0	10. 3	·1078	19. 46	·01660			
16. 32	0. 40	10. 10	·1067	19. 56	·01645			
16. 57	9. 0	10. 15	·1076	21. 43:	·01810			
17. 7	21. 0	10. 30	·1062	23. 59	·01705			
17. 22	23. 0	10. 40	·1068					
17. 32	33. 40	10. 46	·1048					
17. 43	26. 0	10. 53	·1066					
17. 49	31. 0	10. 59	·1060					
18. 11	5. 5	11. 10	·1082					
18. 21	16. 40	11. 17	·1035					
18. 25	11. 0	11. 23	·1080					
18. 42	10. 0	11. 30	·1063					
18. 50	6. 30		***					
18. 58	12. 50	11. 42	·1087					
19. 21	4. 0	11. 53	·1067					
19. 31	6. 0		***					
19. 32	4. 0	12. 5	·1080					
19. 50	12. 15	12. 15	·1064					
19. 58	8. 40	12. 19	·1070					
20. 8	11. 0		***					
20. 13	9. 50	13. 38	·1006					
20. 28	14. 0	13. 53	·1086					
20. 38	10. 25	13. 58	·1068					
20. 53	12. 45	14. 0	·1087					
20. 58	11. 30	14. 30	·1002					
21. 2	14. 0	14. 40	·1015					
21. 17	9. 0	14. 50	·1006					
21. 28	14. 45	15. 8	·1097					
21. 38	11. 20		***					
21. 46	12. 10	15. 30	·1032					
21. 48	9. 15	15. 35	·1078					
22. 4	13. 15	15. 57	·0957					
22. 14	8. 30	16. 3	·0998					
22. 23	16. 30	16. 11	·0960					
22. 28	14. 20	16. 30	·1002					
22. 57	14. 30	16. 35	·0992					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 24		May 24						
h m	° ′ ″	h m		h m		h m	°	°
23. 4	22. 16. 30	16. 55	·1042					
23. 6	12. 50	17. 12	·1018					
23. 33	16. 40	17. 15	·1034					
		17. 36	·0950					
		17. 42	·0978					
		17. 45	·0970					
		17. 50	·0975					
		18. 0	·0969					
		18. 4	·0978					
		18. 15	·0942					
			***					
		18. 28	·0984					
		18. 49	·0936					
		19. 9	·0996					
		19. 15	·0986					
		19. 20	·0991					
		19. 30	·0958					
		19. 40	·0983					
		19. 50	·0963					
		19. 56	·0982					
		20. 8	·0966					
			***					
		21. 3	·1023					
		21. 15	·1012					
		21. 30	·1022					
			***					
		21. 47	·1014					
		22. 17	·1030					
		22. 30	·1019					
			***					
		23. 11	·1027					
		23. 20	·1020					
		23. 25	·1028					
		23. 34	·1016					
		23. 38	·1023					
		23. 45	·1018					
			***					
May 25		May 25		May 25		May 25		
0. 17	22. 17. 30	0. 10	·1018	0. 22	·01685	1. 40	67 ·3	68 ·0
0. 24	12. 30	0. 20	·1013	4. 15	·01390	3. 40	70 ·0	72 ·0
0. 31	19. 50	0. 25	·1044	7. 50	·01325	9. 40	73 ·5	74 ·0
0. 35	18. 0		***	10. 50:	·01310	21. 40	62 ·5	63 ·5
	***	0. 36	·1026	16. 53:	·01925			
2. 13	21. 30	0. 40	·1033	21. 13:	·01798			
2. 33	24. 45	0. 45	·1026	23. 59	·01582			
2. 56	19. 30	1. 34	·1016					
3. 57	18. 30	2. 30	·1012					
4. 15	15. 0	2. 45	·0987					
5. 48	11. 40		***					
6. 14	7. 30	3. 49	·1026					
6. 41	9. 0	4. 8	·1014					
6. 58	6. 20	4. 40	·1040					
7. 32	8. 50	4. 50	·1034					
7. 54	7. 50	5. 10	·1042					
8. 13	9. 40	5. 45	·1036					
10. 1	11. 20	6. 17	·1048					
10. 15	9. 30	7. 10	·1040					

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 25		May 25						
h m	° ′ ″	h m		h m		h m	°	°
11. 43	22. 11. 0	7. 30	·1044					
12. 13	13. 10	8. 0	·1028					
13. 31	11. 5	8. 10	·1032					
13. 58:	12. 30	9. 0	·1032					
14. 53	9. 50	11. 8	·1042					
	***	11. 30	·1036					
18. 30	10. 30	12. 8	·1043					
19. 6	8. 50	13. 27	·1032					
19. 40	10. 0	15. 8	·1036					
20. 1	8. 20	16. 30	·1043					
	***	17. 30	·1040					
21. 28	6. 30	17. 57	·1046					
23. 49	13. 20	22. 15	·1028					
		23. 59	·1030					
May 26		May 26		May 26		May 26		
0. 10	22. 14. 0	0. 15	·1029	0. 30	·01550	1. 40	66 ·2	68 ·0
0. 55	14. 30	1. 25	·1028	3. 28	·01110	3. 40	70 ·0	71 ·5
2. 0	14. 30	5. 8	·1041	5. 47	·01190	9. 40	74 ·5	76 ·0
3. 2	11. 45	5. 20	·1036	7. 5	·01187	21. 40	64 ·0	67 ·0
4. 58	12. 10	5. 34	·1043	10. 55	·01335			
6. 0	10. 0	6. 30	·1038	14. 2	·01770			
7. 24	9. 40	10. 10	·1036	16. 41	·01985			
9. 2	11. 0	19. 5	·1050	16. 45	·01962			
11. 25	10. 35	22. 25	·1034	20. 38	·01920			
12. 35	12. 0	23. 59	·1034	23. 59	·01520			
13. 29	11. 20							
15. 8	12. 25							
19. 0	8. 50							
19. 28	9. 25							
20. 55	8. 30							
23. 4	14. 0							
23. 58	14. 50							
May 27		May 27		May 27		May 27		
0. 7	22. 14. 40	0. 15	·1034	0. 17	·01480	1. 40	70 ·0	73 ·0
1. 1	15. 50	4. 45	·1038	2. 35	·01110	3. 40	74 ·5	77 ·0
	***	6. 27	·1057	3. 30	·01145	9. 40	68 ·0	71 ·0
2. 50	13. 10	7. 30	·1054	4. 56	·01130	21. 40	63 ·0	65 ·0
4. 23	12. 45	14. 27	·1060	7. 5:	·01300			
6. 55	15. 50	14. 42	·1068	9. 35:	·01662			
	***	16. 45	·1065	21. 5	·01817			
7. 57	14. 30	17. 28	·1069	23. 59	·01800			
8. 11	16. 30	18. 25	·1058					
8. 23	15. 0	18. 45	·1060					
	***	19. 15	·1052					
8. 47	16. 15	19. 50	·1052					
9. 5	13. 50	20. 38	·1027					
11. 12	13. 0	21. 20	·1046					
13. 3	14. 0	22. 15	·1040					
14. 25	12. 50		***					
14. 43	14. 20	23. 59	·1043					
15. 20	12. 0							
16. 48	15. 5							
17. 28	12. 0							
	***							
17. 51	13. 35							
19. 43	14. 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	°	°
20. 56	22. 14. 0							
21. 23	17. 10							
22. 7	17. 0							
22. 47	15. 30							
23. 18	16. 50							
23. 37	16. 0							
May 28		May 28		May 28		May 28		
0. 32	22. 15. 5	1. 40	·1039*	0. 30	·01781	1. 40	66 ·0	68 ·0
1. 42	15. 50	3. 40	·1043*	4. 6:	·01680	3. 40	67 ·0	67 ·5
4. 18	13. 15	9. 40	·1061*	10. 40:	·01825	9. 40	65 ·5	67 ·0
5. 17	15. 20	23. 30	·1052*	11. 21	·01681	23. 30	59 ·0	61 ·0
5. 53	14. 20			11. 52	·01728			
6. 26	18. 0			21. 44	·01660			
6. 47	13. 30			22. 34	·01672			
7. 43	13. 30			23. 52	·01600			
8. 8	11. 0							
8. 20	11. 0							
8. 45:	8. 30							
9. 26	12. 20							
10. 13	13. 5							
10. 33	12. 0							
10. 58	12. 45							
11. 13	20. 35							
11. 35	7. 40							
12. 2	14. 15							
12. 47:	8. 15							
13. 8:	10. 0							
13. 46	9. 0							
14. 13	11. 10							
15. 9	10. 25							
22. 33	12. 20							
22. 47	13. 25							
23. 6	10. 30							
23. 30	9. 50							
May 29		May 29		May 29		May 29		
0. 0	22. 15. 0	0. 0	·1060	0. 0	·01578	11. 37	62 ·5	64 ·0
0. 52	15. 0	0. 16	·1056	4. 13	·01470	21. 40	59 ·0	59 ·0
1. 50	17. 30	1. 38	·1073	6. 58:	·01275			
4. 13	17. 5	2. 7	·1066	10. 23:	·01132			
5. 53	13. 30	3. 23	·1077	14. 38	·01385			
7. 7	14. 0	3. 38	·1071	15. 5	·01318			
8. 24	11. 0	4. 17	·1084	17. 14	·01407			
8. 47	12. 15	4. 45	·1070	20. 35	·01395			
9. 22	12. 10	7. 15	·1081	23. 45	·01185			
9. 45	14. 40	7. 55	·1072					
9. 53	13. 30	8. 30	·1076					
10. 30	13. 50	10. 33	·1062					
10. 38	11. 30	10. 45	·1070					
11. 38	10. 5	11. 5	·1066					
12. 2	5. 30		***					
12. 19	7. 30	13. 5	·1066					
12. 45	7. 10	13. 50	·1060					
17. 30	8. 30	14. 38	·1076					
21. 38	8. 20	14. 58	·1064					
	(†)	16. 45	·1074					
		17. 20	·1071					

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						
h m	° ′ ″	h m		h m		h m	°	°
		17. 58	·1048					
			***					
		19. 5	·1062					
			***					
		20. 21	·1046					
		21. 15	·1054					
		22. 50	·1051					
		23. 45	·1056					
		23. 59	·1046					
May 30		May 30		May 30		May 30		
1. 20	22. 16. 10	0. 14	·1047	1. 30	·01030	1. 40	62 ·0	63 ·0
	***	0. 29	·1042	2. 30	·00920	3. 40	64 ·0	65 ·0
3. 35	12. 0	0. 45	·1042	7. 43	·01052	9. 40	66 ·0	67 ·5
3. 46	13. 0	1. 15	·1053	8. 6	·01086	21. 40	61 ·0	62 ·5
	***	3. 20	·1070	10. 30	·01025			
4. 16	8. 40	3. 46	·1066	13. 57:	·01235			
5. 37	11. 0	4. 30	·1079	20. 10	·01768			
7. 31	8. 40	5. 15	·1077	23. 59	·01731			
7. 58:	11. 25	6. 20	·1078					
8. 35	7. 50	6. 40	·1080					
8. 58	10. 15	7. 12	·1074					
9. 42	6. 15	7. 45	·1088					
10. 28	8. 50	8. 30	·1064					
10. 32	7. 0	8. 40	·1068					
10. 38	7. 55	9. 15	·1059					
11. 7	6. 45	9. 48	·1065					
11. 14	4. 35	10. 8	·1056					
11. 21	22. 4. 40		***					
11. 41	21. 59. 35	11. 8	·1050					
11. 57	22. 2. 0	11. 19	·1069					
12. 6	0. 30	11. 32	·1063					
12. 22	2. 30	11. 45	·1066					
13. 3	3. 0	12. 32	·1050					
13. 25	6. 0	12. 47	·1054					
14. 29	7. 50	14. 10	·1054					
14. 51	6. 0	14. 24	·1058					
15. 14	7. 10	14. 50	·1055					
15. 31	6. 0	15. 10	·1062					
16. 14	14. 10	16. 0	·1054					
17. 6	2. 25	16. 40	·1065					
	***	17. 8	·1066					
17. 32	2. 50	18. 0	·1054					
17. 40	1. 25	19. 35	·1056					
	***	20. 5	·1048					
18. 17	3. 0	21. 26	·1054					
18. 32	1. 50	22. 10	·1046					
	***	22. 20	·1048					
19. 36	6. 10	22. 28	·1044					
19. 51	2. 50	23. 5	·1043					
21. 16	9. 50	23. 15	·1048					
21. 38	9. 20	23. 33	·1047					
	***	23. 58	·1040					
23. 50	14. 20							
	***							
May 31		May 31		May 31		May 31		
0. 15	22. 15. 0	0. 8	·1046	0. 30	·01715	1. 40	62 ·0	63 ·5

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 28. The Photographic Register of the Horizontal Force Magnet was too faint for use.

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 31	° ′ ″	May 31		May 31		May 31	°	°
h m		h m		h m		h m		
1. 51	22. 16. 0	1. 40	·1052	6. 38	·01543	3. 40	61 ·8	64 ·7
3. 32	12. 40	2. 0	·1058	10. 34	·01563	9. 40	62 ·2	63 ·0
4. 35	12. 20	2. 23	·1056	12. 21	·01645	21. 40	58 ·0	59 ·5
4. 55	14. 30	3. 20	·1073	12. 56	·01600			
5. 17	12. 25	3. 38	·1068	15. 58	·01568			
	***		***	17. 10	·01594			
6. 33	11. 50	4. 45	·1080	21. 52	·01532			
	***	5. 11	·1096	23. 59	·01396			
6. 51	9. 55	5. 30	·1085					
7. 30	11. 0	6. 27	·1096					
7. 42	9. 15		***					
8. 30	10. 15	6. 50	·1086					
8. 40	8. 25		***					
9. 7	8. 20	7. 24	·1090					
9. 29	3. 50	7. 35	·1082					
9. 52	8. 0	7. 50	·1087					
10. 14	3. 20	8. 15	·1076					
11. 1	9. 30		***					
12. 47	10. 25	9. 0	·1076					
14. 17	8. 20	9. 25	·1062					
14. 35	10. 30	9. 38	·1071					
15. 13	11. 0	10. 14	·1068					
16. 30	5. 0	10. 23	·1078					
17. 2	6. 35	11. 13	·1058					
	***	11. 28	·1066					
18. 34	5. 0	11. 43	·1060					
	***	11. 58	·1067					
23. 59	13. 30	14. 55	·1066					
		15. 12	·1072					
		16. 30	·1062					
		20. 45	·1058					
		23. 58	·1064					
June 1		June 1		June 1		June 1		
0. 50	22. 15. 10	0. 17	·1056	1. 5	·01360	1. 40	57 ·0	60 ·0
1. 3	13. 50	0. 45	·1064		***	3. 40	61 ·7	63 ·0
1. 38	14. 30	2. 10	·1084	7. 55	·00940	9. 40	62 ·0	64 ·5
2. 11	17. 30	2. 28	·1070		***	21. 40	58 ·5	59 ·7
2. 22	16. 30	2. 40	·1072	12. 34	·00910			
2. 39	18. 10	3. 8	·1066	15. 6	·01061			
3. 6	16. 0	3. 30	·1078	15. 26	·01005			
4. 12	15. 0	3. 49	·1066	15. 50	·01070			
4. 30	16. 10	4. 33	·1074		***			
4. 46	14. 10	4. 45	·1070	16. 25	·00928			
5. 8	15. 0	5. 15	·1080	16. 30	·00950			
5. 42	13. 5	5. 28	·1074	16. 42	·00880			
6. 14	14. 0		***	16. 52	·00922			
7. 43	11. 50	7. 22	·1084	17. 10	·00874			
8. 15	9. 30	7. 49	·1092	17. 45	·00950			
8. 57	10. 0	8. 4	·1064	18. 23	·00972			
	***	8. 38	·1072	18. 40	·00927			
9. 18	13. 0	8. 53	·1066	19. 52	·01050			
10. 2	10. 30	9. 24	·1076		***			
10. 15	8. 20	10. 4	·1062	21. 48	·01150			
10. 32	9. 0	10. 24	·1074		***			
	***	10. 34	·1065	23. 13	·01280			
11. 3	4. 23	10. 43	·1068	23. 59	·01256			
	***	11. 15	·1068					

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 1	° ′ ″	June 1		h m		h m	°	°
h m		h m						
11. 35	22. 4. 0	12. 0	·1056					
12. 5	12. 40	12. 16	·1045					
12. 31	6. 5	12. 46	·1065					
	***	12. 58	·1062					
12. 43	7. 30	13. 18	·1072					
13. 2	5. 30		***					
13. 35	6. 30	14. 35	·1074					
13. 43	8. 25		***					
13. 50	7. 30	15. 0	·1084					
14. 13	13. 50	15. 25	·1064					
14. 43	8. 20	15. 40	·1066					
15. 6	11. 20	15. 49	·1073					
15. 41	12. 0	16. 25	·1011					
15. 52	24. 5	16. 50	·1060					
	***	17. 8	·1040					
16. 9	19. 20	17. 40	·1033					
16. 17	19. 0	17. 55	·1041					
16. 28	25. 40	18. 8	·1029					
16. 42	15. 10		***					
16. 51	17. 15	18. 30	·1044					
17. 10	9. 50	18. 45	·1030					
17. 27	12. 0		***					
17. 46	19. 0	19. 5	·1033					
	***	19. 15	·1050					
18. 5	14. 35	19. 26	·1040					
18. 23	23. 5	19. 47	·1046					
18. 53	17. 0	19. 57	·1036					
	***	20. 15	·1038					
19. 5	18. 30	20. 30	·1018					
19. 20	14. 0	20. 45	·1022					
19. 51	20. 25		***					
20. 50	8. 20	21. 15	·0992					
21. 4	13. 30		***					
	***	21. 53	·1020					
21. 20	13. 0	22. 3	·1002					
21. 30	8. 30	22. 17	·1028					
	***	22. 40	·1015					
21. 53	17. 25		***					
22. 4	14. 20	23. 15	·1046					
22. 15	18. 25	23. 26	·1040					
22. 31	17. 30		***					
	***	23. 53	·1046					
22. 54	12. 0							
	***							
23. 59	18. 35							
	***							
June 2		June 2		June 2		June 2		
0. 28	22. 21. 10	0. 2	·1040	1. 30	·01228	1. 40	60 ·0	61 ·5
	***	0. 32	·1050	2. 13	·01233	3. 40	62 ·5	63 ·5
0. 55	20. 0	0. 40	·1044		***	9. 40	63 ·5	64 ·5
	***	0. 46	·1043	4. 23	·00925	21. 40	59 ·0	61 ·0
1. 30	23. 5	1. 0	·1054		***			
1. 36	26. 0	1. 8	·1051	6. 13	·01070			
1. 38	24. 20	1. 16	·1058	6. 34	·01010			
1. 57	27. 5	1. 21	·1055	9. 28	·01015			
2. 28	16. 30		***	9. 43	·00990			
2. 48	20. 30	1. 45	·1068	9. 53	·01030			

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 2		June 2		June 2				
h m	° ′ ″	h m		h m		h m	°	°
3. 13	22. 18. 0	2. 4	·1028	10. 1	·00985			
3. 25	19. 5	2. 32	·1058	10. 10	·01015			
3. 39	18. 0	2. 47	·1054	11. 4	·00880			
3. 56	19. 30	3. 23	·1077	14. 47	·01007			
	***	4. 14	·1082	16. 21:	·01270			
5. 13	21. 10	4. 23	·1077	18. 50	·01520			
5. 42	16. 20	5. 5	·1088	19. 0	·01500			
5. 52	18. 0	5. 13	·1083	21. 35:	·01548			
6. 7	1. 45	5. 20	·1092	23. 59:	·01455			
6. 36	14. 40	5. 30	·1065					
6. 45	12. 40	5. 53	·1126					
	***	6. 20	·1064					
7. 37	10. 0		***					
7. 55	11. 40	7. 20	·1082					
8. 13	9. 0	7. 46	·1068					
8. 45	9. 25	8. 30	·1082					
9. 25	13. 10	8. 53	·1063					
9. 33	22. 12. 0	9. 5	·1072					
9. 46	21. 58. 20	9. 20	·1052					
9. 53	22. 2. 50	9. 28	·1064					
10. 7	21. 53. 55	9. 38	·1050					
10. 36	22. 5. 30	9. 56	·1080					
10. 49	5. 55	10. 28	·1066					
11. 7	1. 15	10. 43	·1044					
11. 28	4. 0	10. 58	·1054					
11. 43	4. 25	11. 15	·1043					
12. 7	11. 0	11. 45	·1038					
12. 28	5. 0	12. 15	·1043					
12. 33	4. 30	12. 55	·1058					
13. 0:	8. 0	13. 22	·1050					
13. 32	2. 45	13. 45	·1034					
13. 46	2. 0	14. 3	·1044					
13. 56	3. 50	14. 24	·1024					
14. 18	4. 15	14. 52	·1044					
14. 43	12. 50		***					
16. 0	8. 50	15. 48	·1054					
16. 47	7. 0	16. 57	·1036					
	***	17. 17	·1035					
17. 13	9. 30		***					
	***	18. 30	·1051					
18. 14	10. 0	18. 55	·1052					
	***	19. 4	·1044					
18. 47	7. 0	20. 0	·1032					
	***	21. 15	·1037					
20. 0	8. 0		***					
20. 8	7. 0	22. 50	·1032					
20. 18	8. 30	23. 0	·1042					
21. 8	5. 30	23. 7	·1034					
22. 28	7. 30	23. 14	·1037					
23. 59	11. 50	23. 29	·1037					
		23. 34	·1033					
June 3		June 3		June 3		June 3		
5. 0	22. 9. 20	0. 0	·1038	0. 30	·01295	1. 40	63 ·0	64 ·0
7. 23	9. 0		(†)	1. 37:	·01240	3. 40	65 ·5	68 ·0
8. 20	7. 35	6. 50	·1028	3. 47	·00970	9. 40	68 ·5	69 ·5
9. 47	8. 0	7. 5	·1032	6. 37	·01180	21. 40	55 ·0	57 ·0
10. 18	6. 20	7. 23	·1026	7. 51	·01175			

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 3		June 3		June 3				
h m	° ′ ″	h m		h m		h m	°	°
10. 58	22. 7. 0	11. 24	·1020	10. 47:	·01333			
11. 8	6. 15	12. 0	·1024	15. 15	.01885			
11. 51	8. 30	13. 35	·1018	15. 16	·01867			
12. 43	7. 30	15. 5	·1026	22. 0	·01790			
14. 13	9. 30	16. 30	·1032		(†)			
14. 50	11. 50	19. 5	·1026					
16. 47	6. 50	21. 10	·1008					
20. 5	6. 10	22. 44	·1002					
20. 50	3. 50	23. 59	·1010					
23. 0	14. 10							
June 4		June 4		June 4		June 4		
6. 0	22. 7. 40	1. 40	·1043*	0. 30	·01060	1. 40	59 ·5	61 ·0
8. 7	9. 20	3. 40	·1041*	5. 35:	·01083	3. 40	62 ·0	64 ·5
8. 17	8. 0	9. 40	·1045*	12. 36	·01830	9. 40	65 ·5	66 ·5
9. 0	9. 30	23. 0	·1026*	14. 38	·01808	23. 0	63 ·5	64 ·5
9. 40	8. 15			15. 53:	·01840			
10. 4	10. 0			17. 17	·01770			
11. 48	9. 30				(†)			
12. 7	11. 0							
12. 50:	8. 0							
14. 42:	11. 0							
15. 38	8. 50							
16. 7	9. 50							
16. 43	7. 0							
17. 53	7. 35							
18. 5	8. 0							
18. 14	6. 40							
	***							
19. 51	5. 0							
21. 30	6. 40							
23. 59	11. 20							
June 5		June 5		June 5		June 5		
0. 7	22. 11. 30	5. 33	·1068	0. 0	·01665	9. 40	69 ·0	68 ·5
1. 47	13. 30	9. 30	·1052	2. 13:	·01415	21. 40	60 ·0	63 ·5
2. 13	13. 15	11. 56	·1062	4. 33	·01013			
2. 32	15. 20	14. 32	·1048	10. 34	·01160			
4. 0	12. 15	15. 0	·1055	13. 57:	·01030			
8. 57	7. 30	19. 5	·1062	17. 35	·01870			
9. 15	9. 0	19. 45	·1059	20. 2	·01805			
9. 32	7. 30		(†)	21. 10	·01812			
10. 51	9. 20			22. 50	·01728			
11. 50	8. 30							
12. 5	9. 0							
13. 18	8. 50							
14. 28	9. 40							
17. 0	7. 0							
	***							
19. 7	5. 30							
20. 9	1. 30							
	***							
20. 51	4. 40							
23. 59	12. 40							
June 6		June 6		June 6		June 6		
0. 23	22. 14. 10	0. 5	·1027	0. 25	·01558	1. 40	64 ·0	66 ·0
1. 32	13. 0	0. 20	·1026	1. 21:	·01410	3. 40	68 ·0	68 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

June 4. The Photographic Register of the Horizontal Force was too faint for use.

June 5. The times for Horizontal Force on this day are somewhat doubtful.

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		June 6	°	°
h m	° ′ ″	h m		h m		h m		
2. 58	22. 14. 45	1. 0	·1034	2. 35	·01150	9. 40	67 ·5	68 ·0
7. 21	8. 30	1. 35	·1028	3. 12	·01065	21. 40	59 ·5	61 ·0
7. 46	8. 20	3. 5	·1042	10. 23	·01123			
9. 28	8. 0	3. 57	·1037	13. 53:	·01447			
9. 44	7. 25	4. 5	·1043	16. 35	·01825			
10. 53	9. 0	4. 40	·1041	19. 6	·01765			
11. 47	4. 0	6. 30	·1056		·01700			
12. 5	5. 0	7. 20	·1053	21. 53	·01718			
12. 17	3. 30	7. 34	·1046	23. 59:	·01415			
12. 50	5. 35	8. 10	·1058					
12. 57	4. 40	8. 30	·1050					
13. 25	8. 25	9. 27	·1043					
13. 43	6. 25	9. 40	·1049					
14. 10	7. 40	10. 15	·1050					
15. 3	3. 0	10. 26	·1048					
15. 21	6. 10	10. 42	·1044					
15. 43	5. 45	11. 20	·1052					
16. 31	8. 0		***					
16. 48	6. 10	12. 55	·1040					
	***	13. 37	·1047					
18. 20	8. 50	14. 15	·1059					
	***	15. 17	·1048					
18. 43	6. 50	16. 30	·1057					
	***		***					
19. 21	8. 25	17. 0	·1052					
19. 51	8. 0	17. 29	·1060					
21. 12	10. 30		***					
21. 23	9. 30	18. 35	·1062					
22. 11	10. 10	20. 45	·1048					
23. 59	17. 0	22. 0	·1046					
		23. 5	·1046					
		23· 59	·1034					
June 7		June 7		June 7		June 7		
0. 7	22. 17. 15	0. 25	·1030	0. 15	·01385	1. 40	63 ·0	66 ·0
2. 8	15. 30	1. 15	·1029	2. 0	·01000	3. 40	67 ·0	70 ·0
3. 36	11. 35	1. 33	·1029	4. 52	·01248	9. 40	70 ·8	72 ·5
6. 53	7. 0	2. 8	·1038	6. 5	·01260	21. 45	67 ·0	66 ·0
7. 25	2. 15	2. 20	·1037	7. 32	·01390			
9. 13	6. 20	3. 15	·1040	9. 28	·01405			
10. 24	4. 0	3. 40	·1033	13. 15	·01581			
11. 27	7. 0	4. 17	·1036	16. 38	·01978			
12. 17	6. 0	5. 2	·1031	21. 33:	·01848			
12. 37	7. 30	5. 34	·1044	23. 52	·01665			
16. 20	7. 40	6. 35	·1042					
19. 8	5. 0	6. 50	·1032					
20. 47	4. 50		***					
21. 50	6. 40	7. 7	·1028					
21. 56	5. 0	7. 30	·1040					
23. 48	11. 40	7. 50	·1040					
		8. 13	·1033					
		8. 35	·1035					
			***					
		10. 30	·1022					
		10. 45	·1026					
		10. 59	·1023					
		11. 30	·1030					
		11. 45	·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.	Of V. F. Magnet.
h m	° ′ ″	June 7 h m		h m		h m	°	°
		12. 20	·1028					
		12. 40	·1035					
		19. 0	·1040					
		19. 23	·1034					
		21. 46	·1020					
		21. 55	·1026					
		22. 0	·1022					
		23. 28	·1022					
		23. 45	·1018					
		23. 58	·1016					
June 8		June 8		June 8		June 8		
0. 0	22. 12. 10	0. 10	·1017	0. 0	·01638	1. 40	72 ·5	75 ·0
1. 5	15. 0	0. 50	·1014	1. 20:	·01458	3. 40	74 ·5	77 ·0
1. 33	17. 20	1. 11	·1008	2. 20	·01200	9. 40	73 ·0	73 ·0
4. 56	8. 50	1. 33	·1020	4. 10	·01348	21. 40	68 ·0	68 ·0
6. 8	5. 0	2. 25	·1010	4. 32	·01326			
7. 28	3. 20	3. 8	·1026		***			
7. 36	6. 45	3. 34	·1024	7. 50	·01698			
11. 30	8. 30		***	10. 2:	·01790			
14. 22	8. 30	5. 17	·1032	12. 2	·02005			
15. 2	10. 0	5. 26	·1028	21. 2	·01925			
16. 48	7. 30		***	23. 55:	·01718			
18. 47	3. 10	5. 46	·1033					
20. 18	3. 10	6. 0	·1028					
20. 35	0. 35		***					
21. 32	3. 10	7. 45	·1028					
23. 53	14. 40	8. 8	·1024					
		8. 19	·1037					
		9. 7	·1042					
		9. 15	·1046					
		11. 15	·1060					
		12. 16	·1055					
		17. 0	·1069					
		20. 30	·1054					
		21. 50	·1042					
		23. 15	·1042					
		23. 57	·1044					
June 9		June 9		June 9		June 9		
0. 0	22. 15. 20	0. 0	·1040	0. 15	·01705	1. 40	69 ·0	71 ·0
1. 1	18. 50	2. 40	·1068	2. 40	·01523	3. 40	72 ·0	74 ·0
2. 26	18. 40	3. 13	·1070		***	9. 40	70 ·0	73 ·0
5. 27	11. 45	4. 0	·1064	5. 41	·01375	21. 46	64 ·0	66 ·0
7. 7	9. 30	4. 30	·1075		***			
9. 23	8. 0	5. 0	·1064	8. 46	·01166			
10. 30	8. 0	5. 23	·1062	15. 2	·01580			
11. 42	7. 15	5. 33	·1068	15. 16	·01570			
12. 26	9. 25	6. 20	·1062	17. 13	·01885			
12. 55	6. 30	6. 50	·1065	17. 31	·01830			
14. 18	6. 30	6. 55	·1060		·01735			
14. 38	9. 15	7. 10	·1066	21. 2	·01847			
14. 47	7. 45	10. 45	·1077	23. 59	·01750			
15. 6	16. 45	10. 53	·1082					
15. 35	1. 30	10. 58	·1076					
16. 26	9. 10	11. 35	·1075					
16. 39	8. 0	11. 45	·1080					
16. 55	10. 10	12. 3	·1081					

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 9		June 9						
h m	° ′ ″	h m		h m		h m	°	°
17. 15	22. 18. 35	13. 43	·1076					
17. 20	17. 15	14. 30	·1076					
17. 26	19. 5	14. 53	·1081					
17. 48	11. 30	15. 45	·1064					
18. 32	5. 30	16. 45	·1060					
18. 45	8. 10	16. 53	·1068					
19. 2	3. 15	17. 10	·1065					
19. 23	4. 30	17. 35	·1074					
19. 32	3. 0	18. 0	·1064					
20. 28	8. 0	18. 10	·1060					
22. 8	6. 30	18. 45	·1068					
23. 45	14. 0	19. 0	·1062					
		19. 45	·1058					
		20. 0	·1052					
		20. 55	·1059					
		23. 8	·1044					
		23. 45	·1044					
		23. 59	·1047					
June 10		June 10		June 10		June 10		
0. 0	22. 15. 15	0. 30	·1045	0. 45	·01704	1. 40	65·5	67·7
0. 47	15. 25	1. 0	·1043	3. 13	·01480	3. 40	71·0	73·0
2. 5	14. 50	2. 5	·1046	5. 14	·01150	9. 40	68·5	72·0
2. 50	15. 40	3. 15	·1058	8. 13	·01208	21. 40	69·5	73·0
5. 41	9. 15	3. 55	·1051	14. 45:	·01512			
8. 5	7. 0		***	20. 48:	·01972			
9. 33	8. 20	6. 45	·1056	23. 59	·01590			
15. 40	8. 0	9. 30	·1051					
18. 33	5. 10	18. 17	·1065					
21. 18	4. 10	23. 59	·1024					
22. 53	6. 40							
23. 59	10. 30							
June 11		June 11		June 11		June 11		
0. 17	22. 12. 15	0. 15	·1022	0. 30	·01490	1. 40	74·5	77·0
2. 31	12. 50	1. 8	·1020	1. 13	·01308	3. 40	78·0	80·8
3. 46	13. 10	1. 40	·1015	2. 5	·01365	9. 40	76·5	78·5
6. 0	9. 10	2. 38	·1020	4. 32	·01240	23. 20	66·8	68·7
7. 0	7. 30	2. 50	·1026	11. 34	·01615			
8. 22	8. 50	4. 8	·1035	13. 52	·01900			
10. 23	8. 10	5. 40	·1034	19. 25	·01735			
11. 27	7. 40	7. 0	·1046	23. 16	·01692			
12. 28	7. 30		***					
15. 27	7. 25	7. 38	·1040					
15. 30	6. 35	9. 9	·1036					
15. 32	6. 30	15. 33	·1046					
15. 38	7. 30		***					
16. 22	4. 0	15. 50	·1059					
	***		***					
16. 51	4. 15	17. 32	·1066					
	***		***					
17. 8	7. 40	18. 38	·1051					
	***		***					
17. 27	5. 25	19. 17	·1070					
	***		***					
17. 47	6. 30	19. 38	·1052					
18. 0	4. 0	19. 56	·1064					
18. 15	9. 50	20. 30	·1048					

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 11		June 11						
h m	° ′ ″	h m		h m		h m	°	°
18. 23	22. 8. 0	22. 18	·1036					
18. 30	6. 40	22. 34	·1042					
18. 32	10. 30	22. 47	·1034					
19. 4	9. 25	23. 15	·1040					
19. 8	7. 30	23. 53	·1045					
19. 15	9. 30							
19. 33	5. 5							
20. 14	9. 35							
20. 32	7. 45							
21. 2	9. 50							
21. 13	8. 15							
	***							
22. 17	10. 45							
22. 34	13. 15							
22. 47	13. 10							
23. 53	16. 45							
June 12		June 12		June 12		June 12		
0. 5	22. 16. 0	0. 0	·1044	0. 30	·01704	11. 55	67·8	70·0
2. 15	15. 0	0. 25	·1045	10. 8	·01640	21. 49	63·2	66·7
3. 53	12. 45	1. 0	·1053	14. 0	·01734			
4. 14	15. 50	1. 30	·1048	14. 2	·01724			
4. 53	13. 0	2. 23	·1048	15. 6	·01777			
5. 47	11. 0	2. 35	·1052	15. 8	·01756			
10. 14	9. 10	2. 50	·1046	20. 8	·01732			
15. 13	8. 0	3. 20	·1051	23. 59	·01650			
15. 25	8. 35	3. 52	·1043					
	***	5. 28	·1058					
16. 30	6. 40		***					
17. 7	7. 30	5. 45	·1058					
	***	6. 10	·1053					
18. 16	5. 0	6. 53	·1062					
	***	7. 0	·1058					
21. 12	5. 35	7. 30	·1076					
21. 32	7. 30	8. 0	·1056					
22. 10	8. 10	8. 10	·1060					
22. 43	13. 0	8. 25	·1056					
23. 13	11. 20	10. 17	·1052					
23. 38	13. 10	10. 30	·1059					
23. 59	12. 50	10. 55	·1052					
		11. 6	·1057					
		11. 17	·1053					
		18. 20	·1058					
			***					
		20. 57	·1050					
			***					
		22. 23	·1031					
			***					
		23. 23	·1050					
		23. 50	·1048					
June 13		June 13		June 13		June 13		
0. 15	22. 13. 0	0. 0	·1048	0. 10	·01650	1. 40	63·5	66·2
1. 16	16. 0	1. 55	·1051	2. 17:	·01700	3. 40	62·5	65·8
3. 20	17. 40	2. 30	·1060	4. 8	·01648	9. 40	60·6	62·7
5. 43	13. 0	2. 50	·1054	8. 55	·01680	21. 40	60·0	63·0
6. 8	14. 45	3. 37	·1074	11. 2	·01595			
6. 17	14. 10	4. 8	·1062	20. 34	·01448			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 13 h m	° ′ ″	June 13 h m		June 13 h m		h m	°	°
6. 45	22. 14. 15		***	21. 44	·01370			
7. 15	12. 30	5. 10	·1070	22. 21	·01285			
9. 2	13. 20	5. 34	·1082	22. 37	·01280			
10. 6	11. 0	6. 20	·1074	22. 46	·01226			
10. 34	11. 45	6. 45	·1089	22. 52	·01267			
11. 23.	8. 55	7. 2	·1076		***			
11. 47	11. 20		***	23. 59	·01171			
12. 23	10. 40	8. 5	·1078					
13. 5	11. 25	8. 23	·1074					
13. 41	9. 15	8. 50	·1084					
13. 58	10. 5	9. 45	·1072					
14. 35	9. 20	10. 5	·1076					
15. 6	10. 20	11. 8	·1072					
15. 40	8. 20	11. 35	·1076					
16. 29	8. 0	12. 15	·1068					
	***	13. 17	·1070					
17. 47	4. 40		***					
18. 10	7. 30	18. 8	·1070					
18. 23	4. 20	18. 25	·1062					
18. 35	7. 5	18. 40	·1066					
18. 43	5. 45		***					
	***	20. 38	·1052					
19. 6	8. 0	20. 55	·1055					
19. 14	7. 0	21. 10	·1042					
	***	21. 40	·1048					
20. 44	7. 30	22. 3	·0988					
21. 4	9. 30	22. 5	·1004					
21. 16	7. 30	22. 14	·0988					
21. 47	12. 25	22. 25	·1013					
	***	22. 30	·0998					
22. 2	15. 0	22. 34	·1036					
22. 4	11. 30	22. 40	·1001					
	***	22. 52	·1051					
22. 15	16. 0	23. 4	·1015					
	***		***					
22. 23	5. 15	23. 24	·1058					
	***	23. 30	·1032					
22. 40	19. 50		***					
22. 50	7. 0	23. 44	·1058					
	***	23. 45	·1044					
23. 3	20. 30	23. 47	·1052					
	***	23. 49	·1046					
23. 13	16. 30	23. 56	·1060					
	***							
23. 47	23. 30							
	***							
23. 54	20. 40							
	***							
June 14		June 14		June 14		June 14		
0. 12	22. 21. 10	0. 0	·1044	0. 0	·01160	1. 40	63·2	65·2
0. 17	14. 40	0. 3	·1051		***	3. 40	65·6	68·0
	***	0. 5	·1046	0. 29	·01080	9. 40	68·2	69·0
0. 28	17. 10	0. 9	·1072	0. 42	·01138	21. 40	63·0	65·0
	***	0. 15	·1058	1. 32	·01020			
0. 31	12. 50	0. 20	·1068	2. 31	·00865			
0. 47	29. 40	0. 27	·1054	6. 17	·01060			
	***	0. 35	·1090	10. 57	·00968			

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 14 h m	° ′ ″	June 14 h m		June 14 h m		h m	°	°
1. 9	22. 25. 35	0. 50	·1053	12. 40	·01074			
	***	0. 56	·1058	14. 32	·01270			
1. 24	26. 0		***	17. 31	·01780			
	***	1. 5	·1045	17. 33	·01760			
1. 45	16. 25	1. 10	·1050		***			
	***		***	19. 23	·01680			
2. 15	17. 30	1. 21	·1039		***			
	***	1. 25	·1045	21. 23	·01672			
2. 18	15. 50	1. 30	·1032	21. 28	·01590			
2. 19	20. 50	2. 0	·1068	22. 8	·01585			
2. 21	17. 20	2. 23	·1124	23. 59	·01365			
2. 37	21. 30	2. 50	·1018					
2. 45	20. 0		***					
3. 5	25. 25	3. 45	·1052					
	***	3. 52	·1046					
4. 2	18. 0	4. 15	·1066					
	***	4. 27	·1052					
4. 37	19. 20	4. 35	·1068					
5. 9	14. 40	4. 55	·1068					
	***	5. 4	·1050					
5. 43	17. 15	5. 11	·1054					
6. 18	13. 15		***					
6. 43	15. 0	5. 46	·1036					
7. 18	12. 50		***					
9. 36	13. 30	6. 24	·1058					
10. 20	11. 40	6. 30	·1056					
10. 46	12. 10	6. 37	·1064					
11. 16	8. 50		***					
11. 32	10. 40	6. 47	·1056					
	***	7. 0	·1061					
12. 24	8. 0	7. 23	·1054					
12. 52	16. 5	7. 44	·1060					
13. 10	14. 50		***					
13. 20	10. 30	8. 57	·1050					
	***	9. 13	·1056					
14. 5	11. 20	9. 30	·1050					
14. 11	13. 5	9. 45	·1053					
14. 32	5. 25	10. 4	·1048					
14. 36	6. 30	10. 35	·1055					
	***	11. 2	·1048					
14. 47	4. 0	11. 15	·1055					
14. 58	4. 30		***					
15. 7	2. 0	11. 32	·1054					
	***	11. 41	·1046					
15. 40	1. 20		***					
16. 14	6. 5	12. 15	·1046					
16. 33	4. 50	12. 30	·1058					
	***	12. 55	·1058					
16. 51	7. 30	13. 14	·1046					
	***	13. 35	·1049					
17. 6	4. 0	14. 0	·1040					
17. 12	6. 50		***					
17. 23	4. 55	14. 40	·1055					
17. 35	6. 30		***					
17. 57	4. 30	15. 38	·1052					
	***	16. 37	·1064					
18. 17	5. 10		***					
18. 20	2. 30	17. 20	·1056					
	***		***					

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 14		June 14						
h m	° ′ ″	h m		h m		h m	°	°
18. 42	22. 6. 20	18. 53	·1060					
19. 1	4. 30		***					
19. 5	6. 30	19. 28	·1038					
19. 13	2. 45	19. 45	·1056					
19. 20	8. 25		***					
19. 33	2. 30	20. 23	·1039					
19. 47	8. 0	20. 32	·1045					
	***	20. 38	·1040					
20. 20	6. 35	20. 45	·1044					
20. 28	3. 0	21. 0	·1020					
20. 30	4. 0	21. 2	·1033					
20. 42	5. 45	21. 15	·1012					
20. 47	3. 55	21. 25	·1036					
20. 53	7. 15		***					
21. 5	4. 55	21. 38	·1020					
	***	22. 0	·1016					
21. 16	7. 30	22. 3	·1024					
21. 18	5. 50	22. 6	·1012					
21. 28	11. 30	22. 10	·1018					
21. 31	7. 40	22. 12	·1010					
21. 36	10. 25	22. 16	·1026					
21. 45	6. 30	22. 19	·1014					
22. 2	8. 35	22. 20	·1022					
22. 15	13. 0	22. 25	·1001					
	***	22. 38	·1025					
22. 32	9. 25	22. 40	·1018					
22. 37	14. 0	22. 46	·1026					
22. 48	10. 30	22. 53	·1006					
22. 57	13. 0	22. 58	·1028					
22. 59	8. 55	23. 0	·1018					
23. 5	14. 10	23. 15	·1010					
23. 28	10. 30	23. 30	·1019					
23. 50	12. 0	23. 59	·1015					
23. 59	14. 0							
June 15		June 15		June 15		June 15		
0. 7	22. 15. 0	0. 20	·1004	0. 7	·01347	1. 40	69 ·8	69 ·5
0. 26	15. 0	0. 30	·1003	1. 37	·00982	3. 40	69 ·8	71 ·0
0. 36	12. 5	0. 34	·1008	2. 15	·01015	9. 49	70 ·5	72 ·3
0. 47	16. 0	0. 53	·1000	3. 32	·00997	21. 40	64 ·5	66 ·0
0. 51	14. 45	1. 0	·1002	5. 17	01056			
0. 57	16. 0	1. 15	·0994	8. 1	·01030			
1. 22	13. 30	2. 5	·1044		***			
	***		***	9. 47	·01080			
2. 22	15. 0	2. 27	·1028	10. 10	·01041			
4. 51	10. 45	2. 58	·1042	10. 40	·01122			
7. 38	10. 0	3. 45	·1033	11. 7	·01047			
8. 23	11. 10	3. 50	·1037	14. 30	·01403			
	***	3. 57	·1032	18. 5	·01820			
8. 34	9. 30		***	18. 10	·01800			
8. 52	11. 50	6. 14	·1031	20. 35	·01778			
	***	6. 18	·1040		***			
9. 31	0. 0	7. 30	·1035	23. 59	·01563			
	***		***					
9. 43	1. 30	8. 8	·1043					
9. 45	0. 15	8. 13	·1056					
9. 54	22. 10. 10	8. 20	·1042					
10. 18	21. 55. 0	8. 30	·1052					
	***	8. 45	·1050					

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						
h m	° ′ ″	h m		h m		h m	°	
10. 37	21. 45. 55	8. 53	·1076					
10. 59	57. 0	8. 57	·1063					
11. 1	55. 10	9. 0	·1070					
11. 4	57. 10	9. 3	·1046					
11. 13	21. 54. 25	9. 13	·1068					
11. 32	22. 2. 10	9. 16	·1056					
	***	9. 19	·1072					
11. 55	6. 0	9. 27	·1052					
12. 0	3. 30	9. 35	·1057					
12. 7	5. 25	9. 40	·1037					
12. 9	4. 0	9. 44	·1057					
12. 13	6. 0	9. 46	·1042					
12. 43	6. 40	9. 50	·1050					
	***	10. 12	·1022					
13. 5	3. 30	10. 24	·1042					
13. 8	5. 15	10. 32	·1024					
13. 15	3. 0	10. 43	·1046					
13. 38	6. 0	10. 50	·1036					
13. 51:	4. 0	11. 8	·1048					
14. 11	7. 10	11. 16	·1030					
	***	11. 25	·1035					
14. 41	4. 25	11. 30	·1034					
	***	11. 40	·1043					
15. 0	6. 30	11. 50	·1036					
15. 5	5. 20	12. 3	·1038					
15. 8	8. 0	12. 13	·1052					
15. 11	3. 25	12. 30	·1040					
15. 16	7. 30	13. 3	·1041					
15. 30	3. 30	13. 14	·1032					
	***	13. 23	·1040					
16. 16	9. 0	13. 35	·1040					
	***	13. 57	·1032					
17. 48	5. 30	14. 15	·1044					
17. 55	8. 0	14. 22	·1041					
17. 58	5. 35	14. 26	·1050					
18. 16	3. 30	14. 45	·1038					
18. 20	7. 10	15. 0	·1040					
18. 29	5. 20	15. 12	·1032					
18. 32	7. 0	15. 20	·1037					
18. 40	8. 0		***					
18. 43	4. 30	18. 30	·1036					
18. 50	7. 0		***					
18. 53	5. 0	22. 0	·1024					
18. 59	6. 30	22. 38	·1026					
19. 4	5. 20	23. 4	·1020					
	***	23. 40	·1022					
19. 50	7. 25	23. 45	·1018					
	***	23. 59	·1020					
20. 8	6. 45							
20. 14	4. 0							
20. 31	7. 50							
20. 35	5. 30							
20. 46	9. 20							
21. 1	7. 5							
	***							
22. 5	8. 30							
	***							
23. 59	14. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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	° ′ ″	June 16 h m		June 16 h m		June 16 h m	°	°
0. 42	22. 16. 0	0. 0	·1021	0. 20	·01628	1. 40	67 ·0	68 ·5
1. 0	15. 15	0. 33	·1024	2. 23:	·01330	3. 40	72 ·0	73 ·0
1. 23	17. 15	1. 30	·1022	3. 50	·01042	9. 40	71 ·2	74 ·0
1. 35	15. 30	1. 53	·1035	5. 10	·01113	21. 40	67 ·0	69 ·0
2. 13	15. 50		***	6. 30	·01121			
3. 22	13. 10	3. 3	·1032	6. 43	·01180			
	***	3. 30	·1023	8. 36	·01171			
4. 20	13. 0	3. 40	·1032	11. 45	·01326			
4. 23	14. 25	4. 10	·1030	15. 11	·01817			
4. 37	11. 30	4. 15	·1040	21. 13	·01716			
	***		***	22. 32:	·01657			
5. 45	11. 30	4. 57	·1022	23. 59:	·01540			
	***	5. 14	·1022					
6. 12	10. 0		***					
6. 18	11. 20	5. 26	·1036					
6. 35	9. 0		***					
6. 52	10. 40	6. 10	·1026					
7. 12	9. 30	6. 25	·1036					
9. 17	8. 20	6. 43	·1022					
10. 47	5. 0	7. 8	·1038					
11. 13	5. 35		***					
11. 49	3. 0	8. 15	·1030					
11. 56	5. 0		***					
12. 10	3. 40	9. 40	·1046					
12. 40	6. 35	10. 15	·1044					
13. 13	5. 40	10. 50	·1055					
13. 23	8. 0	11. 30	·1046					
13. 38	5. 30	11. 44	·1048					
15. 30	7. 0	12. 0	·1031					
	***	13. 0	·1033					
18. 40	3. 0	13. 15	·1048					
19. 43	3. 5	13. 28	·1040					
19. 55	2. 20		***					
21. 8	5. 25	15. 45	·1046					
21. 27	5. 0	15. 50	·1052					
23. 2	11. 0	19. 0	·1046					
23. 25	11. 0	21. 25	·1028					
23. 59	13. 0	23. 59	·1021					
June 17		June 17		June 17		June 17		
0. 6	22. 14. 0	0. 0	·1022	0. 17:	·01500	1. 40	69 ·0	69 ·8
0. 30	15. 5	0. 45	·1018	2. 53	·00948	3. 40	71 ·0	72 ·6
0. 45	14. 50	1. 15	·1024	6. 10:	·01090	9. 40	70 ·7	73 ·0
1. 13	16. 5	1. 55	·1038	8. 46	·01070	21. 40	62 ·0	65 ·0
1. 52	17. 25	2. 10	·1032	11. 32:	·01265			
2. 8	16. 10	2. 21	·1038	15. 15	·01770			
2. 21	17. 5	3. 8	·1030	15. 20	·01750			
3. 13	15. 0	3. 30	·1038	20. 31	·01710			
3. 22	16. 5	3. 46	·1032	23. 59	·01575			
	***	3. 52	·1040					
3. 47	14. 10	3. 58	·1031					
3. 51	15. 40		***					
5. 47	11. 10	6. 0	·1027					
6. 31	7. 40	7. 45	·1040					
7. 47	8. 55		***					
8. 47	8. 55	9. 4	·1042					
	***	9. 10	·1050					
10. 32	6. 15	9. 28	·1041					

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	° ′ ″	June 17 h m		h m		h m	°	°
11. 20	22. 7. 30	9. 45	·1046					
12. 7	5. 45	10. 16	·1042					
12. 28	7. 30	10. 35	·1047					
	***	11. 50	·1040					
13. 58	6. 0	12. 26	·1046					
14. 23	4. 20	13. 15	·1049					
14. 57	5. 40	14. 13	·1038					
15. 25	4. 45	20. 0	·1053					
16. 25	6. 45	23. 13	·1040					
18. 2	5. 20	23. 59	·1042					
20. 40	4. 0							
20. 48	3. 30							
21. 3	4. 0							
23. 59	12. 10							
June 18		June 18		June 18		June 18		
0. 17	22. 12. 30	0. 20	·1040	0. 20	·01568	1. 40	64 ·5	66 ·8
1. 25	13. 25		***	3. 35:	·01350	3. 40	66 ·0	68 ·0
3. 14	17. 0	4. 14	·1044	6. 52	·00910	9. 40	68 ·0	68 ·8
5. 13	12. 50	4. 20	·1052		(†)	23. 40	64 ·5	66 ·5
6. 30	11. 0	4. 40	·1044	11. 28	·00910			
8. 16	10. 0	4. 50	·1048	14. 51:	·01297			
9. 2	11. 0	5. 16	·1042	17. 20	·01462			
12. 45	11. 10		***	17. 30	·01410			
13. 43	9. 35	8. 10	·1064	20. 54	·01372			
	***		***	23. 59	·01250			
15. 51	9. 30	9. 45	·1062					
16. 22	11. 40	16. 25	·1058					
16. 37	10. 0		***					
	***	17. 0	·1055					
17. 23	14. 0	17. 23	·1046					
	***	18. 45	·1063					
17. 37	9. 0	20. 48	·1053					
	***		***					
18. 32	10. 45	21. 0	·1046					
	***		***					
20. 2	6. 30	22. 47	·1034					
20. 13	7. 55	22. 56	·1022					
20. 43	5. 0		***					
20. 53	7. 40	23. 30	·1028					
21. 18	5. 25		***					
21. 52	8. 15	23. 59	·1044					
22. 6	7. 20							
22. 13	8. 25							
22. 26	8. 15							
22. 54	12. 15							
23. 57	16. 0							
June 19		June 19		June 19		June 19		
0. 13	22. 16. 35	0. 0	·1044	0. 25	·01240	9. 10	64 ·0	67 ·0
	***		***	3. 50	·01252	21. 52	59 ·0	61 ·0
0. 56	20. 50	1. 4	·1040	5. 1	·01298			
	***	1. 29	·1015	10. 2	·01325			
1. 23	21. 0	2. 0	·1032	11. 35	·01415			
2. 0	23. 50	2. 10	·1027	12. 15	·01370			
	***	2. 45	·1035	20. 0	·01582			
2. 56	22. 45	2. 53	·1030	23. 59	·01517			
	***	3. 5	·1039					

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 19 h m	° ′ ″	June 19 h m		h m		h m	°	°
3. 48	22. 18. 30	3. 30	·1032					
	***	3. 37	·1038					
5. 43	15. 30	3. 40	·1034					
6. 53	10. 30	3. 45	·1038					
9. 49	10. 40	3. 50	·1034					
10. 3	9. 45	4. 0	·1047					
10. 32	13. 55		***					
11. 4	10. 20	4. 40	·1046					
12. 14	9. 0		***					
13. 17	9. 45	5. 4	·1061					
14. 25	8. 0	5. 13	·1054					
14. 47	15. 10	5. 40	·1054					
15. 33:	8. 25		***					
16. 18	9. 50	6. 12	·1043					
	***		***					
17. 47	5. 50	8. 0	·1068					
	***	9. 50	·1057					
19. 0	5. 50	10. 30	·1068					
19. 31	3. 10	10. 53	·1054					
20. 35	2. 35	11. 15	·1062					
21. 20	4. 50	12. 45	·1058					
21. 54	8. 15	13. 13	·1066					
23. 36	12. 0	13. 30	·1062					
23. 59	13. 45		***					
		19. 14	·1052					
		19. 50	·1038					
		21. 30	·1056					
		22. 35	·1024					
		22. 45	·1029					
		22. 53	·1024					
			***					
		23. 59	·1030					
June 20		June 20		June 20		June 20		
0. 5	22. 14. 0	0. 0	·1030	0. 30	·01480	1. 40	61 ·8	62 ·5
1. 40	18. 30	1. 30	·1038	3. 51	·01165	3. 40	63 ·0	63 ·7
2. 1	21. 30	1. 40	·1040		***	9. 40	64 ·0	67 ·0
	***	1. 53	·1056	5. 25	·00805	21. 40	59 ·8	61 ·0
3. 57	16. 30		***		(†)			
4. 8	17. 50	2. 16	·1054	12. 47	·00885			
4. 20	16. 20	2. 30	·1046	18. 25	·01632			
4. 32	17. 0	2. 38	·1051	18. 29	·01615			
4. 43	14. 35	2. 44	·1046	20. 55	·01530			
4. 52	17. 0	2. 57	·1051	22. 40:	·01520			
5. 2	14. 30	3. 10	·1044	23. 59:	·01380			
5. 12	15. 35	3. 40	·1055					
5. 36	13. 0		***					
5. 43	15. 30	4. 0	·1047					
5. 47	13. 15	4. 15	·1064					
5. 56	14. 50	4. 25	·1052					
6. 47	9. 50	4. 34	·1066					
7. 20	10. 20	4. 47	·1046					
8. 13	22. 8. 30	4. 58	·1072					
8. 26	21. 58. 20	5. 9	·1052					
8. 38	22. 3. 30	5. 16	·1078					
9. 13	8. 0	5. 26	·1060					
10. 10	6. 45		***					
	***	5. 34	·1063					

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 20 h m	° ′ ″	June 20 h m		h m		h m	°	°
12. 4	22. 11. 10	5. 42	·1040					
	***	5. 50	·1086					
15. 0	8. 40	5. 53	·1060					
15. 17	11. 20	6. 0	·1080					
15. 31	9. 0	6. 15	·1058					
	***	6. 21	·1056					
17. 17	11. 30	6. 30	·1051					
17. 44	10. 5	6. 47	·1061					
17. 50	11. 0	6. 55	·1056					
18. 32	7. 30	7. 0	·1065					
	***	7. 13	·1052					
20. 8	4. 30		***					
20. 56	5. 0	7. 53	·1072					
21. 6	7. 0	8. 0	·1068					
21. 28:	5. 5	8. 5	·1074					
22. 10	14. 0		***					
23. 17	9. 15	8. 18	·1064					
23. 59	12. 25	8. 28	·1096					
		9. 27	·1042					
		9. 45	·1040					
		10. 3	·1052					
		10. 15	·1049					
			***					
		11. 50	·1052					
		12. 0	·1054					
		13. 4	·1052					
		13. 55	·1059					
		14. 25	·1054					
			***					
		15. 53	·1058					
		16. 45	·1056					
		17. 20	·1050					
		19. 25	·1058					
		21. 0	·1048					
		22. 9	·1030					
		22. 15	·1032					
			***					
		23. 0	·1022					
			***					
		23. 30	·1024					
		23. 59	·1030					
June 21		June 21		June 21		June 21		
0. 28	22. 12. 30	0. 15	·1023	0. 14:	·00770	1. 40	64 ·0	66 ·0
0. 40	14. 25	0. 37	·1028	0. 55	·00600	3. 40	64 ·5	66 ·7
	***	1. 45	·1034	3. 51	·00807	9. 40	64 ·5	67 ·3
3. 37	15. 50	1. 53	·1030		***	21. 40	58 ·0	60 ·0
4. 28	17. 50	2. 5	·1032	9. 17	·00840			
	***	2. 23	·1052	12. 20	·00892			
5. 8	13. 5		***	14. 13:	·01090			
	***	2. 40	·1046	16. 29	·01508			
5. 25	14. 0	3. 30	·1054	19. 25:	·01440			
5. 51	11. 30	3. 38	·1070	22. 2	·01480			
	***	3. 50	·1064	22. 8	·01330			
12. 2	10. 5		***	23. 59	·01163			
	***	4. 27	·1068					
12. 14	10. 30	4. 45	·1036					
12. 32	6. 40		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. Ma et.
June21 h m	° ′ ″	June21 h m		h m		h m	°	°
13. 7:	22. 4. 45	5. 13	·1016					
			***					
14. 6	8. 20							
14. 55	9. 5	5. 55	·1044					
16. 6	7. 0	6. 30	·1050					
	***	6. 40	·1066					
			***					
16. 52	9. 20							
18. 2	5. 20	8. 0	·1060					
	***	9. 13	·1061					
20. 25	6. 0	9. 20	·1068					
20. 57	7. 20	9. 45	·1061					
22. 12	11. 15	10. 17	·1060					
23. 59	14. 20	10. 35	·1049					
		10. 52	·1054					
		12. 4	·1052					
		12. 20	·1068					
		12. 35	·1062					
		13. 30	·1050					
		15. 0	·1048					
			***					
		16. 0	·1054					
		19. 45	·1056					
		21. 0	·1047					
		23. 10	·1042					
		23. 55	·1043					
June22		June22		June22		June22		
0. 8	22. 15. 0	0. 15	·1045	0. 45	·00950	1. 40	62 ·4	63 ·0
0. 33	17. 0	0. 50	·1022	2. 25	·00660	3 40	63 ·5	65 ·5
0. 52:	28. 0	1. 15	·1038	5. 9	·00847	9. 40	64 ·5	66 ·0
1. 25	21. 0	2. 29	·1044	7. 30	·00840	21. 40	61 ·0	63 ·5
1. 45	19. 20	2. 53	·1056	7. 31	·00900			
2. 53	18. 45	3. 34	·1052	7. 36	·00860			
4. 50	14. 0	3. 56	·1056	7. 45	·00870			
5. 7	14. 40		***	7. 53	·00840			
6. 24	10. 15	4. 50	·1048	8. 25	·00880			
7. 27	9. 30	5. 20	·1060	9. 41	·00865			
7. 30	13. 0	6. 20	·1050	10. 14	·00791			
7. 37	9. 40	7. 25	·1062	10. 25	·00806			
7. 45	22. 11. 30	7. 30	·1052	10. 30	·00683			
8. 17	21. 56. 10	7. 33	·1101	10. 34	·00710			
9. 0	22. 6. 35	7. 38	·1086	10. 58	·00803			
9. 20	3. 50	7. 43	·1096	11. 15	·00725			
9. 36	5. 40	7. 52	·1080		***			
9. 42	3. 15		***	13. 18	·00790			
9. 45	6. 0	8. 23	·1096	14. 35	·00705			
10. 1	22. 6. 45	8. 57	·1066	17. 23:	·01215			
10. 21	21. 40. 30		***	20. 48	·01520			
10. 33	56. 0	9. 29	·1082	23. 59:	·01451			
10. 50	21. 33. 25	9. 50	·1074					
11. 16	22. 3. 0	10. 14	·1042					
11. 33	2. 10	10. 23	·1102					
11. 37	4. 0	10. 30	·1056					
11. 46:	1. 35	10. 34	·1076					
12. 2	4. 0		***					
	***	10. 45	·1044					
12. 13	1. 50	10. 55	·1112					
	***		***					
12. 50	5. 10	11. 28	·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.	Readings of Thermometers. Of V. F. Magnet.
June22 h m	° ′ ″	June22 h m		h m		h m	°	°
13. 14	22. 5. 45	11. 33	·1056					
	***		***					
13. 39	21. 59. 15	11. 45	·1032					
14. 1	22. 13. 25	11. 54	·1050					
14. 28	6. 10		***					
14. 40	7. 35	12. 8	·1036					
14. 53	22. 1. 0	12. 17	·1046					
15. 22	21. 59. 0	12. 26	·1040					
15. 51	22. 3. 40	12. 29	·1049					
15. 58	1. 10	12. 34	·1044					
16. 2	3. 0	12. 40	·1054					
	***	12. 50	·1046					
17. 7	4. 45	13. 10	·1057					
17. 47	4. 0	13. 15	·1046					
	***	13. 20	·1058					
17. 58	5. 30		***					
	***	13. 53	·1022					
18. 20	2. 55		***					
	***	14. 14	·1030					
19. 2	6. 0	14. 40	·0994					
19. 4	2. 40		***					
	***	15. 14	·1046					
19. 18	5. 5		***					
	***	15. 45	·1050					
20. 13	4. 35		***					
20. 25	6. 40	16. 13	·1040					
20. 30	2. 20	16. 30	·1040					
	***	16. 38	·1046					
20. 52	7. 45	16. 43	·1040					
21. 9	6. 0		***					
21. 22	8. 30	18. 0	1040					
21. 35	7. 30	18. 8	·1036					
	***	18. 13	·1040					
23. 55	12. 15		***					
	***	21. 8	·1022					
		22. 10	·1012					
			***					
		23. 55	·1028					
June23		June23		June23		June23		
0. 2	22. 12. 50	0. 0	·1030	0. 18:	·01415	1. 40	64 ·5	66 ·0
	***	0. 5	·1032	1. 36:	·01215	3. 40	67 ·0	69 ·5
0. 32	13. 10	0. 20	·1026	2. 48	·00940	9. 40	70 ·0	72 ·0
2. 10	17. 10	1. 52	·1030	7. 51	·01068	21. 40	64 ·0	65 ·5
4. 20	15. 20		***	9. 45	·01045			
5. 25	12. 15	2. 30	·1024	14. 1:	·01368			
9. 30	10. 20	3. 15	·1042	15. 55	·01728			
9. 52	8. 10	3. 30	·1033	20. 5	·01664			
10. 35	9. 10	3. 45	·1038	22. 30:	·01632			
11. 20	6. 50		***	23. 59:	·01375			
12. 43	8. 30	5. 15	·1032					
15. 53	7. 30		***					
16. 18	9. 30	7. 50	·1048					
17. 51	7. 25		***					
	***	8. 30	·1036					
20. 47	6. 25	9. 50	·1041					
22. 20	8. 0	11. 3	·1031					
23. 30	11. 30	11. 23	·1044					

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.
June23		June23						
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 11. 40	11. 55	·1036					
		18. 13	·1045					
		18. 23	·1041					
		19. 24	·1046					
		23. 8	·1012					
		23. 59	·1016					
June24		June24		June24		June24		
0. 5	22. 11. 40	0. 0	·1015	1. 13	·01040	1. 40	70 ·0	73 ·0
0. 38	11. 40	1. 15	·1020	6. 17	·01072	3. 40	74 ·0	77 ·0
0. 51	13. 25		***	7. 53	·01142	9. 40	76 ·5	78 ·0
2. 13	14. 40	2. 0	·1022	9. 35	·01175	21. 40	66 ·3	68 ·0
3. 3	13. 0	2. 10	·1028	9. 52	·01225			
3. 54	12. 40	2. 26	·1013	11. 46:	·01400			
4. 57	10. 0	2. 45	·1022	14. 25	·01840			
7. 7	8. 0	3. 8	·1013	17. 38	·01812			
16. 13	7. 50	4. 23	·1024	23. 59	·01697			
17. 32	5. 55	10. 38	·1022					
21. 10	6. 20	17. 30	·1037					
22. 58	9. 25	21. 30	·1028					
23. 59	13. 0	22. 50	·1028					
		23. 5	·1034					
		23. 59	·1033					
June25		June25		June25		June25		
0. 2	22. 13. 0	0. 20	·1037	0. 35	·01710	1. 40	67 ·0	68 ·5
0. 48	16. 30	0. 50	·1034	3. 46:	·01645	3. 40	68 ·5	69 ·5
2. 17	20. 30	2. 0	·1035		***	9. 40	70 ·0	73 ·0
3. 15	20. 30	3. 25	·1051	10. 16:	·00980	23. 10	64 ·0	66 ·4
5. 22	14. 0		***	21. 22:	·01605			
6. 35	11. 30	4. 17	·1045	23. 17	·01643			
13. 13	7. 30	4. 22	·1050					
16. 28	8. 5		***					
18. 28	10. 35	6. 20	·1047					
20. 53	5. 0		***					
23. 59	12. 30	7. 11	·1051					
		7. 23	·1058					
		8. 27	·1044					
		9. 54	·1042					
		10. 3	·1046					
		10. 13	·1041					
			***					
		11. 34	·1040					
		12. 8	·1048					
		19. 18	·1042					
		23. 15	·1023					
		23. 59	·1026					
June26		June26		June26		June26		
0. 7	22. 13. 0	0. 0	·1026	0. 30	·01653	11. 2	66 ·0	68 ·0
1. 33	16. 30	1. 34	·1028		***	21. 40	63 ·0	66 ·0
1. 40	16. 0	1. 44	·1023	8. 0	·01552			
2. 0	16. 50	2. 4	·1038		***			
2. 23	15. 0		***	10. 45	·01710			
2. 31	18. 30	2. 20	·1036	10. 55	·01770			
2. 40	15. 30	2. 26	·1024		***			
3. 23	16. 30	3. 30	·1058	12. 34	{·01750			
4. 2	15. 40		***		{·01590			

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.
June26		June26		June26				
h m	° ′ ″	h m		h m		h m	°	°
4. 36	22. 12. 0	3. 55	·1046	14. 23	·01722			
5. 1	11. 20	4. 13	·1056		***			
5. 35	12. 45	4. 30	·1042	19. 50	·01656			
	***		***	23. 59	·01475			
6. 4	15. 10	5. 0	·1054					
7. 1	12. 0	5. 15	·1046					
7. 40	14 20	5. 55	·1051					
8. 20	13. 0	6. 2	·1077					
8. 42	16. 0		***					
9. 2	13. 0	6. 13	·1076					
9. 13	13. 45	6. 20	·1096					
9. 23	12. 25	6. 44	·1038					
9. 31	13. 0	6. 56	·1038					
10. 4	10. 0	7. 4	·1051					
10. 17	22. 9. 20	7. 10	·1047					
10. 30	21. 58. 25	7. 20	·1056					
	***	7. 55	·1060					
11. 27	22. 8. 0	8. 3	·1050					
	***		***					
12. 39	7. 45	8. 38	·1082					
12. 52	9. 40		***					
13. 25	8. 0	8. 53	·1065					
13. 34	8. 55		***					
13. 46	8. 0	9. 14	·1076					
14. 20	11. 30	9. 17	·1068					
14. 29	7. 25		***					
14. 35	10. 25	9. 48	·1078					
14. 46	6. 10		***					
	***	10. 24	·1062					
15. 8	9. 0	10. 38	·1092					
15. 16	7. 20	10. 45	·1062					
15. 32	7. 0	10. 53	·1084					
15. 47	8. 35	11. 7	·1076					
16. 30	1. 5	11. 20	·1092					
16. 45	6. 5	11. 26	·1078					
16. 52	5. 25	11. 30	·1086					
17. 2	8. 50	11. 40	·1060					
17. 17	8. 30	11. 46	·1075					
17. 21	10. 30		***					
17. 31	6. 45	12. 3	·1054					
17. 36	7. 50	12. 9	·1063					
17. 43	6. 5	12. 15	·1051					
17. 48	8. 5	12. 30	·1060					
17. 55	7. 0	12. 38	·1056					
17. 58	8. 30	12. 47	·1064					
18. 7	4. 45		***					
	***	13. 45	·1058					
19. 7	6. 45	13. 57	·1068					
19. 11	4. 30	14. 9	·1064					
19. 30	8. 0	14. 22	·1072					
19. 40	7. 50		***					
19. 46	5. 20	14. 36	·1063					
19. 58	9. 0	14. 38	·1074					
	***	14. 52	·1058					
20. 16	5. 0		***					
	***	15. 45	·1058					
20. 51	8. 30	16. 0	·1050					
21. 1	5. 20	16. 34	·1048					
	***	16. 53	·1037					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 26		June 26						
h m	° ′ ″	h m		h m		h m	°	°
22. 52	22. 10. 0	17. 13	·1056					
	***		***					
23. 59	13. 30	18. 13	·1068					
		18. 20	·1053					
		18. 35	·1064					
		18. 40	1058					
		18. 46	·1068					
			***					
		18. 53	·1056					
		19. 0	·1062					
		19. 38	·1050					
		19. 43	·1054					
		19. 46	·1048					
		19. 50	·1055					
			***					
		20. 10	·1042					
			***					
		21. 32	·1028					
			***					
		22. 45	·1024					
		22. 47	·1018					
		22. 53	·1026					
		23. 0	·1016					
		23. 4	·1026					
			***					
		23. 34	·1032					
		23. 47	·1019					
		23. 59	·1022					
June 27		June 27		June 27		June 27		
0. 5	22. 13. 30	0. 0	·1022	0. 8	·01467	1. 40	68 ·0	70 ·0
0. 30	13. 10	0. 13	·1025	2. 13:	·01288	3. 40	69 ·5	72 ·3
	***	0. 30	·1023	4. 18	·00982	9. 40	70 ·0	72 ·5
1. 14	16. 0	1. 23	·1042	4. 51	·01020	21. 40	66 ·5	68 ·5
1. 38	14. 50	1. 35	·1020		***			
2. 19	17. 15	1. 56	·1036	8. 59	·01005			
3. 0	17. 10		***	9. 55	·00915			
3. 17	18. 5	2. 45	·1036	14. 4	·00986			
3. 30	16. 35	2. 53	·1031	16. 35	·01240			
4. 2	19. 10	3. 18	·1038		***			
4. 23	17. 0	3. 32	·1029	17. 5	·01242			
4. 31	18. 15	4. 9	·1056		***			
4. 45	14. 50	4. 28	·1030	22. 50	·01706			
5. 0	14. 30	4. 55	·1052	23. 5	·01625			
5. 12	16. 0	5. 2	·1046	23. 59	·01603			
	***	5. 15	·1060					
5. 52	13. 45		***					
6. 12	16. 10	5. 38	·1048					
6. 25	14. 10	5. 46	·1054					
6. 33	15. 30	6. 4	·1050					
7. 1	10. 30	6. 23	·1066					
7. 10	11. 40	6. 45	·1054					
7. 25	10. 30	7. 0	·1068					
7. 50	12. 20	7. 14	·1055					
8. 34	7. 50		***					
9. 2	11. 50	7. 33	·1062					
9. 13	16. 50	8. 0	·1045					
9. 26	13. 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.	Of V. F. Magnet.
June 27		June 27						
h m	° ′ ″	h m		h m		h m	°	°
9. 38	22. 17. 0	8. 40	·1055					
10. 9	21. 57. 50	8. 50	·1052					
10. 35	22. 2. 40	9. 4	·1070					
10. 54:	21. 59. 0	9. 18	·1046					
11. 14	22. 2. 40	9. 30	·1062					
11. 33:	21. 59. 10	9. 45	·1046					
12. 9	22. 7. 10	10. 14	·1066					
12. 29	5. 0		***					
12. 57	6. 15	10. 44	·1041					
13. 23	5. 10	11. 5	·1043					
13. 35	1. 40	11. 30	·1030					
	***	12. 8	·1023					
14. 7	6. 10	12. 36	·1048					
14. 19	14. 15	12. 56	·1038					
15. 27	10. 40	13. 15	·1046					
16. 22	4. 55	13. 45	·1023					
16. 35	8. 10	14. 15	·1016					
16. 40	8. 0	14. 40	·1035					
16. 54	11. 0		***					
17. 17	7. 25	16. 25	·1050					
	***	16. 35	·1058					
18. 21	11. 0	16. 43	·1052					
	***	16. 50	·1056					
19. 20	5. 0	17. 15	·1024					
19. 44	8. 5		***					
19. 51	6. 5	18. 50	·1038					
20. 0	8. 0		***					
20. 22	5. 30	20. 20	·1022					
20. 47	10. 0	20. 30	·1026					
	***	21. 16	·0998					
21. 58	9. 0	21. 34	·1002					
22. 15	11. 10	21. 57	·0986					
22. 25	11. 0	22. 45	·1008					
22. 50	15. 50		***					
23. 59	14. 30	23. 59	·1014					
June 28		June 28		June 28		June 28		
0. 10	22. 15. 45	0. 0	·1014	0. 20	·01602	1. 40	69 ·5	70 ·5
0. 56	19. 30	0. 14	·1019	3. 38	·01517	3. 40	69 ·0	72 ·0
1. 57	15. 50	1. 10	·1012		***	9. 40	69 ·5	72 ·5
	***	2. 40	·1031	5. 24	·01382	21. 40	66 ·0	68 ·0
3. 17	15. 50	2. 58	·1021		***			
3. 32	18. 25	3. 15	·1023	7. 13	·01320			
3. 53	16. 30	3. 33	·1040	8. 37	·01241			
4. 8	17. 10	3. 43	·1032	10. 1	·01197			
4. 32:	13. 0		***	11. 7	·01175			
6. 16	16. 50	4. 15	·1030	14. 57:	·01193			
6. 40	4. 30	4. 33	·1054	19. 23	·01700			
7. 15	12. 10	5. 15	·1037	23. 35	·01695			
7. 53	13. 55		***					
8. 25	12. 50	6. 4	·1061					
9. 3	14. 30	6. 28	·1028					
9. 45	5. 30	7. 0	·1079					
10. 1	9. 10		***					
10. 15	2. 10	7. 50	·1046					
10. 28	11. 30		***					
11. 6	7. 30	8. 45	·1044					

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.
June 28		June 28						
h m	° ′ ″	h m		h m		h m	°	°
11. 18	22. 9. 30	9. 0	·1053					
11. 35	8. 10	9. 23	·1048					
12. 13	11. 0	9. 55	·1060					
12. 29	8. 30	10. 6	·1046					
	***	10. 20	·1082					
12. 58	14. 0	10. 36	·1056					
	***	10. 50	·1056					
13. 51	11. 50	11. 3	·1044					
	***	11. 15	·1044					
14. 31	14. 35	11. 38	·1030					
16. 21	7. 50	12. 0	·1038					
	***	12. 45	·1024					
16. 52	10. 30	13. 25	·1040					
	***	13. 50	·1032					
17. 18	7. 25	14. 0	·1040					
17. 36	9. 0	14. 10	·1033					
17. 46	7. 45	14. 20	·1040					
	***	14. 27	·1034					
19. 35	9. 0	14. 30	·1038					
	***	14. 40	·1032					
19. 56	6. 10		***					
	***	16. 8	·1041					
20. 57	9. 20	16. 30	·1034					
	***	17. 25	·1041					
21. 17	6. 30		***					
21. 28	13. 50	18. 15	·1038					
21. 57	10. 30	19. 0	·1022					
22. 40	9. 10		***					
	***	20. 10	·1024					
23. 36	12. 10	20. 38	·1015					
		21. 0	·1022					
		22. 0	·1006					
		22. 55	·1017					
			***					
		23. 30	·1018					
June 29		June 29		June 29		June 29		
0. 2	22. 12. 40	0. 0	·1020	0. 0	·01670	1. 40	69 ·0	70 ·0
0. 40	14. 40	0. 40	·1025	2. 0:	·01438	3. 40	70 ·5	72 ·0
1. 46	15. 15	1. 0	·1022	4. 30	·01000	9. 40	71 ·0	72 ·6
5. 37	11. 10		***	6. 50	·01067	21. 40	62 ·0	65 ·0
6. 28	11. 40	2. 40	·1036	10. 31:	·01005			
7. 13	9. 35	3. 55	·1025	13. 36:	·01175			
	***	4. 45	·1037	16. 14	·01658			
8. 25	10. 0		***	22. 46	·01700			
8. 45	8. 50	5. 55	·1036	23. 59	·01602			
8. 58	10. 0	6. 5	·1044					
9. 10	7. 10	6. 35	·1038					
9. 15	8. 10	7. 25	·1056					
9. 38	5. 50	7. 40	·1048					
11. 24	11. 0	8. 0	·1050					
11. 58:	8. 20	8. 14	·1043					
12. 38	14. 0		***					
12. 48	12. 0	9. 18	·1038					
13. 27	11. 40	9. 54	·1040					
14. 14:	5. 50	10. 40	·1028					
15. 16	13. 15	11. 15	·1037					
15. 28	11. 25	11. 25	·1036					

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 paris 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 29		June 29						
h m	° ′ ″	h m		h m		h m	°	°
15. 47	22. 12. 10	11. 45	·1035					
16. 28	8. 0	12. 40	·1033					
17. 48	6. 35	13. 28	·1050					
	***	14. 17	·1038					
19. 2	8. 10	14. 30	·1028					
	***	15. 15	·1038					
19. 43	6. 0	15. 45	·1029					
22. 12	9. 0	16. 26	·1040					
23. 59	14. 0	16. 45	·1037					
		17. 15	·1045					
			***					
		18. 28	·1034					
		18. 56	·1042					
		20. 45	·1022					
		21. 55	·1028					
		23. 25	·1022					
		23. 59	·1030					
June 30		June 30		June 30		June 30		
0. 7	22. 14. 45	0. 0	·1030	0. 20	·01560	1. 40	69 ·0	72 ·0
1. 0	15. 10	0. 20	·1028	2. 29	·01330	3. 40	69 ·0	72 ·0
1. 40	15. 0	0. 45	·1029		·01283	9. 40	70 ·0	72 ·7
4. 17	10. 15	1. 35	·1022	4. 2	·00980	21. 40	60 ·0	62 ·0
5. 45	14. 0	2. 35	·1036	5. 52:	·01025			
8. 37	10. 30	3. 8	·1034	10. 0:	·00975			
9. 1	7. 50	3. 27	·1042	13. 27:	·01235			
9. 52	9. 0	3. 45	·1033	15. 44	·01658			
10. 28	7. 30	4. 2	·1043	16. 6	·01625			
11. 16	10. 0		***	19. 15	·01581			
12. 12	10. 25	5. 40	·1038	22. 38	·01613			
12. 23	8. 55	6. 15	·1046	23. 59	·01540			
12. 37	10. 35	7. 23	·1037					
	***		***					
14. 58	6. 10	8. 30	·1044					
15. 12	8. 50	9. 0	·1040					
15. 48	10. 0	9. 30	·1045					
16. 30	6. 10	10. 35	·1038					
17. 37	4. 30	11. 40	·1036					
19. 23	4. 35		***					
	***	12. 45	·1048					
21. 9	6. 45	13. 20	·1044					
21. 31	6. 0	13. 44	·1048					
23. 59	11. 40	15. 14	·1038					
		15. 50	·1050					
		18. 53	·1048					
		19. 25	·1038					
		22. 25	·1016					
		22. 35	·1020					
		23. 0	·1016					
		23. 59	·1024					
July 1		July 1		July 1		July 1		
0. 5	22. 11. 45	0. 0	·1024	0. 15	·01518	1. 40	66 ·6	68 ·0
2. 38	16. 30	1. 4	·1024	1. 53	·01340	3. 40	66 ·0	68 ·0
3. 42	14. 10	1. 55	·1034	3. 26	·01075	9. 40	66 ·5	68 ·5
5. 12	13. 45	2. 7	·1030	5. 28	·00870	21. 40	60 ·0	63 ·0
6. 7	6. 0		***		***			
7. 15	10. 0	3. 34	·1034	6. 34	·00908			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 : atttached 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 1		July 1		July 1				
h m	° ′ ″	h m		h m		h m	°	°
9. 7	22. 11. 15	4. 2	·1030	12. 22:	·00955			
13. 5	9. 20		***	17. 47	·01602			
15. 45	10. 25	5. 0	·1044	18. 10	·01570			
18. 30	6. 30	5. 9	·1048	20. 50	·01523			
	***	5. 30	·1032	23. 27	·01535			
19. 46	7. 30		***					
	***	6. 40	·1074					
20. 8	5. 0	7. 20	·1042					
20. 31	7. 10		***					
21. 20	6. 30	8. 15	·1048					
23. 59	12. 0	9. 8	·1044					
		12. 28	·1048					
		13. 30	·1038					
			***					
		19. 35	·1045					
		22. 0	·1034					
		23. 30	·1020					
		23. 59	·1023					
July 2		July 2		July 2		July 2		
0. 10	22. 12. 5	0. 10	·1026	0. 0	·01518	1. 40	61 ·0	63 ·5
2. 2	18. 0	1. 10	·1041	1. 40	·01393	3. 40	63 ·5	66 ·0
2. 12	17. 15	2. 30	·1042	3. 13	·01192	9. 40	65 ·0	67 ·0
2. 53	19. 0	2. 53	·1052		***	23. 20	63 ·0	65 ·0
3. 22	16. 5	3. 20	·1032	7. 28	·00878			
3. 51	17. 5	3. 53	·1064	9. 40	·00846			
4. 34	13. 30	4. 17	·1046	10. 25	·00768			
5. 0	15. 0	4. 45	·1071	14. 23	·00943			
7. 13	7. 50	5. 14	·1056	20. 2	·01543			
8. 48	10. 0	5. 35	·1079	20. 16	·01525			
9. 23	7. 10	5. 47	·1066	22. 49:	·01498			
9. 38	14. 30		***	23. 59:	·01400			
9. 46	11. 0	6. 5	·1070					
10. 5	9. 0	6. 25	·1050					
10. 34	2. 0		***					
12. 28	7. 45	8. 15	·1049					
13. 1	5. 35	8. 30	·1042					
13. 23·	8. 0	9. 4	·1042					
13. 52	7. 10		***					
14. 12	8. 35	9. 40	·1052					
14. 53	6. 30	9. 45	·1046					
15. 28	9. 0	10. 0	·1050					
17. 22	7. 35	10. 26	·1035					
18. 18	3. 5	10. 43	·1042					
	***	11. 10	·1035					
21. 1	3. 10	11. 30	·1043					
23. 59	13. 50	12. 36	·1035					
		13. 3	·1038					
		13. 20	·1036					
		14. 0	·1046					
		15. 20	·1035					
			***					
		17. 21	·1043					
		18. 50	·1032					
		20. 8	·1014					
			***					
		21. 37	·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.
h m	° ′ ″	July 2 h m		h m		July 3 h m	°	°
		23. 40	·1020					
		23. 55	·1016					
			***					
July 3		July 3		July 3		July 3		
0. 30	22. 15. 40	0. 15	·1024	0. 30	·01342	10. 20	68 ·0	71 ·0
1. 42	17. 0	0. 25	·1021	1. 17:	·01220	21. 40	63 ·5	64 ·3
5. 53	7. 0		***	2. 47	·00853			
9. 0	7. 30	1. 23	·1020	2. 58	·00882			
9. 13	6. 30		***	5. 38	·00970			
11. 47	9. 0	2. 15	·1033		·01060			
19. 50	6. 0	2. 34	·1028	6. 17	·00971			
21. 31	6. 50	3. 45	·1038	8. 17	·00922			
23. 59	15. 5		***	11. 8	·00938			
		5. 57	·1036	15. 0:	·01180			
			***	18. 25	·01660			
		7. 20	·1044	22. 53	·01620			
		7. 53	·1038	23. 59:	·01522			
			***					
		8. 42	·1048					
		9. 5	·1040					
		9. 30	·1048					
		11. 25	·1038					
		12. 0	·1042					
		13. 0	·1037					
		18. 35	·1040					
		19. 12	·1036					
		19. 40	·1024					
		23. 20	·1012					
		23. 59	·1016					
July 4		July 4		July 4		July 4		
0. 31	22. 15. 35	0. 15	·1017	0. 15	·01465	1. 40	70 ·0	70 ·5
5. 52	8. 35	4. 40	·1026	2. 35	·01010	3. 40	70 ·0	73 ·0
10. 18	8. 45	4. 47	·1031	3. 36	·01058	9. 40	72 ·0	75 ·0
15. 36	8. 20	6. 34	·1032	7. 0	·01030	21. 40	65 ·5	67 ·5
18. 10	5. 20	7. 47	·1041	7. 5	·01118			
20. 0	4. 30	8. 45	·1036	8. 20:	·01086			
22. 23	8. 50	18. 35	·1040	10. 44:	·01142			
23. 59	14. 10	21. 45	·1021	15. 20	·01720			
		23. 30	·1030	23. 30	·01640			
		23. 34	·1032					
		23. 55	·1036					
July 5		July 5		July 5		July 5		
0. 10	22. 14. 30	0. 10	·1034	0. 0	·01621	1. 40	67 ·5	70 ·0
1. 29	16. 0	2. 37	·1046	2. 50:	·01508	3. 40	70 ·5	72 ·0
5. 4	10. 30	5. 50	·1043	5. 36	·00997	9. 49	72 ·6	74 ·2
8. 25	8. 30	6. 30	·1047	6. 14:	·01025	21. 40	65 ·0	68 ·0
9. 47	10. 25	6. 40	·1043	7. 48:	·01004			
12. 50	8. 0	9. 5	·1036	9. 25:	·01032			
13. 36	6. 25	10. 16	·1041	12. 52:	·01132			
	***		***	17. 2	·01738			
15. 18	6. 40	13. 0	·1045	21. 57	·01690			
15. 58	8. 30	13. 4	·1037	23. 59:	·01550			
18. 40	4. 0	13. 13	·1044					
23. 20	11. 30	13. 34	·1042					
23. 59	13. 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.
July 5		July 5						
h m	° ′ ″	h m		h m		h m	°	°
		14. 20	·1046					
		18. 30	·1040					
		21. 10	·1024					
		23. 0	·1030					
			***					
		23. 59	·1030					
July 6		July 6		J 6		July 6		
0. 5	22. 13. 40	0. 0	·1030	0. 35:	·01480	1. 40	71 ·4	74 ·0
1. 13	15 30		***	2. 40	·01060	3. 40	72 ·0	74 ·5
2. 52	16 30	1. 30	·1033	6. 10	·01006	10. 17	75 ·8	77 ·0
5. 46	11. 30	1. 55	·1035	10. 52:	·01075	21. 40	68 ·0	70 ·0
7. 10	10. 0	2. 7	·1028	14. 50:	·01440			
13. 46	9. 30	5. 30	·1030	16. 57	·01820			
17. 2	6. 35	7. 15	·1034	17. 15	·01748			
18. 29	3. 10		***	22. 16	·01730			
19. 42	3. 0	8. 40	·1035	23. 59:	·01608			
22. 17	7. 0	8. 46	·1046					
23. 59	12. 30	9. 17	·1038					
			***					
		13. 0	·1040					
		14. 20	·1046					
		15. 53	·1040					
		17. 0	·1042					
		19. 20	·1037					
		23. 13	·1020					
		23. 59	·1020					
July 7		July 7		July 7		July 7		
0. 35	22. 14. 0	0. 15	·1020	0. 30:	·01575	1. 40	70 ·0	73 ·0
2. 50	14. 5	1. 15	·1026	2. 48	·01100	3. 40	76 ·5	79 ·0
3. 40	12. 15	1. 44	·1033	4. 1	·01152	9. 40	79 ·5	80 ·7
9. 8	8. 20	4. 35	·1031	8. 37	·01115	21. 40	72 ·8	73 ·0
10. 58	10. 10	7. 30	·1034	9. 42	·01148			
17. 7	7. 0	8. 35	·1029	10. 35	·01136			
17. 30	5. 20	16. 15	·1034	13. 1:	·01232			
20. 5	3. 30	17. 45	·1042	17. 12	·01860			
20. 33	5. 0	20. 0	·1034	21. 2	·01742			
21. 6:	4. 30	21. 40	·1032	23. 59	·01738			
21. 33	7. 40	22. 14	·1040					
21. 44	6. 45		***					
23. 59	15. 0	23. 50	·1033					
July 8		July 8		July 8		July 8		
0. 43	22. 17. 25	0. 0	·1038	0. 20	·01725	1. 40	74 ·0	77 ·0
1. 55	20. 5		***	1. 50	·01627	3. 40	76 ·0	78 ·5
2. 47	18. 0	0. 30	·1033	5. 8	·01122	9. 40	79 ·5	82 ·3
3. 57	18. 5	0. 45	·1040	6. 38	·01162	21. 40	70 ·7	74 ·0
4. 12	19. 20	1. 0	·1041	11. 15	·01082			
5. 15	12. 50	1. 15	·1044	14. 5:	·01355			
6. 2	11. 0	1. 44	·1040	16. 53	·01782			
8. 22	9. 20	2. 20:	·1024	23. 59	·01634			
10. 13	10. 20	3. 10:	·1045					
12. 55	9. 0	3. 50	·1032					
16. 4	10. 0	4. 10	·1042					
16. 41	8. 0	4. 50	·1010					
17. 3	9. 0	5. 35	·1024					
17. 58	5. 50	7. 20	·1030					

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 8		July 8						
h m	° ′ ″	h m		h m		h m	°	°
19. 4	22. 4. 10	8. 35	·1024					
21. 33	5. 40	10. 45	·1023					
23. 57	14. 20	11. 15	·1027					
		19. 20	·1036					
		21. 40	·1028					
		22. 30	·1031					
		23. 5	·1026					
		23. 59	·1026					
July 9		July 9		July 9		July 9		
0. 3	22. 14. 30	0. 5	·1024	0. 15	·01638	1. 40	70 ·0	73 ·0
2. 23	18. 5	1. 0	·1030	1. 43	·01665	3. 40	71 ·8	73 ·7
6. 24	11. 0	3. 8	·1032	8. 37:	·01448	9. 40	72 ·0	73 ·0
8. 52	11. 35	3. 17	·1042	12. 26	{·01765	23. 37	64 ·0	66 ·0
10. 20	8. 25	4. 3	·1028		{·01685			
12. 3	10. 40		***	13. 23	·01692			
13. 15	10. 20	4. 45	·1040	15. 15	{·01690			
13. 32:	12. 45	5. 15	·1036		{·01490			
13. 51	11. 0		***	16. 16	·01641			
14. 28	11. 35	8. 30	·1046	20. 30	·01646			
15. 5	9. 0	10. 8	·1028	23. 59	·01602			
15. 47	9. 25	12. 20	·1038					
17. 53	6. 30	12. 46	·1034					
19. 53	5. 15	13. 58	·1046					
23. 59	14. 0	15. 44	·1042					
		19. 32	·1045					
		22. 45	·1024					
		23. 13	·1028					
		23. 30	·1024					
		23. 59	·1024					
July 10		July 10		July 10		July 10		
0. 5	22. 14. 10	0. 0	·1024	0. 20	·01603	11. 36	67 ·0	69 ·0
1. 30	17. 50	0. 17	·1028	3. 0	·01507	21. 40	64 ·5	66 ·5
5. 20	13. 0	1. 30:	·1018	10. 36	·00986			
	***		***	12. 0	·00983			
8. 47	10. 40	3. 45	·1044	12. 20	·00918			
9. 19	5. 25	4. 3	·1053	15. 1	·01250			
10. 30	7. 30	4. 30	·1046	16. 40	{·01582			
10. 44	6. 0		***		{·01555			
11. 17:	10. 50	5. 30	·1054	19. 19	{·01590			
11. 50	8. 30	6. 10	·1068		{·01497			
12. 15	17. 0	6. 38	·1050	22. 0:	·01542			
13. 4	0. 30	7. 4	·1062	23. 59:	·01440			
13. 40:	3. 0	7. 45	·1048					
14. 6	1. 10		***					
14. 58	2. 30	8. 47	·1047					
15. 30	12. 0	9. 15	·1036					
16. 33	3. 0		***					
17. 48	3. 40	9. 53	·1033					
18. 23	2. 25	10. 20	·1038					
21. 10	8. 0	10. 40	·1032					
22. 27	13. 0	11. 4	·1040					
23. 59	16. 0	11. 50	·1032					
		12. 5	·1060					
		12. 57	·1023					
		14. 4	·1021					
		14. 34	·1032					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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	° ′ ″	July 10 h m		h m		h m	°	°
		15. 9	·1010					
		16. 4	·1043					
			***					
		18. 35	·1046					
		21. 57	·1016					
			***					
		23. 0	·1016					
		23. 52	·1024					
		23. 59	·1024					
July 11		July 11		July 11		July 11		
0. 37	22. 15. 30	0. 34	·1024	0. 20	·01413	1. 40	65·8	67·7
1. 28	17. 0	0. 58	·1031	4. 8	·01158	3. 40	67·5	68·5
3. 30	16. 30	1. 30	·1026	6. 40	·00848	9. 40	70·0	72·3
6. 40	11. 0	2. 17	·1030	10. 0	·00820	21. 40	63·0	66·0
9. 28	10. 40	3. 40	·1048	12. 35	·00823			
10. 15	12. 40	4. 4	·1044	15. 28	·00995			
11. 16	10. 10		***	20. 0	·01601			
11. 23	11. 10	7. 8	·1040	20. 30	·01565			
13. 8	9. 0		***	22. 44	·01570			
13. 50	9. 10	9. 53	·1042	23. 59	·01530			
14. 2	10. 40	10. 2	·1044					
14. 21	9. 0	11. 8	·1034					
15. 23	9. 30		***					
15. 29	10. 25	12. 34	·1032					
15. 44	8. 30	12. 55	·1034					
16. 58	9. 0	13. 50	·1032					
17. 10	7. 45		***					
18. 29	11. 30	16. 14	·1042					
	***		***					
19. 22	8. 30	18. 30	·1032					
	***	19. 30	·1014					
20. 0	12. 30	20. 20	·1026					
20. 42	9. 0	20. 47	·1016					
21. 42	11. 0	21. 35	·1021					
22. 8	8. 10	22. 23	·1010					
22. 43	15. 20	22. 45	·1024					
23. 24	14. 30	22. 58	·1013					
23. 35	12. 0	23. 30	·1014					
23. 57	13. 30	23. 43	·1026					
		23. 53	·1028					
July 12		July 12		July 12		July 12		
0. 12	22. 14. 30	0. 0	·1026	0. 35	·01460	1. 40	66·0	68·4
0. 35	17. 10	0. 5	·1024	1. 55	·01242	3. 40	70·0	72·0
1. 47	20. 15	1. 10	·1010	3. 19	·00922	10. 40	73·0	75·0
1. 54	24. 40	1. 17	·1014	4. 21	·00987	21. 40	64·0	66·0
2. 4	22. 25	1. 28	·1004	4. 29	·01040			
2. 28	22. 0	1. 45	·1010	4. 38	·00976			
2. 48	24. 40	1. 55	·1038		***			
3. 10	21. 0		***	6. 35	·01092			
3. 28	23. 20	2. 26	·1010	6. 54	·01168			
4. 6	15. 0		***	7. 2	·01156			
4. 24	17. 10	2. 50	·1040		***			
4. 28	21. 40	3. 8	·1022	7. 46	·01330			
4. 45	15. 0		***		***			
4. 48	18. 40	3. 30	·1042	8. 47	·01120			
5. 0	14. 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.
July 12 h m	° ′ ″	July 12 h m		July 12 h m		h m	°	°
5. 13	22. 17. 0	3. 55	·1024	9. 49	·01078			
5. 16	16. 0	4. 3	·1023	9. 55	·01000			
5. 33	20. 40	4. 15	·1048	10. 2	·01095			
5. 46	14. 20	4. 20	·1040	10. 23	·01080			
6. 1	19. 40	4. 29	·1106	10. 57	·00540			
6. 6	18. 25	4. 38	·1054	11. 2	·00592			
6. 18	22. 10		***	11. 18	·00255			
	***	4. 45	·1068		(†)			
6. 44	13. 35	4. 54	·1032	11. 37	·00255			
	***		***	11. 42	·00353			
7. 1	16. 40	5. 8	·1060	11. 47	·00292			
7. 13	10. 0	5. 15	·1050	11. 58	·00662			
7. 25	23. 15	5. 17	·1060		***			
7. 37	7. 50	5. 22	·1049	13. 20	·01155			
7. 56	16. 0		***		***			
	***	5. 25	·1056	15. 37	·01520			
8. 12	4. 35	5. 30	·1044	16. 2	·01508			
8. 33	13. 15	5. 34	·1052	16. 30	·01390			
8. 36	10. 15	5. 38	·1045	17. 13	·01380			
8. 47	18. 0	5. 50	·1091	18. 0	·01541			
9. 2	19. 25		***	18. 5	·01472			
9. 17	15. 20	6. 2	·1096	18. 7	·01522			
	***	6. 12	·1076	18. 11	·01467			
9. 54	15. 0	6. 16	·1086	18. 21	·01508			
	***	6. 32	·1020	18. 24	·01461			
10. 1	6. 30	6. 56	·1110	18. 26	·01485			
10. 4	13. 0	7. 15	·1070	18. 34	·01430			
10. 14	5. 45	7. 17	·1081	18. 38	·01490			
10. 29	1. 30	7. 30	·1026	21. 40	·01582			
10. 40	22. 13. 25	7. 34	·1036		***			
11. 3	21. 47. 30	7. 38	·1022	23. 59	·01590			
11. 7	51. 15	7. 45	·1080					
11. 10	21. 47. 0	7. 47	·1070					
11. 32	22. 41. 0	7. 52	·1080					
11. 35	22. 41. 0		***					
11. 45	21. 39. 10	8. 14	·1028					
11. 48	41. 30	8. 17	·1046					
11. 53	34. 35		***					
	***	8. 27	·1050					
12. 13	21. 51. 0	8. 33	·1044					
	***	8. 40	·1081					
12. 44	22. 7. 45	8. 49	·1064					
12. 47	5. 0	8. 55	·1076					
14. 55	9. 50	9. 8	·1053					
13. 2	2. 40		***					
13. 12	13. 0	9. 30	·1063					
13. 16	5. 15	9. 34	·1086					
13. 20	7. 30		***					
13. 28	2. 0	9. 46	·1072					
13. 34	9. 0	9. 54	·1086					
	***	9. 59	·1004					
13. 58	1. 35	10. 4	·1038					
14. 12	7. 50	10. 7	·1031					
14. 16	5. 30	10. 15	·1044					
14. 22	9. 40	10. 18	·1033					
14. 27	5. 15	10. 25	·1046					
14. 32	7. 50	10. 28	·1034					
14. 34	5. 0	10. 33	·1056					

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.
July 12		July 12						
h m	° ′ ″	h m		h m		h m	°	°
14. 42	22. 8. 0	10. 59	·0958					
14. 51	4. 0	11. 4	·0984					
14. 55	4. 30	11. 8	·0966					
14. 58	0. 0	11. 10	·0974					
15. 7	5. 0	11. 14	·0964					
15. 11	3. 20	11. 20	·1020					
15. 13	4. 30	11. 32	·0978					
15. 21	0. 0	11. 44	·0994					
15. 28	4. 10	11. 49	·0976					
15. 30	2. 20	11. 55	·0991					
15. 34	22. 4. 35	11. 59	·0981					
15. 59	21. 57. 0	12. 2	·0991					
16. 21	22. 18. 5	12. 5	·0984					
16. 34	8. 0	12. 9	·0994					
16. 37	10. 0	12. 14	·0980					
16. 41	8. 0	12. 16	·0986					
16. 45	10. 0		***					
17. 4	4. 0	12. 45	·0996					
17. 8	10. 0	12. 47	·0986					
17. 14	2. 10	12. 53	·0998					
17. 38	22. 2. 0	12. 56	·0984					
17. 47	21. 56. 50	13. 8	·1005					
17. 53	22. 0. 0	13. 14	·0990					
17. 57	21. 57. 30	13. 18	·1013					
18. 3	22. 12. 0	13. 29	·0996					
18. 5	21. 57. 45	13. 32	·1006					
18. 7	22. 0. 20	13. 35	·0996					
18. 9	21. 53. 30		***					
18. 13	22. 2. 20	13. 48	·1004					
18. 15	21. 58. 15		***					
18. 17	22. 4. 30	14. 8	·1003					
18. 18	2. 0	14. 14	·0997					
18. 21	6. 30	14. 20	·1008					
18. 27	5. 20	14. 25	·0996					
	***	14. 30	·1008					
18. 33	6. 20	14. 34	·1000					
18. 38	8. 0		***					
	***	14. 40	·1008					
19. 33	2. 30	14. 46	·1002					
19. 44	8. 10	14. 55	·1004					
19. 46	7. 0	14. 58	·0996					
19. 48	8. 0	15. 4	·1004					
19. 52	7. 0	15. 8	·0996					
19. 53	9. 45		***					
19. 54	7. 10	15. 28	·1009					
19. 58	10. 30	15. 30	·1001					
20. 2	6. 30	15. 34	·1004					
20. 4	10. 25	16. 17	·0954					
20. 7	6. 0	16. 43	·1013					
20. 14	9. 20		***					
20. 18	4. 30	17. 10	·0986					
20. 21	7. 0		***					
20. 23	5. 10	17. 38	·0996					
20. 28	8. 10	17. 44	·0992					
20. 31	6. 0	18. 0	·1030					
	***	18. 4	·0984					
21. 22	5. 25		***					
21. 53	8. 20	18. 10	·0982					

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						
h m	° ′ ″	h m		h m		h m	°	°
22. 0	22. 6. 30		***					
	***	18. 20	·1018					
22. 17	9. 15	18. 23	·0990					
22. 26	6. 35	18. 26	·1007					
22. 28	10. 0		***					
22. 32	7. 50	18. 53	·0982					
23. 43	13. 0		***					
23. 59	13. 30	19. 51	·0974					
		20. 0	·0978					
		20. 17	·0972					
			***					
		20. 28	·0982					
		20. 34	·0974					
			***					
		21. 34	·0990					
		22. 3	·0979					
		22. 13	·0982					
		22. 23	·0978					
		22. 29	·0982					
		22. 31	·0976					
			***					
		22. 47	·0981					
		22. 50	·0976					
		23. 10	·0984					
		23. 28	·0980					
		23. 34	·0986					
		23. 42	·0984					
		23. 59	·0986					
July 13		July 13		July 13		July 13		
0. 20	22. 14. 30	0. 10	·0988	0. 30:	·01563	1. 40	65 ·0	68 ·0
1. 6	15. 50	1. 30	·1012	2. 35:	·01330	3. 40	69 ·5	72 ·2
3. 23	14. 0	2. 9	·1006	4. 10	·00955	9. 40	71 ·5	73 ·0
6. 11	8. 30	2. 30	·1016	6. 14	·01038	21. 40	64 ·0	66 ·0
6. 35	9. 20	2. 46	·1012	8. 13	·01013			
6. 43	11. 45	3. 35	·1012	9. 20	·01020			
7. 6	8. 40		***	10. 21	·00944			
8. 8	11. 10	5. 55	·1013	14. 15:	·01162			
8. 47	10. 50		***	18. 2	·01672			
9. 15	3. 0	6. 30	·1022	22. 53	·01567			
10. 6	11. 20	6. 45	·1024	23. 59	·01573			
10. 18	9. 0	6. 53	·1046					
10. 36	9. 35	7. 5	·1026					
11. 2	5. 20		***					
11. 14	7. 15	7. 40	·1020					
11. 23	7. 0	7. 44	·1024					
11. 35	8. 50	8. 2	·1018					
11. 57	8. 50	9. 0	·1024					
12. 22	6. 0	9. 20	·1052					
13. 0	6. 30	9. 57	·1048					
13. 48	10. 30	10. 13	·1032					
14. 10	11. 0	10. 21	·1032					
14. 32	9. 0	10. 45	·1016					
15. 7	9. 0		***					
15. 15	10. 40	11. 15	·1012					
16. 17	7. 30		***					
19. 15	9. 0	11. 55	·1017					
19. 33	7. 50		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 13		July 13						
h m	° ′ ″	h m		h m		h m	°	°
19. 54	22. 9. 30	12. 30	·1016					
20. 5	8. 0	12. 50	·1010					
21. 0	9. 0	13. 8	·1013					
23. 16	13. 0	13. 30	·1006					
23. 59	15. 20	13. 42	·1014					
			***					
		14. 9	·1012					
		15. 13	·1018					
		15. 15	·1013					
		15. 30	·1018					
			***					
		16. 32	·1015					
		19. 56	·1018					
		22. 8	·1010					
		23. 15	·1008					
			***					
		23. 59	·1012					
July 14		July 14		July 14		July 14		
0. 15	22. 16. 15	0. 20	·1012	0. 30	·01575	1. 40	66 ·0	68 ·0
2. 47	18. 35	1. 15	·1014	3. 2	·01602	3. 40	69 ·0	70 ·5
3. 8	18. 0		***	***		9. 40	63 ·5	66 ·0
3. 36	19. 30	3. 0	·1022	7. 35	·01622	21. 40	61 ·0	62 ·5
4. 12	17. 30		***	10. 5	·01630			
4. 17	20. 15	4. 3	·1044	14. 40	·01548			
4. 25	17. 40	4. 14	·1040	21. 0	·01525			
4. 47	16. 50	4. 25	·1048	22. 48	·01505			
4. 52	19. 30	5. 3	·1016	23. 30	·01470			
5. 7	14. 45	5. 18	·1032					
5. 20	15. 30	5. 24	·1024					
	***	5. 30	·1030					
6. 19	12. 0	5. 38	·1020					
6. 28	13. 10		***					
7. 5	12. 50	6. 14	·1045					
7. 43:	14. 30	6. 15	·1040					
8. 16:	12. 30	6. 20	·1046					
8. 43:	14. 0	6. 25	·1038					
9. 31	11. 30	6. 31	·1057					
11. 35	11. 30	6. 49	·1034					
12. 0:	10. 0	7. 4	·1040					
13. 8	12. 0	7. 14	·1064					
17. 13	9. 0	7. 23	·1050					
17. 42	11. 0	7. 30	·1063					
18. 0	9. 50	7. 50	·1048					
18. 6	11. 35	8. 14	·1048					
18. 13	8. 50	8. 30	·1054					
19. 52	8. 0	8. 58	·1042					
19. 57	10. 30	9. 25	·1036					
20. 16	8. 35		***					
21. 8	10. 30	11. 4	·1038					
21. 14	9. 0	11. 29	·1042					
21. 50	13. 0	12. 3	·1040					
22. 38	10. 15	13. 45	·1034					
23. 31	13. 30	18. 0	·1042					
		18. 4	·1050					
		18. 9	·1042					
		19. 40	·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.
		July 13						
h m	° ′ ″	h m		h m		h m	°	°
		20. 20	·1034					
		20. 30	·1040					
		21. 25	·1032					
		21. 42	·1021					
		22. 14	·1028					
		23. 4	·1031					
		23. 14	·1028					
		23. 28	·1028					
July 15		July 15		July 15		July 15		
0. 0	22. 14. 30	0. 13	·1032	0. 18	·01405	1. 40	63 ·5	65 ·0
1. 32	16. 45	1. 9	·1038	4. 20	·00938	3. 40	64 ·5	67 ·2
1. 42	15. 10		***	5. 52	·00800	9. 40	64 ·0	67 ·0
1. 57	14. 30	1. 34	·1046	6. 35	·00815	21. 40	60 ·0	63 ·0
2. 43	16. 0	1. 45	·1038	7. 17	·00788			
	***	2. 44	·1054	7. 34	·00810			
3. 51	14. 0	2. 53	·1066		***			
4. 8:	12. 30		***	8. 23	·00762			
4. 38	17. 0	3. 30	·1022	10. 18	·00750			
5. 0	14. 50	3. 50	·1043	14. 8:	·01030			
5. 4	15. 30	4. 0	·1038	17. 17	·01503			
5. 33	12. 0	4. 27	·1043	17. 26	·01483			
6. 0	13. 50	4. 40	·1052	19. 0	·01480			
6. 20	13. 10	4. 57	·1040	19. 6	·01435			
6. 32	14. 20	5. 9	·1040	21. 13:	·01472			
7. 0	12. 0	5. 15	·1032	23. 59	·01328			
7. 17	13. 0	5. 45	·1040					
7. 34	6. 30	5. 57	·1036					
8. 7:	11. 30	6. 16	·1042					
8. 30	9. 30	6. 30	·1052					
8. 45	10. 10		***					
9. 15	8. 10	7. 24	·1036					
10. 0	12. 0	7. 53	·1078					
11. 46	12. 0	7. 59	·1070					
12. 17	10. 0	8. 3	·1086					
12. 30	11. 30		***					
13. 1	9. 25	9. 4	·1048					
13. 8	10. 40	9. 13	·1038					
13. 55	11. 0		***					
14. 31	8. 50	11. 15	·1043					
15. 10	9. 50	11. 30	·1036					
17. 15	8. 15	12. 24	·1036					
17. 48	6. 0	12. 50	·1047					
19. 47	5. 20	13. 15	·1033					
21. 15	10. 0	13. 55	·1038					
21. 30	8. 50	21. 30	·1028					
21. 44	11. 0		***					
23. 59	15. 0	22. 50	·1030					
		23. 18	·1026					
		23. 59	·1027					
July 16		July 16		July 16		July 16		
0. 13	22. 15. 30	0. 0	·1028	0. 10	·01317	1. 40	62 ·5	65 ·5
1. 25	17. 50		***	1. 30:	·01240	3. 40	63 ·5	65 ·5
2. 55	18. 25	1. 45	·1028	4. 0:	·01002	9. 40	63 ·5	66 ·5
4. 36	16. 0	3. 0	·1037	5. 32	·00942	23. 15	63 ·5	66 ·0
5. 12	12. 30	3. 23	·1044	8. 5	·00768			
6. 2	12. 0	4. 23	·1046	10. 53	·00703			

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.
July 16		July 16		July 16				
h m	° ′ ″	h m		h m		h m	°	°
7. 16	22. 11. 30	4. 53	·1036	14. 56	·00810			
9. 3	11. 10	5. 25	·1046	20. 30:	·01105			
10. 10	12. 10	6. 17	·1042	23. 59:	·00880			
10. 35	11. 30	6. 45	·1048					
10. 56	8. 0	7. 30	·1044					
11. 32	10. 50	7. 47	·1048					
12. 10	8. 50	8. 5	·1042					
12. 32	10. 10	8. 44	·1046					
12. 48	9. 0	9. 10	·1040					
13. 15	8. 30	9. 34	·1042					
13. 36	13. 30	9. 40	·1052					
14. 5	11. 0	9. 53	·1044					
15. 6	8. 10	10. 12	·1047					
16. 7	8. 0	10. 45	·1042					
17. 10	6. 0	11. 2	·1046					
18. 3	9. 0		***					
19. 2	4. 50	12. 30	·1046					
20. 43	8. 0	13. 45	·1034					
21. 55	8. 10	14. 40	·1046					
23. 59	15. 0	15. 32	·1040					
		17. 15	·1038					
		17. 50	·1035					
		18. 40	·1046					
		23. 0	·1016					
			***					
		23. 59	·1015					
July 17		July 17		July 17		July 17		
0. 15	22. 15. 15	0. 0	·1015	1. 8	·00670	9. 53	69 ·0	70 ·0
1. 0	16. 20	1. 14	·1022	1. 12	·00700	21. 40	62 ·0	64 ·0
1. 16	15. 30	2. 46	·1028	6. 12:	·00868			
4. 55	14. 30	3. 0	·1040	8. 10	·00860			
5. 26	14. 30	3. 23	·1044	9. 20	·00915			
8. 53	10. 0	3. 30	·1040	10. 50	·00890			
9. 22:	7. 50	3. 45	·1046	12. 8	·00910			
9. 54	10. 0		***	12. 38	·00882			
10. 18	9. 45	5. 0	·1032	16. 37	·01315			
10. 30	10. 30		***	17. 44	·01515			
11. 0	9. 25	6. 0	·1046	19. 45	·01418			
11. 27	10. 25	6. 30	·1028	22. 8	·01498			
11. 47	9. 30	6. 55	·1044	23. 59	·01462			
12. 17	16. 50	7. 4	·1038					
13. 4	8. 25	7. 20	·1040					
13. 52	6. 20	7. 50	·1033					
14. 28	7. 5	9. 14	·1032					
14. 37	6. 30	9. 55	·1038					
15. 6	8. 20	10. 19	·1034					
15. 44:	15. 50		***					
16. 36	5. 40	11. 11	·1040					
17. 17	6. 0	11. 26	·1044					
17. 51	8. 30	11. 55	·1036					
	***	12. 15	·1046					
18. 25	9. 20	12. 50	·1040					
	***	14. 16	·1044					
18. 46	14. 0	15. 0	·1036					
19. 6	11. 10	16. 15	·1048					
19. 34	10. 40	16. 50	·1032					
19. 48	8. 5	17. 33	·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.	Readings of Thermometers. Of V. F. Magnet.
July 17		July 17						
h m	° ′ ″	h m		h m		h m	°	°
20. 4	22. 7. 0	17. 44	·1036					
20. 10	8. 35		***					
20. 22	6. 45	19. 27	·1042					
20. 31	8. 20		***					
21. 4	7. 0	20. 8	·1048					
23. 59	13. 10	21. 15	·1032					
		23. 11	·1013					
		23. 59	·1016					
July 18		July 18		July 18		July 18		
0. 25	22. 13. 40	0. 0	·1016	0. 20	·01450	1. 40	63 ·0	65 ·0
1. 28	16. 0	0. 37	·1014	3. 8:	·01317	3. 40	65 ·5	67 ·3
2. 18	16. 40	1. 0	·1021	7. 46	·00805	9. 40	65 ·5	67 ·7
5. 37	13. 25		***	9. 33:	·00840	21. 40	63 ·5	65 ·5
6. 52	11. 0	2. 50	·1021	11. 10:	·00818			
9. 26	10. 0		***	14. 19:	·00933			
10. 38	11. 30	4. 15	·1030	20. 48:	·01350			
11. 58	10. 30	4. 17	·1024	23. 30	·01310			
12. 16	11. 50	4. 20	·1030					
12. 55	9. 25	4. 45	·1030					
16. 30	9. 15		***					
17. 30	7. 20	7. 2	·1044					
18. 35	7. 45	10. 15	·1034					
19. 24	6. 10	11. 50	·1038					
20. 23	8. 0	12. 10	·1044					
21. 44	8. 0	13. 30	·1034					
23. 59	14. 15	18. 19	·1037					
		21. 40	·1020					
		22. 43	·1018					
		23. 30	·1022					
		23. 44	·1024					
		23. 59	·1029					
July 19		July 19		July 19		July 19		
0. 6	22. 14. 40	0. 0	·1029	0. 15	·01250	1. 40	64 ·8	67 ·0
0. 40	16. 0	0. 40	·1035	2. 2	·01070	3. 40	65 ·7	67 ·7
1. 8	15. 0	2. 5	·1024	3. 39	·00841	9. 40	69 ·0	72 ·0
2. 30	16. 10	5. 30	·1032		·00858	21. 40	64 ·0	65 ·0
4. 57	11. 5	5. 50	·1026	7. 31	·00941			
6. 22	10. 0		***	11. 16	·00941			
15. 23	10. 10	8. 14	·1036	14. 54:	·01085			
15. 53	11. 10	10. 50	·1030	18. 52	·01602			
16. 52	9. 10	16. 10	·1039	21. 40	·01505			
	***	20. 17	·1030	23. 5	·01585			
19. 50	7. 40	23. 0	·1014	23. 59	·01505			
20. 53	9. 25	23. 38	·1016					
21. 34	9. 10	23. 59	·1016					
23. 12	14. 50							
23. 59	16. 30							
July 20		July 20		July 20		July 20		
0. 31	22. 18. 0	0. 0	·1016	0. 18	·01530	1. 40	65 ·0	67 ·0
0. 58	17. 20	0. 35	·1018	2. 16	·01225	3. 40	67 ·8	70 ·3
2. 6	19. 15	0. 55	·1014	3. 43	·00948	9. 40	69 ·0	72 ·0
7. 42	7. 10	1. 30	·1022	5. 30	·01025	21. 40	63 ·0	65 ·0
8. 7	8. 0	2. 23	·1020	6. 46	·01010			
16. 21	9. 25	3. 50	·1028	6. 50	·01082			
17. 56	6. 25	4. 30	·1024	8. 15	·00980			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 20		July 20		July 20				
h m	° ′ ″	h m		h m		h m	°	°
18. 47	22. 5. 50	6. 16	·1037	10. 28:	·00998			
20. 54	7. 0	7. 45	·1038	14. 13:	·01260			
23. 25	14. 0	8. 38	·1030	17. 51	·01658			
23. 58	14. 15	10. 5	·1028	23. 0	·01595			
		10. 20	·1032	23. 59	·01560			
		17. 30	·1040					
		21. 40	·1024					
		23. 38	·1026					
July 21		July 21		July 21		July 21		
0. 15	22. 15. 0	0. 8	·0974	0. 30	·01552	1. 40	65 ·0	68 ·0
1. 28	17. 10	0. 40	·0968	3. 16:	·01430	3. 40	68 ·3	71 ·2
2. 28	17. 0	1. 27	·0978	7. 8	·00930	9. 40	69 ·5	71 ·2
6. 7	9. 10		***	11. 36	·00928	21. 40	65 ·0	67 ·0
9. 8	10. 0	1. 53	·0974	14. 47:	·01072			
12. 50	10. 40		***	18. 28:	·01322			
16. 55	7. 10	3. 30	·0980	23. 59	·01561			
17. 25	5. 10	4. 16	·0976					
	***	6. 55	·0983					
19. 20	4. 0	9. 35	·0979					
	***	17. 20	·0996					
20. 8	6. 0	19. 20	·0998					
	***	20. 15	·0968					
20. 27	9. 25	21. 55	·0959					
	***	22. 40	·0958					
20. 48	8. 0	23. 23	·0966					
22. 43	14. 30	23. 59	·0972					
23. 2	17. 45							
23. 59	18. 45							
July 22		July 22		July 22		July 22		
0. 20	22. 19. 10	0. 12	·0976	0. 15	·01430	1. 40	67 ·0	69 ·2
0. 30	20. 0		***	2. 42	·01355	3. 40	68 ·0	70 ·0
1. 38	22. 25	1. 15	·0970		***	9. 40	69 ·0	72 ·0
2. 12	20. 40	1. 23	·0968	5. 53	·01334	21. 40	63 ·0	65 ·0
2. 28	21. 10	1. 40	·0976	8. 20	·01328			
2. 46	20. 20	2. 14	·0970	9. 19	·01095			
3. 3	22. 30		***	12. 21	·00950			
3. 10	21. 15	3. 19	·0998	14. 22	·00937			
3. 16	24. 0		***	17. 14	·01141			
3. 20	23. 10	3. 35	·0964	20. 54	·01611			
3. 26	24. 40	3. 55	·0988	21. 3	·01590			
3. 32	23. 45	4. 3	·0980		***			
3. 52	26. 35	4. 15	·0988	22. 45	·01593			
4. 2	25. 15	4. 34	·0978	23. 59	·01460			
4. 8	27. 0		***					
4. 15	26. 10	5. 53	·0994					
4. 21	26. 50	6. 8	·0978					
4. 32	24. 50	6. 45	·1008					
4. 38	25. 45	7. 10	·1002					
4. 55	23. 10	7. 23	·1006					
5. 18	23. 10	7. 34	·0997					
5. 26	25. 0		***					
5. 45	20. 0	7. 50	·1008					
5. 52	21. 30		***					
6. 19	17. 0	8. 26	·1001					
7. 20	13. 10	8. 34	·0991					
7. 27	13. 45	8. 43	·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.
July 22		July 22						
h m	° ′ ″	h m		h m		h m	°	°
7. 40	22. 8. 50	8. 46	·0998					
7. 51	11. 0		***					
8. 0	7. 0	9. 0	·1010					
8. 3	8. 0	9. 19	·0972					
8. 13	5. 50		***					
8. 30	22. 9. 0	10. 4	·0980					
8. 42	21. 59. 45	10. 43	·0977					
8. 53	22. 11. 0	11. 14	·0986					
8. 57	10. 0	11. 33	·0982					
9. 6	11. 50	11. 47	·1001					
9. 23	3. 10	12. 15	·0988					
9. 31	6. 30	13. 11	·0979					
10. 36	11. 45	13. 35	·0990					
10. 53	8. 0	14. 0	·0979					
11. 32	9. 35	16. 0	·0975					
11. 48	4. 55	16. 53	·0982					
11. 57	10. 15	17. 4	·0979					
12. 22:	0. 20	17. 16	·0984					
12. 52	4. 30		***					
13. 51	8. 5	18. 5	·0976					
14. 38	5. 0	18. 38	·0978					
15. 12	6. 45		***					
16. 24	5. 25	19. 8	·0973					
16. 48	2. 50	19. 18	·0965					
17. 0	4. 25	19. 36	·0970					
17. 31	0. 15	21. 35	·0943					
	***		***					
17. 54	2. 20	23. 15	·0946					
18. 32	2. 5		***					
18. 43	5. 45	23. 42	·0968					
18. 47	4. 0	23. 45	·0960					
18. 54	6. 15	23. 47	·0966					
19. 0	4. 0							
19. 12	6. 0							
19. 19	4. 0							
19. 50	8. 0							
20. 26	6. 45							
20. 32	3. 0							
20. 43	2. 50							
20. 55	11. 15							
21. 2	7. 40							
	***							
21. 27	12. 30							
21. 35	10. 0							
21. 50	12. 30							
21. 55	11. 0							
	***							
22. 8	11. 0							
	***							
22. 42	15. 45							
	***							
22. 51	12. 50							
	***							
23. 13	14. 50							
	***							
23. 30	12. 0							
	***							
23. 43	16. 0							
	***							

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

July 21^{d} 0^{h} 8^{m}. Horizontal Force. The force at this time seems to have decreased by 0·005 suddenly, but it is suspected that the lid of the box was in contact with the suspension, or that there was some other cause of disturbance, which continued till after July 26^{d} at 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.
July 22 h m	° ′ ″	h m		h m		h m	°	°
23. 58	22. 13. 30							
	***							
July 23		July 23		July 23		July 23		
0. 4	22. 13. 30	2. 3	·0964	0. 20	·01390	1. 40	69 ·2	72 ·3
	***	2. 17	·0956	2. 6	·01021	3. 40	72 ·3	73 ·0
0. 29	18. 0	3. 45	·0959	2. 25	·01065	9. 40	73 ·0	73 ·0
0. 46	14. 10		***	3. 0	·01043	23. 10	63 ·0	65 ·0
1. 14	16. 10	4. 23	·0950					
1. 23	19. 30	4. 35	·0965	4. 14	{ ·01100			
	***				{ ·01238			
		4. 50	·0954	5. 0	·01137			
			***		***			
2. 30	22. 30							
2. 58	20. 0	5. 15	·0958	7. 7	·01065			
3. 20	15. 0	5. 23	·0968	10. 53	·01120			
3. 35	17. 0		***	13. 12:	·01352			
	***	5. 45	·0962	15. 15	·01620			
5. 29	11. 30		***	16. 49	·01622			
	***	6. 15	·0972	17. 43	·01580			
7. 7	9. 45	6. 27	·0968	23. 23	·01567			
7. 21	5. 35	6. 34	·0979					
	***	6. 44	·0968					
8. 9	6. 0	6. 46	·0978					
8. 20	4. 30	7. 10	·0959					
8. 53	7. 50		***					
9. 3	7. 0	7. 40	·0974					
9. 20	8. 50	8. 0	·0960					
10. 4	8. 15		***					
10. 22	11. 0	9. 20	·0961					
10. 43	10. 50		***					
11. 2	6. 30	10. 45	·0973					
11. 20	10. 10		***					
11. 30	10. 30	11. 2	·0962					
11. 45	12. 30	11. 20	·0974					
12. 30	5. 20	11. 30	·0970					
13. 3	3. 30	12. 8	·0963					
14. 3	6. 30	12. 40	·0972					
	***	13. 0	·0968					
15. 20	4. 0	13. 45	·0956					
15. 52	8. 30	14. 20	·0968					
16. 6	6. 45		***					
17. 3	7. 30	15. 3	·0969					
17. 33	14. 25	15. 30	·0963					
	***		***					
18. 45	6. 0	17. 8	·0970					
19. 5	7. 15	17. 30	·0979					
19. 21	5. 35	17. 45	·0966					
	***		***					
20. 2	8. 20	18. 35	·0975					
	***		***					
20. 25	6. 45	19. 20	·0964					
20. 27	8. 30	19. 40	·0966					
20. 42	5. 30	20. 0	·0956					
20. 51	8. 10	20. 30	·0953					
	***	21. 30	·0958					
21. 43	11. 15	21. 40	·0952					
22. 0	7. 25	21. 47	·0958					
22. 10	6. 50	22. 0	·0954					
22. 27	9. 0	22. 20	·0966					

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 23 h m	° ′ ″	July 23 h m		h m		h m	°	°
23. 48	22. 10. 0	22. 43	·0959					
			***					
		23. 59	·0961					
July 24		July 24		July 24		July 24		
0. 28	22. 12. 0	0. 0	·0960	0. 0	·01580	10. 45	70 ·5	72 ·0
	***	0. 43	·0965	1. 17	·01600	21. 40	62 ·0	65 ·0
2. 2	16. 35	0. 50	·0960	4. 26:	·01350			
3. 25	16. 0		***	7. 40	·00970			
4. 36	11. 15	1. 20	·0973	9. 35:	·00985			
4. 52	11. 30	1. 45	·0964	13. 44	·00945			
5. 27	10. 20	2. 20	·0967	19. 8	·01605			
5. 58	11. 35	3. 10	·0974	23. 59	·01525			
7. 12	10. 0	3. 20	·0984					
8. 7	6. 30	3. 34	·0970					
8. 35	9. 0	3. 45	·0974					
9. 43	6. 20	4. 0	·0968					
10. 13	9. 0	4. 27	·0974					
11. 30	7. 10	4. 38	·0968					
11. 48	13. 0	5. 10	·0979					
12. 17	9. 10	6. 15	·0978					
12. 32	10. 0	6. 20	·0974					
12. 49	7. 50		***					
14. 18	5. 0	6. 54	·0990					
15. 48	6. 35	7. 16	·0980					
16. 38	9. 15		***					
17. 41	7. 0	8. 14	·0991					
18. 48	4. 50	8. 40	·0976					
19. 28	6. 25	9. 4	·0986					
19. 43	5. 5		***					
20. 23	6. 30	9. 38	·0980					
20. 50	4. 0	9. 45	·0984					
21. 11	6. 0		***					
21. 28	4. 20	10. 34	·0972					
23. 12	11. 30		***					
23. 35	11. 30	11. 45	·0963					
23. 59	13. 0	12. 6	·0966					
		12. 36	·0974					
			***					
		13. 30	·0977					
		14. 25	·0970					
		16. 0	·0970					
		16. 15	·0966					
		18. 0	·0975					
			***					
		19. 11	·0962					
		20. 12	·0958					
		20. 30	·0968					
		20. 53	·0963					
		21. 8	·0966					
		22. 10	·0961					
		23. 25	·0960					
July 25		July 25		July 25		July 25		
0. 17	22. 14. 0	1. 20	·0964	0. 10	·01515	1. 40	67 ·7	69 ·0
1. 35	14. 0		***	0. 54:	·01438	3. 40	70 ·0	71 ·3
1. 50	14. 40	3. 43	·0968	3. 27	·00950	9. 40	70 ·0	72 ·0
5. 27	9. 50		***	6. 45:	·01025	21. 40	64 ·0	66 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 25		July 25		July 25				
h m	° ′ ″	h m		h m		h m	°	°
6. 30	22. 7. 20	4. 25	·0962	11. 6:	·01012			
9. 8	9. 30		***	14. 57	·01598			
10. 35	7. 30	5. 20	·0976	15. 15	·01572			
10. 47	8. 0	5. 28	·0974	16. 47	·01593			
11. 5	4. 45	5. 40	·0982	23. 59	·01563			
12. 0	7. 45	5. 58	·0973					
12. 50	6. 10	6. 55	·0982					
14. 2	9. 10	7. 16	·0979					
14. 47	13. 30	7. 30	·0983					
15. 25	9. 0	8. 0	·0980					
17. 27	6. 30	9. 5	·0984					
18. 38	6. 25	9. 20	·0979					
19. 58	4. 0	10. 45	·0978					
21. 5	6. 40	11. 8	·0994					
22. 2	7. 0	11. 44	·0980					
23. 15	11. 0	12. 5	·0982					
23. 59	13. 30	13. 30	·0974					
		14. 25	·0976					
		15. 8	·0986					
		15. 30	·0981					
		19. 5	·0984					
		23. 59	·0972					
July 26		July 26		July 26		July 26		
0. 16	22. 14. 15	0. 0	·0972	0. 15	·01558	1. 40	65 ·0	67 ·0
1. 12	15. 30	1. 25	·1012	2. 43	·01470	3. 40	67 ·0	69 ·0
4. 29	7. 45	2. 42	·1033	8. 42	·00902	9. 40	68 ·3	69 ·7
5. 49	11. 0	2. 53	·1026	9. 55	·00920	21. 40	64 ·0	65 ·7
7. 44	11. 10	3. 24	·1030	11. 53	·00854			
8. 0	10. 0		***	13. 39	·00866			
8. 12	10. 50	4. 30	·1020	15. 22	·00940			
8. 30	8. 0	4. 40	·1031	20. 32:	·01290			
8. 50	1. 45	5. 0	·1026	23. 59	·01342			
9. 16	4. 30		***					
9. 28	4. 0	5. 35	·1034					
10. 6	9. 25	5. 47	·1030					
10. 36	4. 20		***					
11. 12	5. 0	6. 28	·1032					
11. 47	2. 5	6. 32	·1038					
12. 46	12. 0	6. 50	·1032					
13. 18	12. 20		***					
13. 54	6. 35	7. 50	·1042					
14. 32:	16. 0	8. 17	·1040					
14. 47	10. 35	8. 38	·1030					
15. 4	8. 15	9. 9	·1045					
15. 12	8. 50	9. 40	·1024					
15. 28	5. 50	10. 38	·1026					
15. 43	7. 10	11. 3	·1014					
16. 0	5. 40	11. 30	·1021					
	***	12. 0	·1013					
17. 47	6. 15	12. 25	·1014					
	***		***					
18. 12	7. 45	13. 23	·1028					
	***	13. 38	·1025					
18. 47	8. 0	14. 1	·1035					
18. 54	5. 30		***					
	***	14. 24	·1035					
19. 13	6. 30	14. 41	·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.
July 26		July 26						
h m	° ′ ″	h m		h m		h m	°	°
19. 22	22. 9. 15	14. 50	·1032					
19. 25	7. 0	15. 4	·1024					
19. 35	8. 15		***					
19. 46	6. 45	16. 28	·1032					
	***		***					
20. 32	9. 45	19. 30	·1018					
20. 33	8. 25	19. 45	·1014					
21. 15	7. 20		***					
21. 26	9. 10	21. 40	·1008					
21. 40	7. 30	21. 50	·1014					
22. 59	11. 10	22. 33	·1002					
23. 35	10. 35	23. 30	·1002					
23. 57	12. 0	23. 58	·1004					
July 27		July 27		July 27		July 27		
0. 0	22. 11. 30	0. 46	·1001	0. 32	·01325	1. 40	66 ·0	68 ·0
1. 28	15. 25	1. 8	·1002	3. 8:	·01200	3. 40	68 ·3	70 ·5
2. 37	16. 0	1. 15	·0996		{·00956	9. 47	71 ·7	73 ·0
4. 56	14. 50	1. 40	·1006	4. 44	{·00981	21. 40	67 ·3	68 ·7
5. 32	12. 50	3. 0:	·1010	8. 36:	·01035			
6. 6	13. 10	3. 40	·1033	11. 17	·00958			
6. 43	10. 45	4. 0	·1012	14. 55	·01020			
7. 7	11. 0		***	16. 47	·01170			
7. 35	6. 50	5. 0	·1022	23. 20	·01596			
7. 45	7. 10		***	23. 59	·01604			
7. 56	5. 10	5. 36	·1020					
8. 43	9. 30	6. 10	·1036					
9. 31	10. 45	6. 30	·1030					
9. 44	12. 40	6. 53	·1035					
9. 53	11. 10	7. 4	·1030					
10. 20	11. 50	7. 15	·1032					
10. 44	9. 45	7. 24	·1023					
10. 55	11. 50		***					
11. 22	9. 50	7. 40	·1032					
12. 44	7. 0	7. 50	·1030					
13. 56	10. 10	8. 4	·1037					
14. 8	13. 35	9. 0	·1022					
	***	9. 20	·1024					
15. 22	10. 30	9. 34	·1021					
15. 45	8. 10	9. 40	·1024					
17. 23	5. 25	9. 50	·1018					
18. 2	6. 0		***					
18. 44	9. 0	10. 40	·1022					
	***	10. 54	·1033					
19. 13	6. 10	11. 14	·1020					
	***	11. 45	·1018					
19. 55	7. 25	12. 8	·1026					
20. 37	11. 5	12. 45	·1016					
20. 43	8. 25	13. 54	·1018					
21. 54	10. 0	14. 3	·1014					
22. 3	9. 10	14. 9	·1018					
23. 59	9. 40		***					
		15. 15	·1028					
		16. 15	·1024					
			***					
		19. 20	·1022					
		19. 34	·1018					
		20. 0	·1026					

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	° ′ ″	July 27 h m		h m		h m	°	°
		21. 50	·1022					
		22. 30	·1028					
		23. 30	·1022					
		23. 59	·1026					
July 28		July 28		July 28		July 28		
0. 21	22. 14. 35	0. 0	·1026	0. 30	·01613	1. 40	68 ·0	69 ·5
1. 22	14. 30	1. 30	·0998	2. 12	·01597	3. 40	71 ·0	72 ·3
1. 57	16. 0		***	4. 40	·01287	9. 40	69 ·0	72 ·0
2. 15	15. 10	2. 26	·1005	7. 28	·01102	21. 40	67 ·0	70· 0
2. 18	16. 30	2. 35	·1000	10. 54:	·00980			
3. 13	15. 20	2. 50	·1010	17. 0:	·01230			
3. 20	16. 25	3. 7	·1002	22. 36:	·01625			
3. 43	15. 0	3. 32	·1016	23. 51	·01549			
4. 24	15. 25	4. 0:	·1006					
4. 40	13. 50	4. 30	·1024					
5. 34	13. 5	4. 46	·1014					
5. 47	11. 30	5. 10	·1027					
6. 6	11. 50		***					
6. 21	9. 15	6. 5	·1030					
6. 35	2. 10	6. 15	·1022					
7. 7	9. 0	6. 33	·1028					
7. 40	10. 15	6. 45	·1053					
8. 10	9. 30	7. 20	·1028					
8. 43	11. 10		***					
9. 28	10. 35	8. 17	·1012					
9. 44	13. 0		***					
10. 10	11. 0	9. 27	·1015					
10. 31	11. 50	9. 45	·1022					
11. 52	9. 0	10. 4	·1014					
12. 47	9. 40		***					
13. 13	14. 0	10. 38	·1022					
13. 24	12. 30	10. 52	·1016					
13. 32	13. 0	12. 15	·1010					
13. 48	11. 0	12. 40	·1014					
13. 55	11. 30	12. 46	·1010					
15. 1	4. 50	13. 28	·1012					
16. 22	9. 30	13. 41	·1006					
17. 46	6. 25	14. 28:	·1024					
19. 0	6. 0	15. 23	·1008					
19. 23	7. 30	16. 2	·1013					
19. 32	5. 40	16. 38	·1006					
19. 45	7. 45		***					
19. 50	6. 30	18. 23	·1014					
21. 17	7. 10	20. 9	·1001					
23. 30	13. 10		***					
23. 59	13. 0	22. 30	·0998					
		22. 34	·1002					
		23. 14	·0988					
		23. 59	·0994					
July 29		July 29		July 29		July 29		
0. 21	22. 14. 30	0. 0	·0994	0. 6	·01550	1. 40	69 ·0	72 ·0
2. 40	16. 10		***	1. 8	·01520	3. 40	69 ·0	72 ·0
2. 55	14. 30	2. 25	·1013	2. 37	·01368	9 ·40	70 ·0	72 ·5
4. 25	14. 0	2. 38	·1020	4. 53	·01010	21. 40	64 ·0	66 ·0
6. 16	13. 25	3. 5	·1002	9. 14	·00981			
7. 0	11. 40	4. 15	·1006		(†)			

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	° ′ ″	July 29 h m		July 29 h m		h m	°	°
7. 30	22. 6. 25	4. 50	·1022	9. 40	·00951*			
8. 5	9. 30	5. 30	·1014		(†)			
8. 55	9. 35	5. 42	·1019	21. 40	·01393			
	(†)	6. 0	·1014		(†)			
9. 40	9. 7*		***					
	(†)	6. 25	·1025					
21. 40	9. 47*	6. 34	·1018					
	(†)		***					
		7. 4	·1022					
		7. 16	·1016					
		7. 45	·1030					
		7. 53	·1024					
		8. 9	·1022					
		8. 20	·1026					
		9. 0	·1020					
		9. 23	·1030					
		9. 34	·1024					
			(†)					
		9. 40	·1023*					
			(†)					
		21. 40	·1006*					
			(†)					
July 30		July 30		July 30		July 30		
1. 40	22. 14. 49*	1. 40	·1012*	1. 40	·01396*	1. 40	65 ·0	67 ·0
	(†)		(†)		(†)	3. 40	66 ·3	65 ·7
3. 40	12. 16*	3. 40	·1010*	3. 40	·01094*	9. 55	68 ·0	69 ·7
	(†)		(†)		(†)	23. 15	63 ·0	65 ·5
6. 36	9. 25	6. 5	·1018	6. 0	·00980			
7. 51	9. 0		***	9. 8	·01062			
8. 8	7. 0	8. 14	·1022		·01277			
8. 18	7. 0	8. 30	·1007	10. 8	·01175			
8. 32	4. 0	8. 45	·1017	13. 42:	·01240			
8. 47	6. 50	9. 40	·1016	18. 14	·01690			
9. 21	9. 40	9. 55	·1022	22. 31	·01772			
10. 33	10. 45	10. 20	·1014	23. 59	·01615			
11. 27	8. 50	10. 45	·1020					
11. 43	10. 0		***					
11. 53	9. 20	12. 32	·1022					
13. 18	8. 10	12. 43	·1026					
13. 37	9. 30	13. 30	·1014					
14. 48	8. 20	14. 55	·1012					
15. 14	9. 10	18. 0	·1022					
15. 32	12. 0	23. 23	·0998					
16. 15	9. 0	23. 46	·1002					
20. 0	4. 50							
	***							
21. 35	7. 0							
21. 55	8. 30							
23. 5	10. 5							
23. 50	13. 0							
July 31		July 31		July 31		July 31		
1. 13	22. 14. 35	0. 5	·0997	0. 15:	·01602	11. 48	70 ·4	72 ·0
2. 6	16. 30	1. 0	·1007	2. 33:	·01353	21. 40	67 ·0	68 ·2
	***	2. 0	·1006	4. 18	·01045			
5. 42	13. 0	2. 58	·1016	7. 7	·01150			
6. 23	10. 40	3. 26	·1015	8. 32	·01155			
7. 5	2. 15	3. 45	·1020	8. 37	·01265			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 July 29^{d}. 9^{h} to July 30^{d}. 6^{h} there were no Photographic Registers, owing to the gas being cut off.

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 31		July 31		July 31				
h m	° ′ ″	h m		h m		h m	°	°
	***	4. 14	·1012	10. 22	·01158			
8. 17	22. 5. 30		***	12. 55	·01095			
8. 48	9. 0	4. 49	·1022	16. 10	·01190			
			***	23. 0	·01556			
12. 32	9. 10	5. 4	·1016	23. 59	·01532			
12. 52	14. 20	5. 19	·1026					
13. 27	9. 30	5. 24	·1020					
13. 47:	12. 40	6. 17	·1028					
14. 28	9. 25	6. 40	·1017					
15. 10	12. 0	7. 2	·1041					
15. 46	8. 50	7. 11	·1036					
18. 0	12. 0	7. 20	·1044					
18. 25	8. 15		***					
	***	8. 30	·1010					
22. 25	9. 0		***					
23. 59	12. 10	10. 35	·1008					
			***					
		12. 15	·1013					
		12. 30	·1022					
		13. 29	·1010					
		13. 50	·1018					
		14. 20	·1012					
		15. 34	·1015					
		16. 10	·1008					
		17. 45	·1004					
		19. 8	·1010					
		20. 45	·0998					
		22. 0	·1002			Aug. 1		
			***			1. 40	68 ·0	70 ·0
		23. 59	·1001			3. 40	70 ·0	74 ·0
						9. 40	74 ·0	75 ·0
Aug. 1		Aug. 1		Aug. 1		21. 40	67 ·0	69 ·5
0. 7	22. 12. 0	0. 5	·1002	0. 30	·01525			
1. 16	15. 10	0. 45	·0998	2. 5:	·01435			
2. 33	13. 30		***	3. 26	{·01150 ·01172			
2. 49	11. 40	3. 33	·1012					
3. 5	12. 10		***	3. 44	{·01170 ·01285			
4. 35	8. 10	4. 40	·1001					
6. 35	7. 15	5. 10	·1006	4. 24	·01212			
9. 21	9. 0		***	4. 37	·01224			
11. 47	6. 35	6. 36	·1001	5. 0	·01218			
14. 16	11. 20		***	5. 15	·01240			
15. 17	7. 20	7. 0	·1006	5. 54	·01212			
18. 25	6. 0	7. 26	·0997	6. 20	·01267			
21. 37	7. 0	7. 45	·1002	6. 47	·01258			
23. 50	11. 40	8. 38	·1000	10. 20	·01285			
			***	11. 53	·01490			
		11. 0	·1012	14. 55	·01788			
		11. 18	·1009	19. 0	·01814			
		12. 13	·1014	23. 53	·01722			
		12. 33	·1010					
		13. 20	·1008					
		14. 33	·1018					
		15. 20	·1015					
		16. 31	·1018					
			***					
		17. 35	·1022					
		20. 16	·1012					
		22. 0	·0998					

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. 1 h m		h m		h m	°	°
		23. 24	·0998					
		23. 46	·1002					
		Aug. 2		Aug. 2		Aug. 2		
0. 34	22. 14. 30	0. 0	·1004	0. 15	·01757	1. 40	69 ·0	72 ·0
2. 7	16. 55	1. 24	·1011	2. 5:	·01590	3. 40	71 ·0	74 ·0
3. 52	12. 40	2. 15	·1002	5. 10	·01140	9. 40	70 ·0	73 ·0
8. 38	9. 0	3. 33	·1020	6. 56	·01150	21. 40	64 ·0	66 ·7
8. 51	9. 45	6. 30	·1016	7. 8	·01258			
9. 25	7. 25	7. 40	·1020	8. 1	·01247			
10. 42	9. 20	8. 27	·1018	12. 0	·01430			
13. 12	8. 10	10. 38	·1025	13. 46	·01570			
15. 24	11. 50	13. 5	·1024	16. 7	·01857			
17. 28	6. 30	15. 3	·1020	20. 37	·01768			
19. 46	6. 0	17. 16	·1031	23. 53	·01725			
21. 7	9. 30	20. 26	·1016					
23. 50	12. 35	23. 33	·1008					
		23. 34	·1014					
		23. 45	·1012					
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 0	22. 13. 20	1. 0	·1009	0. 15	·01696	1. 40	69 ·0	71 ·0
1. 25	15. 45	1. 50	·1018	2. 17:	·01472	3. 40	72 ·5	73 ·3
4. 57	12. 0		***	4. 37	·01148	9. 40	74 ·0	75 ·4
5. 56	8. 35	2. 46	·1015	6. 5:	·01202	21. 40	64 ·0	66 ·0
13. 18	10. 15	2. 58	·1006	8. 46:	·01179			
19. 48	6. 10	3. 9	·1012	9. 54	·01230			
20. 43	8. 35	4. 0	·1012	10. 9	·01350			
22. 7	8. 0	4. 13	·1006	12. 20:	·01562			
23. 59	12. 10	4. 41	·1005	14. 31	·01862			
		5. 0	·1014	14. 50	·01841			
			***	19. 55	·01810			
		6. 0	·1014	23. 59:	·01674			
		6. 30	·1006					
		6. 45	·1006					
		7. 35	·1017					
		7. 45	·1012					
		8. 29	·1012					
		8. 40	·1015					
		8. 53	·1008					
		10. 56	·1010					
		12. 20	·1018					
		18. 35	·1023					
		21. 34	·1010					
		23. 34	·1006					
		23. 59	·1005					
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 38	22. 12. 50	0. 25	·1004	0. 15:	·01610	1. 40	68 ·0	70 ·0
6. 12	7. 15	4. 0	·1014	1. 45:	·01478	3. 40	72 ·5	73 ·3
12. 51	8. 50	6. 16	·1008	3. 50	·01095	9. 40	74 ·0	77 ·3
13. 34	7. 30	13. 0	·1016	5. 28	·01162	21. 40	67 ·0	69 ·0
16. 28	8. 30	19. 15	·1018	7. 27	·01188			
18. 43	7. 10	22. 0	·1008	9. 2	·01278			
20. 34	5. 40	23. 59	·1006	13. 6:	·01538			
23. 59	14. 45			15. 19	·01843			
				18. 15	·01805			
				23. 59	·01648			

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. 5		Aug. 5		Aug. 5		Aug. 5		
h m	° ′ ″	h m		h m		h m	°	°
0. 20	22. 16. 0	0. 0	·1006	0. 15	·01640	9. 40	66 ·8	69 ·5
1. 16	18. 0	3. 15	·1022	2. 32	·01450	21. 40	67 ·0	69 ·0
3. 38	15. 0	9. 15	·1016	5. 38	·01067	1. 40	69 ·0	71 ·5
6. 0	8. 40	11. 45	·1025	7. 0	·01060	3. 40	62 ·0	64 ·0
11. 20	10. 0	14. 0	·1025	9. 53:	·01035			
17. 6	7. 0	17. 0	·1034	14. 13:	·01400			
17. 34	5. 15	22. 53	·1014	16. 27	·01730			
21. 15	8. 10	23. 30	·1012	16. 35	·01711			
23. 59	14. 10	23. 58	·1016	18. 54	{·01695 ·01578			
				20. 13	·01668			
				21. 40	·01641			
				23. 59	·01530			
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
0. 13	22. 14. 30	0. 15	·1018	0. 15	·01490	1. 40	65 ·0	67 ·7
10. 32	9. 50	3. 40	·1022	3. 3	·00957	3. 40	71 ·3	72 ·0
11. 14	7. 15	5. 15	·1034	5. 20	·01029	9. 40	71 ·0	73 ·0
11. 45	8. 20	5. 25	·1032	9. 2	·01078	23. 7	63 ·0	65 ·0
12. 0	11. 35	6. 8	·1032	12. 15	·01050			
12. 50	3. 50	6. 30	·1038	15. 20:	·01192			
15. 17	9. 15	7. 5	·1040	19. 11	·01727			
17. 3	6. 15	7. 14	·1034		***			
17. 58	9. 25	7. 25	·1046	21. 30	·01638			
18. 58	19. 50	8. 0	·1034	23. 20	·01664			
20. 2	11. 45	8. 13	·1038					
20. 13	14. 10	8. 50	·1023					
20. 25	11. 30	9. 30	·1022					
21. 2	12. 0	10. 0	·1028					
21. 11	8. 40	10. 15	·1024					
21. 25	12. 35	11. 38	·1024					
21. 32	11. 0	11. 53	·1030					
	***	12. 30	·1024					
23. 19	13. 15	12. 54	·1022					
		13. 30	·1016					
		14. 29	·1023					
		14. 45	·1020					
		15. 53	·1026					
		16. 14	·1024					
		17. 10	·1024					
		17. 40	·1032					
		18. 33	·1016					
		19. 0	·1020					
		19. 40	·1036					
		20. 10	·1036					
		20. 21	·1030					
		20. 30	·1032					
		20. 53	·1026					
		21. 2	·1026					
		21. 7	·1020					
		21. 15	·1026					
		21. 30	·1016					
		21. 33	·1022					
		21. 46	·1018					
		21. 55	·1022					
		22. 5	·1014					
		22. 11	·1020					
		22. 16	·1012					
		22. 41	·1006					
		22. 46	·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.	Of V. F. Magnet.
h m	° ′ ″	Aug. 6 h m		h m		Aug. 7 h m	°	°
		23. 5	·1004					
		23. 15	·1008					
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
0. 3	22. 13. 45	0. 7	·1000	0. 15	·01687	10. 13	69 ·5	72 ·7
2. 7	12. 50	0. 30	·0998	2. 37:	·01587	21. 40	64 ·8	67 ·7
2. 52	15. 30	0. 55	·1003	5. 50	·01090			
4. 0	16. 10		***	8. 8	{·01100 ·01245			
8. 6	8. 0	2. 8	·0986					
11. 14	22. 8. 50	3. 15	·1019	10. 5:	·01192			
12. 5	21. 59. 10	3. 46	·1012	11. 57	·01287			
12. 22	22. 3. 30	4. 0	·1015	12. 47	·01261			
12. 44	16. 0	4. 28	·1004	16. 47	·01754			
13. 44	2. 30	5. 45	·1017	18. 45	·01720			
14. 8	6. 30	6. 32	·1016	23. 59	·01706			
15. 13	6. 0	6. 46	·1024					
16. 34	12. 40	7. 15	·1021					
17. 10	9. 0	7. 33	·1029					
18. 3	8. 10	8. 14	·1020					
18. 47	5. 10	9. 25	·1018					
20. 26	5. 50	9. 40	·1013					
23. 59	14. 0	10. 28	·1019					
		10. 53	·1015					
		11. 30	·1018					
		12. 0	·1008					
		12. 28	·1010					
		12. 38	·1004					
		13. 6	·1024					
		13. 30	·1006					
		14. 0	·1023					
		14. 38	·1016					
		15. 30	·1015					
		16. 55	·1024					
		17. 30	·1022					
		18. 4	·1026					
		19. 15	·1016					
		19. 27	·1018					
		21. 50	·1008					
		23. 20	·1005					
		23. 59	·1008					
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
0. 15	22. 14. 30	0. 0	·1008	0. 46	·01648	1. 40	66 ·0	69 ·0
2. 2	18. 0	0. 45	·1015	2. 5:	·01440	3. 40	70 ·0	73 ·0
6. 35	6. 35	1. 20	·1010	3. 38	·01082	9. 40	69 ·3	73 ·3
9. 28	9. 50		***	6. 6	·01135	21. 40	63 ·0	66 ·0
14. 1	8. 0	3. 15	·1010	8. 13	·01095			
14. 17	10. 35	3. 55	·1016	8. 48	·01172			
14. 47	10. 0	4. 20	·1012	10. 3:	·01255			
15. 23	14. 0		***	13. 34	·01790			
16. 20	7. 35	4. 46	·1018	16. 6	·01706			
16. 51	8. 15	5. 0	·1016	17. 48	·01722			
17. 10	6. 30	5. 8	·1020	19. 31	·01670			
18. 5	9. 0	5. 35	·1010	22. 3:	·01630			
18. 55	16. 30	5. 53	·1026	23. 59	·01455			
19. 52	7. 0	6. 15	·1012					
21. 1	8. 0	6. 40	·1005					
23. 59	14. 25	7. 44	·1016					
		8. 53	·1018					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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 denote 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	° ′ ″	Aug. 8 h m		h m		h m	°	°
		9. 4	·1016					
		9. 15	·1022					
		9. 35	·1014					
			***					
		12. 0	·1024					
		12. 44	·1022					
		13. 15	·1026					
			***					
		15. 5	·1020					
		16. 0	·1030					
		16. 55	·1028					
		17. 58	·1036					
		18. 20	·1032					
		18. 35	·1024					
		18. 50	·1022					
		19. 24	·1036					
			***					
		21. 20	·1018					
		22. 29	·1014					
		23. 14	·1004					
		23. 38	·1004					
		23. 52	·1008					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 5	22. 14. 30	0. 9	·1006	0. 30	·01380	1. 40	66 ·0	69 ·0
0. 54	18. 30	0. 30	·1004	2. 20	·00985	3. 40	71 ·3	73 ·0
2. 25	18. 10	0. 45	·1010	4. 36	·01105	9. 40	70 ·0	73 ·0
6. 44	8. 0	1. 8	·1002	9. 20	·01205	21. 40	62 ·0	65 ·0
9. 37	7. 15		***	13. 34	·01760			
10. 7	9. 0	1. 32	·1003	14. 17	·01697			
13. 24	9. 50	1. 55	·0998	21. 36	·01664			
13. 43	11. 30	2. 10	·1010	23. 59	·01443			
14. 25	7. 0	2. 40	·0990					
15. 32	11. 0	3. 37	·1012					
16. 7	7. 30	4. 5	·1002					
17. 7	9. 10		***					
18. 15	7. 0	6. 40	·1018					
19. 44	11. 50		***					
22. 4	9. 30	8. 4	·1010					
23. 59	13. 30	8. 55	·1019					
		9. 55	·1017					
			***					
		13. 0	·1023					
		13. 25	·1028					
		13. 38	·1033					
		14. 0	·1030					
		14. 17	·1032					
		14. 50	·1021					
		15. 30	·1024					
		15. 50	·1030					
		16. 20	·1024					
		17. 30	·1026					
		18. 16	·1019					
			***					
		19. 5	·1024					
			***					
		20. 40	·1016					
		22. 5	·1014					

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. 9 h m		h m		h m	°	°
		22. 20	·1020					
			***					
		23. 59	·1006					
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
0. 2	22. 13. 50	0. 17	·0998	0. 20	·01395	1. 40	65 ·0	66 ·0
2. 23	14. 15	0. 45	·0998	2. 32	·00970	3. 40	69 ·0	71 ·8
6. 2	8. 25	1. 0	·1000	5. 18	·01072	9. 40	68 ·5	72 ·0
8. 24	7. 0	1. 53	·1004	7. 39	·01028	21. 40	60 ·0	63 ·0
9. 2	8. 40	2. 15	·1001	10. 17	·01130			
14. 43	8. 15	7. 4	·1020	12. 35	·01375			
16. 33	9. 0	7. 43	·1017	14. 58	·01738			
19. 15	6. 10	18. 20	·1028	15. 30	·01704			
22. 30	7. 20	20. 40	·1022	20. 50	·01680			
23. 59	11. 10	22. 55	·1002	21. 6	·01630			
		23. 23	·1001	22. 46	·01588			
		23. 36	·1001	23. 25	·01467			
		23. 59	·1005					
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 8	22. 11. 20	0. 0	·1005	0. 0	·01397	1. 40	66 ·0	68 ·0
1. 58	15. 30	1. 53	·1012	1. 55	·00958	3. 40	69 ·0	71 ·0
5. 25	8. 50	2. 24	·1004	4. 41	·01096	9. 40	69 ·0	73 ·0
7. 7	7. 10	3. 32	·1008	7. 17	·01090	21. 40	60 ·0	63 ·0
9. 56	10. 0	3. 38	·1014	10. 2	·01187			
12. 17	7. 30	4. 5	·1010	12. 47	·01450			
15. 48	8. 0		***	14. 51	·01747			
16. 21	10. 30	5. 40	·1010	17. 13	·01684			
18. 17	4. 45	6. 20	·1019	21. 55	·01650			
20. 1	4. 0	8. 56	·1022	23. 59	·01610			
22. 47	6. 50	9. 30	·1032					
23. 59	10. 20	11. 20	·1030					
		19. 0	·1036					
		23. 5	·1020					
		23. 20	·1014					
		23. 59	·1012					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 14	22. 11. 30	0. 13	·1012	1. 0	·01534	1. 40	64 ·0	67 ·0
1. 58	13. 30	0. 25	·1008	2. 3	·01402	3. 40	67 ·0	70 ·0
3. 28	12. 10	0. 45	·1012	4. 1	·00970	9. 40	68 ·7	70 ·0
5. 0	7. 50	1. 20	·1012	5. 2	·01000	21. 20	62 ·0	65 ·0
6. 14	7. 0	1. 53	·1023	10. 5	·00960			
9. 17	9. 45	3. 42	·1023	13. 35	·01215			
15. 49	8. 20	3. 55	·1027	18. 38	·01712			
16. 35	9. 50	4. 45	·1020	19. 53	·01672			
18. 50	6. 30		***	23. 39	·01642			
23. 59	10. 40	7. 30	·1036					
		10. 20	·1030					
		12. 20	·1032					
		17. 5	·1037					
		23. 40	·1016					
		23. 59	·1018					
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 5	22. 11. 0	0. 0	·1018	0. 0	·01640	1. 40	65 ·5	68 ·3
2. 31	13. 35	2. 23	·1028	2. 8	·01492	3. 40	69 ·3	71 ·8
6. 6	10. 5	5. 53	·1036	4. 38	·00990	9. 40	66 ·8	69 ·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.
Aug. 13	° ′ ″	Aug. 13		Aug. 13		Aug. 13	°	°
h m		h m		h m		h m		
11. 58	22. 9. 0	6. 52	·1027	5. 23	·01022	23. 23	64 ·0	66 ·0
12. 10	11. 10	7. 25	·1038	9. 59:	·01040			
13. 3:	3. 30		***	14. 52	·01720			
14. 18	6. 40	7. 50	·1034	15. 14	·01687			
15. 18	6. 25	9. 50	·1036	20. 5	{·01650			
16. 25	6. 40	11. 0	·1042		{·01505			
19. 37	4. 40	11. 45	·1040	21. 30	·01530			
20. 7	8. 0	12. 16	·1047	23. 30	·01467			
20. 33	7. 40	13. 10	·1036					
21. 1	10. 0	13. 50	·1034					
21. 48	7. 30		***					
22. 2	10. 0	16. 0	·1044					
22. 40	10. 0		***					
23. 59	13. 30	18. 8	·1042					
		19. 30	·1040					
		19. 50	·1032					
		20. 45	·1033					
		21. 0	·1040					
		21. 45	·1040					
		22. 30	·1032					
		22. 50	·1038					
		23. 2	·1031					
		23. 10	·1033					
		23. 30	·1032					
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 5	22. 13. 30	0. 0	·1023	0. 30	·01417	10. 35	68 ·7	69 ·8
1. 12	15. 0	0. 45	·1022	3. 29:	·01218	21. 40	60 ·0	63 ·0
7. 23	7. 45	2. 15	·1032	5. 23	·00935			
10. 16	9. 30	3. 45	·1028	6. 5	·00970			
13. 47	8. 30	3. 55	·1031	7. 56	·00972			
14. 35	10. 0	4. 8	·1024	8. 36	·00997			
15. 39	8. 10	4. 30	·1026	14. 49	·01177			
16. 23	8. 35	4. 56	·1022	19. 15	·01757			
19. 52	6. 25	5. 10	·1032	22. 6	·01627			
21. 52	8. 50	5. 25	·1026	23. 59	·01615			
23. 25	13. 20	5. 45	·1030					
		5. 56	·1026					
		6. 50	·1035					
		7. 30	·1032					
		7. 39	·1035					
		8. 0	·1034					
		8. 15	·1028					
		10. 15	·1023					
		11. 40	·1026					
		12. 23	·1026					
		12. 38	·1023					
		14. 0	·1024					
		15. 11	·1028					
		22. 5	·1020					
		23. 38	·1022					
		23. 59	·1023					
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
1. 15	22. 14. 10	0. 50	·1018	0. 20	·01613	1. 40	62 ·0	64 ·0
2. 28	13. 30	6. 0	·1030	2. 24	·01572	3. 40	65 ·0	66 ·0
3. 33	10. 35	8. 0	·1038	6. 32	·01140	9. 40	63 ·0	65 ·0
6. 43	8. 30	16. 0	·1042	7. 31	·01096	21. 40	58 ·0	60 ·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.
Aug. 15	° ′ ″	Aug. 15		Aug. 15				
h m		h m		h m		h m	°	°
10. 11	22. 9. 0	16. 45	·1038	10. 47	·01152			
15. 38	8. 0	19. 15	·1040	13. 6	·01310			
16. 12	6. 30	22. 23	·1029	16. 56	{·01650			
19. 58	4. 50	23. 59	·1030		{·01627			
22. 13	8. 15			18. 3	{·01620			
23. 59	13. 5				{·01460			
				21. 0:	·01490			
				23. 59	·01377			
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 4	22. 13. 10	0. 0	·1030	0. 20	·01345	1. 40	62 ·0	64 ·0
2. 17	14. 35	0. 44	·1030	5. 8	·00886	3. 40	63 ·0	64 ·8
5. 25	10. 10	3. 5	·1050	6. 20:	·00835	9. 40	62 ·5	63 ·5
	(†)	6. 8	·1054	11. 23	·00861	21. 40	59 ·0	60 ·7
23. 43	10. 40	6. 20	·1058	14. 3	·00978			
23. 59	12. 30	6. 30	·1055	14. 11	·00925			
			***	20. 7:	·01210			
		10. 0	·1058	23. 59	·01152			
		10. 25	·1060					
		10. 40	·1052					
		10. 46	·1056					
		11. 28	·1049					
		11. 56	·1050					
		12. 17	·1053					
		12. 32	·1046					
			***					
		12. 50	·1042					
		13. 50	·1046					
		14. 13	·1040					
		15. 4	·1046					
			***					
		15. 44	·1038					
		15. 52	·1043					
		17. 4	·1044					
		17. 23	·1048					
		17. 50	·1047					
		18. 8	·1058					
		18. 27	·1052					
		18. 40	·1057					
			***					
		20. 40	·1040					
		21. 15	·1042					
			***					
		23. 30	·1032					
		23. 45	·1028					
		23. 57	·1030					
Aug. 17		Aug. 17		Aug. 17		Aug. 17		
0. 22	22. 14. 0	0. 0	·1027	0. 20	·01132	1. 40	63 ·0	65 ·0
1. 7	18. 40		***	1. 0	·01060	3. 40	68 ·0	69 ·0
2. 5	15. 30	0. 50	·1018	2. 2	·00860	9. 56	65 ·0	67 ·0
3. 10	15. 30	1. 10	·1030	4. 25:	·00993	21. 40	56 ·0	58 ·0
4. 10	12. 10	1. 27	·1016	7. 47	·00928			
6. 33	8. 30	1. 44	·1004	10. 15:	·01030			
9. 8	10. 0	1. 56	·1007	13. 54	·01648			
9. 22	8. 30	2. 11	·1004	14. 30	·01610			
10. 9	9. 45	2. 50	·1006	18. 30	·01555			
10. 32	8. 20	3. 15	·1012	20. 44	·01565			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.17		Aug.17		Aug.17				
h m	° ′ ″	h m		h m		h m	°	°
14. 8	22. 10. 35	4. 0	·1010	20. 55	·01484			
17. 25	7. 50		***	22. 35	·01462			
	***	4. 52	·1020	23. 40	·01390			
22. 13	8. 20	5. 15	·1014					
23. 59	12. 30		***					
		6. 20	·1026					
		6. 33	·1024					
		7. 35	·1036					
		7. 52	·1030					
		8. 0	·1034					
		8. 53	·1038					
		9. 0	·1032					
		9. 4	·1036					
		9. 14	·1028					
		9. 25	·1032					
		9. 57	·1030					
		10. 14	·1033					
		10. 20	·1028					
		10. 44	·1037					
		11. 0	·1030					
			***					
		12. 16	·1034					
		12. 44	·1027					
		13. 8	·1032					
		13. 46	·1036					
		15. 30	·1034					
		17. 5	·1040					
		19. 14	·1034					
		20. 50	·1022					
		21. 30	·1023					
		22. 35	·1012					
		23. 35	·1020					
		23. 45	·1054					
Aug.18		Aug.18		Aug.18		Aug.18		
0. 5	22. 12. 40	0. 10	·1036	0. 22	·01290	1. 40	60 ·5	62 ·0
1. 36	14. 15	0. 40	·1045	2. 58	·00896	3. 40	65 ·0	67 ·0
4. 45	9. 10	2. 53	·1047		·01075	9. 40	65 ·0	67 ·0
8. 44	10. 50	3. 35	·1052	3. 18	·01020	21. 40	63 ·0	65 ·0
9. 13	9. 35	5. 16	·1048		·01103			
10. 45	11. 5	5. 50	·1054	4. 35	·00840			
13. 48	10. 15		***	7. 44	·00788			
14. 7	12. 30	7. 5	·1052	8. 46	·00803			
14. 49	12. 0		***	11. 0	·00762			
15. 28	8. 50	11. 2	·1094	15. 32	·01090			
19. 38	8. 15	11. 45	·1092	18. 0:	·01442			
20. 32	9. 30	13. 30	·1096	19. 0	·01548			
23. 59	9. 30	16. 40	·1087	21. 47	·01520			
			***	23. 59	·01352			
		17. 52	·1096					
		18. 40	·1088					
		19. 0	·1094					
		19. 9	·1092					
		20. 10	·1094					
		20. 15	·1088					
		20. 25	·1094					
		20. 50	·1096					
		22. 15	·1091					

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.18 h m		h m		h m	°	°
		22. 45	·1094					
		22. 53	·1094					
Aug.19		Aug.19		Aug.19		Aug.19		
0. 18	22. 17. 0	0. 20	·1026		(†)	1. 40	65 ·0	67 ·0
1. 12	15. 20	1. 0	·1033	3. 30	·00973	3. 40	69 ·0	70 ·0
6. 19	12. 10	1. 30	·1032	8. 35	·00988	8. 40	70 ·0	72 ·0
6. 37	13. 5	1. 50	·1028	9. 4	·00970	21. 40	67 ·0	69 ·2
7. 5	10. 0	2. 0	·1032	10. 38	·00990			
8. 0	10. 0	2. 25	·1024	11. 0	·00965			
8. 22	7. 0	2. 34	·1027	11. 24	·01002			
8. 47	8. 30	2. 50	·1023	12. 1	·01000			
9. 23	7. 30		***	13. 3	·01070			
9. 34	9. 15	3. 30	·1033	13. 47	·01070			
10. 10	11. 30		***	18. 34:	·01477			
10. 30	11. 30	3. 49	·1046	23. 59	·01493			
10. 45	22. 15. 5	4. 14	·1018					
11. 13	21. 56. 20	4. 24	·1022					
11. 31	55. 0	5. 2	·1014					
12. 2	21. 56. 50		***					
13. 8	22. 10. 0	6. 3	·1046					
13. 34	10. 35	6. 14	·1023					
13. 44	9. 0	6. 32	·1038					
14. 15	11. 25	7. 5	·1016					
14. 58	6. 30	7. 30	·1032					
15. 14	7. 40	7. 46	·1018					
15. 51	6. 0		***					
16. 0	4. 10	8. 14	·1020					
16. 17	9. 25	8. 31	·1033					
16. 28	7. 10	9. 0	·1025					
16. 55	12. 0		***					
17. 16	9. 0	9. 33	·1042					
18. 40	7. 15	9. 45	·1036					
18. 50	10. 30	9. 56	·1039					
19. 24	7. 25	10. 8	·1032					
19. 38	9. 45	10. 20	·1041					
19. 50	8. 0	10. 30	·1035					
20. 35	9. 0	10. 40	·1062					
23. 7	15. 40	11. 0	·1034					
		11. 20	·1060					
		11. 29	·1056					
		11. 35	·1064					
			***					
		12. 0	·1028					
		12. 14	·1026					
			***					
		12. 32	·1020					
		12. 46	·1022					
		13. 0	·1039					
		13. 9	·1032					
		13. 40	·1027					
		13. 46	·1031					
		13. 53	·1026					
		14. 4	·1034					
		14. 15	·1031					
		14. 58	·1042					
			***					
		16. 0	·1040					

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	° ′ ″	Aug. 19 h m		h m		h m	°	°
		16. 4	·1047					
		16. 11	·1040					
		16. 46	·1048					
		17. 2	·1038					
			***					
		17. 46	·1048					
		17. 52	·1042					
		18. 11	·1042					
			***					
		18. 50	·1060					
		19. 2	·1044					
		21. 34	·1034					
		23. 50	·1032					
		23. 59	·1034					
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
1. 28	22. 18. 0	0. 10	·1146	0. 15	·01485	1. 40	69 ·0	70 ·7
1. 44	15. 50	1. 40	·1150	3. 13	·01378	3. 40	71 ·0	73 ·0
2. 2	16. 50	2. 25	·1142	5. 2	·01025	9. 40	69 ·4	71 ·0
3. 6	12. 50	2. 50	·1147		·01044	23. 0	65 ·0	66 ·0
4. 32	13. 0	3. 38	·1142	8. 23	·00981			
6. 0	5. 30	4. 22	·1158	10. 8:	·01070			
	***	5. 0	·1150	13. 13	·01668			
10. 16	5. 45	6. 0	·1156	14. 0	·01628			
11. 30	10. 0	6. 20	·1148	20. 50	·01607			
12. 0	8. 40	7. 5	·1150	23. 14:	·01638			
12. 13	9. 0	8. 30	·1129	23. 59:	·01572			
12. 32	7. 50	8. 45	·1130					
13. 6:	9. 50	9. 21	·1143					
13. 54	2. 20		***					
14. 24	1. 35	10. 27	·1130					
14. 38	3. 0		***					
15. 53:	9. 35	12. 0	·1144					
16. 46	5. 0		(†)					
17. 54	4. 30	23. 0	·1150*					
	(†)		(†)					
23. 0	13. 39*							
	(†)							
Aug. 21		Aug. 21		Aug. 21		Aug. 21		
9. 40	22. 15. 54*	9. 40	·1135*	0. 15	·01545	9. 40	68 ·0	69 ·0
21. 40	6. 41*	21. 40	·1108*	0. 51	·01445	21. 40	63 ·0	65 ·0
				2. 55	·00938			
				5. 25	·01010			
				7. 37	·00958			
				9. 15	·00970			
				10. 13	·00997			
				13. 57:	·01047			
				15. 50	·01262			
				19. 3	·01633			
				22. 23	·01647			
				23. 59:	·01567			
Aug. 22		Aug. 22		Aug. 22		Aug. 22		
1. 21	22. 17. 30	2. 15	·1126	0. 15	·01470	1. 40	66 ·0	68 ·5
2. 9	15. 10	3. 30	·1116	3. 0	·00972	3. 40	67 ·0	69 ·7
2. 16	17. 0	4. 20	·1122	3. 43	·01022	9. 40	68 ·5	70 ·0
2. 36	14. 0	4. 30	·1114	10. 52	·00970	21. 40	63 ·0	65 ·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.
Aug. 22		Aug. 22		Aug. 22				
h m	° ′ ″	h m		h m		h m	°	°
2. 53	22. 17. 0	4. 43	·1127	12. 2	·01025			
3. 13	12. 45	5. 8	·1107	12. 20	·01008			
3. 16	13. 0	5. 29	·1124	15. 49	·01355			
3. 43	7. 50	5. 38	·1119	18. 32	·01685			
4. 39	13. 0	5. 55	·1120	23. 59	·01588			
5. 8	8. 50	6. 3	·1126					
6. 47	9. 10	6. 38	·1118					
7. 32	4. 0		***					
8. 10	22. 7. 20	7. 23	·1120					
8. 26	21. 57. 0	7. 38	·1128					
	***	8. 0	·1124					
9. 24	22. 6. 10	8. 15	·1130					
	***	8. 23	·1126					
10. 21	5. 15	8. 33	·1149					
10. 34	6. 50	8. 52	·1136					
11. 18	5. 30		***					
14. 28	7. 30	9. 50	·1126					
	(†)	10. 0	·1130					
		10. 27	·1118					
			***					
		11. 0	·1130					
		11. 20	·1118					
		11. 29	·1120					
		11. 38	·1114					
			***					
		12. 0	·1119					
		13. 0	·1122					
		13. 20	·1130					
		14. 8	·1124					
		14. 30	·1128					
		15. 30	·1126					
		16. 23	·1112					
		16. 44	·1124					
		17. 35	·1128					
		17. 46	·1134					
		18. 0	·1130					
		18. 5	·1134					
		18. 47	·1134					
		19. 3	·1124					
		19. 40	·1128					
		21. 40	·1116					
			***					
		22. 10	·1114					
		22. 20	·1118					
		22. 35	·1117					
		23. 23	·1125					
		23. 45	·1126					
Aug. 23		Aug. 23		Aug. 23		Aug. 23		
1. 53	22. 18. 0	0. 15	·1122	0. 15	·01590	1. 40	63 ·0	66 ·0
5. 15	11. 40	1. 34	·1132	3. 50:	·01680	3. 40	64 ·0	66 ·5
5. 41	4. 50	1. 57	·1129	7. 10	·01531	9. 40	62 ·0	64 ·0
6. 43	8. 30	2. 20	·1142	8. 12	·01658	21. 40	57 ·0	59 ·0
7. 47	8. 0	2. 33	·1140	9. 48	·01630			
8. 3	6. 15	2. 50	·1146	10. 52	·01673			
8. 13	7. 30	3. 2	·1146		·01655			
8. 47	6. 0	3. 52	·1132	14. 50	·01587			
9. 8	2. 10	4. 30	·1146	15. 15	·01558			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

August 20. The adjustments of the Horizontal Force were altered, and the scale reading was increased by 0·0110 nearly.

August 21. The Photographic Registers of the Horizontal Force and Declination were very faint, and the times of interruption of the Registers were not distinguishable. The range for the day of the Declination Magnet was between 21°. 58′ and 22°. 18′, and that of the Horizontal Force between 0·1102 and 0·1155.

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.23		Aug.23		Aug.23				
h m	° ′ ″	h m		h m		h m	°	°
9. 36	22. 6. 30	5. 0	·1142	21. 54	·01508			
9. 53	1. 25	5. 9	·1136	22. 53:	·01520			
10. 8	4. 45	5. 16	·1142	23. 59	·01460			
10. 25	2. 30	5. 27	·1140					
11. 0	5. 0	5. 46	·1155					
11. 13	11. 0	6. 8	·1142					
11. 33	6. 30	6. 32	·1154					
13. 11	4. 45	7. 5	·1142					
14. 18	9. 30	7. 36	·1138					
14. 48	13. 0	7. 45	·1140					
15. 15	10. 0	8. 0	·1137					
16. 51	6. 30	8. 15	·1154					
17. 33	7. 10	8. 57	·1135					
18. 2	8. 10	9. 15	·1150					
	***	9. 37	·1144					
20. 17	3. 15	10. 0	·1152					
22. 30	6. 25	10. 21	·1138					
23. 59	11. 25	10. 30	·1142					
		10. 52	·1136					
		11. 4	·1138					
		11. 15	·1126					
		11. 27	·1140					
		11. 53	·1150					
		13. 2	·1137					
		14. 14	·1142					
		14. 30	·1138					
		15. 2	·1149					
		15. 25	·1144					
		16. 40	·1150					
		17. 15	·1142					
		17. 45	·1146					
		17. 56	·1142					
		18. 52	·1136					
		19. 55	·1144					
		20. 5	·1140					
			***					
		23. 59	·1124					
Aug.24		Aug.24		Aug.24		Aug.24		
0. 14	22. 14. 0	0. 0	·1124	0. 12	·01442	1. 40	60 ·0	62 ·0
0. 51	16. 25	0. 45	·1128	2. 8:	·01178	3. 40	64 ·0	65 ·7
3. 20	16. 15	1. 35	·1124	3. 37	·00792	8. 55	64 ·0	65 ·0
5. 53	11. 50	2. 30	·1123	5. 8	·00872	21. 40	58 ·0	60 ·0
7. 3	11. 0	3. 15	·1130	6. 20	·00885			
7. 40	4. 30	4. 5	·1124	7. 23	·00833			
8. 3	6. 0	4. 45	·1130	8. 1	·00867			
8. 16	2. 50	5. 30	·1123	9. 31	·00865			
8. 38	7. 50	7. 25	·1128	11. 46	·00900			
8. 48	7. 0	8. 0	·1142	15. 15	·01262			
9. 15	9. 25	8. 44	·1130	17. 28	·01570			
9. 57	9. 40	9. 5	·1133	17. 32	·01555			
10. 5	11. 0	9. 30	·1126	18. 23	·01525			
10. 28	7. 10	10. 0	·1128	19. 23	·01556			
10. 38	10. 10	10. 17	·1124	21. 40	·01562			
10. 55	8. 0	11. 0	·1133	23. 59	·01450			
11. 40	10. 35	11. 50	·1132					
11. 52	9. 0	12. 8	·1136					
13. 35	11. 45	16. 23	·1142					

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		Aug.24						
h m	° ′ ″	h m		h m		h m	°	°
14. 25	22. 10. 10	16. 40	·1128					
15. 28	11. 40	17. 25	·1134					
16. 22	9. 30	17. 57:	·1143					
	***	18. 57	·1129					
17. 47	12. 30	19. 30	·1138					
18. 56	8. 0	20. 40	·1134					
19. 20	10. 5	21. 14	·1124					
19. 38	7. 5	21. 53	·1126					
20. 20	5. 0	23. 25	·1104					
22. 13	8. 0	23. 59	·1110					
23. 59	16. 10							
Aug.25		Aug.25		Aug.25		Aug.25		
0. 4	22. 16. 20	0. 5	·1113	0. 15	·01430	1. 40	61 ·0	63 ·0
	***	0. 50	·1121		***	3. 40	62 ·0	64 ·0
1. 10	18. 30	1. 40	·1123	1. 3	·01365	9. 40	64 ·0	65 ·0
1. 55	16. 20	2. 20	·1116	2. 37	·01148	21. 40	63 ·0	64 ·0
2. 53	17. 30	4. 50	·1120		***			
3. 58	15. 20	6. 30	·1148	3. 43	·01070			
5. 23	11. 0	6. 38	·1142		***			
5. 52	12. 15	7. 27	·1149	6. 37	·00765			
7. 17	7. 30	7. 44	·1142		(†)			
7. 35	8. 30	8. 14	·1146	9. 28	·00807			
8. 25	7. 50	8. 19	·1143	10. 24	·00806			
8. 50	6. 10	8. 53	·1154	11. 5	·00746			
9. 8:	7. 50	9. 50	·1136		***			
9. 40	4. 15	10. 10	·1136	12. 38	·00721			
10. 8	7. 50	10. 35	·1162	14. 21	·00787			
10. 21	6. 0	11. 12	·1118	14. 46	·00757			
10. 35	6. 10	11. 57	·1158	17. 2	·00838			
10. 58	12. 10	12. 15	·1152	21. 4:	·01150			
11. 3	11. 0	12. 25	·1154	23. 59	·01132			
11. 15	15. 0	12. 40	·1150					
11. 26	11. 40	12. 47	·1120					
11. 40	14. 20	13. 20	·1155					
11. 56	13. 10	14. 23	·1140					
12. 2	14. 0	15. 8	·1142					
12. 48	8. 50		***					
	***	16. 0	·1160					
13. 53	9. 45	16. 15	·1160					
14. 16	15. 30	16. 53	·1128					
	***		***					
15. 48	10. 0	18. 17	·1140					
16. 20	14. 40	18. 31	·1148					
	***	18. 50	·1136					
18. 32	10. 30	19. 15	·1144					
18. 46	8. 10	19. 50	·1140					
19. 30	6. 0	20. 15	·1130					
19. 58	6. 10	20. 35	·1132					
20. 17	4. 30		***					
20. 51	6. 40	21. 38	·1112					
21. 19	5. 35	23. 15	·1124					
21. 47	9. 15	23. 28	·1130					
22. 37	9. 40	23. 59	·1112					
23. 58	15. 25							
Aug.26		Aug.26		Aug.26		Aug.26		
0. 28	22. 16. 35	0. 0	·1112	0. 30	·01132	1. 40	63 ·0	65 ·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.
Aug.26		Aug.26		Aug.26		Aug.26		
h m	° ′ ″	h m		h m		h m	°	°
1. 15	22. 18. 35	0. 28	·1130	2. 54:	·01113	3. 40	64 ·0	66 ·0
	***	0. 55	·1126	5. 0	·00880	8. 35	65 ·0	66 ·0
2. 5	16. 50	1. 14	·1136		***	21. 40	60 ·0	61 ·5
2. 14	18. 45	2. 8	·1126	9. 40	·00815			
	***	2. 16	·1132	11. 3	·00858			
4. 32	14. 40	2. 55	·1136	11. 38	·00827			
5. 3	5. 15	3. 23	·1130	17. 46	·01102			
5. 40	9. 15	4. 3	·1134	21. 27	·01370			
6. 2	8. 15	4. 24	·1140	23. 0	·01405			
8. 5	11. 0	4. 45	·1133	23. 59	·01372			
8. 20	8. 50	5. 10	·1154					
8. 55	7. 0	5. 20	·1154					
9. 6	2. 35	5. 45	·1142					
9. 35	9. 20	5. 58	·1146					
9. 46	7. 35	6. 8	·1142					
10. 42	7. 35	6. 17	·1144					
11. 7	17. 15	6. 38	·1140					
12. 13	7. 40	6. 50	·1146					
13. 40	5. 40	7. 4	·1136					
14. 29	14. 35	7. 28	·1144					
	***	8. 53	·1142					
15. 50	11. 10	9. 10	·1164					
16. 6	12. 0	9. 36	·1150					
17. 20	7. 35	10. 40	·1140					
17. 41	8. 40	10. 53	·1133					
	***	11. 20	·1147					
20. 10	6. 0		***					
20. 57	6. 10	12. 15	·1144					
23. 4	15. 20	12. 30	·1136					
23. 59	18. 15	13. 20	·1154					
		14. 10	·1134					
		14. 55	·1156					
			***					
		15. 40	·1154					
		16. 2	·1164					
		17. 9	·1153					
		17. 30	·1158					
		17. 45	·1148					
		18. 5	·1150					
		18. 31	·1132					
		19. 35	·1136					
		21. 0	·1126					
		22. 10	·1100					
		22. 30	·1106					
		22. 46	·1095					
		23. 59	·1112					
Aug.27		Aug.27		Aug.27		Aug.27		
0. 14	22. 18. 30	0. 0	·1112	0. 15	·01367	1. 40	62 ·0	64 ·0
0. 43	18. 0	0. 15	·1113	1. 15	·01342	3. 40	63 ·0	65 ·0
1. 23	20. 0	0. 23	·1112	3. 38	·01138	9. 40	63 ·7	65 ·7
2. 7	19. 50	0. 50	·1120	6. 2	·00838	23. 17	58 ·0	61 ·0
2. 22	16. 45	1. 46	·1116	10. 23	·00810			
3. 14	13. 50	2. 3	·1133	13. 35	·00965			
4. 12	13. 40		***	17. 2	·01488			
5. 14	9. 30	2. 20	·1120	17. 35	·01456			
5. 56	10. 0	2. 45	·1130		(†)			
6. 43:	6. 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.
Aug.27		Aug.27						
h m	° ′ ″	h m		h m		h m	°	°
7. 25	22. 8. 30	3. 16	·1126					
11. 23	11. 30		***					
11. 38	10. 35	3. 28	·1138					
12. 40	12. 0	3. 30	·1130					
12. 44	12. 35	3. 34	·1134					
13. 15	18. 25	3. 46	·1132					
13. 52	13. 0	3. 52	·1137					
15. 42	8. 50		***					
16. 53	9. 10	4. 3	·1129					
17. 12	11. 30	4. 14	·1132					
	(†)	4. 47	·1120					
			***					
		6. 0	·1124					
		6. 8	·1118					
			***					
		6. 44	·1138					
			***					
		7. 3	·1134					
		7. 23	·1142					
		7. 44	·1134					
		8. 30	·1146					
		9. 0	·1138					
		10. 0	·1138					
		10. 28	·1148					
		10. 50	·1140					
		11. 23	·1140					
		12. 4	·1150					
		12. 52	·1136					
		13. 10	·1151					
		13. 43	·1140					
		15. 14	·1146					
		17. 5	·1135					
		17. 16	·1141					
		17. 34	·1139					
			(†)					
		23. 17	·1129*					
Aug.28		Aug.28		Aug.28		Aug.28		
0. 17	22. 16. 10	0. 0	·1130	0. 13	·01332	10. 7	62 ·0	64 ·0
1. 15	18. 0	2. 0	·1126	1. 38	·01240	21. 40	57 ·0	59 ·0
3. 5	14. 55	3. 13	·1132	3. 58	·00740			
3. 46	11. 50	4. 5	·1128	8. 55	·00845			
5. 30	8. 25	5. 23	·1135	11. 13	·00810			
7. 5	7. 10	10. 2	·1130	14. 25:	·00870			
9. 10	10. 0	10. 47	·1147	21. 46	·01554			
10. 17	10. 25	11. 28	·1133	23. 59	·01521			
10. 36	8. 30	18. 15	·1139					
11. 0	10. 30	20. 0	·1130					
11. 21	9. 0	23. 0	·1126					
11. 47	10. 0	23. 38	·1130					
14. 53	9. 30							
15. 40	10. 45							
16. 45	9. 10							
18. 0	9. 0							
20. 1	6. 5							
21. 52	7. 0							
23. 59	13. 30							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.
Aug.29		Aug.29		Aug.29		Aug.29		
h m	° ′ ″	h m		h m		h m	°	°
0. 7	22. 13. 30	1. 0	·1146	0. 30	·01495	1. 40	59 ·0	60 ·0
1. 5	15. 50	1. 54	·1140	2. 23:	·01288	3. 40	63 ·0	65 ·0
7. 5	6. 35	2. 40	·1144	3. 56	·00870	9. 40	63 ·0	65 ·0
9. 57	9. 15	3. 5	·1138	7. 23	·00876	21. 40	59 ·0	61 ·0
11. 0	7. 0	3. 41	·1138	8. 22:	·00900			
12. 26	9. 30	4. 15	·1134	10. 13:	·00876			
17. 3	8. 10	5. 15	·1140	14. 9:	·01088			
20. 21	5. 15	5. 50	·1134	17. 30	·01570			
21. 28	7. 0	6. 15	·1134	22. 0	·01540			
23. 47	14. 0	6. 30	·1154	23. 59	·01400			
		8. 34	·1154					
		9. 10	·1160					
		10. 15	·1158					
		10. 33	·1164					
		11. 8	·1166					
		11. 34	·1158					
		12. 23	·1156					
		12. 40	·1160					
		18. 38	·1164					
		18. 58	·1168					
		19. 25	·1160					
		22. 2	·1146					
		23. 47	·1144					
Aug.30		Aug.30		Aug.30		Aug.30		
0. 0	22. 14. 30	2. 15	·1126	0. 50	·01248	1. 40	63 ·0	65 ·0
1. 23	16. 10	3. 44	·1110	2. 16	·00870	3. 40	66 ·0	68 ·0
3. 30	10. 0	5. 53	·1104	3. 55	{·00950	9. 40	61 ·0	63 ·0
5. 6	7. 0	8. 45	·1114		{·01062	21. 40	58 ·0	60 0
13. 17	10. 10	10. 20	·1108	4. 51	·00950			
18. 15	8. 5	11. 35	·1120	7. 32	·00900			
20. 38	6. 0	11. 45	·1120	10. 5:	·01025			
22. 10	9. 30	18. 43	·1122	15. 27	·01584			
23. 5	13. 25	18. 55	·1126	22. 15	·01550			
23. 45	14. 0	19. 15	·1118	23. 59	·01432			
		22. 55	·1093					
		23. 16	·1092					
		23. 59	·1102					
Aug.31		Aug.31		Aug.31		Aug.31		
0. 0	22. 14. 25	0. 0	·1102	0. 20	·01402	1. 40	62 ·0	64 ·0
1. 11	15. 0	0. 15	·1106	2. 1:	·01170	3. 40	63 ·0	65 ·5
5. 38	8. 40	0. 23	·1102	3. 17	·00860	8. 25	64 ·0	66 ·0
8. 15	9. 25	1. 0	·1108	5. 21	{·00912	21. 40	61 ·0	62 ·0
9. 2	6. 15	1. 40	·1105		{·01042			
10. 2	9. 50	2. 45	·1108	7. 23	·00927			
10. 33	4. 25	3. 30	·1103	10. 26	·00990			
10. 53	5. 20	4. 40	·1106	15. 0	·01375			
11. 13	4. 30	5. 14	·1096	16. 17	·01540			
11. 55	7. 30	6. 5	·1102	18. 37	·01572			
12. 48	9. 40	6. 15	·1107	21. 32	·01550			
13. 16	7. 0		***	23. 59	·01408			
13. 40	13. 0	7. 25	·1102					
14. 5	11. 5		***					
14. 35	6. 30	7. 45	·1109					
15. 22	3. 0	9. 50	·1108					
15. 42	4. 50	10. 3	·1128					
15. 55	3. 25	11. 0	·1106					

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.31		Aug.31						
h m	° ′ ″	h m		h m		h m	°	°
16. 17	22. 5. 10	11. 30	·1104					
	***	12. 15	·1110					
16. 51	0. 0	12. 35	·1112					
	***	12. 55	·1108					
17. 29	7. 0	13. 27	·1107					
17. 38	5. 25	14. 30	·1118					
18. 42	7. 0	15. 0	·1100					
19. 51	4. 30	15. 14	·1102					
21. 17	5. 10	15. 35	·1118					
21. 26	8. 30	16. 32	·1128					
23. 11	15. 15	16. 45	·1118					
23. 59	16. 10		***					
		17. 15	·1122					
			***					
		17. 30	·1116					
		17. 40	·1122					
		18. 25	·1124					
		19. 55	·1114					
		21. 14	·1116					
		21. 33	·1100					
		21. 45	·1104					
		22. 50	·1098					
		23. 58	·1102					
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
0. 27	22. 16. 0	1. 5	·1136	0. 30	·01365	1. 40	63 ·0	65 ·0
2. 15	17. 10	1. 35	·1148	4. 38	·00920	3. 40	64 ·0	66 ·0
5. 2	11. 30	4. 14	·1150	5. 58	·00932	9. 47	64 ·5	66 ·0
8. 25	12. 10	5. 44	·1142	7. 8	·00920	21. 40	60 ·0	62 ·0
9. 7	8. 30	9. 33	·1151	8. 17	·00948			
9. 28	9. 25	10. 0	·1159	12. 28	·00897			
10. 0	8. 10	10. 46	·1148	14. 5	·00973			
10. 43	12. 0	11. 0	·1152	14. 58	·00948			
11. 6	11. 10	11. 8	·1148	15. 15	·00832			
11. 43	12. 30	11. 27	·1148	15. 17	·00900			
11. 58	10. 10	11. 33	·1176	15. 35	·00680			
12. 19	14. 0	11. 40	·1170		***			
12. 48	13. 45	11. 45	·1173	17. 22:	·01105			
13. 17	9. 0	12. 8	·1198	18. 58	·01100			
13. 57	10. 30		***	19. 48	·00990			
14. 22	7. 10	12. 33	·1164		***			
14. 32	9. 10	12. 40	·1168	20. 35	·01197			
14. 40	8. 0	12. 45	·1162		***			
15. 2	33. 35		***	22. 40	·01400			
	(†)	13. 32	·1168	23. 59	·01458			
15. 31	23. 30	13. 44	·1162					
15. 47	8. 0		***					
15. 53	10. 30	14. 30	·1178					
16. 13	22. 1. 0	15. 16	·1066					
16. 25	21. 59. 20	15. 25	·1128					
16. 39	22. 4. 15	15. 45	·1102					
17. 2	7. 25	15. 47	·1108					
17. 17	7. 0	15. 55	·1102					
17. 20	8. 45	16. 14	·1133					
17. 23	6. 25	16. 20	·1126					
17. 26	9. 20	16. 45	·1146					
17. 29	6. 20	17. 17	·1150					
17. 32	9. 5	17. 20	·1156					

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.
Sept. 1		Sept. 1						
h m	° ′ ″	h m		h m		h m	°	°
17. 36	22. 7. 20	17. 25	·1148					
18. 50	23. 0	17. 27	·1154					
19. 13	21. 20	17. 30	·1146					
19. 43	25. 25		***					
20. 5	21. 10	17. 55	·1152					
20. 25	20. 25	18. 50	·1064					
20. 38	24. 50	18. 55	·1086					
21. 3	17. 30		***					
21. 34:	21. 0	19. 8	·1077					
22. 12	18. 5	19. 30	·1036					
22. 18	20. 20	19. 38	·1040					
23. 16	18. 30	19. 44	·1036					
23. 21	21. 0	19. 45	·1044					
	***	19. 52	·1024					
23. 43	23. 20	20. 10	·1064					
23. 59	22. 15	20. 23	·1050					
		20. 36	·1064					
			***					
		21. 5	·1056					
		21. 32	·1084					
		22. 0	·1074					
			***					
		23. 38	·1094					
		23. 50	·1084					
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 18	22. 24. 0	0. 0	·1084	0. 15	·01465	1. 40	61 ·0	63 ·0
0. 33	21. 0	0. 27	·1086	1. 13	·01522	3. 40	62 ·0	64 ·0
0. 48	21. 20	0. 44	·1112	1. 56	·01515	9. 40	59 ·0	62 ·8
0. 58	19. 30	0. 47	·1109	2. 48	·01612	21. 40	54 ·0	57 ·0
2. 15	22. 50	1. 11	·1141	3. 56	·01837			
2. 30	19. 50	1. 50	·1086	4. 5	·01812			
2. 48	19. 10		***	4. 17	·01850			
3. 5	23. 30	2. 44	·1116	4. 25	·01798			
3. 23	20. 15		***	4. 40	·01814			
3. 47	24. 50	3. 0	·1141	4. 50	·01792			
4. 15	18. 50		***	5. 9	·02015			
4. 17	20. 0	3. 13	·1124	5. 18	·02050			
	***	3. 22	·1132	5. 39	·01770			
4. 47	18. 0	3. 29	·1157	5. 47	·01788			
5. 0	20. 30	3. 38	·1150	6. 43	·01658			
5. 45	3. 30	3. 40	·1156	7. 23	·01640			
6. 5	11. 30	3. 45	·1150	7. 51	·01670			
6. 30:	14. 0	3. 56	·1162	9. 45	·01628			
7. 15	12. 0	4. 10	·1126	10. 2	·01570			
7. 39	0. 0	4. 18	·1161	10. 12	·01570			
8. 28	13. 0	4. 25	·1134	10. 25	·01480			
8. 48	11. 10	4. 40	·1174		***			
9. 6	6. 0	4. 45	·1160	11. 6	·01402			
9. 15	9. 50		***	11. 20	·01418			
9. 26	9. 45	5. 0	·1156		***			
9. 43	14. 30	5. 13	·1215	11. 40	·01318			
9. 51	8. 50	5. 15	·1118		***			
9. 59	9. 40	5. 28	·1206	13. 2	·01130			
10. 8	6. 40	5. 40	·1124	13. 17	·01140			
10. 23	9. 30	5. 46	·1148	13. 50	·01312			
10. 35	4. 10	5. 44	·1140	13. 55	·01302			
10. 46	9. 0		***	14. 16:	·01373			
					***			

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.
Sept. 2		Sept. 2		Sept. 2				
h m	° ′ ″	h m		h m		h m	°	°
10. 53	22. 6. 50	6. 43	·1118	15. 20	·01203			
11. 21	22. 17. 10	6. 53	·1137	15. 48	·01180			
11. 37	21. 58. 0	7. 0	·1122	16. 26	·01290			
11. 43	22. 5. 35	7. 8	·1122	17. 8	·01210			
11. 53	21. 52. 10	7. 25	·1100	17. 52	·01292			
12. 10	22. 7. 10	7. 50	·1124	18. 20	·01247			
12. 37	21. 55. 35	7. 58	·1121	18. 43	·01302			
12. 48	52. 35	8. 13	·1128	21. 53	·01423			
12. 55	53. 50		***	22. 2	·01385			
13. 8	47. 50	9. 2	·1116	22. 54	·01530			
13. 17	52. 50	9. 14	·1121	23. 59	·01573			
13. 28	21. 45. 45	9. 45	·1089					
13. 56	22. 3. 0	9. 55	·1102					
14. 4	1. 50	10. 5	·1092					
14. 23	4. 10		***					
14. 42	1. 20	10. 45	·1128					
15. 2	19. 10	10. 50	·1123					
15. 7	18. 35	11. 0	·1132					
15. 16	20. 10	11. 27	·1096					
15. 28	13. 10	11. 36	·1122					
15. 33	14. 25	11. 45	·1082					
15. 55	5. 10	12. 0	·1132					
16. 10	3. 40	12. 15	·1102					
16. 47	32. 25	12. 30	·1108					
17. 15	13. 0	12. 38	·1103					
17. 40	7. 5		***					
18. 8	16. 10	13. 5	·1120					
	***	13. 16	·1106					
18. 43	14. 30	13. 30	·1118					
18. 57	9. 30	13. 40	·1110					
19. 7	17. 50	13. 46	·1113					
19. 18	11. 30	13. 55	·1106					
19. 25	18. 30	14. 14	·1114					
	***	14. 40	·1105					
20. 28	6. 0	14. 53	·1090					
20. 38	15. 0	15. 14	·1130					
20. 55	7. 30	15. 19	·1124					
	***		***					
21. 12	9. 30	15. 36	·1131					
21. 23	16. 20	15. 45	·1121					
21. 28	13. 35	16. 23	·1170					
	***	16. 43	·1138					
21. 43	20. 0	16. 55	·1148					
	***	17. 0	·1165					
22. 51	16. 30	17. 40	·1126					
22. 59	18. 20	17. 46	·1128					
23. 10	15. 40		***					
23. 55	17. 10	18. 35	·1042					
			***					
		19. 8	·1087					
		19. 18	·1048					
		19. 25	·1064					
		19. 30	·1056					
		19. 33	·1064					
		19. 36	·1054					
		19. 55	·1073					
		20. 0	·1066					
			***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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	° ′ ″	Sept. 2 h m		h m		h m	°	°
		20. 20	·1066					
			***					
		20. 38	·1093					
		20. 45	·1078					
		20. 55	·1078					
		21. 13	·1058					
		21. 24	·1072					
		21. 44	·1056					
			***					
		22. 14	·1068					
		22. 20	·1064					
		22. 29	·1076					
		22. 32	·1070					
		22. 55	·1090					
		23. 5	·1076					
		23. 23	·1088					
		23. 29	·1084					
		23. 44	·1086					
		23. 53	·1082					
Sept. 3		Sept. 3		Sept. 3		Sept. 3		
0. 0	22. 19. 30	2. 10	·1134	0. 35	·01540	1. 40	57 ·0	59 ·0
0. 47	21. 30	2. 42	·1138	2. 23:	·01393	3. 40	61 ·0	63 ·5
1. 28	25. 50	3. 29	·1130	4. 2	·01015	9. 40	60 ·0	62 ·0
2. 13	21. 20	3. 50	·1139	5. 17:	·00920	23. 8	60 ·0	62 ·8
2. 27	22. 20	4. 15	·1118	6. 28	·00900			
3. 20	20. 35	4. 30	·1116	7. 14	·00948			
4. 44	13. 15	6. 13	·1128	7. 30	·00928			
6. 20	12. 0	6. 40	·1110	8. 15	·00943			
7. 13	6. 0	7. 2	·1126	10. 8	·00850			
7. 33	9. 0	7. 10	·1118	10. 28	·00788			
8. 2	9. 30	7. 23	·1128	10. 42	·00802			
8. 25	6. 0	7. 45	·1108	10. 47	·00766			
9. 4	10. 30	7. 59	·1120	10. 54	·00795			
10. 8	7. 30	8. 2	·1114	11. 1	·00715			
10. 27	9. 35	8. 20	·1124	11. 8	·00740			
10. 33	22. 13. 45	8. 28	·1134	11. 50	·00698			
11. 0	21. 59. 20		***		***			
11. 8	22. 3. 10	8. 50	·1118	12. 18	·00752			
11. 11	1. 30	9. 0	·1127	12. 38	·00712			
11. 18	12. 0	9. 8	·1122	12. 48	·00728			
11. 29	3. 30	9. 43	·1117	13. 5	·00692			
11. 40:	7. 0	9. 55	·1124	15. 17	·00765			
12. 1	1. 0	10. 16	·1118	15. 50	·00808			
12. 15	3. 0	10. 40	·1082	17. 14	·00850			
12. 18	0. 0	11. 10	·1194	20. 0	·00982			
12. 38	10. 0	11. 20	·1157	21. 43	·00993			
12. 47	6. 50	11. 29	·1164	23. 59	·00914			
13. 3	13. 0	11. 50	·1116					
13. 22	8. 30		***					
13. 46	11. 25	12. 5	·1127					
14. 0	9. 0	12. 20	·1148					
14. 55	22. 10. 0	12. 40	·1118					
15. 28	21. 56. 0	12. 54	·1140					
16. 15	22. 3. 25	13. 30	·1102					
17. 3	2. 50	13. 56	·1131					
18. 13	7. 30	14. 14	·1126					
19. 18	4. 50	14. 23	·1130					

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.
Sept. 3 h m	° ′ ″	Sept. 3 h m		h m		h m	°	°
20. 41	22. 14. 25	14. 47	·1114					
21. 28	14. 30	15. 30	·1136					
22. 32	18. 30	16. 16	·1124					
23. 3	18. 0	16. 55	·1126					
23. 59	19. 30	17. 30	·1110					
			***					
		19. 55	·1112					
		21. 15	·1081					
		22. 20	·1100					
		23. 0	·1096					
		23. 15	·1102					
		23. 59	·1094					
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
0. 5	22. 19. 30	0. 0	·1094	0. 12	·00900	7. 6	64 ·0	65 ·0
2. 0	21. 0	0. 14	·1092	1. 13	·00852	21. 40	59 ·0	61 ·0
2. 51	13. 15	0. 43	·1109	2. 0	·00908			
	***	1. 2	·1104	2. 10	·00902			
4. 36	12. 0	1. 30	·1108		***			
5. 46	9. 35	1. 38	·1102	2. 50	·01009			
5. 58	11. 0	1. 46	·1103		***			
10. 31	7. 0	2. 0	·1114	3. 40	·00983			
10. 53	9. 35	2. 15	·1084	6. 16	·00956			
12. 20	8. 50		***	7. 7	·00930			
13. 0	11. 30	3. 0	·1129	7. 56	·00952			
14. 3	9. 0		***	11. 38	·00943			
14. 37	10. 50	3. 44	·1114	14. 35:	·01056			
17. 26	8. 50	4. 30	·1120	20. 5	·01400			
20. 36	9. 50	4. 43	·1128	22. 38	·01470			
21. 13	12. 0	4. 50	·1120	23. 59	·01454			
23. 59	16. 0	5. 50	·1124					
		6. 0	·1138					
			***					
		6. 38	·1130					
		6. 46	·1121					
		7. 34	·1126					
		7. 40	·1123					
		8. 4	·1135					
			***					
		8. 32	·1126					
		9. 6	·1133					
		9. 46	·1130					
		10. 23	·1138					
		10. 40	·1132					
		11. 14	·1128					
		11. 33	·1137					
		11. 53	·1132					
		12. 5	·1133					
		12. 18	·1126					
		12. 46	·1133					
		13. 8	·1132					
		16. 0	·1140					
		18. 20	·1132					
		19. 35	·1120					
		21. 3	·1115					
		23. 15	·1122					
		23. 53	·1119					

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.
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
h m	° ′ ″	h m		h m		h m	°	°
0. 17	22. 16. 0	0. 45	·1120	0. 15	·01438	1. 40	61 ·0	63 ·0
3. 6	14. 0		***	1. 20	·01332	3. 40	65 ·0	66 ·0
4. 28	11. 0	3. 0	·1136	3. 30	·00975	9. 40	66 ·0	67 ·8
6. 16	10. 0	4. 9	·1134		·00993	21. 40	59 ·0	60 ·0
9. 45	10. 50	4. 29	·1130	6. 54	·00997			
9. 48	8. 30	5. 33	·1132		·01171			
9. 53	10. 25	6. 30	·1128	8. 44:	·01098			
11. 10	11. 0	7. 35	·1132	11. 47:	·01262			
11. 13	14. 50	8. 5	·1130	14. 52	·01535			
17. 20	13. 10	8. 28	·1134	22. 5	·01518			
19. 44	11. 0	9. 35	·1132	23. 46	·01530			
20. 44	13. 10	12. 40	·1140	23. 59	·01495			
21. 46	20. 0	15. 8	·1136					
	***	18. 15	·1142					
23. 0	19. 30	19. 28	·1148					
23. 48	26. 20	20. 27	·1148					
		21. 0	·1138					
		22. 0	·1134					
		22. 9	·1138					
		22. 16	·1130					
			***					
		23. 25	·1116					
		23. 44	·1122					
		23. 47	·1133					
		23. 56	·1118					
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
0. 35	22. 25. 10	0. 0	·1130	0. 43	·01447	1. 45	60 ·0	62 ·0
1. 8	29. 25	0. 15	·1106		***	3. 40	65 ·0	67 ·0
1. 20	28. 30	0. 28	·1114	1. 48	·01314	21. 40	56 ·0	58 ·0
1. 42	32. 10	0. 34	·1109		***			
1. 50	30. 35	1. 8	·1141	2. 2	·01325			
2. 8	36. 0	1. 19	·1126		***			
2. 26	36. 10	1. 38	·1136	3. 0	·01070			
3. 3	25. 0	1. 50	·1118	3. 12	·01080			
3. 10	26. 0	2. 4	·1154		***			
3. 40	21. 25	2. 20	·1126	3. 30	·01202			
3. 51	28. 0	2. 30	·1136		***			
4. 12	16. 0	2. 42	·1122	3. 46	·01233			
4. 22	16. 30	2. 48	·1138		***			
4. 37	14. 0	3. 50	·1113	3. 56	·01175			
5. 7	21. 5		***	4. 15	·01200			
	***	4. 45	·1130		***			
6. 18	16. 25	5. 25	·1120	5. 1	·01128			
8. 17	14. 0	5. 34	·1111	5. 40	·01125			
9. 42	14. 30	5. 45	·1116	7. 2	·01030			
10. 58	12. 40	5. 48	·1110		·01220			
	***	6. 3	·1120	10. 17:	·01215			
17. 40	12. 0	6. 18	·1108	13. 23	·01630			
	***	6. 38	·1124	13. 32	·01612			
20. 25	10. 25	6. 58	·1118	23. 5	·01535			
20. 38	12. 25	7. 15	·1124		·01368			
20. 44	10. 30	7. 30	·1112	23. 59	·01373			
21. 10	12. 0		***					
21. 20	10. 30	8. 15	·1116					
21. 56	12. 45	8. 32	·1125					
22. 13	12. 20	8. 44	·1116					
23. 39	16. 0	8. 53	·1120					

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.
Sept. 6		Sept. 6						
h m	° ′ ″	h m		h m		h m	°	°
23. 46	22. 17. 0	9. 0	·1116					
23. 59	12. 0	9. 8	·1122					
			***					
		10. 44	·1122					
			***					
		12. 30	·1126					
			***					
		15. 50	·1138					
		16. 18	·1136					
		16. 35	·1140					
		16. 45	·1134					
			***					
		19. 8	·1139					
		20. 35	·1132					
		20. 44	·1126					
			***					
		21. 45	·1228					
		22. 0	·1124					
		23. 30	·1118					
			***					
		23. 45	·1122					
		23. 59	·1114					
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
0. 28	22. 18. 0	0. 0	·1115	0. 20	·01372	1. 40	59 ·0	61 ·0
2. 43	19. 0	0. 27	·1122	2. 32:	·01270	3. 40	62 ·0	64 ·4
2. 56	12. 10	0. 53	·1120	5. 20	·00890	9. 40	62 ·5	66 ·0
5. 14	14. 30	1. 20	·1126	6. 22	·00856	21. 40	59 ·0	61 ·0
	***	2. 16	·1128		***			
9. 25	14. 10	2. 34	·1135	8. 31	·00857			
10. 28	13. 30	3. 0	·1124	11. 35	·00828			
11. 12	11. 10		***	16. 20	·00983			
11. 40	6. 0	4. 3	·1130	19. 40	·01240			
11. 57	5. 30	4. 33	·1123	22. 24	·01410			
12. 21	8. 45	5. 31	·1134	23. 59	·01444			
12. 32	8. 20	5. 50	·1130					
12. 58	11. 0	6. 16	·1137					
15. 7	11. 40	6. 38	·1136					
15. 48:	14. 40	6. 53	·1142					
16. 29	12. 30		***					
17. 28	12. 40	7. 40	·1146					
	***	7. 45	·1134					
19. 48	10. 0	8. 38	·1145					
	***	8. 45	·1134					
21. 20	11. 15	8. 54	·1142					
	***	9. 2	·1138					
23. 5	14. 15	9. 9	·1148					
23. 53	18. 0	9. 15	·1140					
		9. 28	·1138					
		9. 44	·1144					
		10. 40	·1144					
		10. 48	·1132					
		11. 0	·1138					
		11. 32	·1132					
			***					
		18. 30	·1144					
			***					
		21. 14	·1136					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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	° ′ ″	Sept. 7 h m		h m		h m	°	°
		22. 46	·1122					
		23. 32	·1125					
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
0. 0	22. 18. 30	0. 3	·1120	0. 30	01442	1. 40	59 ·0	61 ·0
1. 38	22. 0		***	2. 25:	01375	3. 40	61 ·0	63 ·5
3. 53	16. 10	7. 40	·1145	5. 30:	·01050	11. 0	61 ·0	63 ·0
6. 0	12. 45	11. 50	·1138	7. 47	·00862	21. 40	59 ·0	61 ·0
6. 45	12. 25	19. 0	·1148		·00882			
8. 35	14. 30	22. 0	·1127	12. 0	·00850			
10. 14	14. 30	22. 20	·1128	15. 10:	·00932			
11. 28	13. 30	23. 0	·1122	21. 17:	·01296			
11. 45	14. 10	23. 30	·1126	23. 59	·01316			
12. 51	13. 0	23. 59.	·1122					
13. 57	14. 25							
14. 13	13. 30							
17. 47	13. 0							
19. 39	11. 10							
19. 47	9. 0							
21. 20	8. 0							
23. 5	12. 10							
23. 36	15. 10							
23. 48	14. 50							
23. 59	15. 10							
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 22	22. 16. 0	0. 5	·1124	0. 20	·01310	1. 40	60 ·0	62 ·0
2. 30	18. 30	2. 20	·1136	3. 26	·01015	3. 40	64 ·0	66 ·0
2. 48	16. 50	2. 53	·1130	5. 2	·00888	9. 40	64 ·0	65 ·3
6. 51	10. 30	4. 11	·1142		·00913	21. 40	60 ·0	63 ·0
8. 11	11. 30	9. 50	·1147	8. 15	·00918			
8. 30	11. 10	10. 58	·1136	10. 0	·00898			
9. 15	12. 10	11. 30	·1147	16. 38	·01160			
9. 23	10. 15	12. 0	·1142	20. 26:	·01362			
9. 48	8. 30	18. 8	·1150	21. 54	·01388			
10. 27	9. 0	20. 0	·1145	23. 55	·01335			
10. 50	11. 0	23. 2	·1128					
11. 31	10. 0	23. 20	·1132					
12. 33	11. 30	23. 30	·1131					
16. 28	10. 30	23. 59	·1128					
20. 56	8. 50							
23. 31	15. 0							
23. 42	14. 30							
23. 59	16. 0							
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
0. 16	22. 15. 30	0. 15	·1124	0. 15	·01335	1. 40	64 ·4	65 ·7
1. 5	14. 45	1. 8	·1130		·00865	3. 40	65 ·0	66 ·0
1. 47	15. 0	2. 5	·1140	2. 44	·00927	6. 14	65 ·2	66 ·0
4. 43	11. 10	2. 58	·1136	7. 30	·00935	23. 3	56 ·0	58 ·0
7. 2	11. 0	5. 4	·1140	9. 35	·00931			
10. 22	12. 15	5. 23	·1148	12. 55:	·01162			
11. 0	3. 0	5. 39	·1143	16. 36	·01582			
11. 19	3. 0		***	16. 48	·01568			
11. 36	6. 0	9. 28	·1152	21. 5	·01522			
12. 17	7. 0	9. 46	·1146	22. 14	·01498			
12. 40	6. 40	10. 30	·1138	23. 59	·01475			
13. 5	8. 0	10. 50	·1146					

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.
Sept. 10 h m	° ′ ″	Sept. 10 h m		h m		h m	°	°
13. 35	22. 6. 30	11. 27	·1132					
14. 35	10. 25	12. 15	·1144					
18. 44	9. 40	12. 45	·1141					
19. 1	9. 0	13. 9	·1148					
21. 17	9. 30	19. 45	·1150					
23. 59	14. 50	21. 50	·1146					
		22. 10	·1140					
		23. 20	·1136					
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
0. 16	22. 14. 30	0. 15	·1136	0. 7	·01467	7. 25	66 ·7	68 ·0
1. 3	15. 10	0. 36	·1138	1. 18:	·01338	21. 40	61 ·0	62 ·7
2. 35	12. 50	1. 44	·1131	3. 18	·00925			
4. 16	9. 0	3. 5	·1128	3. 35	·00952			
6. 38	8. 10	4. 42	·1134	4. 45	·00988			
7. 4	7. 30	5. 10	·1128	8. 2	·00998			
8. 31	9. 45	6. 5	·1136	10. 8	·00965			
9. 18	10. 0	6. 17	·1133	14. 28	·01130			
9. 51	6. 30		***	19. 40	·01580			
10. 21	5. 35	9. 15	·1136	23. 59	·01570			
11. 3	9. 35	9. 28	·1140					
11. 32	10. 40	9. 44	·1134					
11. 52	6. 10	10. 0	·1138					
12. 17	8. 0	10. 20	·1131					
12. 53	7. 0	11. 32	·1130					
13. 18	8. 10	12. 0	·1138					
14. 43	5. 30	13. 20	·1133					
15. 37	7. 50	13. 48	·1146					
16. 35:	3. 50	14. 36	·1135					
17. 30	6. 5	15. 17	·1136					
18. 23	6. 0	16. 10	·1146					
19. 46	7. 0	16. 30	·1144					
19. 55	6. 20	17. 25	·1143					
20. 10	8. 10	17. 53	·1152					
	***	18. 25	·1144					
22. 23	13. 0	20. 0	·1144					
23. 59	17. 30	20. 17	·1136					
		20. 43	·1134					
			***					
		21. 44	·1138					
		21. 54	·1134					
		23. 8	·1132					
		23. 27	·1136					
		23. 59	·1138					
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 36	22. 18. 50	0. 0	·1138	0. 15	·01565	1. 40	63 ·0	66 ·0
2. 12	15. 30	6. 10	·1142	1. 54:	·01426	3. 40	63 ·2	67 ·0
3. 2	12. 50	11. 14	·1132	4. 29	·01000	9. 40	68 ·8	69 ·0
4. 43	10. 10	11. 30	·1131	8. 35	·01030	21. 40	62 ·2	64 ·0
5. 28	9. 40	13. 8	·1140	12. 1	·01022			
7. 56	10. 20	13. 50	·1136	18. 2:	·01285			
9. 31	11. 50	17. 18	·1138	21. 47	·01588			
9. 55	10. 0	22. 0	·1130	23. 59	·01566			
13. 23	9. 50	23. 0	·1131					
13. 42	8. 50	23. 30	·1134					
15. 32	10. 5							
16. 10	8. 45							

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.
Sept. 12								
h m	° ′ ″	h m		h m		h m	°	°
16. 58	22. 8. 20							
17. 38	9. 10							
19. 55	10. 10							
21. 46	10. 20							
22. 53	14. 0							
23. 32	13. 50							
23. 52	14. 30							
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 37	22. 16. 10	0. 4	·1140	0. 35	·01575	1. 40	62 ·0	63 ·3
2. 53	11. 50	0. 26	·1145	3. 27:	·01580	3. 40	63 ·0	65 ·3
3. 18	10. 0	2. 43	·1136	8. 0:	·01373	9. 40	62 ·8	64 ·6
4. 53	9. 0	5. 45	·1139	12. 15	{ ·01598	21. 40	55 ·0	57 ·5
7. 21	11. 10	6. 58	·1146		{ ·01588			
8. 35	11. 15	8. 40	·1146	16. 1	·01520			
9. 44	12. 0	11. 33	·1154	19. 5	·01503			
12. 10	11. 30	12. 23	·1158	22. 32	·01444			
12. 30	10. 40	12. 34	·1154	23. 59	·01463			
13. 14	11. 45	13. 38	·1156					
13. 43	9. 0	14. 5	·1150					
14. 45	8. 0	14. 50	·1156					
16. 7	4. 30	15. 4	·1154					
16. 58	7. 10	15. 40	·1158					
17. 7	6. 30	16. 10	·1152					
17. 48	8. 0	16. 58	·1150					
20. 32	9. 0	18. 58	·1148					
22. 10	11. 30	21. 15	·1151					
22. 30	13. 20	22. 8	·1143					
22. 38	13. 0	22. 28	·1148					
23. 59	15. 15	22. 38	·1137					
		23. 0	·1138 ***					
		23. 28	·1148					
		23. 59	·1145 ***					
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 37	22. 17. 0	0. 15	·1144 ***	0. 20	·01450	1. 40	56 ·0	58 ·0
1. 0	17. 20			2. 23:	·01260	3. 40	62 ·0	64 ·5
2. 12	14. 10	2. 35	·1138	3. 47	·00908	9. 40	64 ·7	67 ·0
2. 33	12. 0	3. 16	·1140	4. 2	·00932	21. 40	61 ·0	62 ·5
2. 45	12. 5	3. 38	·1133	8. 45	·00942			
3. 35	9. 15	3. 46	·1137	12. 15	·00890			
8. 50	10. 0	3. 52	·1131	15. 1:	·00963			
9. 10	7. 30	4. 3	·1143	20. 23:	·01228			
9. 27	1. 30	4. 40	·1118	23. 59	·01303			
10. 7	9. 25	5. 25	·1122					
10. 23	10. 40	6. 5	·1134					
11. 8	11. 15	6. 55	·1134					
11. 30	13. 25	7. 20	·1139 ***					
12. 8	11. 15							
12. 44	11. 50	8. 28	·1134					
13. 45	10. 0	9. 2	·1138					
14. 2	11. 5	9. 23	·1132					
14. 28	9. 30	9. 40	·1141					
15. 42	10. 20	10. 45	·1137					
16. 2	8. 50	12. 0	·1147					
16. 16	10. 0	12. 30	·1142 ***					

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.
Sept. 14		Sept. 14						
h m	° ′ ″	h m		h m		h m	°	°
16. 49	22. 9. 20	17. 5	·1142					
17. 15	10. 45	18. 15	·1148					
18. 20	7. 30	19. 3	·1142 ***					
21. 3	9. 50							
22. 3	13. 10	23. 5	·1140					
23. 59	15. 40							
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
1. 40	22. 14. 30*	0. 15	·1148	0. 15	·01302	1. 40	64 ·3	67 ·0
3. 40	15. 59*	1. 30	·1146	1. 58:	·01240	3. 40	64 ·5	67 ·0
9. 40	10. 34*	1. 35	·1150	4. 54	{ ·00928	9. 40	64 ·0	65 ·5
21. 45	8. 49*		***		{ ·00997	21. 45	62 ·0	63 ·3
		1. 45	·1144	6. 16	·00942			
		2. 16	·1156	10. 8:	·00930			
		3. 3	·1144	14. 24	·01045			
		3. 15	·1148 ***	14. 47	·01088			
				15. 20	·01071			
		3. 45	·1124 ***	18. 20:	·01242			
				23. 0	·01330			
		4. 8	·1126	23. 40	·01312			
		4. 30	·1110 ***					
		5. 14	·1133					
		5. 20	·1124 ***					
		5. 45	·1150					
		6. 0	·1138					
		6. 5	·1140					
		6. 20	·1126					
		7. 15	·1146					
		7. 50	·1140 ***					
		9. 40	·1142					
		10. 12	·1132 ***					
		10. 50	·1132					
		11. 0	·1144					
		11. 30	·1134					
		11. 44	·1150 ***					
		13. 23	·1150					
		13. 32	·1145					
		13. 40	·1151					
		14. 0	·1148 ***					
		14. 36	·1132 ***					
		15. 8	·1151 ***					
		16 20	·1146					
		18. 35	·1144					
		19. 0	·1148					
		19. 43	·1142 ***					
		21. 10	·1148 ***					
		22. 14	·1140					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

September 15. There was no Photographic Trace of the Declination Magnet.

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	° ′ ″	Sept. 15 h m		h m		h m	°	°
		22. 46	·1147					
		23. 15	·1145					
		23. 44	·1120					
		23. 59	·1126					
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 35	22. 18. 35	0. 20	·1134	0. 35	·01324	1. 40	64 ·0	65 ·0
1. 2	15. 0	0. 53	·1132	2. 47:	·01205	3. 40	65 ·0	66 ·5
1. 16	16. 30		***	5. 59	·00942	9. 40	65 ·8	67 ·0
1. 35	15. 0	1. 45	·1142		·00967	21. 40	60 ·0	62 ·0
2. 5	15. 0	2. 10	·1144	12. 15	·00950			
2. 32	12. 40	2. 33	·1138	15. 44:	·01040			
2. 53	13. 20	2. 57	·1144	21. 20:	·01327			
3. 50	9. 30	3. 25	·1140	23. 59	·01385			
6. 12	11. 25	3. 40	·1144					
7. 3	11. 0	4. 23	·1140					
8. 28	7. 0		***					
9. 5	9. 50	7. 40	·1144					
17. 38	9. 20	7. 50	·1154					
17. 50	8. 0	8. 6	·1156					
18. 18	9. 10	8. 35	·1146					
	***		***					
21. 28	9. 30	9. 34	·1138					
21. 36	11. 0	10. 14	·1142					
21. 52	10. 0	10. 30	·1140					
22. 50	12. 0	11. 0	·1144					
23. 4	11. 30	12. 55	·1146					
23. 12	13. 0	14. 0	·1143					
23. 59	12. 25		***					
		17. 45	·1148					
		19. 10	·1144					
		21. 40	·1142					
		22. 0	·1134					
		22. 46	·1140					
		23. 3	·1136					
		23. 30	·1145					
		23. 33	·1136					
		23. 59	·1136					
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 16	22. 12. 0	0. 12	·1138	0. 20	·01375	1. 40	64 ·0	65 ·0
4. 16	10. 0	0. 55	·1138	2. 13:	·01230	3. 40	68 ·0	69 ·5
5. 25	11. 30	1. 15	·1136	3. 24	·01030	9. 40	68 ·8	70 ·0
7. 46	11. 10	2. 15	·1128		·01058	23. 30	58 ·5	61 ·5
8. 28	10. 0		***	7. 12	·01028			
10. 4	9. 30	4. 16	·1129		·01262			
11. 7	5. 30	4. 30	·1136	8. 29	·01202			
11. 23	7. 10	4. 35	·1130	12. 0	·01410			
11. 46	4. 25	7. 45	·1134	13. 36	·01652			
12. 2	6. 0	11. 8	·1140	19. 0	·01562			
12. 23	6. 0	11. 27	·1159	22. 2	·01500			
12. 47	9. 15	12. 18	·1136	23. 59	·01510			
13. 20	7. 30	12. 46	·1144					
16. 0	10. 0	13. 10	·1144					
17. 54	9. 40	13. 15	·1138					
21. 17	7. 10	14. 3	·1142					
23. 32	11. 30	14. 20	·1136					
		16. 0	·1146					

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	° ′ ″	Sept. 17 h m		h m		h m	°	°
		20. 0	·1151					
		21. 13	·1146					
		23. 30	·1154					
		23. 59	·1152					
Sept. 18		Sept. 18		Sept. 18		Sept. 18		
0. 0	22. 14. 10	0. 15	·1148	0. 24	·01510	9. 40	64 ·5	66 ·5
0. 19	15. 0		***	3. 8	·01338	21. 40	64 ·5	66 ·5
0. 44	14. 0	0. 46	·1154	5. 20	·01062			
1. 43	16. 0	1. 0	·1149	6. 26	·00950			
2. 0	14. 40	1. 46	·1155	7. 45	·00987			
3. 47	12. 45	2. 0	·1150	8. 3	·00960			
5. 25	14. 0		***	8. 40	·00980			
5. 43	11. 30	3. 45	·1158	8. 51	·00957			
6. 2	13. 0	3. 50	·1153	9. 32	·00950			
6. 16	12. 0	3. 53	·1162	9. 47	·00953			
6. 27	12. 30	4. 9	·1164	10. 3	·00942			
6. 38	10. 50		***	10. 24	·00837			
6. 47	11. 10	4. 55	·1157	10. 32	·00843			
7. 3	8. 30	5. 23	·1129	10. 42	·00790			
7. 10	10. 0		***	10. 52	·00847			
7. 28	8. 10	7. 23	·1137	11. 3	·00788			
7. 40	3. 0		***	11. 15	·00819			
7. 51	22. 8. 25	8. 17	·1130	11. 24	·00810			
8. 14	21. 59. 50	8. 29	·1138	12. 46	·00858			
8. 30	22. 6. 5	8. 34	·1131	12. 58	·00838			
8. 35	4. 20	8. 41	·1142	14. 2	·00958			
8. 43	22. 11. 30	9. 0	·1108	14. 38	·00962			
9. 6	21. 58. 0	9. 14	·1120	18. 7	·01312			
9. 28	22. 2. 30	9. 34	·1112	19. 18	·01510			
9. 38	22. 9. 0	9. 53	·1094	22. 32	·01461			
10. 3	21. 58. 30	10. 19	·1148	23. 59	·01485			
10. 10	22. 1. 0	10. 30	·1106					
10. 15	21. 57. 50	10. 35	·1122					
10. 22	22. 8. 15	10. 45	·1108					
10. 30	21. 59. 15	10. 55	·1148					
10. 38	22. 1. 0	11. 8	·1096					
10. 47	21. 56. 35	11. 23	·1137					
10. 58	22. 8. 50	11. 55	·1100					
11. 12	21. 52. 0	12. 9	·1104					
11. 25	22. 0. 0	12. 18	·1113					
11. 44	22. 2. 45		***					
12. 9	21. 57. 0	12. 46	·1106					
12. 18	58. 45	13. 5	·1107					
12. 43	21. 58. 35	13. 20	·1119					
12. 54	22. 8. 30	13. 46	·1114					
13. 12	3. 0	14. 4	·1126					
13. 28	5. 10	14. 30	·1127					
13. 48	0. 50	15. 0	·1105					
	***	15. 29	·1142					
14. 27	4. 0	16. 23	·1138					
14. 35	2. 30	16. 34	·1151					
14. 53	6. 10	17. 8	·1140					
	***	17. 30	·1143					
16. 12	5. 30	18. 0	·1118					
16. 23	1. 0	18. 23	·1122					
16. 35	2. 45	19. 10	·1144					
16. 44	2. 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.
Sept. 18		Sept. 18						
h m	° ′ ″	h m		h m		h m	°	°
17. 45	22. 14. 50	19. 36	·1136					
18. 8	14. 10	19. 45	·1151					
18. 14	15. 5	19. 58	·1136					
	***	20. 4	·1138					
19. 18	10. 20	20. 13	·1123					
	***	20. 21	·1130					
21. 2	10. 0	20. 30	·1132					
21. 8	9. 0	20. 35	·1124					
	***		***					
21. 39	9. 50	23. 59	·1119					
21. 52	11. 30							
	***							
23. 20	13. 30							
23. 30	15. 15							
23. 59	13. 30							
Sept. 19		Sept. 19		Sept. 19		Sept. 19		
1. 2	22. 14. 35	0. 15	·1124	0. 11	·01485	1. 40	60 ·2	62 ·0
2. 30	12. 15	0. 30	·1119	2. 23:	·01228	3. 40	64 ·0	66 ·5
3. 13	12. 30	1. 0	·1122	3. 17	·00980	9. 40	66 ·0	67 ·0
4. 5	9. 10	2. 30	·1121	3. 37	·01014	21. 40	59 ·7	61 ·0
4. 48	8. 50		***	5. 35	·01025			
5. 22	7. 10	4. 0	·1124	9. 29	·00955			
6. 30	12. 10	4. 38	·1128	13. 2	·01135			
6. 43	10. 0	5. 0	·1122	14. 5	·01192			
8. 4	7. 10		***	18. 30	·01583			
8. 10	10. 0	7. 46	·1142	23. 2	·01514			
8. 17	7. 50	8. 3	·1136	23. 59	·01525			
9. 35	8. 30	8. 11	·1140					
10. 27	6. 0	10. 0	·1127					
11. 43	9. 10	10. 16	·1134					
12. 47	6. 40	10. 55	·1124					
13. 57	11. 50	11. 28	·1132					
14. 54	5. 30	11. 40	·1133					
	***	12. 30	·1134					
16. 51	7. 30	13. 0	·1127					
17. 15	6. 0	13. 25	·1151					
19. 5	9. 30	13. 45	·1152					
19. 35	6. 35	14. 30	·1136					
19. 49	7. 50	14. 50	·1136					
20. 2	6. 0	15. 15	·1132					
20. 22	6. 45	16. 35	·1134					
20. 36	5. 50	16. 50	·1140					
20. 55	7. 25	17. 55	·1128					
22. 22	9. 10	19. 5	·1132					
22. 42	11. 35	19. 30	·1128					
22. 51	10. 40	19. 46	·1134					
23. 48	10. 45	19. 58	·1132					
23. 59	15. 0	20. 10	·1136					
		20. 15	·1130					
		20. 38	·1130					
		22. 50	·1120					
		23. 23	·1126					
		23. 40	·1124					
		23. 59	·1122					
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
0. 16	22. 14. 0	0. 15	·1104	0. 35	·01558	1. 40	60 ·0	62 ·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.
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
h m	° ′ ″	h m		h m		h m	°	°
0. 32	22. 19. 20	0. 32	·1124	2. 28	·01510	3. 40	63 ·0	65 ·0
0. 47	18. 20	0. 38	·1117	3. 43	·01432	9. 40	63 ·0	65 ·0
0. 57	19. 30	1. 0	·1126	7. 13	·00988	21. 40	55 ·0	57 ·0
1. 35	16. 30		***	9. 48	·00878			
2. 0	17. 0	1. 35	·1112	12. 21:	·01073			
2. 28:	20. 30		***	16. 7	{·01503			
2. 44	19. 0	1. 46	·1122		{·01490			
3. 2	21. 0	1. 59	·1118	23. 59	·01442			
3. 33	8. 30		***					
3. 40	10. 30	2. 33	·1128					
4. 3:	6. 50	2. 35	·1123					
4. 35	11. 50	3. 0	·1126					
4. 57	10. 35	3. 10	·1110					
5. 36	11. 0	3. 40	·1142					
5. 55	12. 35	3. 50	·1132					
6. 20	10. 30	4 4	·1143					
7. 38	9. 50	4. 38	·1135					
7. 59	10. 50	5. 16	·1136					
8. 20	7. 10	5. 35	·1126					
8. 30	8. 0	5. 50	·1130					
8. 47	5. 0	6. 8	·1122					
9. 2	7. 25	6. 16	·1137					
9. 11	5. 45	6. 25	·1132					
9. 35:	12. 30		***					
9. 57	9. 50	7. 40	·1134					
10. 28	9. 10	7. 45	·1138					
10. 57	11. 0	8. 5	·1130					
11. 28	9. 30	8. 53	·1144					
12. 51	13. 10	9. 3	·1140					
13. 2	15. 0	9. 16	·1169					
	***	9. 53	·1138					
16. 7	8. 35	10. 15	·1142					
17. 15	13. 50		***					
17. 50	11. 0	12. 0	·1140					
18. 10	3. 15	12. 16	·1143					
18. 47	9. 50	12. 33	·1140					
21. 43	10. 0	13. 44	·1150					
23. 45	17. 10	14. 20	·1144					
		16. 14	·1150					
		16. 30	·1145					
		16. 38	·1146					
		17. 0	·1132					
		17. 53	·1146					
		18. 0	·1142					
		18. 45	·1148					
		20. 50	·1133					
			***					
		23. 14	·1131					
		23. 45	·1138					
Sept. 21		Sept. 21		Sept. 21		Sept. 21		
0. 0	22. 17. 30	0. 45	·1140	0. 17	·01430	1. 40	59 ·0	60 ·7
0. 22	17. 50	0. 57	·1131	2. 19:	·01218	3. 40	63 ·3	65 ·0
0. 46	20. 0	1. 23	·1136	3. 43	·00885	9. 40	63 ·0	65 ·0
1. 7	18. 20	1. 32	·1132	5. 0	·00921	21. 40	56 ·3	59 ·0
1. 32	19. 0	2. 44	·1142	7. 53	·00917			
1. 43	18. 0	4. 45	·1143	9. 58	·00882			
5. 15	10. 5	5. 20	·1138	11. 32	·00900			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.
Sept. 21		Sept. 21		Sept. 21				
h m	° ′ ″	h m		h m		h m	°	°
7. 18	22. 9. 5	5. 46	·1142	14. 10:	·01138			
8. 31	10. 0	6. 0	·1138	17. 13	·01513			
9. 2	9. 0	6. 45	·1146	17. 37	·01495			
9. 33	10. 20	7. 8	·1142	22. 7	·01485			
10. 48	11. 0	7. 25	·1146	23. 59	·01432			
11. 13	12. 20	8. 30	·1137					
11. 46	10. 15	8. 45	·1144					
17. 32	12. 25	10. 0	·1144					
20. 0	9. 30	10. 30	·1153					
20. 31	7. 50	10. 45	·1150					
21. 33	7. 50	10. 54	·1158					
23. 10	12. 20	11. 16	·1158					
23. 59	13. 0	11. 33	·1152					
		12. 0	·1143					
		16. 20	·1144					
		16. 53	·1146					
		19. 2	·1138					
			***					
		20. 10	·1146					
		20. 38	·1138					
		21. 53	·1135					
		23. 35	·1124					
		23. 59	·1130					
Sept. 22		Sept. 22		Sept. 22		Sept. 22		
0. 30	22. 14. 0	0. 0	·1130	0. 23	·01412	1. 40	57 ·0	61 ·0
1. 42	16. 0	1. 0	·1132	1. 46:	·01250	3. 40	63 ·5	64 ·0
2. 55	15. 0	1. 20	·1128	3. 20	·00907	9. 40	63 ·5	65 ·0
6. 0	10. 30	2. 15	·1128	6. 17	·00924	21. 40	61 ·0	62 ·5
7. 48	11. 35	6. 8	·1144	14. 7	·00888			
13. 47	12. 0	15. 0	·1146	23. 0	·01175			
13. 55	12. 45	18. 0	·1154	23. 59	·01200			
14. 46	11. 15	18. 33	·1150					
16. 31	10. 45	18. 45	·1156					
18. 40	11. 40	22. 30	·1118					
19. 36	11. 0	23. 15	·1116					
19. 42	10. 0	23. 59	·1124					
21. 2	9. 10							
22. 14	11. 0							
23. 58	14. 45							
Sept. 23		Sept. 23		Sept. 23		Sept. 23		
0. 30	22. 18. 25	0. 4	·1124	0. 40	·01000	1. 40	61 ·5	63 ·2
0. 45	18. 30	0. 10	·1122	2. 24:	·01050	3. 40	62 ·3	62 ·7
0. 55	17. 0	0. 25	·1128	7. 10:	·00752	9. 40	60 ·0	62 ·3
1. 48	17. 45	0. 30	·1130	14. 0	·01340	21. 40	53 ·7	55 ·0
2. 14	19. 10	1. 5	·1130	17. 45:	·01265			
3. 15	15. 0	2. 38	·1122	20. 0:	·01290			
8. 2	8. 50	4. 40	·1128	23. 45	·01252			
9. 3	11. 10	5. 45	·1120					
11. 4	11. 0	7. 30	·1128					
15. 10	12. 30	7. 42	·1124					
17. 47	11. 5	8. 0	·1127					
19. 39	11. 10	9. 10	·1128					
20. 12	8. 0		***					
21. 7	6. 40	9. 38	·1124					
22. 46	9. 55	10. 45	·1124					
23. 52	13. 10	11. 20	·1130					

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.
		Sept. 23						
h m	° ′ ″	h m		h m		h m	°	°
		12. 40	·1132					
		15. 30	·1128					
		17. 20	·1134					
		19. 25	·1132					
		21. 30	·1122					
		22. 46	·1112					
		23. 20	·1128					
		23. 46	·1116					
Sept. 24		Sept. 24		Sept. 24		Sept. 24		
0. 14	22. 12. 0	0. 0	·1116	0. 0	·01250	1. 40	56 ·5	57 ·5
2. 0	12. 0	1. 35	·1128	2. 0:	·00940	3. 40	59 ·5	60 ·0
5. 47	6. 40	3. 0	·1127	3. 10	·00530	9. 40	59 ·0	60 ·0
6. 53	7. 0		(†)	8. 45	·00495	23. 10	54 ·0	55 ·0
8. 2	4. 35	10. 4	·1133	10. 16:	·00540			
9. 15	8. 20	11. 30	·1130	14. 13:	·00938			
9. 43	6. 0	17. 20	·1138	16. 27	·01298			
10. 28	8. 20	17. 55	·1134	16. 35	·01275			
13. 19	9. 30	19. 5	·1144	21. 30	·01300			
14. 32	7. 40	19. 30	·1142	23. 24	·01262			
15. 2	9. 0	20. 50	·1153					
16. 52	6. 0	22. 45	·1150					
17. 48	6. 0	22. 59	·1158					
18. 53	8. 15	23. 22	·1146					
19. 28	6. 10	23. 59	·1141					
20. 1	8. 0							
20. 10	6. 10							
20. 43	6. 35							
	(†)							
Sept. 25		Sept. 25		Sept. 25		Sept. 25		
	(†)	0. 0	·1147	0. 0	·01252	12. 0	58 ·0	59 ·5
5. 12	22. 10. 0	0. 38	·1138	3. 8:	·00985	21. 40	54 ·0	57 ·0
7. 21	10. 0		***	5. 38	·00525			
8. 6	2. 30	3. 45	·1160	8. 30	·00575			
8. 47	6. 35	4. 20	·1162	11. 30	·00510			
9. 48	8. 20	4. 46	·1150	16. 15:	·00771			
11. 28	7. 40	5. 0	·1158	21. 45	·01285			
11. 55	7. 15	5. 36	·1149	23. 57	·01252			
13. 24:	2. 0	6. 54	·1158					
14. 36	7. 0	7. 23	·1156					
17. 8	7. 10	8. 0	·1146					
	***	8. 32	·1154					
20. 2	5. 15	8. 57	·1149					
20. 52	8. 10		***					
	***	10. 5	·1154					
21. 42	6. 0	11. 35	·1148					
22. 13	10. 0	12. 0	·1141					
22. 38	10. 10	12. 10	·1146					
23. 13	14. 10	13. 25	·1166					
23. 47	15. 20	14. 50	·1140					
		17. 0	·1142					
		17. 10	·1147					
		18. 45	·1143					
			***					
		19. 30	·1146					
		19. 55	·1136					

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

Sept. 25. At 5^{h} it was found that a spider had affixed its thread to one end of the Magnet: it is probable that this disturbance originated on September 24^{d}. 21^{h}.

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	° ′ ″	Sept. 25 h m		h m		h m	°	°
		19. 59	·1142					
		20. 30	·1126					
		21. 8	·1122					
		21. 23	·1126					
		21. 34	·1120					
		21. 45	·1132					
		22. 45	·1108					
		23. 0	·1109					
		23. 10	·1104					
		23. 40	·1111					
		23. 54	·1116					
Sept. 26		Sept. 26		Sept. 26		Sept. 26		
1. 32	22. 19. 0	0. 15	·1119	0. 0	·01243	1. 40	56 ·0	60 ·0
2. 13	18. 5	0. 30	·1124	3. 5:	·00995	3. 40	58 ·5	60 ·0
3. 8	14. 0	2. 50	·1120	5. 15	·00540	9. 40	59 ·0	60 ·0
3. 42	14. 25	4. 8	·1128	7. 35	{·00560	21. 40	52 ·0	54 ·0
4. 23	12. 30	4. 35	·1133		{·00975			
4. 47	13. 0	5. 16	·1128	9. 30	·00864			
5. 33	10. 40	5. 55	·1136	14. 0	·01050			
6. 8	10. 45		***	16. 30	·01341			
6. 46	11. 40	11. 55	·1126	23. 59	·01230			
7. 5	10. 55	13. 17	·1124					
10. 44	12. 50	13. 25	·1128					
17. 36	12. 0	13. 30	·1123					
17. 48	14. 0	16. 56	·1118					
17. 53	13. 0	17. 40	·1124					
18. 13	14. 45	17. 55	·1118					
	***	18. 15	·1124					
19. 5	10. 20		***					
19. 25	11. 0	21. 53	·1109					
19. 32	13. 35	22. 0	·1120					
	***	22. 16	·1112					
20. 5	9. 55	23. 59	·1116					
	***							
21. 48	10. 35							
21. 58	8. 30							
22. 6	11. 30							
22. 17	11. 10							
23. 59	15. 25							
Sept. 27		Sept. 27		Sept. 27		Sept. 27		
0. 20	22. 15. 45	3. 47	·1128	0. 5	·01220	1. 40	54 ·5	57 ·0
0. 43	14. 15	4. 30	·1130	3. 0:	·00920	3. 40	60 ·5	62 ·3
2. 35	13. 55		***	4. 40	·00556	9. 40	61 ·5	62 ·3
2. 46	12. 10	4. 55	·1122	10. 14	{·00600	21. 40	60 ·5	62 ·0
4. 40	11. 10	5. 32	·1132		{·00780			
6. 1	8. 35	6. 9	·1124	10. 45	·00780			
8. 5	10. 0	9. 10	·1130	12. 15	·00540			
9. 21	10. 30		***		***			
10. 23	7. 25	10. 15	·1123	13. 10	·00545			
10. 43	9. 20	10. 20	·1114		***			
11. 3	1. 45	10. 58	·1148	13. 50	·00446			
11. 10	2. 15	11. 45	·1101	14. 35	·00475			
11. 35	3. 5	12. 0	·1104	15. 23	·00220			
11. 46	22. 1. 30	12. 19	·1078	15. 25	·00249			
12. 1	21. 53. 30		***	15. 28	·00220			
12. 8	52. 10	12. 53	·1094	16. 0:	·00460			

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.
Sept. 27 h m	° ′ ″	Sept. 27 h m		Sept. 27 h m		h m	°	°
12. 18	21. 53. 20	13. 1	·1088	21. 45:	·00766			
12. 28	51. 40	13. 16	·1095	23. 59	·00660			
13. 13	54. 0	13. 30	·1088					
13. 23	59. 45	15. 0	·1048					
13. 35	56. 50		***					
13. 44	57. 20	15. 58	·1110					
13. 55	55. 0	16. 5	·1108					
14. 31	21. 56. 10		***					
14. 51	22. 4. 35	16. 30	·1124					
14. 58	3. 20	17. 8	·1101					
15. 12	11. 45	17. 50	·1096					
15. 33	22. 0. 40	18. 0	·1091					
	***		***					
15. 55	21. 56. 45	18. 50	·1101					
	***	19. 0	·1096					
16. 36	21. 55. 40	19. 8	·1105					
	***	19. 29	·1084					
17. 22	22. 1. 30		***					
17. 46	9. 50	19. 53	·1088					
18. 36	11. 30	20. 10	·1082					
19. 15	11. 0	20. 20	·1067					
19. 35	12. 0	20. 35	·1068					
19. 53	11. 30	20. 50	·1052					
20. 16	14. 20		***					
	***	21. 3	·1049					
21. 6	13. 30	21. 15	·1058					
	***		***					
21. 18	17. 0	22. 30	·1064					
	***	22. 40	·1058					
22. 0	20. 0		***					
22. 55	20. 35	23. 20	·1070					
23. 29	23. 30	23. 45	·1068					
23. 48	22. 0	23. 59	·1073					
Sept. 28		Sept. 28		Sept. 28		Sept. 28		
0. 16	22. 23. 0	0. 30	·1087	0. 24	{·00625	1. 40	63 ·0	65 ·0
1. 18	22. 30	0. 40	·1079		{·00740	3. 40	65 ·0	66 ·5
	(†)	0. 47	·1083	1. 0	{·00720	9. 40	66 ·0	67 ·0
1. 40	22. 7*	0. 53	·1077		{·00798	21. 40	57 ·6	60 ·0
	(†)	1. 10	·1086		***			
3. 40	14. 50*	1. 29	·1058	3. 15	·00902			
	(†)	1. 43	·1068		(†)			
9. 41	11. 20		***	9. 45	·00979			
13. 21	11. 10	2. 0	·1066	19. 0	·01020			
13. 48	10. 0	2. 9	·1083	22. 8	·01160			
14. 24	11. 0	2. 24	·1106					
14. 50	14. 20	2. 30	·1117					
15. 51	9. 0	2. 45	·1109					
16. 46	8. 0	2. 50	·1112					
17. 5	10. 30	3. 8	·1104					
17. 53	14. 0		(†)					
18. 28	13. 10	9. 41	·1124					
19. 3	9. 35	16. 10	·1126					
22. 12	9. 40	16. 45	·1124					
		17. 15	·1110					
		18. 16:	·1128					
		18. 34	·1123					
		18. 50	·1126					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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	° ′ ″	Sept. 28 h m		h m		h m	°	°
		19. 44	·1112					
		20. 0	·1118					
		20. 30	·1108					
		21. 10	·1110					
		21. 20	·1104 ***					
		22. 10	·1109 (†)					
Sept. 29		Sept. 29		Sept. 29		Sept. 29		
0. 32	22. 13. 45	0. 30	·1116	1. 17	·01160	1. 40	59 ·0	63 ·0
2. 27	14. 35	1. 10	·1122	4. 3	·01178	3. 40	63 ·0	64 ·4
2. 48	13. 10	2. 15	·1126		·01513	9. 40	63 ·2	63 ·5
6. 14	9. 40 ***	3. 55	·1118	6. 27	·01517	21. 40	58 ·5	60 ·0
		5. 30	·1114 ***	9. 0:	·01580·			
8. 38	7. 55			11. 38	·01538			
10. 8	10. 0	6. 17	·1120	23. 30	·01475			
10. 22	5. 30	6. 25	·1116	23. 59	·01460			
10. 40	9. 0	6. 55	·1119					
10. 55	8. 45	7. 32	·1115					
11. 13	10. 45	8. 30	·1123					
11. 36:	11. 0	8. 44	·1118 ***					
12. 5:	10. 10							
12. 29	9. 20	10. 15	·1120					
13. 15	9. 40	10. 34	·1142					
14. 14	11. 30	10. 53	·1124					
16. 18	10. 0	11. 4	·1123					
17. 30:	13. 30	11. 14	·1134					
18. 14	10. 5	11. 55	·1122 ***					
21. 5	10. 35							
21. 49	9. 30	14. 35	·1118					
23. 0	12. 30	15. 50	·1120 ***					
23. 14	12. 10							
23. 59	15. 0	18. 45	·1121					
		19. 8	·1118					
		19. 55	·1122					
		20. 45	·1108 ***					
		22. 13	·1104 ***					
		22. 58	·1159					
		23. 14	·1094					
		23. 50	·1100					
Sept. 30		Sept. 30		Sept. 30		Sept. 30		
0. 24	22. 14. 35	0. 8	·1110 ***	1. 0	·01405	1. 40	60 ·0	62 ·5
3. 32	13. 30			8. 0:	·00840	3. 40	63 ·0	65 ·0
5. 17	10. 10	0. 50	·1113	13. 23	·01190	9. 40	61 ·0	62 ·5
6. 28	11. 5	1. 0	·1112 ***	13. 45:	·01190	21. 40	56 ·0	59 ·0
7. 28	10. 50			15. 27	·01418			
8. 27	11. 25	3. 45	·1124		·01387			
8. 46	9. 0	4. 32	·1132	23. 59	·01382			
9. 13	22. 8. 25	5. 16	·1132					
9. 44	21. 57. 0	5. 54	·1140 ***					
10. 15	22. 6. 45							
10. 22	6. 30	8. 20	·1137 ***					
10. 37	10. 30							
11. 7:	8. 10	10. 16	·1120 ***					

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.
Sept. 30 h m	° ′ ″	Sept. 30 h m		h m		h m	°	°
12. 13	22. 11. 25	11. 0	·1132					
12. 35	9. 50	11. 30	·1124					
13. 13	11. 45	13. 5	·1122					
13. 32	16. 35	13. 30	·1135					
13. 58	12. 0	14. 10	·1119					
15. 54	8. 10	14. 25	·1124 ***					
16. 25	9. 45							
16. 41	8. 55	16. 15	·1116					
17. 18	9. 30	16. 57	·1121					
19. 13	8. 45	18. 34	·1118					
20. 17	12. 10	19. 2	·1120					
20. 33	11. 0	19. 38	·1107 ***					
20. 55	12. 0							
21. 30	11. 20	22. 13	·1102 ***					
23. 59	19. 0							
		23. 10	·1112 ***					
		23. 59	·1114					
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
0. 7	22. 19. 0	0. 0	·1114	0. 10	·01385	1. 40	57 ·0	58 ·0
0. 43	18. 25	0. 34:	·1116	2. 55	·01330	3. 40	58 ·0	59 ·0
1. 50	20. 45	1. 44	·1134		(†)	9. 40	58 ·5	59 ·5
2. 24	18. 50	2. 8	·1130	9. 45	·00773	23. 0	53 ·0	55 ·0
2. 55	20. 20 (†)	2. 49	·1136 (†)	12. 45:	·00928			
3. 40	18. 34* (†)	9. 45	·1147	16. 28	·01360			
		12. 0	·1145		·01328			
9. 47	11. 0	13. 15	·1148	21. 45	·01335			
11. 28	9. 35	14. 7	·1142	23. 23	·01312			
11. 43	11. 10	16. 5	·1142					
12. 0	10. 30	16. 50	·1146					
12. 23:	12. 25	17. 30	·1142					
12. 55	9. 25	18. 53	·1142					
13. 43	8. 50	22. 20	·1127					
15. 16	10. 55	23. 20	·1129					
16. 1	10. 50	23. 59	·1130					
16. 26	12. 0							
17. 17	10. 45							
19. 0	10. 35							
21. 3	8. 0							
21. 53	8. 50							
23. 20	12. 20							
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
0. 0	22. 13. 50	0. 0	·1130	0. 20	·01320	10. 40	54 ·0	55 ·0
0. 57	15. 5	2. 0	·1150	2. 15:	·01250	21. 40	50 ·0	52 ·0
1. 35	14. 30	2. 17	·1148	7. 15	·00695 (†)			
2. 0	15. 30	3. 35	·1153					
2. 23	13. 45 (†)	3. 50	·1148	10. 45	·00670			
11. 5	9. 30	4. 40	·1152 (†)	17. 48	·01293			
14. 34	10. 35	11. 0	·1138		·01260			
15. 22	10. 0	12. 17	·1134	21. 55	·01300			
15. 47	11. 15	15. 52	·1135	22. 10	·01200			
16. 24	10. 30	18. 45	·1142	23. 59:	·01130			
17. 8	11. 10	22. 25	·1116					
18. 17	9. 35	23. 15	·1122					

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. 2		Oct. 2						
h m	° ′ ″	h m		h m		h m	°	°
19. 10	22. 10. 5	23. 59	·1125					
21. 32	7. 45							
23. 59	13. 30							
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
0. 8	22. 13. 45	0. 25	·1126	1. 47	·00958	1. 40	50 ·0	52 ·5
1. 0	15. 20	1. 4	·1134	3. 53	·00555	3. 40	55 ·0	55 ·0
	(†)		(†)	4. 10	·00580	9. 45	54 ·0	56 ·0
4. 0	11. 50	4. 15	·1150	9. 40	·00525	21. 40	50 ·0	52 ·0
5. 18	9. 15	7. 35	·1160	11. 45:	·00605			
7. 18	8. 15	9. 4	·1155	19. 43	·01390			
8. 46	11. 0	9. 20	·1167	23. 15	·01360			
9. 15	10. 0	9. 33	·1158	23. 59	·01333			
9. 23	10. 20	10. 0	·1160					
9. 52	5. 30	12. 45	·1152					
10. 58	9. 0	13. 30	·1150					
16. 14	11. 0	15. 53	·1152					
18. 20	10. 0	18. 25	·1158					
20. 22	7. 45	22. 50	·1138					
22. 21	9. 10		***					
23. 59	13. 0	23. 59	·1142					
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
0. 7	22. 13. 25	0. 30	·1146	1. 15	·01215	1. 40	53 ·5	55 ·0
1. 7	14. 25	1. 30	·1152	5. 10	·00610	3. 40	55 ·0	57 ·0
3. 48	13. 0	3. 40	·1162	6. 45:	·00620	9. 40	57 ·5	58 ·0
4. 55	11. 10	4. 45	·1156	10. 8:	·00665	21. 40	56 ·5	57 ·0
6. 47	12. 40	6. 45	·1159	12. 25	·00620			
10. 5	11. 15	7. 0	·1154	16. 0:	·00614			
14. 31	12. 20	7. 10	·1164	20. 0:	·00655			
21. 0	13. 0	7. 30	·1156	22. 35	·00620			
		8. 30	·1157	23. 59	·00626			
			***					
		9. 34	·1149					
			***					
		10. 55	·1158					
		11. 46	·1154					
		12. 15	·1162					
		13. 10	·1156					
		13. 53	·1160					
		14. 47	·1150					
		15. 45	·1156					
		19. 0	·1160					
		20. 7	·1150					
		21. 30	·1154					
		22. 35	·1144					
		23. 59	·1138					
		Oct. 5		Oct. 5		Oct. 5		
		0. 0	·1138	1. 0	·00780	1. 40	58 ·0	59 ·0
		0. 20	·1136	2. 30:	·00770	3. 40	59 ·0	61 ·0
		3. 0	·1144	4. 30:	·00800	9. 40	59 ·0	61 ·5
		3. 10	·1149	9. 0:	·00760	21. 40	54 ·0	56 ·0
		3. 38	·1144	15. 30:	·01055			
		4. 4	·1150	19. 50	·01520			
		5. 46	·1151	23. 30	·01452			
		6. 15	·1156					
		10. 3	·1158					

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. 5						
h m	° ′ ″	h m		h m		h m	°	°
		12. 15	·1165					
		15. 20	·1163					
		19. 10	·1170					
		21. 40	·1158					
		22. 15	·1149					
		23. 35	·1147					
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
0. 0	22. 10. 0	0. 30	·1146	0. 0	·01452	1. 40	54 ·0	57 ·0
0. 50	13. 5	1. 3	·1144	1. 45	·01455	3. 40	56 ·0	57 ·5
1. 11	12. 40	2. 0	·1153	8. 30:	·01062	9. 40	57 ·0	57 ·6
2. 0	14. 0	4. 40	·1160	15. 30:	·01040	21. 40	53 ·5	55 ·0
3. 8	12. 40	5. 23	·1156	20. 45:	·01120			
5. 14	8. 0	8. 0	·1160	23. 59	·01060			
8. 10	5. 40	18. 30	·1166					
8. 43	6. 10	22. 5	·1154					
12. 25	5. 30	23. 40	·1140					
15. 0	6. 0	23. 59	·1142					
15. 43	5. 0							
16. 21	5. 50							
18. 17	4. 30							
19. 23	6. 0							
20. 53	3. 20							
21. 54	3. 30							
23. 59	8. 30							
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
0. 7	22. 9. 50	0. 0	·1142	0. 15	·01045	1. 40	56 ·5	57 ·5
1. 17:	13. 30	1. 8	·1148	2. 14:	·00930	3. 40	58 ·5	60 ·0
1. 53	12. 10	1. 53	·1143	3. 27	·00755	9. 40	60 ·5	61 ·5
2. 15	13. 0	2. 44	·1148	3. 50:	·00784	21. 40	57 ·5	59 ·5
3. 30	11. 25	11. 30	·1154	12. 15	·00770			
5. 38	7. 0	19. 0	·1160	16. 0:	·00828			
11. 17	5. 10	23. 0	·1137	20. 45:	·00960			
18. 47	5. 30	23. 59	·1136	23. 15	·00950			
21. 3	2. 0			23. 59	·00905			
22. 22	3. 0							
23. 59	8. 30							
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 25	22. 9. 35	0. 0	·1136	0. 15	·00890	1. 40	59 ·8	61 ·5
2. 31	11. 30	3. 50	·1142	2. 20	·00760	3. 40	62 ·0	62 ·5
5. 50	7. 0	7. 40	·1152		·00790	9. 40	62 ·0	62 ·5
8. 32	6. 40	7. 57	·1148	4. 15:	·00865	23. 10	55 ·5	56 ·5
9. 17	8. 10	8. 40	·1152	6. 45:	·00868			
10. 30	6. 5	9. 8	·1148	7. 8:	·00934			
11. 57	7. 0	9. 35	·1154	8. 30:	·00930			
12. 24:	5. 0	10. 0	·1150	14. 15	·01190			
12. 47	7. 25	11. 50	·1154	17. 53	·01570			
13. 12	4. 50	12. 40	·1154	23. 12	·01480			
17. 40	6. 10	12. 55	·1150					
19. 30	5. 50	20. 20	·1162					
20. 38	4. 0	23. 15	·1150					
21. 58	4. 0	23. 38	·1150					
23. 59	10. 15	23. 57	·1146					
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
0. 15	22. 11. 10	0. 0	·1148	0. 15	·01475	10. 40	60 ·0	60 ·3

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

Oct. 5. The Declination Magnet was at times resting on the copper damper, and consequently the observations are not used.

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. 9 h m	° ′ ″	Oct. 9 h m		Oct. 9 h m		Oct. 9 h m	°	°
1. 30	22. 14. 0	0. 38	·1150	3. 45:	·01250	21. 40	64 ·0	64 ·0
5. 12	6. 40	2. 20	·1142	6. 15	·00803			
7. 45	5. 50		***	6. 30:	·00820			
9. 51	7. 0	5. 40	·1148	11. 30	·00790			
	***	5. 47	·1154	14. 45:	·00963			
10. 52	2. 50	5. 52	·1148	19. 0	·01495			
	***		***	19. 30:	·01470			
11. 28	22. 3. 40	7. 40	·1150	23. 59	·01460			
	***	7. 50	·1158					
13. 6	21. 59. 0	8. 6	·1148					
	***	8. 25	·1150					
14. 24	22. 7. 5	8. 30	·1144					
14. 45	5. 0	8. 34	·1149					
15. 48	5. 25	9. 25	·1146					
16. 50	4. 0		***					
18. 8	6. 0	9. 40	·1156					
20. 1	6. 0	9. 49	·1146					
20. 47	3. 35	10. 0	·1161					
22. 8	4. 40	10. 23	·1150					
23. 59	8. 0	10. 30	·1150					
		10. 45	·1156					
		10. 55	·1154					
		11. 5	·1158					
		11. 15	·1154					
		12. 15	·1155					
		12. 20	·1160					
		13. 13	·1146					
			***					
		14. 44	·1158					
		15. 14	·1154					
		15. 45	·1162					
		16. 45	·1164					
		17. 40	·1156					
		20. 10	·1163					
		23. 15	·1148					
		23. 59	·1146					
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
0. 14	22. 9. 30	0. 0	·1146	1. 0	·01440	1. 40	58 ·5	61 ·0
1. 7	11. 30	0. 45	·1150	2. 45:	·01260	3. 40	59 ·0	61 ·0
1. 40	10. 0	1. 38	·1142	3. 53	·00800	9. 40	62 ·0	62 ·5
3. 1	11. 5	1. 52	·1146	6. 38:	·00870	21. 40	54 ·0	56 ·0
5. 2	7. 30	2. 40	·1141	9. 25:	·00816			
5. 28	3. 30	3. 0	·1147	12. 20	{·00825			
5. 41	4. 35		***		{·01170			
6. 23	0. 20	3. 45	·1140	15. 30:	·01163			
6. 44	4. 30	5. 0	·1143	21. 5:	·01370			
7. 49	22. 5. 10	5. 23	·1136	23. 15:	·01398			
8. 13	21. 54. 50	5. 47	·1145	23. 59	·01390			
8. 28	57. 30		***					
8. 43	21. 55. 25	6. 15	·1135					
9. 18	22. 0. 20		***					
9. 29	21. 59. 30	7. 15	·1147					
10. 0	22. 4. 0	8. 5	·1137					
10. 33	5. 0	8. 23	·1149					
11. 25	4. 20	8. 37	·1138					
12. 22	5. 40	8. 57:	·1144					
13. 6	5. 0	9. 23	·1134					

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. 10 h m	° ′ ″	Oct. 10 h m		h m		h m	°	°
14. 14	22. 5. 45	10. 0	·1142					
14. 28	8. 30	12. 35	·1147					
15. 35	4. 0	14. 33	·1150					
15. 53	5. 0	14. 50	·1156					
18. 40	3. 30	15. 55	·1150					
20. 53	4. 10	18. 20	·1154					
22. 27	7. 40	19. 30	·1152					
22. 43	10. 0	20. 35	·1140					
23. 30	11. 0	22. 17	·1132					
23. 59	9. 0	23. 59	·1130					
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
0. 17	22. 8. 10	0. 0	·1130	0. 38	·01365	1. 40	58 ·5	61 ·0
0. 31	8. 15	0. 35	·1134	3. 40:	·01082	3. 40	62 ·8	63 ·5
1. 52	11. 0	1. 50	·1135	4. 15	·01060	9. 40	63 ·0	63 ·0
	***	2. 13	·1128	4. 28	·01234	21. 40	58 ·5	59 ·5
2. 49	9. 50	2. 20	·1131	5. 35	·01160			
2. 51	11. 5	2. 35	·1125	14. 45	·01449			
5. 30	7. 0	2. 50	·1133	17. 40	·01654			
6. 51	6. 25	3. 55	·1130	19. 15:	·01640			
6. 56	6. 20		***	20. 35	·01670			
8. 0	6. 55	5. 0	·1140	22. 8	{·01428			
9. 53	6. 20	5. 15	·1132		{·01685			
10. 13	5. 10		***	23. 59	·01490			
13. 30	7. 0	7. 20	·1140					
13. 45	8. 50	10. 0	·1146					
14. 21	9. 0	13. 20	·1152					
14. 36	7. 0	13. 53:	·1148					
15. 26	6. 0	14. 30	·1156					
15. 35	6. 45	15. 20	·1152					
	***	17. 30	·1158					
17. 50	6. 0	18. 30	·1153					
18. 47	9. 30	19. 15	·1162					
19. 53	4. 30	23. 0	·1136					
20. 21	4. 50	23. 59	·1136					
20. 50	2. 50							
21. 7	3. 45							
22. 15	3. 0							
23. 59	9. 0							
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 33	22. 9. 15	0. 0	·1136	1. 0	·01480	1. 40	60 ·0	61 ·0
1. 51	11. 0	0. 30	·1135	3. 45:	·01285	3. 40	61 ·0	63 ·5
3. 53	11. 0	0. 50	·1133	8. 15:	·00883	9. 40	61 ·0	63 ·0
5. 13	8. 15	1. 43	·1142	11. 15	·00856	21. 40	58 ·5	59 ·5
6. 50	7. 10	11. 30	·1157	15. 5:	·00960			
11. 35	6. 30	12. 55	·1153	23. 0:	·01360			
13. 42	5. 20	14. 30	·1154	23. 59	·01370			
13. 52	6. 10	14. 58	·1158					
14. 7	4. 15	15. 10	·1152					
14. 25	5. 5	16. 45	·1154					
15. 14	2. 0	17. 35	·1148					
15. 53	4. 20	18. 30	·1158					
16. 35	3. 10	19. 45	·1153					
17. 14	4. 25	20. 5	·1160					
17. 55	9. 35	23. 10	·1139					
18. 50	8. 0	23. 59	·1137					
	***							

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	° ′ ″							
h m		h m		h m		h m	°	°
20. 0	22. 3. 0							
21. 33	3. 10							
23. 59	10. 30							
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
0. 26	22. 11. 35	0. 0	·1137	0. 30	·01370	1. 40	59 ·0	61 ·5
2. 28	12. 5	0. 57	·1140	2. 15:	·01284	3. 40	61 ·0	62 ·5
5. 28	7. 50	2. 30	·1138	4. 10:	·01027	9. 40	62 ·0	62 ·7
11. 9	7. 0	3. 25	·1146	5. 48	·00850	21. 40	58 ·5	59 ·0
11. 25	6. 5	3. 53	·1142		·00873			
12. 17	7. 25	7. 30	·1150	9. 55	·00858			
17. 32	7. 25	18. 45	·1159	14. 0:	·00960			
17. 55	7. 0	19. 10	·1152	21. 5:	·01320			
17. 58	8. 30	20. 10	·1158	23. 50	·01415			
18. 30	7. 0		***					
18. 58	8. 30	21. 20	·1154					
	***	22. 35	·1136					
20. 46	3. 30	23. 5	·1142					
	***	23. 30	·1138					
21. 28	6. 15	23. 53	·1162					
22. 22	7. 15							
23. 13	11. 20							
23. 33	11. 30							
23. 54	17. 30							
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 13	22. 13. 0	0. 15	·1142	1. 0	·01380	1. 40	60 ·5	62 ·0
0. 32	17. 30	0. 25	·1152	1. 45:	·01320	3. 40	62 ·0	64 ·0
0. 47	11. 30	0. 35	·1152	3. 45	·00930	9. 40	63 ·5	64 ·8
1. 19	13. 0	0. 50	·1128	5. 35	·00935	21. 40	57 ·8	58 ·0
	***	1. 15	·1138		·01263			
3. 11	12. 0		***	6. 40	·01270			
4. 28	10. 0	2. 34	·1138	7. 20	·01320			
4. 38	11. 40	2. 45	·1132	8. 15	·01320			
	***	3. 0	·1137	8. 45	·01360			
5. 28	9. 30	4. 25	·1138	10. 3	·01285			
	***	4. 35	·1148	11. 55	·01365			
5. 46	10. 30	5. 4	·1137	15. 25	·01680			
6. 1	7. 10	5. 23	·1144	20. 15:	·01645			
6. 10	8. 15	5. 46	·1121	22. 30:	·01600			
6. 20	7. 25	6. 5	·1130	23. 59	·01621			
6. 32	15. 0	6. 15	·1124					
6. 40	15. 0	6. 28	·1134					
7. 13	5. 25	6. 53	·1103					
7. 17	6. 10	7. 23	·1116					
7. 23	5. 0	7. 34	·1114					
7. 25	6. 25	7. 58	·1128					
7. 31	5. 0	8. 8	·1124					
7. 59	3. 30	8. 33	·1124					
8. 15	22. 4. 40	8. 45	·1134					
8. 43	21. 59. 20	9. 3	·1120					
8. 55	22. 2. 35	9. 30	·1155					
9. 28	21. 43. 0	10. 0	·1120					
9. 55	57. 0	10. 13	·1125					
10. 10	52. 10	10. 40	·1120					
10. 25	55. 30	10. 58	·1126					
10. 36	21. 55. 40	11. 8	·1124					
11. 18	22. 3. 55	11. 38	·1136					

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	° ′ ″	Oct. 14						
h m		h m		h m		h m	°	°
11. 47	22. 5. 35	12. 8	·1132					
11. 58	4. 15	12. 40	·1136					
12. 33	7. 0		***					
12. 52	5. 45	14. 35	·1144					
13. 20	7. 15	15. 35	·1138					
13. 48	5. 30		***					
15. 55	7. 0	17. 33	·1137					
16. 5	5. 10	17. 57	·1146					
16. 33	6. 30	23. 59	·1128					
16. 44	5. 0							
17. 32	7. 10							
17. 38	6. 0							
19. 13	6. 0							
19. 20	4. 40							
19. 32	6. 0							
20. 3	5. 0							
20. 15	3. 0							
	***							
23. 3	6. 0							
23. 59	10. 30							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 20	22. 11. 30	0. 5	·1128	0. 50	·01588	1. 40	58 ·5	60 ·7
0. 48	11. 10	2. 45	·1138	1. 45:	·01510	3. 40	62 ·0	64 ·0
	***	3. 15	·1132	5. 30:	·01040	1. 40	59 ·7	61 ·0
2. 43	12. 30	3. 35	·1136	7. 30:	·00980	23. 10	56 ·0	56 ·5
2. 45	11. 50	4. 0	·1132	19. 37	·01560			
3. 28	10. 40	4. 35	·1140	23. 45:	·01515			
4. 0	7. 10	4. 55	·1136					
6. 40	7. 30		***					
7. 2	5. 35	5. 44	·1144					
7. 9	22. 6. 5	6. 3	·1137					
7. 28	21. 58. 15	6. 40	·1141					
7. 42	21. 58. 0	7. 17	·1123					
8. 19	22. 4. 40	7. 50	·1148					
8. 25	3. 0	8. 37	·1138					
8. 31	4. 0	9. 8	·1142					
8. 32	3. 0	9. 28	·1150					
8. 38	5. 0	10. 54	·1150					
9. 20	6. 0	11. 14	·1170					
10. 30	4. 0	12. 15	·1153					
10. 55	6. 30	13. 10	·1150					
11. 5	4. 10	13. 50	·1150					
11. 15	7. 0	13. 57	·1154					
11. 58	6. 0	14. 10	·1148					
12. 22	3. 40	14. 45	·1154					
13. 46	5. 20	15. 20	·1152					
13. 58	7. 0	17. 30	·1162					
14. 17	5. 25		***					
16. 17	6. 0	18. 25	·1156					
16. 57	5. 30		***					
17. 25	9. 40	20. 35	·1158					
18. 16	8. 0	21. 28	·1146					
18. 23	6. 30	23. 0	·1144					
19. 8	5. 15	23. 28	·1150					
20. 20	4. 0	23. 50	·1144					
	***	23. 59	·1148					
21. 37	4. 0							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 15								
h m	° ′ ″	h m		h m		h m	°	°
23. 17	22. 9. 20							
23. 28	12. 15							
23. 52	9. 35							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 46	22. 12. 10	0. 5	·1145	0. 25	·01530	9. 40	55 ·0	56 ·0
1. 58	11. 30	0. 20	·1148	2. 0:	·01514	21. 40	49 ·0	50 ·0
4. 56	7. 45	1. 17	·1151	3. 45:	·01550			
7. 17	7. 20	4. 5	·1156	6. 0:	·01534			
8. 33	8. 30	4. 25	·1152	8. 34	·01585			
9. 39	5. 5	4. 40	·1156	9. 50	·01570			
9. 51	6. 5	4. 58	·1152	15. 5:	·01475			
10. 0	5. 0	6. 45	·1158	16. 0:	·01418			
	***	6. 55	·1163	17. 17:	·01414			
12. 16	5. 0	7. 10	·1158	18. 30:	·01400			
12. 26	7. 0	8. 0	·1163	21. 0:	·01450			
14. 1	7. 50	8. 50	·1160	23. 5:	·01376			
14. 36	4. 30	9. 14	·1149	23. 59	·01300			
15. 33	10. 0	9. 20	·1153					
15. 46	9. 15	10. 0	·1152					
16. 13	11. 0	10. 23	·1163					
16. 47	4. 30	10. 46	·1150					
19. 17	6. 5	10. 53	·1155					
	***	11. 20	·1154					
20. 33	4. 30	11. 50	·1164					
21. 10	5. 50	14. 3	·1164					
21. 48	4. 50		***					
23. 7	9. 40	15. 0	·1162					
23. 36	14. 15	15. 20	·1172					
23. 59	15. 30	15. 44	·1161					
		17. 10	·1168					
		17. 46	·1184					
		18. 50	·1168					
		21. 3	·1164					
		21. 40	·1152					
		23. 30	·1162					
		23. 50	·1156					
		23. 55	·1164					
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 26	22. 16. 40	0. 2	·1158	0. 10	·01280	1. 40	53 ·0	54 ·0
0. 41	17. 50		***	2. 45:	·01035	3. 40	56 ·0	57 ·0
	***	0. 40	·1160	4. 40	·00650	9. 40	57 ·8	58 ·0
1. 57	15. 50	1. 37	·1146	5. 0:	·00656	21. 40	50 ·8	53 ·2
2. 35	13. 30		***	8. 50	·00595			
2. 37	14. 20	2. 25	·1153	9. 5	·00605			
3. 5	11. 40	2. 38	·1166	9. 40:	·00520			
4. 47	8. 0	3. 0	·1152	13. 30:	·00574			
5. 28	8. 30		***	17. 30:	·00715			
6. 38	4. 0	6. 23	·1153	23. 59	·01155			
7. 3	7. 0	6. 37	·1144					
7. 32	6. 0	7. 5	·1156					
8. 5	7. 10	8. 50	·1156					
8. 17	22. 3. 5	9. 5	·1180					
8. 43	21. 58. 35	9. 13	·1174					
9. 5	22. 6. 0	9. 20	·1188					
9. 17	2. 30	9. 32	·1180					
9. 27	22. 4. 0	10. 40	·1155					

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. 17		Oct. 17						
h m	° ′ ″	h m		h m		h m	°	°
9. 38	21. 58. 45	16. 40	·1160					
9. 48	58. 15	18. 5	·1168					
10. 2	56. 10	19. 0	·1165					
10. 26	57. 0	19. 40	·1157					
10. 37	59 45	19. 53	·1151					
11. 20	21. 57. 50	20. 5	·1159					
11. 41	22. 3. 50		***					
13. 7	7. 30	21. 32	·1157					
13. 30	6. 10	22. 20	·1146					
14. 46	7. 30	23. 17	·1152					
15. 25	6. 20	23. 59	·1150					
16. 0	7. 10							
17. 48	6. 35							
18. 56	8. 0							
	***							
21. 25	3. 0							
21. 58	7. 40							
22. 13	8. 0							
22. 30	5. 0							
23. 46	11. 0							
23. 59	10. 0							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 13	22. 10. 45	0. 0	·1150	0. 45	·01160	1. 40	53 ·0	56 ·3
0. 45	12. 0		***	2. 17:	·01030	3. 40	54 ·5	56 ·6
0. 53	13. 55	1. 40	·1154	3. 10	·00800	9. 40	55 ·0	56 ·5
1. 40	14. 40	1. 50	·1140	3. 40	·00620	21. 40	50 ·0	52 ·8
1. 51	18. 0	2. 15	·1146	4. 30:	·00680			
2. 12	16. 10	2. 29	·1142	8. 10:	·00630			
2. 21	18. 0	3. 10	·1152	9. 45:	·00622			
	***	5. 4	·1150	13. 55:	·00830			
2. 57	9. 0	5. 17	·1156	17. 55:	·01250			
3. 22	10. 35	5. 40	·1150	20. 33	·01440			
5. 0	6. 0	10. 16	·1158	23. 59	·01370			
6. 46	5. 10	10. 45	·1154					
8. 31	3. 20	11. 17	·1162					
8. 57	22. 4. 30	11. 40	·1160					
9. 57	21. 59. 20	12. 7	·1170					
10. 36	22. 4. 0	12. 35	·1172					
11. 3	5. 0	13. 25	·1164					
11. 17	4. 0	18. 20	·1169					
11. 50	4. 50	21. 14	·1164					
12. 7	2. 15	22. 28	·1150					
13. 13	6. 15	23. 59	·1149					
14. 27	4. 50							
15. 57	6. 30							
18. 45	6. 5							
21. 2	3. 30							
22. 13	3. 40							
23. 43	7. 30							
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
1. 15	22. 11. 40	0. 0	·1149	0. 25	·01374	1. 40	54 ·0	55 ·0
2. 31	11. 30	5. 8	·1165	2. 25:	·01264	3. 40	54 ·5	56 ·0
4. 46	6. 30	6. 40	·1163	5. 0	·01005	9. 40	56 ·5	58 ·0
6. 22	7. 55	7. 5	·1167	8. 0	·00668	21. 40	54 ·5	57 ·4
7. 46	6. 25	9. 10	·1158	10. 50	·00669			
9. 19	6. 35	9. 58	·1162	16. 30:	·00650			

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. 19		Oct. 19		Oct. 19				
h m	° ′ ″	h m		h m		h m	°	°
10. 0	22. 5. 25	10. 23	·1157	21. 0:	·00693			
10. 21	6. 0	11. 0	·1166	22. 45	{·00654			
10. 37	2. 0	11. 45	·1157		{·00735			
11. 31	6. 35	12. 15	·1157	23. 59	·00712			
12. 10	5. 0	16. 55	·1160					
	***	17. 35	·1153					
15. 0	8. 5	20. 58	·1162					
17. 43	7. 40	23. 59	·1138					
18. 42	7. 20							
20. 51	6. 20							
22. 2	5. 0							
23. 58	12. 30							
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 8	22. 13. 30	0. 0	·1138	0. 13	{·01195	1. 40	55 ·5	57 ·6
2. 22	14. 0	3. 45	·1136		{·01030	3. 40	56 ·5	60 ·5
3. 19	12. 0	5. 30	·1148	1. 50:	·00952	9. 40	56 ·0	58 ·0
4. 50	10. 35	6. 0	·1142	2. 45:	·00868	21. 40	51 ·0	53 ·0
5. 8	9. 0		***	3. 44	{·00830			
5. 35	8. 50	8. 5	·1156		{·00865			
6. 8	4. 10		***	7. 40:	·00859			
6. 32	6. 40	9. 10	·1152	8. 8:	·00990			
6. 46	6. 0	10. 0	·1157	11. 5:	·01120			
7. 13	8. 0	10. 44	·1172	13. 22	{·01370			
8. 14	9. 5	11. 5	·1164		{·01290			
	***	15. 10	·1166	15. 30:	·01320			
9. 21	7. 30	15. 58	·1173	17. 0:	·01244			
9. 46	8. 30	16. 40	·1188	22. 15:	·01285			
10. 6	6. 20	17. 45	·1178	23. 59	·01220			
10. 18	7. 15	20. 46	·1176					
10. 32	6. 0	22. 20	·1164					
10. 46	7. 5	22. 50	·1164					
11. 7	5. 0	23. 50	·1156					
11. 30	5. 0	23. 59	·1156					
12. 58	7. 50							
	***							
15. 7	7. 0							
15. 47:	12. 30							
17. 13	2. 30							
17. 42	5. 0							
21. 55	12. 0							
23. 13	12. 15							
23. 47	12. 30							
23. 59	13. 25							
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 12	22. 11. 35	0. 5	·1154	0. 5	·01190	1. 40	54 ·5	56 ·7
1. 0	11. 25	0. 40	·1152	1. 5:	·01120	3. 40	56 ·0	57 ·5
1. 22	13. 0	1. 14	·1162	4. 45	{·00720	9. 40	58 ·5	58 ·5
2. 1	13. 0	1. 46	·1159		{·00763	21. 40	58 ·5	59 ·0
2. 17	15. 0	2. 0	·1153	5. 0	·00760			
2. 52	13. 0	2. 15	·1156	5. 40:	·00800			
3. 8	13. 45	2. 35	·1152	7. 15:	·00770			
	***	3. 8	·1160	10. 40:	·00794			
4. 51	10. 0	3. 33	·1154	18. 50:	·00765			
5. 29	1. 0	4. 30	·1156	21. 45:	·00780			
6. 0	6. 15	5. 0	·1134	22. 45:	·00748			
7. 35	6. 0	5. 20	·1138	23. 59	·00775			

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						
h m	° ′ ″	h m		h m		h m	°	°
11. 37	22. 4. 30	5. 55	·1157					
11. 52	5. 30	7. 10	·1158					
12. 31	4. 50	8. 30	·1168					
13. 14	5. 50	9. 40	·1170					
18. 0	5. 45	11. 34	·1165					
21. 15	4. 0	11. 50	·1169					
	***	12. 10	·1166					
22. 47	6. 30	19. 23	·1160					
23. 32	9. 30		***					
23. 59	10. 0	23. 50	·1131					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 25	22. 11. 40	0. 0	·1130	0. 45	·00876	1. 40	59 ·5	62 ·0
1. 36	12. 0	0. 45	·1130	1. 33	{·00885	3. 40		64 ·5
4. 42	5. 0		***		{·01030	9. 40	63 ·0	64 ·0
6. 33	4. 30	2. 30	·1127	2. 9:	·00970	22. 20	60 ·5	62 ·5
9. 8	5. 0	6. 5	·1144	8. 10	·00909			
13. 0	4. 35	6. 40	·1142	8. 25	·01120			
13. 52	3. 55	9. 30	·1150	13. 45:	·01201			
15. 24	4. 55	12. 40	·1150	17. 15:	·01360			
16. 5	3. 35	13. 0	·1160	21. 15:	·01474			
19. 20	4. 20	13. 45	·1154	22. 30	·01470			
21. 25	3. 10	15. 25	·1154					
22. 18	4. 30	15. 56	·1162					
22. 37	4. 50	19. 20	·1161					
23. 13	8. 0	22. 10	·1140					
23. 20	5. 0	22. 45	·1140					
23. 43	14. 0	22. 55	·1136					
23. 55	12. 10	23. 17	·1154					
		23. 30	·1154					
		23. 59	·1137					
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 13	22. 15. 0	0. 5	·1140	0. 15	·01460	9. 40	63 ·3	64 ·0
0. 24	14. 0	0. 45	·1134	1. 15:	·01434	21. 40	56 ·0	59 ·0
	***		***	2. 35	·01445			
1. 40	18. 0	1. 45	·1140	3. 20	·01330			
	***	2. 15	·1124	5. 38:	·01170			
1. 55	16. 50	2. 22	·1132	7. 0:	·01122			
	***	2. 43	·1118	8. 45:	·01026			
2. 25	21. 0	3. 28	·1147	9. 45	·01019			
2. 50	15. 40	3. 55	·1134	10. 0	·01035			
3. 8	15. 55	4. 14	·1144	17. 0:	·01140			
3. 25	14. 0	4. 45	·1138	20. 10:	·01322			
3. 40	14. 30	5. 30	·1155	21. 40:	·01380			
4. 2	12. 40	6. 25	·1131	23. 59	·01545			
4. 23	12. 30	6. 40	·1138					
5. 8	7. 30	6. 50	·1132					
5. 25	8. 30	7. 35	·1136					
6. 20	5. 50	8. 1	·1158					
6. 38	7. 0		***					
9. 17	22. 4. 40	8. 23	·1148					
9. 50	21. 54. 35	8. 30	·1153					
10. 2	58. 45	8. 58	·1142					
10. 17	21. 52. 0	9. 25	·1148					
10. 48	22. 0. 0	9. 44	·1134					
11. 21	1. 50	9. 55	·1142					
11. 33	1. 0	10. 3	·1135					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 23		Oct. 23						
h m	° ′ ″	h m		h m		h m	°	°
12. 8	22. 4. 0	10. 23	·1150					
12. 28	1. 30	10. 50	·1130					
14. 27	7. 0	11. 20	·1134					
14. 37	9. 0	12. 16	·1146					
16. 55	4. 10	12. 24	·1142					
17. 47	22. 7. 15	14. 40	·1142					
18. 29	21. 58. 30	16. 15	·1150					
	***	16. 32	·1156					
19. 28	22. 8. 0	17. 23	·1150					
19. 43	4. 10	18. 32	·1154					
21. 10	2. 0	18. 44	·1146					
21. 58	3. 30	19. 23	·1154					
23. 15	11. 0	20. 25	·1157					
23. 58	11. 20	22. 25	·1140					
		23. 0	·1142					
		23. 20	·1132					
		23. 59	·1135					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 28	22. 17. 20	0. 8	·1136	1. 15	·01570	1. 40	59 ·0	62 ·8
0. 40	16. 0	0. 23	·1128	2. 50:	·01520	3. 40	61 ·0	64 ·0
1. 21	18. 50	0. 44	·1126	7. 0:	·01060	9. 40	61 ·7	63 ·0
1. 43	15. 0	1. 20	·1138	17. 30:	·00980	21. 40	58 ·0	60 ·0
	***	1. 40	·1135	22. 5:	·01280			
3. 1	15. 5	2. 20	·1144	23. 45	·01254			
3. 37	12. 30	2. 55	·1133					
6. 27	6. 0	3. 15	·1138					
7. 28	2. 0	4. 20	·1135					
8. 3	4. 50	5. 10	·1144					
11. 48	4. 35	6. 0	·1134					
13. 42	5. 45	6. 34	·1140					
14. 27	4. 0	7. 15	·1128					
14. 48	6. 0	7. 55	·1146					
16. 18	2. 0		***					
17. 15	3. 5	9. 30	·1156					
17. 27	4. 50	9. 45	·1150					
17. 35	2. 50		***					
20. 25	7. 30	13. 10	·1150					
20. 47	6. 30	14. 45	·1159					
20. 58	8. 0	16. 50	·1154					
21. 17	6. 0	18. 25	·1160					
21. 32	6. 40	20. 20	·1156					
22. 3	12. 20		***					
22. 43	6. 25	21. 50	·1127					
23. 15	9. 50	22. 14	·1142					
23. 41	8. 30	22. 53	·1146					
23. 59	10. 25	23. 40	·1138					
		23. 59	·1140					
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
0. 28	22. 12. 10	0. 0	·1140	0. 0	·01248	1. 40	60 ·0	62 ·5
1. 13	14. 30	0. 45	·1132	1. 0:	·01205	3. 40	61 ·0	65 ·0
1. 57	14. 40		***	4. 10	·01005	9. 40	62 ·0	62 ·7
	(†)	3. 40	·1134		·01056	21. 40	56 ·0	58 ·0
3. 45	16. 0	3. 49	·1143	4. 50	·01080			
4. 3	8. 10	3. 58	·1134	6. 54	·01030			
4. 15	22. 14. 0	4. 3	·1144		·01405			
4. 40	21. 48. 30	4. 30	·1107	7. 45:	·01390			
			***					

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. 25		Oct. 25		Oct. 25				
h m	° ′ ″	h m		h m		h m	°	°
5. 0	21. 43. 0	5. 4	·1148	8. 30:	·01350			
5. 18	21. 51. 10		***	10. 50:	·01400			
5. 58	22. 11. 10	6. 3	·1114	11. 15:	·01380			
6. 9	7. 25	6. 15	·1125	13. 45	·01555			
6. 52	22. 7. 5	7. 4	·1132	13. 47	·01535			
7. 36	21. 54. 15	7. 10	·1126	18. 0:	·01545			
8. 7	22. 6. 15	7. 30	·1124	23. 10	·01560			
8. 17	4. 50	8. 0	·1146		·01450			
8. 32	6. 0	8. 15	·1136	23. 59	·01450			
9. 16	3. 30	8. 30	·1140					
	***	9. 0	·1136					
11. 3	5. 30	10. 4	·1149					
11. 30	4. 0	10. 15	·1144					
11. 47	7. 30	10. 28	·1152					
12. 18	5. 40	10. 35	·1149					
13. 58	6. 25	10. 58	·1162					
15. 13	5. 0	11. 15	·1154					
15. 59	7. 0	11. 40	·1152					
22. 0	4. 30	12. 20	·1158					
23. 59	9. 0	13. 8	·1152					
		15. 45	·1151					
		18. 10	·1161					
		19. 32	·1160					
		23. 23	·1140					
		23. 59	·1138					
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 17	22. 10. 0	0. 8	·1136	0. 30	·01434	1. 40	58 ·0	60 ·0
1. 43	10. 40	2. 16	·1132	2. 15:	·01270	3. 40	63 ·0	64 ·0
4. 15	6. 0		***	3. 50	·00940	9. 40	63 ·3	64 ·0
5. 28	5. 0	6. 25	·1140	5. 45	·00960	21. 48	59 ·0	61 ·0
6. 15	5. 20	6. 44	·1135	9. 0:	·00905			
6. 45	3. 50	7. 13	·1142	21. 15:	·01330			
7. 13	5. 0	7. 23	·1138	23. 59	·01330			
7. 28	2. 20		***					
8. 13	5. 0	9. 45	·1142					
9. 48	5. 0	10. 20	·1148					
10. 18	4. 0	16. 8	·1150					
12. 58	5. 0	18. 15	·1157					
14. 31	3. 50	18. 35	·1154					
15. 15	5. 30	20. 45	·1158					
15. 33	4. 45	22. 25	·1136					
16. 4	7. 45	23. 59	·1134					
16. 29	6. 0							
18. 22	4. 20							
18. 48	5. 0							
21. 35	3. 50							
22. 38	8. 30							
23. 59	11. 10							
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 30	22. 11. 0	0. 15	·1134	1. 0	·01325	1. 40	60 ·0	62 ·0
0. 53	11. 50		***	4. 0:	·01170	3. 40	60 ·0	62 ·5
1. 40	10. 30	3. 0	·1136	7. 55	·00895	9. 40	62 ·5	63 ·0
2. 50	11. 0	5. 8	·1145		·00920	21. 40	59 ·0	61 ·0
4. 35	7. 50	5. 35	·1141	10. 30:	·00900			
5. 45:	1. 15	6. 0	·1147	23. 50	·01115			
6. 1	4. 10	9. 40	·1148					

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. 27		Oct. 27						
h m	° ′ ″	h m		h m		h m	°	°
6. 33	22. 4. 20	10. 9	·1158					
7. 0	6. 10	10. 38	·1148					
9. 40	5. 30	20. 20	·1156					
10. 3	2. 40	22. 30	·1138					
10. 22	2. 50	23. 50	·1136					
10. 35	1. 0							
11. 18	4. 10							
11. 39	5. 0							
17. 47	5. 45							
20. 0	4. 20							
20. 55	3. 0							
22. 17	4. 5							
23. 22	8. 50							
23. 51	10. 0							
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 4	22. 10. 45	0. 50	·1132	0. 40	·01125	1. 40	60 ·0	62 ·0
1. 40	11. 50	10. 0	·1149		·00936	3. 40	62 ·0	63 ·8
4. 13	6. 35	12. 0	·1154	2. 55:	·00955	9. 40	60 ·3	61 ·8
6. 21	5. 30	20. 0	·1163	7. 0:	·00900	21. 40	55 ·0	57 ·5
12. 48	4. 35	22. 30	·1150	19. 0	·01545			
13. 17	4. 0	23. 59	·1136	19. 4	·01522			
14. 31	6. 0			23. 59	·01490			
16. 18	5. 0							
18. 7	4. 50							
21. 35	2. 30							
22. 21	3. 0							
23. 59	7. 25							
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
0. 8	22. 7. 45	0. 15	·1133	0. 50	·01465	1. 40	59 ·0	61 ·0
1. 38	10. 0	4. 45	·1140	2. 30:	·01320	3. 40	58 ·5	60 ·0
4. 13	7. 0	8. 0	·1150	4. 48	·01085	9. 40	57 ·5	59 ·0
8. 58	5. 15	9. 10	·1158		·01495	23. 5	49 ·0	51 ·0
9. 12	4. 15	11. 15	·1158	8. 0:	·01376			
10. 5	5. 50	12. 45	·1154	11. 28	·01534			
13. 7	3. 50	20. 38	·1170		·01510			
13. 22	5. 10	20. 55	·1180	17. 38:	·01430			
15. 5	4. 40	21. 15	·1182	20. 40:	·01415			
16. 26	5. 30	21. 45	·1176	23. 21	·01370			
17. 18	4. 40	23. 15	·1174					
19. 45	4. 50 ***	23. 59	·1176					
21. 6	2. 30							
23. 59	7. 20							
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
0. 18	22. 7. 0 ***	0. 15	·1170	0. 30:	·01400	9. 40	54 ·0	56 ·0
		1. 15	·1171 ***	5. 15:	·01255	21. 40	50 ·0	52 ·0
1. 55	9. 0 ***			10. 30:	·00930			
		2. 40	·1172	15. 0:	·01000			
3. 50	7. 30 ***	3. 53	·1172	21. 45	·01380			
		4. 7	·1183		(†)			
5. 6	13. 25	4. 40	·1177					
6. 20	10. 0 ***	5. 10	·1156 ***					
6. 50	11. 50	5. 45	·1144					
7. 17	8. 30	6. 37	·1164					

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. 30		Oct. 30						
h m	° ′ ″	h m		h m		h m	°	°
7. 28	22. 10. 0	7. 4:	·1150					
7. 47	7. 0	7. 23	·1173					
9. 46	4. 0	7. 30	·1156					
12. 43	4. 0	7. 45	·1152					
13. 31	6. 15	8. 4	·1166					
13. 55	4. 30	8. 15	·1152					
18. 7	5. 0 ***	8. 34	·1168 ***					
21. 43	5. 0	12. 0	·1164 ***					
		16. 0	·1167					
		21. 45	·1168 (†)					
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 27	22. 15. 0	0. 30	·1166	0. 25	·01345	1. 40	55 ·0	57 ·0
1. 29	11. 25	1. 3	·1169	3. 10:	·01080	3. 40	57 ·0	59 ·0
1. 37	9. 55		***	5. 30:	·00775	9. 40	55 ·0	56 ·2
1. 45	13. 5	1. 35	·1158	6. 28	·00930	21. 40	53 ·8	55 ·0
1. 50	11. 30	2. 0	·1168	6. 47:	·00870 ***			
2. 0	13. 10	2. 15	·1161					
2. 13	10. 30	2. 50	·1168	7. 30	·00950			
2. 47	15. 5	3. 20	·1162	7. 40	·00930 ***			
3. 22	14. 5 ***	3. 45	·1138					
		4. 8	·1146	8. 20:	·00975			
4. 12	18. 0	4. 33	·1135	8. 40	·00950			
4. 36	11. 30	4. 46	·1148	8. 57	·00990 ***			
4. 47	14. 0 ***	4. 58	·1140					
		5. 14	·1144	9. 10	·00827			
5. 2	10. 0	5. 23	·1154	9. 14	·00840			
5. 15	10. 0	5. 44	·1140	9. 45	·00650			
5. 24	13. 30	5. 53	·1149	9. 53	·00648			
5. 43	5. 50	6. 0	·1142	10. 15	·00740			
5. 51	8. 30	6. 10	·1148	10. 25:	·00734			
6. 2	6. 0	6. 23	·1128	10. 40	·00750			
6. 15	18. 0	6. 44	·1154	15. 30:	·00741			
6. 33	5. 50	7. 2	·1104	21. 0:	·00860			
6. 57	20. 30	7. 16	·1130	23. 44	·00860			
7. 7	8. 35	7. 26	·1116					
7. 21	24. 20	7. 30	·1124					
7. 30	19. 30	7. 55	·1104 ***					
7. 52	23. 0							
8. 7	14. 25	8. 34	·1118					
8. 17	16. 0	8. 45	·1104					
8. 28	13. 50	8. 55	·1162					
8. 38	22. 18. 30	9. 9	·1120					
8. 54	21. 51. 15	9. 14	·1134					
9. 0	58. 0	9. 45	·1082					
9. 10	43. 15	11. 0	·1142					
9. 22	38. 15	11. 15	·1136					
9. 32	40. 0	12. 25	·1140 ***					
9. 42	49. 0							
9. 45	46. 0	19. 20	·1152 ***					
10. 5	59. 50							
10. 32	21. 52. 0	23. 20	·1120					
11. 13	22. 1. 0 ***	23. 45	·1122					
13. 5	5. 20 ***							

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 31								
h m	° ′ ″	h m		h m		h m	°	°
14. 13	22. 3. 0							
14. 47	5. 20							
	***							
18. 23	4. 30							
	***							
20. 23	3. 30							
	***							
22. 12	5. 0							
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 0	22. 11. 35	0. 30	·1128	0. 10	·00840	1. 40	57 ·0	58 ·8
0. 24	10. 0		***	1. 28	{·00710	3. 40	58 ·7	58 ·8
1. 5	13. 30	2. 45	·1142		{·00750	9. 40	59 ·0	60 ·5
1. 30	9. 35		***	3. 0:	·00837	21. 40	56 ·7	57 ·5
	***	3. 45	·1142	7. 8	{·00880			
3. 8	9. 15	4. 15	·1130		{·01120			
	***	4. 38	·1138	8. 15:	·01060			
4. 52	5. 40	5. 4	·1136	20. 0:	·01570			
5. 43	6. 40	5. 29	·1142	23. 59	·01470			
6. 6	5. 25	6. 15	·1132					
6. 24	0. 45	6. 28	·1146					
6. 30	22. 2. 0	6. 38	·1132					
6. 38	21. 56. 30	6. 46	·1143					
6. 46	58. 25	6. 53	·1136					
6. 55	21. 57. 0	7. 0	·1142					
7. 0	22. 1. 50	7. 7	·1132					
	***	7. 15	·1157					
7. 18	22. 0. 0	7. 23	·1134					
7. 25	21. 47. 20	7. 34	·1176					
7. 38	22. 1. 0	8. 0	·1148					
8. 13	4. 50	8. 30	·1142					
10. 9	5. 0	12. 8	·1158					
10. 31	4. 0	19. 25	·1164					
12. 2	6. 50	20. 53	·1160					
12. 52	5. 25	22. 45	·1145					
13. 13	11. 15	23. 58	·1146					
17. 47	6. 0							
21. 24	3. 50							
23. 12	8. 25							
23. 59	9. 0							
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
0. 32	22. 10. 10	0. 8	·1149	0. 30	·01440	1. 40	58 ·8	59 ·0
1. 2	9. 0	0. 45	·1146	4. 0:	·01080	3. 40	60 ·0	60 ·0
1. 30:	10. 40	5. 20	·1146	4. 35	{·01050	9. 50	60 ·0	60 ·8
1. 52	8. 35	5. 40	·1154		{·01282	21. 40	53 ·0	55 ·0
3. 17	7. 30	7. 16	·1149	5. 40:	·01210			
3. 54	5. 50	7. 33	·1137	6. 15:	·01250			
6. 0	5. 0	8. 0	·1158	6. 40:	·01252			
6. 47	7. 10	8. 20	·1148	15. 4	{·01615			
7. 25	22. 5. 30	8. 45	·1144		{·01570			
8. 0	21. 53. 0	9. 50	·1155	15. 52	·01575			
8. 28	22. 0. 0	13. 0	·1161	17. 8:	·01530			
9. 4	4. 0	15. 40	·1164	22. 15	·01500			
14. 59	6. 15	17. 0	·1170	23. 47	·01524			
15. 40	5. 10	18. 0	·1166					
16. 8	10. 30	19. 53	·1170					
17. 25	4. 0	23. 45	·1156					

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. 2		Nov. 2						
h m	° ′ ″	h m		h m		h m	°	°
17. 40	22. 5. 50	23. 59	·1158					
21. 31	4. 0							
22. 24	4. 0							
23. 18	6. 30							
23. 50	6. 30							
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 6	22. 7. 35	0. 0	·1158	0. 15	·01524	1. 40	55 ·0	57 ·0
0. 50	7. 35	3. 0	·1164	2. 30:	·01395	3. 40	58 ·0	59 ·5
1. 7	9. 0	4. 0	·1162	7. 30	·00785	9. 40	59 ·0	58 ·0
1. 33	7. 45	11. 30	·1166	7. 36	·00798	21. 40	53 ·7	56 ·2
5. 28	5. 15	11. 45	·1172	14. 45:	·00838			
6. 46	6. 0	12. 20	·1164	23. 0:	·01420			
12. 7	4. 30	19. 38	·1176	23. 59	·01455			
13. 38	6. 10	22. 38	·1155					
17. 34	6. 0	23. 59	·1151					
18. 32	5. 0							
21. 47	4. 50							
23. 43	9. 0							
23. 59	10. 0							
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
1. 40	22. 11. 41*	1. 40	·1143*	0. 30	·01453	1. 40	56 ·0	58 ·0
3. 40	10. 33*	3. 40	·1152*	2. 30:	·01355	3. 40	58 ·0	60 ·0
9. 40	3. 32*	9. 40	·1166*	8. 0:	·00895	9. 40	56 ·8	57 ·6
21. 40	4. 43*	21. 40	·1163*	17. 30	·01303	21. 40	53 ·0	55 ·0
				22. 0	·01495			
				22. 14	·01480			
				23. 59	·01475			
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
1. 40	22. 8. 20*	0. 0	·1154	0. 15	·01470	1. 40	54 ·0	56 ·0
3. 40	7. 10*	10. 30	·1174	2. 30:	·01385	3. 40	55 ·5	56 ·0
9. 40	4. 30*	18. 15	·1180	7. 45:	·01080	9. 40	55 ·5	56 ·0
23. 20	6. 41*	22. 32	·1166	20. 15	·01200	23. 20	53 ·6	56 ·0
		23. 59	·1164	23. 44	·01118			
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
	(†)	0. 0	·1164	0. 0	·01100	9. 40	58 ·5	59 ·0
8. 33	22. 11. 30	7. 55	·1174	2. 0:	·00980	21. 40	56 ·0	57 ·7
13. 47	11. 20	9. 50	·1168	4. 11	·00765			
17. 18	12. 0	10. 38	·1172	12. 20	{·00800			
19. 8	14. 30	11. 8	·1166		{·01070			
21. 15	11. 40	20. 25	·1176	15. 0:	·01120			
22. 20	12. 40	23. 10	·1160	21. 30:	·01274			
22. 31	12. 0	23. 30	·1158	23. 30	·01280			
23. 38	14. 38							
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 17	22. 9. 0	0. 0	·1166	0. 20	·01280	1. 40	57 ·7	58 ·0
1. 23	10. 45	0. 15	·1158	2. 30:	·01220	3. 40	58 ·7	59 ·8
1. 33	11. 40	3. 30	·1157	5. 45:	·01000	9. 40	58 ·0	58 ·5
1. 47	11. 0	10. 28	·1162	7. 5	·00967	21. 40	56 ·0	58 ·0
2. 39	11. 25	11. 15	·1168	7. 20	·01102			
3. 33	8. 50	11. 45	·1162	16. 0:	·01125			
5. 41	6. 0	21. 7	·1182	23. 59	·01304			
7. 7	6. 20	23. 5	·1160					
7. 26	5. 10	23. 30	·1168					

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

November 4. Some error had been made in the preparation of the photographic sheet for the Declination and Horizontal Force, and consequently no traces were shown.

November 5. There was no Photographic Trace for the Declination Magnet.

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	° ′ ″	Nov. 7						
h m		h m		h m		h m	°	°
10. 38	22. 5. 10	23. 45	·1166					
11. 23:	1. 30							
12. 5	4. 15							
15. 12	6. 20							
16. 38	5. 0							
18. 52	5. 40							
20. 5	7. 0							
21. 43	5. 0							
22. 47	6. 40							
23. 47	12. 30							
23. 59	12. 10							
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 27	22. 10. 30	0. 15	·1163	1. 0	·01325	1. 40	57 ·0	59 ·0
0. 51	11. 0	0. 34	·1155	2. 45:	·01262	3. 40	58 ·0	59 ·5
1. 8	13. 10	1. 20	·1170	5. 55:	{ ·01105	9. 40	57 ·5	59 ·0
1. 16	12. 45	1. 45	·1166		{ ·01335	21. 40	47 ·5	51 ·0
1. 21	14. 30	2. 0	·1168	6. 55:	·01383			
	***		***	8. 5:	·01550			
1. 23	12. 55	3. 13	·1133	8. 30:	·01555			
1. 51	13. 0	4. 30	·1156	10. 0	·01674			
1. 53	15. 0	6. 0	·1158	10. 5	·01645			
2. 11	12. 50	6. 30	·1142	11. 8:	·01570			
2. 48	17. 10		***	22. 0:	·01354			
	***	8. 40	·1126	23. 59	·01369			
4. 2	10. 40	10. 25	·1153					
4. 30	12. 25	10. 46	·1172					
6. 8	22. 11. 20		***					
6. 59	21. 54. 0	11. 55	·1150					
7. 24	21. 52. 30	21. 8	·1180					
7. 47	22. 0. 20	23. 45	·1165					
7. 55	21. 59. 45	23. 56	·1166					
8. 10	22. 3. 0							
8. 48	21. 59. 30							
9. 33	22. 3. 40							
9. 40	2. 30							
9. 58	22. 4. 30							
10. 38	21. 57. 30							
10. 51	59. 25							
11. 7	56. 20							
11. 43	21. 58. 40							
12. 0	22. 3. 15							
12. 57	6. 0							
14. 15	6. 30							
15. 0	5. 20							
15. 28	7. 0							
22. 5	4. 45							
	***							
23. 59	8. 5							
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
0. 30	22. 11. 10	0. 15	·1166	0. 30	·01372	1. 40	49 ·0	51 ·5
0. 55	13. 40	0. 40	·1164	2. 15:	·01350	3. 40	51 ·0	52 ·0
	***	1. 8	·1154	3. 30	·01215	9. 40	49 ·0	51 ·0
1. 17	12. 55	1. 30	·1162	5. 10	·01051	21. 40	45 ·0	47 ·0
	***	1. 45	·1157	5. 45	·01065			
1. 51	15. 5	2. 36	·1165	6. 20:	·00995			
	***	2. 56	·1157	7. 10	·00970			

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. 9	° ′ ″	Nov. 9		Nov. 9				
h m		h m		h m		h m	°	°
3. 43:	22. 7. 15	4. 0	·1168	8. 30:	·00830			
4. 15	12. 50	4. 35	·1150	10. 30	·00815			
4. 29	11. 0	4. 50	·1152	10. 44:	·00830			
4. 37	7. 0	5. 0	·1133	11. 8:	·00790			
	***		***	11. 50	·00805			
4. 50	22. 6. 30	5. 30	·1126	12. 55	·00705			
5. 12	21. 59. 15	6. 15	·1148	13. 28	·00766			
	***	6. 28	·1144	13. 45	·00745			
6. 32	22. 8. 5	6. 40	·1132	14. 20	·00820			
6. 53	21. 57. 0	6. 46	·1136	15. 15:	·00790			
7. 15	22. 9. 20	6. 51	·1128		***			
	***	7. 14	·1148	16. 45:	·00855			
9. 7	6. 0		***	17. 40	·00996			
9. 26	3. 0	7. 30	·1142	18. 13	·01030			
10. 1	22. 3. 30	8. 0	·1161	18. 42	{ ·01190			
10. 30	21. 38. 30	8. 38	·1167		{ ·01150			
10. 47	45. 30	8. 50	·1162		***			
10. 58	39. 10	8. 55	·1170	20. 45	·01270			
11. 12	41. 40		***	23. 59	·01370			
11. 21	39. 0	10. 16	·1160					
11. 41	43. 0	10. 46	·1205					
12. 3	50. 0	11. 17	·1148					
12. 58	47. 0	11. 34	·1134					
13. 27	56. 30	12. 4	·1154					
13. 47	58. 15	12. 23	·1160					
14. 13	21. 53. 25	13. 0	·1140					
14. 40	22. 0. 0	13. 23	·1148					
14. 54	21. 56. 15	13. 40	·1140					
15. 13	22. 10. 0	14. 15	·1174					
15. 19	11. 30	14. 30	·1168					
15. 42	6. 5	14. 46	·1184					
16. 0	20. 45	15. 17	·1148					
16. 6	18. 10	15. 37	·1165					
16. 25	25. 0	15. 53	·1158					
16. 31	24. 0		***					
16. 37	26. 30	16. 17	·1174					
17. 5	7. 45	16. 38	·1160					
17. 33	9. 30	17. 10:	·1174					
18. 8	2. 20	17. 37	·1151					
18. 39	18. 0		***					
18. 49	17. 0	18. 4	·1164					
19. 0	18. 0	18. 50	·1138					
19. 13	15. 30	19. 5	·1128					
19. 25	19. 0	19. 44	·1166					
19. 53	10. 20	19. 53	·1157					
20. 8	12. 0		***					
20. 32	11. 0	20. 27	·1168					
20. 41	9. 30	20. 38	·1182					
	***		***					
21. 53	4. 30	21. 55	·1166					
	***		***					
23. 28	7. 45	23. 30	·1170					
23. 33	12. 0	23. 45	·1164					
23. 59	12. 0	23. 59	·1166					
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
0. 10	22. 11. 30	0. 0	·1166	0. 30	·01357	1. 40	47 ·0	48 ·0
0. 21	10. 0	0. 20	·1159	2. 15:	·01280	3. 40	50 ·0	53 ·0

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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		Nov. 10		Nov. 10		
h m	° ′ ″	h m		h m		h m	°	°
0. 44	22. 11. 50	0. 43	·1164	3. 44	·01033	9. 40	52 ·5	53 ·0
1. 21	10. 20	0. 50	·1154		***	21. 40	45 ·0	47 ·0
1. 43	12. 15	1. 15	·1151	5. 10	·00800			
	***	1. 30	·1160	5. 45:	·00851			
2. 18	11. 0		***	7. 45:	·00690			
3. 13	12. 10	2. 25	·1151	11. 15	·00630			
3. 25	16. 0		***	14. 45:	·00760			
3. 43	12. 30	3. 23	·1163	20. 30:	·01239			
3. 45	15. 25	3. 35	·1154	23. 59	·01430			
3. 55	12. 0	3. 47	·1160					
4. 1	15. 30	3. 55	·1143					
4. 17	8. 0	4. 0	·1153					
4. 28	22. 11. 0	4. 8	·1140					
4. 51	21. 53. 50	4. 24	·1152					
5. 2	22. 5. 30	4. 34	·1146					
5. 7	21. 57. 30	4. 50	·1186					
5. 23	21. 50. 45	5. 0	·1184					
	***	5. 8	·1142					
5. 52	22. 2. 10	5. 25	·1129					
6. 16	9. 15		***					
6. 38	9. 10	6. 13	·1154					
7. 22	5. 25	6. 20	·1152					
7. 46	6. 10		***					
8. 47	3. 45	7. 30	·1164					
9. 5	4. 45		***					
9. 18	3. 25	9. 50	·1156					
9. 35	4. 10	10. 17	·1171					
9. 53	2. 0	10. 27	·1166					
10. 10	3. 10	10. 36	·1174					
10. 22	7. 0	10. 55	·1166					
10. 32	4. 50	11. 14	·1156					
10. 43	8. 0	11. 31	·1166					
11. 47:	1. 40		***					
12. 24	5. 30	18. 28	·1179					
12. 42	6. 0	18. 50	·1172					
	***		***					
14. 39	3. 50	20. 8	·1180					
15. 45	6. 30	22. 15	·1160					
17. 10	4. 50		***					
17. 53	6. 10	22. 43	·1168					
18. 17	6. 0	22. 50	·1164					
18. 38	8. 0	23. 0	·1167					
	***	23. 59	·1165					
20. 47	5. 30							
	***							
22. 28	5. 20							
23. 30	7. 15							
23. 55	10. 0							
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
0. 18	22. 8. 15	0. 5	·1165	0. 43	·01455	1. 40	48 ·5	50 ·0
	***	1. 4	·1164	3. 15:	·01340	3. 40	49 ·7	52 ·4
1. 3	10. 20	1. 38	·1156	7. 30:	·00801	9. 40	48 ·0	50 ·5
	***	2. 10	·1164	10. 50:	·00735	21. 40	47 ·0	49 ·0
4. 17	5. 50	5. 8	·1169	18. 15:	·01150			
5. 17	22. 6. 40	5. 33	·1158	21. 0:	·01185			
5. 36	21. 59. 30	5. 55	·1173	23. 59	·01150			
6. 17	22. 5. 30	6. 30	·1170					

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	°	°
9. 6	22. 4. 30	9. 25	·1172					
9. 33	0. 0	9. 43	·1181					
9. 47	4. 5	9. 52	·1177					
10. 2	0. 30	10. 10	·1188					
10. 27	4. 0	10. 50	·1173					
10. 52	2. 50	12. 15	·1172					
11. 56	5. 0	12. 30	·1176					
12. 20	4. 0		***					
12. 40	6. 10	21. 23	·1184					
	***	22. 30	·1170					
13. 35	5. 45	23. 59	·1170					
14. 15	8. 5							
14. 52	5. 0							
15. 58	6. 0							
17. 28	4. 0							
17. 41	5. 10							
17. 59	4. 0							
18. 30:	7. 45							
19. 30	4. 0							
	***							
21. 13	3. 20							
	***							
23. 32	6. 50							
23. 59	7. 25							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 23	22. 7. 50	0. 15	·1168	0. 20	·01140	1. 40	52 ·0	55 ·0
2. 16	8. 0	2. 16	·1165	2. 0:	·01000	3. 40	53 ·5	54 ·5
2. 38	6. 30	2. 40	·1159	3. 57	·00700	9. 40	53 ·8	55 ·5
2. 58	7. 30	5. 8	·1162		·00730	23. 8	50 ·5	52 ·5
3. 45	5. 40		***	12. 15	·00680			
4. 16	6. 25	12. 0	·1166	12. 20	·00690			
5. 16	4. 20		***	12. 37:	·00673			
6. 32	5. 30	14. 35	·1166	16. 0:	·00770			
6. 53	4. 0		***	21. 0:	·00990			
7. 6	0. 35	20. 5	·1176	23. 22	·01050			
7. 24	3. 30	23. 59	·1176					
7. 33	1. 25							
8. 17	5. 20							
8. 38	3. 30							
11. 13	4. 30							
12. 2	22. 0. 40							
12. 13	21. 54. 50							
12. 25	22. 4. 0							
12. 44	0. 0							
13. 7	4. 25							
13. 34	2. 10							
14. 47	5. 50							
16. 21	6. 10							
17. 13	4. 25							
18. 54	5. 30							
20. 52	5. 0							
23. 59	8. 15							
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 7	22. 8. 20	0. 0	·1176	0. 0	·01061	10. 7	52 ·0	53 ·7
1. 30	8. 0	9. 20	·1176	2. 45:	·01055	21. 40	46 ·0	48 ·0
1. 40	9. 0	9. 40	·1168	7. 30:	·00890			

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.
Nov. 13		Nov. 13		Nov. 13				
h m	° ′ ″	h m		h m		h m	°	°
3. 2	22. 6. 20	10. 0	·1168	11. 0	·00870			
3. 23	8. 20	10. 25	·1174	14. 30:	·00980			
3. 44	6. 55	11. 4	·1172	23. 59	·01445			
4. 5	8. 0	11. 34	·1176					
4. 33	5. 50	12. 4	·1172					
5. 52	5. 30	19. 40	·1186					
6. 17	7. 0	21. 0	·1178					
7. 57	7. 30	21. 46	·1182					
8. 23	4. 30	23. 33	·1172					
8. 40	6. 0	23. 50	·1179					
9. 13	3. 0	23. 59	·1172					
9. 35	5. 50							
10. 6	4. 50							
10. 18	3. 30							
10. 43	5. 15							
10. 53	7. 0							
11. 17	4. 15							
11. 37	4. 45							
11. 47	3. 30							
12. 1	6. 35							
12. 17	5. 5							
13. 32	6. 0							
14. 31	8. 0							
15. 20	7. 0							
17. 48	6. 35							
18. 50	5. 40							
21. 38	6. 50							
23. 26	6. 0							
23. 59	8. 45							
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 52	22. 8. 0	0. 15	·1174	0. 45	·01455	1. 40	49 ·2	51 ·8
4. 7	6. 0	0. 45	·1173	2. 45:	·01400	3. 40	51 ·0	52 ·3
6. 32	5. 20	1. 23	·1170	7. 15:	·01075	9. 40	50 ·5	52 ·5
7. 22	6. 0	1. 50	·1179	12. 30	·01115	21. 40	45 ·5	48 ·5
9. 39	5. 10	2. 33	·1182	16. 0:	·01240			
13. 48	6. 30	2. 50	·1178	19. 5	{·01438 ·01393			
14. 0	7. 30	3. 4	·1182					
14. 46	5. 35	3. 40	·1172	23. 45	·01373			
15. 43	7. 20	15. 8	·1178					
16. 33	6. 30	20. 15	·1189					
19. 58	5. 30	20. 34	·1184					
20. 25	6. 50	23. 50	·1186					
21. 58	6. 0							
23. 51	9. 0							
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 0	22. 7. 0	0. 0	·1180	0. 30	·01390	1. 40	45 ·8	49 ·0
1. 13	7. 0		***	1. 23:	·01413	3. 40	48 ·2	50 ·0
4. 22	3. 5	3. 16	·1174	7. 30:	·00900	9. 40	49 ·5	52 ·3
10. 43	2. 0	3. 45	·1178	15. 15	·00730	21. 40	47 ·0	50 ·0
11. 28	0. 50	11. 45	·1178	19. 0:	·00980			
11. 53	1. 30	12. 30	·1178	22. 30:	·00930			
12. 22	0. 0	13. 4	·1184	23. 59	·00905			
12. 50	2. 10	13. 45	·1178					
13. 31	0. 30	14. 40	·1178					
14. 12	2. 35	15. 14	·1184					
14. 44	7. 30	16. 10	·1181					

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						
h m	° ′ ″	h m		h m		h m		°
15. 32	22. 2. 0	17. 55	·1190					
15. 54	2. 55	21. 25	·1180					
20. 46	3. 50	22. 5	·1166					
21. 13	6. 35	23. 59	·1168					
21. 43	4. 0							
22. 33	7. 0							
23. 57	6. 55							
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
0. 17	22. 7. 0	0. 0	·1168	0. 20	·00900	1. 40	50 ·0	51 ·0
1. 18	8. 10	2. 36	·1168	2. 0:	·00800	3. 40	49 ·5	51 ·0
2. 11	7. 0	3. 17	·1150	4. 15	·00634	9. 40	51 ·0	52 ·0
2. 22	8. 15	3. 36	·1154	4. 25	·00655	21. 40	42 ·0	43 ·0
3. 7	7. 50	4. 30	·1178	5. 15:	·00660			
3. 20	5. 30	9. 15	·1181	8. 15:	·00585			
4. 6	3. 30	10. 25	·1173	11. 40	·00685			
5. 45	4. 10	11. 20	·1175	12. 10	·00990			
6. 8	2. 30	17. 15	·1190	19. 4	·01332			
8. 15	2. 50	18. 40	·1201	19. 10	·01320			
8. 32	2. 0	20. 35	·1196	20. 40	·01300			
9. 17	22. 2. 30	23. 15	·1167	23. 53	·01368			
9. 53	21. 59. 30	23. 59	·1165					
10. 33	22. 1. 30							
10. 47	21. 58. 40							
10. 58	21. 58. 50							
11. 9	22. 3. 30							
11. 23	0. 15							
11. 47:	22. 3. 30							
12. 22:	21. 58. 40							
13. 6	22. 3. 25							
13. 27	2. 50							
14. 24	5. 10							
15. 10	4. 20							
16. 54	5. 0							
17. 7	6. 0							
18. 5	4. 35							
18. 46	4. 50							
19. 13	5. 30							
19. 58	4. 15							
21. 31	3. 35							
23. 52	8. 10							
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
0. 0	22. 9. 10	0. 0	·1164	0. 30	·01380	1. 40	44 ·0	45 ·5
	***	1. 27	·1166	3. 15:	·01370	3. 40	45 ·0	47 ·0
1. 35	8. 50	1. 50	·1158	8. 30:	·00880	9. 40	45 ·0	47 ·0
2. 18	5. 0	3. 20	·1170	14. 0:	·00990	21. 40	39 ·0	41 ·0
3. 57	5. 0	4. 45	·1164	17. 57	{·01345 ·01315			
4. 58	3. 25	7. 8	·1176					
9. 37	2. 25	12. 0	·1176	21. 15:	·01370			
9. 53	3. 10	12. 25	·1183	23. 0	·01370			
12. 2	3. 0	12. 45	·1177	23. 59	·01400			
12. 25	1. 15	13. 0	·1176					
12. 44	22. 2. 0	13. 28	·1192					
13. 8	21. 59. 40	14. 30	·1181					
13. 40	22. 4. 35	19. 30	·1192					
15. 41	3. 30	22. 23	·1177					
18. 27	4. 0	23. 45	·1172					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.
Nov.17		Nov.17						
h m	° ′ ″	h m		h m		h m	°	°
19. 28	22. 5. 40	23. 59	·1169					
20. 43	4. 30							
21. 28	5. 20							
22. 23	4. 25							
22. 53	6. 25							
23. 2	5. 35							
23. 59	7. 30							
Nov.18		Nov.18		Nov.18		Nov.18		
0. 10	22. 7. 30	0. 30	·1164	1. 15	·01373	1. 40	43 ·5	45 ·0
2. 35	5. 30	2. 9	·1162	2. 30:	·01205	3. 40	48 ·5	50 ·5
3. 5	2. 50	3. 3	·1152	4. 27	·00730	9. 40	47 ·7	48 ·5
3. 43	5. 0	3. 15	·1166	4. 35	·00750	21. 40	41 ·5	45 ·0
5. 12	4. 50	4. 53	·1150	9. 30:	·00640			
5. 29	6. 0	5. 43	·1162	23. 15:	·01295			
6. 39	5. 0	7. 14	·1165	23. 59	·01305			
7. 6	22. 5. 40	7. 45	·1158					
7. 53	21. 53. 45	8. 25	·1168					
9. 15	22. 2. 35	9. 0	·1165					
13. 21	3. 30	13. 15	·1175					
13. 34	4. 50	17. 15	·1180					
14. 2	3. 50	19. 30	·1192					
14. 36	4. 50	23. 0	·1166					
15. 2	3. 40	23. 58	·1162					
15. 26	5. 40							
16. 7	5. 20							
16. 43	7. 50							
16. 55	6. 0							
17. 31	5. 50							
18. 36	5. 10							
19. 0	5. 50							
19. 30	4. 35							
23. 15	4. 50							
23. 58	7. 0							
Nov.19		Nov.19		Nov.19		Nov.19		
0. 3	22. 7. 20	0. 15	·1166	0. 15	·01300	1. 40	46 ·0	48 ·3
0. 36	6. 0	1. 0	·1161	1. 20:	·01234	3. 40	49 ·0	50 ·5
1. 33	7. 0	5. 20	·1166	3. 49	·00750	9. 40	48 ·8	50 ·0
3. 50	3. 10	5. 45	·1161		·00790	23. 31	45 ·0	47 ·5
5. 35	4. 0	6. 22	·1168	4. 10	·00795			
6. 18	1. 30		***		·00813			
7. 49	4. 0	9. 2	·1169	7. 35	·00755			
8. 25	2. 30	9. 35	·1159		·00970			
9. 2	22. 3. 25	10. 2	·1167	8. 23	·00935			
9. 30	21. 56. 0	11. 45	.1172	10. 25:	·01060			
9. 58	21. 53. 35		***	14. 30:	·01262			
10. 45	22. 1. 15	15. 55	·1187	18. 38	·01560			
14. 24	4. 25	17. 0	·1181	23. 45	·01540			
14. 37	3. 45	19. 0	·1192					
15. 20	4. 40	23. 30	·1178					
15. 41	3. 10	23. 59	·1176					
17. 16	6. 0							
17. 45	4. 30							
18. 9	5. 20							
18. 57	3. 50							
19. 9	4. 30							
22. 5	3. 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.19								
h m	° ′ ″	h m		h m		h m	°	°
23. 46	22. 4. 30							
Nov.20		Nov.20		Nov.20		Nov.20		
0. 0	22. 4. 50	0. 20	·1175	0. 15	·01533	9. 0	48 ·5	50 ·5
1. 20	6. 0	7. 40	·1185	3. 0:	·01412	21. 40	42 ·0	44 ·0
1. 25	7. 0	9. 10	·1178	7. 45:	·01120			
1. 51	7. 0	9. 33	·1185	14. 0:	·00965			
2. 43	4. 50	10. 4	·1179	23. 0	·01524			
9. 13	3. 10	10. 25	·1184		·01485			
9. 27	0. 30	11. 14	·1179	23. 59	·01500			
10. 15	22. 4. 10	12. 0	·1190					
10. 43	21. 58. 35	12. 39	·1182					
11. 23	22. 2. 50	20. 55	·1191					
12. 3	4. 30	21. 38	·1186					
12. 15	3. 30	22. 16	·1191					
12. 53	2. 40	23. 35	·1184					
13. 32	4. 0	23. 59	·1181					
20. 27	5. 30							
22. 24	3. 0							
23. 59	6. 0							
Nov.21		Nov.21		Nov.21		Nov.21		
0. 7	22. 6. 30	0. 0	·1181	1. 8	·01520	1. 40	45 ·3	47 ·5
0. 24	7. 0	1. 30	·1178	2. 45:	·01460	3. 40	48 ·5	50 ·5
1. 58	6. 40	4. 15	·1162	6. 30:	·00920	9. 40	48 ·8	51 ·5
2. 21	7. 0	11. 8	·1182	9. 30:	·00730	21. 40	42 ·0	44 ·0
3. 57	4. 0	15. 0	·1183	16. 0:	·01050			
4. 17	3. 10	15. 45	·1193	20. 10	·01460			
5. 49	4. 0	16. 15	·1188	21. 50	·01445			
6. 11	5. 10	18. 50	·1208		(†)			
9. 45	3. 15	19. 45	·1200					
14. 0	5. 0	21. 40	·1197					
14. 54	4. 0		(†)					
15. 15	5. 30							
16. 5	2. 30							
17. 17	3. 30							
17. 42	1. 30							
19. 35	4. 30							
21. 50	4. 20							
	(†)							
Nov.22		Nov.22		Nov.22		Nov.22		
1. 10	22. 10. 0	0. 0	·1178	2. 15	·01462	1. 40	43 ·5	45 ·2
3. 50	6. 0		***	3. 45:	·01340	3. 40	45 ·5	47 ·2
5. 29	5. 45	6. 15	·1178	7. 0:	·00900	9. 40	46 ·8	47 ·8
6. 0	6. 10	7. 34	·1155	9. 25:	·00770	21. 40	41 ·0	43 ·7
7. 26	4. 0	8. 8	·1154	10. 0	·00670			
7. 36	1. 30		***	10. 15:	·00720			
7. 46	3. 30	9. 5	·1175	10. 30	·00710			
7. 58	2. 30	9. 17	·1162	12. 30:	·00765			
8. 7	3. 35	9. 40	·1187	23. 15	·01430			
8. 17	1. 30	9. 57	·1150	23. 59	·01420			
8. 29	4. 30	10. 16	·1186					
8. 43	2. 30	10. 35	·1168					
8. 55	3. 0	10. 50	·1175					
9. 3	1. 0	12. 50	·1174					
9. 14	4. 20	14. 0	·1187					
9. 26	0. 15	14. 35	·1180					

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.22		Nov.22						
h m	° ′ ″	h m		h m		h m	°	°
9. 43	22. 8. 10	18. 8	·1184					
10. 6	21. 49. 0	19. 23	·1192					
10. 30	58. 0	23. 59	·1172					
10. 48	21. 59. 0							
11. 9	22. 3. 0							
13. 58	4. 50							
14. 17	8. 0							
14. 53	4. 50							
15. 20	5. 50							
17. 36	4. 30							
21. 38	4. 0							
23. 59	5. 30							
Nov.23		Nov.23		Nov.23		Nov.23		
0. 20	22. 6. 0	0. 0	·1172	2. 0	·01420	1. 40	43 ·0	44 ·5
1. 20	9. 0	3. 0	·1163	2. 45:	·01380	3. 40	45 ·0	47 ·3
3. 0	7. 0	4. 30	·1176	8. 30	·00970	9. 44	44 ·0	45 ·5
3. 15	7. 10	5. 0	·1174	17. 53	{ ·01415	21. 40	40 ·0	42 ·5
3. 53	6. 0	5. 38	·1184		{ ·01390			
4. 40	7. 30		***	22. 0:	·01400			
5. 32	4. 0	6. 27	·1175	23. 59	·01390			
5. 52:	7. 15	7. 15	·1187					
6. 30	4. 50	15. 38	·1192					
11. 58	3. 50	20. 28	·1206					
12. 12	2. 10	23. 40	·1178					
12. 42	4. 20	23. 59	·1169					
12. 55	3. 30							
13. 50	5. 0							
16. 47	4. 30							
17. 17	2. 30							
18. 5	4. 0							
21. 51	3. 30							
23. 26	5. 30							
23. 42	7. 10							
23. 59	6. 30							
Nov.24		Nov.24		Nov.24		Nov.24		
0. 6	22. 6. 45	0. 0	·1169	1. 0	·01375	1. 40	42 ·5	44 ·0
1. 30	8. 30	1. 0	·1169	2. 0:	·01300	3. 40	45 ·0	45 ·0
4. 40	3. 35	4. 15	·1171	7. 30:	·00640	9. 40	46 ·0	47 ·5
	(†)	7. 40	·1181	8. 45	·01560	21. 40	42 ·0	43 ·5
6. 48	3. 30	8. 0	·1176	14. 8:	·00572			
9. 1	3. 30	13. 0	·1180	23. 59	·00790			
12. 48	3. 0	13. 25	·1189					
13. 4	4. 40	14. 55	·1184					
14. 2	1. 0	20. 38	·1191					
16. 12	2. 45		***					
	(†)	22. 0	·1181					
18. 50	2. 0		(†)					
	***							
21. 52	4. 30							
	***							
23. 20	7. 30							
23. 49	6. 30							
Nov.25		Nov.25		Nov.25		Nov.25		
0. 39	22. 6. 10	1. 0	·1177	0. 30	·00780	1. 40	48 ·0	50 ·0
1. 31	7. 0	2. 0	·1172	2. 0:	·00735	3. 40	49 ·0	52 ·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.25		Nov.25		Nov.25		Nov.25		
h m	° ′ ″	h m		h m		h m	°	°
1. 46	22. 8. 30	12. 13	·1178	3. 30	{ ·00615	9. 40	48 ·0	48 ·5
1. 57	7. 0		***		{ ·00650	21. 40	48 ·0	49 ·0
3. 51	4. 15	14. 30	·1179	6. 25	{ ·00605			
6. 15	2. 30	18. 56	·1187		{ ·00625			
12. 15	3. 25	23. 59	·1168	23. 59	·00632			
12. 33	5. 30							
13. 5	2. 40							
13. 23	4. 30							
14. 16	3. 0							
14. 50	3. 25							
15. 25	7. 0							
16. 2	3. 0							
16. 28	4. 20							
17. 4	2. 15							
17. 29	4. 0							
18. 12	2. 30							
22. 16	3. 25							
23. 59	5. 15							
Nov.26		Nov.26		Nov.26		Nov.26		
0. 37	22. 5. 10	0. 0	·1168	0. 40	·00645	1. 40	49 ·0	50 ·0
2. 28	4. 50	8. 45	·1177	5. 48	{ ·00700	3. 40	49 ·5	51 ·0
5. 55	2. 40	9. 32	·1168		{ ·00870	9. 40	49 ·0	50 ·5
9. 10	3. 30	15. 17	·1184	7. 0:	·00850	23. 20	45 ·0	45 ·5
9. 31	0. 45	19. 30	·1194	14. 0	·00915			
10. 22	3. 15	22. 45	·1191	18. 30:	·01015			
12. 7	4. 0	23. 0	·1193	23. 20	·01230			
17. 6	4. 35			23. 22	·01232			
20. 15	3. 10							
22. 40	4. 30							
23. 59	7. 30							
Nov.27		Nov.27		Nov.27		Nov.27		
0. 24	22. 6. 30	0. 20	·1190	0. 0	·01271	10. 26	45 ·0	48 ·0
2. 22	7. 0		***	3. 15:	·01370	21. 40	43 ·5	46 ·2
2. 40	5. 30	2. 38	·1187	7. 0	·01360			
	***	4. 53	·1193		(†)			
9. 7	22. 3. 0	5. 20	·1185	10. 30	·01370			
9. 37	21. 57. 0	6. 0	·1191	14. 45:	·01400			
10. 2	22. 1. 0	8. 40	·1189	19. 0	·01520			
10. 41:	21. 52. 0	9. 30	·1174		(†)			
11. 27	22. 3. 30	10. 16	·1189	23. 59	·01490			
	***	11. 2	·1171					
13. 58	2. 10	11. 30	·1183					
14. 44	5. 30	13. 15	·1182					
21. 26	3. 0	20. 45	·1196					
23. 59	6. 0	23. 15	·1184					
		23. 59	·1179					
Nov.28		Nov.28		Nov.28		Nov.28		
0. 13	22. 6. 0	0. 5	·1178	1. 17	·01460	1. 40	49 ·0	50 ·0
2. 10	8. 0	1. 5	·1174	3. 0:	·01320	3. 40	48 ·0	49 ·0
2. 23	6. 0	1. 45	·1178	4. 40:	·01080	9. 40	49 ·0	49 ·5
2. 51	8. 0	5. 4	·1170	8. 45:	·00695	21. 40	44 ·0	45 ·5
3. 46	7. 30		***	9. 20:	·00720			
4. 8	8. 45	6. 5	·1178	13. 30	·00730			
4. 58	4. 25		***	16. 30:	·00825			
7. 12	6. 50	9. 0	·1169	23. 59	·01280			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 28		Nov. 28						
h m	° ′ ″	h m		h m		h m	°	°
7. 37	22. 5. 0	9. 40	·1178					
8. 43	8. 30	10. 0	·1170					
9. 5	0. 15	11. 0	·1175					
9. 43	3. 0	12. 45	·1170					
10. 2	1. 50	20. 53	·1183					
10. 50	6. 30	23. 59	·1173					
12. 26	4. 35							
12. 58	6. 0							
14. 26	4. 35							
14. 49	8. 0							
15. 29	4. 30							
16. 20	6. 0							
16. 48	4. 0							
17. 29	6. 0							
	***							
21. 31	4. 35							
	***							
23. 11	7. 30							
23. 32	9. 0							
23. 59	8. 30							
Nov. 29		Nov. 29		Nov. 29		Nov. 29		
0. 15	22. 8. 30	0. 0	·1173	0. 45	·01315	1. 40	45 ·5	47 ·5
	***	1. 0	·1172	2. 15:	·01316	3. 40	49 ·0	51 ·5
2. 46	7. 40	7. 20	·1178	7. 15:	·01030	9. 40	47 ·5	48 ·0
3. 6	6. 15	8. 0	·1168	17. 35	·00685	21. 40	49 ·5	50 ·0
5. 35	4. 40	8. 35	·1172		·00715			
7. 22	5. 25	9. 8	·1184	23. 59	·00740			
8. 0	22. 2. 40	9. 35	·1174					
9. 7	21. 59. 35	12. 0	·1178					
9. 34	22. 0. 30	21. 30	·1185					
10. 17	4. 10	23. 59	·1172					
11. 21	3. 15							
11. 43	4. 45							
12. 2	3. 30							
12. 24	5. 10							
14. 32	5. 50							
21. 46	4. 30							
23. 59	6. 50							
Nov. 30		Nov. 30		Nov. 30		Nov. 30		
0. 27	22. 6. 40	0. 0	·1172	0. 20	·00750	1. 40	51 ·5	52 ·8
2. 57	7. 10	1. 0	·1167	4. 15:	·00850	3. 40	53 ·5	54 ·5
6. 51	3. 30	5. 30	·1160	17. 35:	·00815	9. 40	54 ·5	55 ·0
7. 20	4. 40	6. 45	·1165	23. 59	·00850	21. 50	54 ·0	55 ·0
8. 58	22. 4. 30	9. 20	·1155					
9. 29	21. 58. 0	9. 40	·1175					
9. 52	22. 3. 10	10. 8	·1164					
10. 6	1. 45	14. 35	·1174					
10. 36	4. 30	16. 30	·1164					
12. 45	4. 0	18. 5	·1173					
13. 31	5. 30	18. 35	·1169					
15. 52	4. 50	23. 59	·1161					
16. 38	8. 0							
17. 53	5. 30							
21. 17	5. 10							
23. 58	7. 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. 1		Dec. 1		Dec. 1		Dec. 1		
h m	° ′ ″	h m		h m		h m	°	°
0. 12	22. 7. 0	0. 0	·1161	0. 30	·00855	1. 40	54 ·5	55 ·0
1. 56	8. 30	4. 15	·1160	2. 88	·00860	3. 40	55 ·0	55 ·5
4. 38	5. 0	4. 45	·1167		·01080	21. 40	43 ·0	45 ·0
10. 48	4. 40	5. 50	·1161	4. 0	·01040			
16. 40	7. 30	8. 30	·1163	4. 40:	·01110			
16. 58	10. 0	11. 50	·1176	7. 0:	·01205			
17. 36	7. 30	17. 0	·1196	12. 30	·01680			
19. 0	9. 50	17. 53	·1207	18. 30	·01595			
19. 42	14. 0	19. 15	·1183	23. 59	·01525			
19. 51	12. 15	20. 44	·1196					
20. 9	14. 30	21. 16	·1184					
21. 4	10. 30	21. 34	·1189					
21. 53	10. 0	23. 58	·1179					
22. 53	6. 0							
23. 4	8. 0							
23. 20	7. 0							
23. 59	9. 0							
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 7	22. 8. 30	0. 15	·1176	0. 15	·01590	1. 40	44 ·5	46 ·0
0. 55	12. 10	1. 34	·1162	1. 45:	·01560	3. 40	45 ·5	49 ·5
	***	7. 46	·1172	5. 30:	·01040	9. 40	46 ·8	48 ·0
1. 56	7. 6	8. 7	·1166	9. 15:	·00770	21. 40	41 ·0	43 ·0
4. 21	4. 50	9. 0	·1174	16. 30:	·01189			
6. 31	4. 0	10. 4	·1175	21. 18	·01470			
7. 46	7. 46	10. 16	·1170		·01440			
8. 9	0. 30	10. 50	·1176	23. 55	·01470			
8. 37	3. 35	12. 40	·1179					
9. 29	4. 35	13. 8	·1188					
11. 20	2. 30	14. 8	·1180					
12. 58	6. 20	18. 35	·1200					
13. 33:	3. 30	21. 25	·1188					
13. 17	6. 50	21. 53	·1189					
	***	22. 53	·1176					
15. 7	7. 40	23. 50	·1182					
15. 27	6. 0							
17. 24	7. 30							
17. 28	5. 30							
19. 2	5. 35							
20. 10	7. 30							
20. 52	6. 0							
22. 10	6. 10							
22. 18	7. 30							
22. 55	8. 20							
23. 33	7. 25							
23. 50	8. 0							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 37	22. 7. 30	2. 0	·1174	0. 30	·01480	1. 40	45 ·0	46 ·5
1. 25	10. 35	3. 45	·1172	2. 0:	·01460	3. 40	47 ·0	49 ·0
2. 50	7. 40	4. 45	·1177	7. 0:	·00990	9. 40	46 ·0	48 ·0
3. 43	8. 50	5. 40	·1171	17. 0:	·00722	23. 20	42 ·5	44 ·0
4. 32	7. 0	6. 25	·1183	23. 59	·00850			
4. 43	8. 0	8. 40	·1174					
6. 36	4. 35	9. 50	·1176					
7. 25	6. 30	10. 15	·1183					
	***	10. 40	·1174					
9. 41	3. 35	12. 5	·1173					

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. 3		Dec. 3						
h m	° ′ ″	h m		h m		h m	°	°
10. 7	22. 0. 0	12. 45	·1187					
10. 21	1. 0	13. 46	·1176					
10. 43	0. 0	18. 35	·1194					
12. 15	5. 25	23. 15	·1177					
12. 33	0. 30	23. 30	·1178					
13. 13	1. 0							
14. 14	6. 0							
16. 7	6. 30							
16. 44	8. 0							
18. 30	5. 30							
19. 40	7. 10							
22. 15	6. 30							
23. 18	10. 0							
23. 59	10. 30							
Dec. 4		Dec. 4		Dec. 4		Dec 4		
0. 15	22. 10. 30	0. 45	·1174	0. 45	·00865	9. 40	45 ·5	47 ·5
2. 55	9. 5	1. 15	·1170	5. 15:	·00850	21. 40	47 ·0	50 ·0
3. 33	11. 0	3. 30	·1182	11. 0	·00670			
4. 20	8. 10	5. 8	·1167	14. 0	·00620			
	***		***	21. 54	·00565			
5. 30	11. 30	7. 3	·1168		(†)			
6. 13	8. 10	7. 14	·1163					
6. 28	10. 30	9. 15	·1179					
7. 17	5. 35	10. 40	·1166					
8. 43	5. 30	10. 53	·1176					
9. 33	2. 30	11. 50	·1170					
10. 35	22. 4. 30	13. 38	·1186					
11. 13	21. 52. 35	14. 34	·1171					
11. 53	22. 0. 0	15. 47	·1182					
12. 23	2. 35	17. 15	·1172					
13. 5	2. 40	18. 8	·1191					
13. 15	22. 3. 40	20. 45	·1188					
13. 42	21. 59. 30	21. 45	·1176					
14. 16	21. 58. 0		(†)					
15. 3	22. 4. 30							
16. 32	4. 0							
17. 47	11. 0							
18. 20	7. 30							
18. 45	9. 30							
21. 47	12. 35							
	(†)							
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
1. 7	22. 10. 40	1. 15	·1178		(†)	1. 40	45 ·0	47 ·0
1. 45	12. 0	2. 6	·1170	9. 55	·00710	3. 40	48 ·8	50 ·0
2. 17	10. 30	4. 15	·1174	14. 5:	·00670	9. 40	50 ·0	52 ·0
2. 39	12. 0	7. 0	·1186	23. 59	·00870	21. 40	48 ·0	50 ·0
3. 55	10. 40	9. 15	·1175					
4. 45	6. 20	9. 50	·1185					
8. 44	5. 25	10. 20	·1178					
9. 2	3. 0	12. 37	·1188					
9. 24	22. 4. 45	14. 30	·1181					
9. 41	21. 57. 0	20. 10	·1196					
10. 32	22. 5. 0	20. 54	·1188					
11. 44	22. 4. 10	22. 0	·1198					
12. 36	21. 59. 35	23. 59	·1180					
13. 12	22. 0. 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.	Of V. F. Magnet
Dec. 5								
h m	° ′ ″	h m		h m		h m	°	°
13. 38	22. 3. 45							
14. 28	3. 25							
15. 13	5. 50							
19. 15	6. 20							
20. 0	7. 50							
22. 1	6. 20							
22. 41	8. 25							
23. 22	7. 30							
23. 34	11. 30							
23. 59	10. 30							
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 31	22. 7. 15	0. 0	·1180	0. 40	·00880	1. 40	47 ·0	52 ·5
1. 55	23. 50		***		***	3. 40	49 ·5	52 ·0
2. 27	15. 45	2. 0	·1148	3. 22	·00940	9. 40	47 ·0	49 ·0
2. 37	17. 0		***	4. 0	·01030	21. 40	45 ·5	47 ·5
3. 0	17. 10	2. 28	·1154	4. 25	·01125			
3. 2	15. 30	2. 40	·1136	4. 35	·01085			
3. 13	20. 0		***	4. 54	·01124			
3. 31	22. 0	3. 8	·1160	5. 3	{·01100			
3. 36	25. 30	3. 10	·1146		{·01130			
3. 54	17. 30	3. 16	·1160	5. 25	·01120			
4. 7	27. 0	3. 44	·1165	5. 40	·01155			
4. 14	22. 50	3. 53	·1146	5. 55	·01050			
4. 19	26. 0	4. 3	·1160	6. 14	·01120			
	***	4. 25	·1136	6. 26	·01050			
4. 36	20. 0	4. 30	·1140		***			
4. 46	24. 0		***	7. 20	·00970			
4. 51	18. 35	4. 53	·1122		***			
4. 55	19. 30	5. 0	·1132	7. 45	·01016			
	***	5. 17	·1132	7. 57	·01150			
5. 8	15. 30	5. 25	·1120	8. 5	·01120			
5. 17	18. 45	5. 35	·1132	8. 25	·01390			
5. 22	12. 30	5. 46	·1104	8. 30	·01310			
5. 27	12. 20	5. 56	·1120	8. 33	·01390			
5. 32	19. 0	6. 20	·1098	8. 46	·00870			
5. 50	2. 10		***	9. 12	·00600			
6. 7	22. 12. 0	6. 55	·1128	9. 35	·00923			
6. 23	21. 52. 10	6. 59	·1121		***			
6. 33	57. 0	7. 8	·1134	10. 8	·00865			
6. 43	21. 50. 40		***	10. 24:	·00902			
7. 8	22. 1. 10	7. 45	·1110	11. 10:	·00855			
	***		***	11. 47	·00885			
7. 22	21. 57. 40	8. 30	·1152	12. 10	·00850			
7. 28	22. 3. 0	8. 35	·1142	12. 23	·00866			
7. 34	1. 25	8. 38	·1160	16. 15:	·00835			
7. 39	3. 0	8. 44	·1099	23. 59	·00925			
7. 48	0. 40	8. 58	·1144					
7. 54	22. 2. 30	9. 16	·1042					
8. 8	21. 55. 35	9. 44	·1118					
8. 14	21. 56. 5		***					
8. 51	22. 3. 20	10. 10	·1118					
9. 13	21. 46. 50	10. 14	·1110					
9. 18	39. 50	10. 46	·1134					
9. 31	53. 5	11. 30	·1138					
9. 46	21. 51. 0	11. 52	·1162					
	***	12. 9	·1114					
10. 36	22. 5. 5	12. 46	·1150					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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. 6		Dec. 6						
h m	° ′ ″	h m		h m		h m	°	°
10. 45	22. 4. 30	13. 10	·1135					
10. 53	22. 6. 0	13. 28	·1144					
11. 15	21. 59. 0	15. 15	·1143					
11. 46	22. 6. 0		***					
11. 58	22. 0	18. 38	·1163					
12. 20	6. 0		***					
	***	21. 50	·1168					
12. 44	7. 20		***					
12. 53	14. 0	23. 53	·1135					
13. 31	7. 10	23. 59	·1140					
13. 47	5. 15							
15. 28	6. 50							
15. 36	12. 0							
15. 53	13. 0							
16. 27	5. 35							
16. 52	4. 0							
	***							
17. 39	6. 40							
	***							
20. 35	5. 10							
	***							
23. 1	7. 30							
23. 8	9. 40							
	***							
23. 18	7. 25							
23. 38	11. 0							
23. 59	9. 0							
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 18	22. 9. 30	0. 15	·1128	0. 45	·00920	1. 40	51 ·0	52 ·2
1. 38	6. 30	1. 8	·1149	3. 3	·00790	3. 40	52 ·0	52 ·5
1. 54	8. 40	3. 30	·1149		·00825	9. 56	51 ·0	52 ·3
3. 31	6· 30		(†)	6. 0	·00840	21. 40	47 ·0	49 ·0
	(†)	10. 20	·1155		·01040			
10. 13	6. 15	12. 0	·1158	7. 30:	·01002			
11. 43	4. 40	12. 32	·1170	8. 28:	·01020			
12. 29	6. 30	13. 35	·1157	9. 34	·00995			
13. 7	4. 0	15. 30	·1157	12. 30	·01065			
13. 57	6. 30	17. 0	·1167	16. 30	·01170			
14. 48	4. 40	17. 45	·1164	23. 51	·01615			
15. 43	7. 0	18. 10	·1169					
17. 0	5. 0	21. 30	·1171					
17. 33	7. 30	22. 45	·1160					
18. 28	4. 50		(†)					
18. 49	7. 0							
19. 0	4. 30							
22. 29	6. 50							
23. 52	9. 0							
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	22. 10. 0	1. 30	·1160	0. 0	·01621	1. 40	48 ·0	50 ·0
0. 46	9. 0	3. 45	·1162	1. 30:	·01669	3. 40	50 ·0	52 ·5
1. 28	11. 0	4. 15	·1167	6. 0:	·01320	9. 40	48 ·7	51 ·0
3. 13	7. 0	6. 40	·1162	7. 0	·01260	21. 40	46 ·5	49 ·0
4. 48	6. 0	7. 0	·1140	7. 25	·01280			
5. 32	7. 30	7. 25	·1174	8. 0:	·01245			
6. 31	22. 6. 0	8. 18	·1160	21. 0:	·01465			
7. 8	21. 56. 0	9. 23	·1168	22. 0:	·01470			

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. 8		Dec. 8		Dec. 8				
h m	° ′ ″	h m		h m		h m	°	°
7. 48	22. 5. 0	23. 30	·1170	23. 52	·01517			
7. 55	4. 20	23. 59	·1172					
8. 54	6. 30							
9. 57	4. 30							
10. 16	5. 30							
11. 30	4. 10							
12. 0	5. 30							
12. 14	8. 15							
12. 34	3. 30							
13. 16	5. 14							
21. 39	6. 0							
23. 30	8. 30							
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 15	22. 10. 0	0. 0	·1172	0. 15	·01535	1. 40	46 ·5	49 ·0
5. 13	5. 15	7. 32	·1174	2. 45:	·01510	3. 40	49 ·5	49 ·8
7. 40	5. 40	8. 10	·1168	7. 0:	·01170	9. 40	48 ·5	48 ·5
8. 34	3. 15	8. 53	·1173	11. 30	·01073	21. 40	44 ·8	47 ·5
9. 41	5. 30		***	15. 30:	·01160			
	***	11. 34	·1174	23. 44	·01582			
12. 18	4. 0	15. 14	·1173					
13. 8	5. 50	21. 5	·1187					
14. 15	4. 5	23. 15	·1177					
14. 54	5. 0							
23. 13	5. 30							
23. 48	7. 0							
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
0. 27	22. 7. 30	0. 0	·1173	0. 0	·01590	1. 40	45 ·0	47 ·0
5. 3	4. 0	4. 30	·1171	1. 45:	·01600	3. 40	48 ·7	49 ·0
7. 58	4. 30	11. 35	·1183	5. 25	·01320	9. 40	45 ·7	47 ·7
	(†)	20. 8	·1203		·01540	23. 20	39 ·7	43 ·0
9. 40	5. 15*	23. 30	·1183	6. 15:	·01540			
	(†)	23. 59	·1196	8. 25	·01635			
23. 20	7. 15*				·01570			
				23. 46	·01450			
Dec. 11		Dec. 11		Dec. 11		Dec. 11		
0. 28	22. 8. 0	0. 15	·1198	0. 0	·01472	9. 40	38 ·5	42 ·3
2. 30	8. 0	21. 45	·1203	21. 15	·01470	21. 40	38 ·2	42 ·2
3. 43	6. 30	23. 18	·1189	23. 59	·01430			
4. 32	8. 0	23. 38	·1193					
5. 58	5. 30							
11. 28	3. 15							
11. 44	4. 30							
12. 2	3. 35							
16. 3	5. 0							
21. 46	3. 0							
23. 35	7. 0							
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
0. 0	22. 7. 0	0. 0	·1188	0. 15	·01430	1. 40	40 ·0	43 ·0
0. 57	7. 30	1. 15	·1178	2. 20:	·01350	3. 40	43 ·4	44 ·8
4. 24	5. 10	4. 34	·1177	7. 0:	·00760	9. 40	42 ·0	44 ·0
9. 39	4. 45	7. 23	·1190	11. 44	·00710	21. 40	39 ·7	42 ·7
9. 55	4. 25	12. 34	·1192	18. 0:	·00875			
14. 17	6. 10	12. 45	·1202	23. 59	·00935			
18. 27	2. 45	13. 44	·1194					

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. 12		Dec. 12						
h m	° ′ ″	h m		h m		h m	°	°
19. 25	22. 4. 0	19. 8	·1210					
20. 10	9. 0	20. 34	·1196					
20. 22	8. 30	20. 50	·1210					
20. 32	9. 30	23. 10	·1182					
20. 41	7. 30		***					
20. 51	8. 35							
21. 11	6. 30							
21. 44	9. 35							
22. 2	6. 35							
	***							
22. 40	9. 0							
23. 2	8. 0							
23. 21	10. 0							
23. 26	8. 30							
23. 35	11. 30							
23. 59	12. 0							
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 20	22. 14. 0	0. 45	·1144	0. 15	·00920	1. 40	45 ·0	46 ·5
0. 53	17. 0	1. 14	·1159	0. 47	·00940	3. 40	46 ·0	47 ·0
1. 8	15. 0	1. 23	·1152	2. 28	·00850	9. 40	48 ·0	48 ·3
1. 18	19. 0	1. 44	·1165	2. 40	·00880	21. 40	44 ·0	45 ·5
1. 39	15. 0	2. 30	·1134	3. 40	·00695			
2. 22	24. 50	2. 43	·1168	3. 44	·00740			
2. 33	17. 0	2. 53	·1136	4. 20	·00770			
2. 43	25. 10	3. 0	·1149	5. 55	·00760			
2. 54	14. 30	3. 15	·1144	6. 27	·00792			
3. 2	15. 30	3. 38	·1156	7. 0:	·00740			
3. 7	12. 30	4. 0	·1142	8. 43	{·00730			
3. 33	12. 30	5. 0	·1159		{·00845			
3. 50	18. 0	5. 46	·1155	9. 45:	·00800			
4. 0	11. 30	6. 4	·1135	10. 55	·00810			
4. 11	10. 30	6. 27	·1176	11. 15:	·00766			
4. 18	12. 40	6. 50	·1175	12. 0	·00780			
4. 43	6. 30	7. 13	·1160	14. 0:	·00880			
5. 5	8. 35	7. 20	·1166	15. 30:	·00910			
5. 32	5. 30	7. 53	·1152	24. 35	·01215			
5. 45	22. 7. 0	8. 20	·1161					
6. 22	21. 38. 0	10. 0	·1162					
6. 33	48. 0	10. 28	·1170					
6. 57	56. 30	10. 40	·1168					
7. 17	53. 0	10. 53	·1187					
7. 34	57. 35	11. 20	·1162					
7. 55	21. 57. 30	11. 45	·1180					
8. 25	22. 3. 0	12. 15	·1160					
8. 40	1. 0	15. 8	·1174					
9. 57	3. 0	15. 27	·1169					
10. 13	1. 30	18. 30	·1182					
10. 42	3. 0	19. 25	·1175					
11. 0	11. 40	20. 0	·1184					
11. 33	5. 0	21. 38	·1184					
12. 29	3. 20	22. 30	·1173					
12. 45	5. 30		***					
13. 42	6. 0	23. 50	·1172					
13. 58	7. 45							
14. 16	6. 30							
14. 48	9. 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. 13								
h m	° ′ ″	h m		h m		h m	°	°
17. 2	22. 6. 0							
17. 33	5. 30							
19. 33	8. 0							
21. 14	5. 0							
23. 7	6. 0							
23. 40	8. 5							
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
0. 0	22. 7. 30	0. 15	·1167	0. 7	·01225	1. 40	48 ·0	49 ·5
0. 19	7. 0	0. 55	·1164	1. 30:	·01200	3. 40	49 ·0	54 ·0
0. 30	8. 30	14. 53	·1188	4. 44	{·00915	9. 40	46 ·0	48 ·0
5. 30	4. 30	19. 35	·1204		{·01010	21. 40	41 ·0	44 ·8
10. 13	4. 45	21. 23	·1201	5. 10:	·01000			
10. 51	6. 30	23. 40	·1180	8. 40	·01160			
11. 41	5. 45	23. 59	·1181	12. 50	{·01605			
12. 30	6. 30				{·01565			
	(†)			20. 30:	·01450			
21. 40	5. 7*			23. 59	·01450			
	(†)							
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
0. 35	22. 7. 10	0. 0	·1181	0. 20	·01468	1. 40	38 ·8	42 ·5
0. 58	6. 0	0. 50	·1185	8. 30:	·00990	3. 40	45 ·0	48 ·0
3. 3	6. 45	3. 25	·1179	14. 15	·00970	9. 40	42 ·8	43 ·5
5. 2	3. 20	5. 40	·1184	23. 59	·01250	21. 40	41 ·0	42 ·5
6. 20	3. 35	6. 9	·1178					
6. 36	5. 0	7. 30	·1186					
9. 35	22. 3. 5	10. 0	·1184					
9. 59	21. 54. 35	11. 20	·1169					
10. 28	22. 1. 30	12. 53	·1190					
11. 44	4. 0	13. 20	·1196					
12. 32	2. 40	13. 50	·1190					
13. 31	7. 0	17. 45	·1197					
13. 51	4. 30	18. 35	·1204					
14. 5	6. 30	20. 50	·1202					
15. 18	3. 0	21. 45	·1188					
15. 46	6. 25	23. 23	·1190					
16. 7	5. 0							
17. 19	5. 0							
18. 9	8. 30							
18. 37	6. 30							
20. 51	4. 35							
23. 7	5. 30							
23. 36	7. 45							
23. 58	7. 0							
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 7	22. 6. 10	0. 45	·1175	0. 5	·01260	1. 40	42 ·0	43 ·0
	***	1. 0	·1178	2. 0:	·01260	3. 40	44 ·0	47 ·0
0. 39	9. 30	1. 35	·1168	7. 0:	·00900	9. 40	41 ·0	42 ·7
	***	1. 58	·1170	12. 50	·01140	21. 40	38 ·0	39 ·3
1. 37	9. 10	2. 50	·1160	13. 15:	·01114			
	***	3. 45	·1162	15. 45:	·01260			
2. 8	11. 45		***	17. 55	·01330			
	***	5. 34	·1178	18. 30:	·01324			
3. 48	2. 45		***	21. 52	·01415			
4. 13	5. 30	8. 32	·1180	21. 57	·01390			
4. 44	5. 40	8. 47	·1174	23. 30	·01432			

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.
Dec. 16		Dec. 16						
h m	° ′ ″	h m		h m		h m	°	°
5. 2	22. 4. 30	9. 30	·1186					
5. 25	6. 0	9. 58	·1178					
6. 17	4. 35	11. 20	·1186					
8. 33	4. 0	12. 38	·1186					
8. 57	0. 0	12. 50	·1195					
9. 3	22. 0. 30	13. 5	·1188					
9. 22	21. 55. 10	17. 45	·1188					
10. 10	22. 4. 0	18. 30	·1201					
12. 31	2. 45	19. 30	·1197					
12. 59	11. 15	20. 47	·1201					
13. 38	0. 0	23. 58	·1164					
14. 15	3. 45							
	***							
17. 32	5. 0							
17. 55	10. 50							
18. 44	3. 30							
21. 30	5. 0							
21. 57	3. 30							
22. 58	6. 0							
23. 17	5. 30							
23. 59	9. 30							
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
1. 40	22. 11. 13*	1. 40	·1179*	0. 37	·01205	1. 40	41 ·0	42 ·2
3. 40	10. 49*	3. 40	·1175*	4. 20	·01015	3. 40	42 ·0	42 ·2
9. 40	3. 5*	9. 40	·1191*	7. 45:	·00655	9. 40	42 ·0	43 ·0
23. 4	5. 33*	23. 4	·1195*	8. 30	·00625	23. 4	39 ·0	40 ·0
				10. 15:	·00528			
				12. 45	·00490			
				13. 0	·00450			
				20. 0:	·00635			
				23. 18	·00748			
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
9. 6	22. 2. 37*	9. 6	·1204*	0. 0	·00796	9. 6	38 ·0	39 ·7
21. 40	4. 5*	21. 40	·1208*	3. 0:	·00915	21. 40	34 ·0	35 ·5
				5. 28	·00975			
				7. 0:	·00965			
				14. 45:	·01110			
				18. 45:	·01302			
				22. 24	·01400			
				22. 33	·01370			
				23. 59	·01386			
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
1. 51	22. 7. 15	1. 45	·1184	1. 0	·01360	1. 40	38 ·4	40 ·0
2. 32	7. 30		***	3. 30:	·01240	3. 40	36 ·5	42 ·0
2. 53	4. 45	3. 23	·1177	8. 0:	·00840	9. 40	40 ·8	42 ·2
4. 5	6. 30		***	12. 55	·00730	21. 40	39 ·5	42 ·2
4. 40	4. 50	6. 32	·1188	20. 0:	·00765			
6. 52	6. 0	7. 7	·1177	22. 10	·00732			
7. 15	1. 0	8. 26	·1186	23. 59	·00720			
7. 32	6. 15	9. 20	·1178					
7. 45	1. 0		***					
8. 1	2. 30	11. 8	·1189					
8. 17	0. 30	19. 30	·1205					
8. 36	4. 0	21. 4	·1200					
9. 42	3. 0	21. 20	·1204					

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. 19		Dec. 19						
h m	° ′ ″	h m		h m		h m	°	°
10. 14	22. 4. 0	22. 53	·1189					
10. 55	2. 45	23. 59	·1189					
11. 7	3. 20							
11. 21	1. 45							
12. 16	4. 0							
16. 0	6. 30							
20. 48	3. 35							
23. 9	4. 30							
23. 19	5. 50							
23. 48	5. 0							
23. 59	6. 0							
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 9	22. 7. 25	0. 5	·1185	1. 49	·00618	1. 40	39 ·5	42 ·3
1. 43	6. 0	2. 0	·1182	2. 0	·00585	3. 40	43 ·0	44 ·0
2. 40	7. 15	3. 40	·1181	5. 15:	·00674	9. 40	44 ·0	45 ·0
3. 32	6. 30	4. 53	·1156	6. 56	·00654	21. 40	41 ·8	43 ·4
3. 47	7. 0	6. 0	·1179		·00780			
4. 15	5. 30	6. 25	·1171	9. 45:	·00710			
4. 32	2. 0	9. 45	·1190	14. 15	·00710			
4. 49	4. 25	10. 4	·1188	20. 30:	·00790			
5. 8	2. 30	10. 17	·1191		***			
6. 37	3. 30	10. 28	·1186	23. 59	·00880			
6. 42	6. 30	10. 45	·1194					
6. 46	3. 30	13. 25	·1191					
7. 4	5. 0	13. 45	·1201					
7. 47	5. 35		***					
10. 13	4. 10	15. 40	·1182					
14. 2	4. 25	16. 20	·1196					
14. 47	1. 0		***					
	***	18. 30	·1202					
15. 47	2. 0	18. 55	·1204					
16. 10	3. 10	19. 30	·1201					
16. 28	1. 20	22. 8	·1206					
	***	23. 15	·1184					
17. 10	2. 30	23. 45	·1196					
17. 45	7. 30							
18. 0	8. 30							
18. 26	6. 10							
18. 37	7. 50							
21. 13	4. 50							
22. 33	5. 30							
22. 48	6. 30							
23. 6	6. 35							
23. 12	4. 30							
23. 59	9. 0							
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
0. 13	22. 7. 0	0. 10	·1180	0. 30	·00890	1. 40	44 ·0	45 ·0
	***	0. 30	·1192	0. 40	·00880	3. 40	45 ·2	46 ·0
0. 28	11. 30	0. 50	·1173	1. 15	·00870	9. 50	44 ·0	45 ·0
0. 40	7. 25	1. 25	·1159		***	21. 40	39 ·7	42 ·2
	***	1. 50	·1177	2. 33:	·00880			
1. 49	13. 0	2. 17	·1173		***			
2. 21	7. 0	2. 33	·1183	4. 13	·00740			
2. 35	12. 0	3. 40	·1176	4. 35	·00770			
	***	4. 8	·1182	4. 40	·00870			
3. 53	11. 0	4. 16	·1166	5. 8	·00875			

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

Dec. 17 and 18. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for use.

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. 21		Dec. 21		Dec. 21				
h m	° ′ ″	h m		h m		h m	°	°
4. 9	22. 14. 30	4. 46	·1132	6. 30:	·00810			
4. 28	12. 10	5. 14	·1192		***			
4. 38	22. 14. 30	5. 24	·1185	8. 45	·00895			
4. 58	21. 56. 10	5. 50	·1193	10. 45	·00866			
5. 17	22. 5. 0	6. 30	·1184	23. 45	·01440			
5. 56	9. 25	7. 0	·1193					
6. 44	7. 30	7. 20	·1173					
7. 10	10. 40		***					
7. 36	8. 30	7. 38	·1182					
7. 51	22. 3. 30		***					
8. 22	21. 31. 0	8. 3	·1157					
9. 7	22. 1. 0	8. 30	·1195					
9. 45	22. 2. 40	9. 13	·1175					
10. 14	21. 57. 0	10. 0	·1175					
10. 30:	22. 3. 0	10. 20	·1199					
10. 47	21. 58. 50	10. 45	·1174					
11. 8	22. 4. 40	11. 0	·1188					
11. 31	1. 10	11. 20	·1175					
12. 45	12. 0	12. 20	·1182					
12. 55	11. 15	12. 35	·1194					
13. 35	8. 0	13. 46	·1185					
14. 19	6. 0	19. 15	·1201					
14. 43	8. 0	20. 30	·1194					
15. 9	7. 0		***					
15. 28	8. 30	23. 10	·1190					
16. 50	5. 30							
17. 25	8. 30							
18. 29	6. 25							
20. 58	7. 25							
21. 30	5. 30							
23. 25	8. 30							
23. 35	10. 30							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
0. 6	22. 10. 30	0. 30	·1178	0. 15	·01460	1. 40	42 ·0	43 ·0
0. 35	7. 0		***	2. 0:	·01460	3. 40	42 ·0	43 ·2
1. 5	9. 30	9. 47	·1187	7. 45:	·01060	9. 40	44 ·0	45 ·0
4. 40	8. 30	10. 7	·1173	10. 0	·01020	21. 40	41 ·0	42 ·7
5. 20	3. 30	10. 30	·1185	16. 30:	·01035			
6. 3	7. 20	18. 45	·1197	19. 5:	·01090			
7. 0	5. 30	19. 30	·1210	21. 55	·01110			
7. 32	7. 0	23. 59	·1192	22. 45	·01145			
8. 2	5. 30			23. 59	·01150			
9. 30	22. 7. 0							
12. 16	21. 59. 30							
13. 8	22. 4. 30							
14. 44	6. 30							
15. 45	4. 30							
17. 53	5. 30							
18. 47	4. 45							
19. 33	8. 10							
20. 23	4. 35							
21. 7	8. 0							
23. 59	7. 0							
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 25	22. 8. 45	0. 45	·1192	0. 30	·01150	1. 40	44 ·0	44 ·5
1. 7	7. 30		***	3. 15:	·01030	3. 40	46 ·0	48 ·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.
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
h m	° ′ ″	h m		h m		h m	°	°
1. 37	22. 11. 0	2. 30	·1178	6. 0	{·00730	9. 40	47 ·0	47 ·3
1. 52	8. 25	3. 38	·1170		{·00750	21. 40		44 ·0
3. 8	10. 30	3. 49	·1178	6. 44	·00730			
3. 20	13. 0	4. 0	·1167	6. 51	·00820			
3. 45	10. 0	4. 15	·1176	8. 0:	·00800			
3. 55	11. 0	4. 42	·1166	8. 40:	·00850			
4. 4	7. 50		***		***			
	***	5. 25	·1170	11. 40	·00910			
5. 2	8. 0	5. 50	·1180	12. 25	·00920			
5. 20	5. 35		***	13. 28	·00870			
5. 43	7. 35	6. 40	·1173	16. 0:	·00910			
6. 43	4. 10	7. 4	·1181	23. 59	·01310			
7. 14	7. 30	7. 58	·1170					
7. 42	22. 4. 0	8. 25	·1182					
8. 14	21. 49. 25	9. 4	·1170					
8. 47	22. 5. 0	9. 20	·1176					
9. 17	3. 5	9. 50	·1165					
10. 12	4. 10	10. 23	·1182					
10. 19	22. 7. 15	10. 47	·1163					
10. 53	21. 58. 15	11. 28	·1182					
11. 37	22. 7. 0	11. 45	·1173					
11. 47	5. 0	12. 14	·1176					
12. 17	4. 0	12. 27	·1192					
12. 32	9. 0	12. 45	·1184					
12. 51	4. 45		***					
13. 33	0. 35	13. 45	·1181					
14. 17	22. 3. 30	15. 5	·1193					
14. 59	21. 59. 30		***					
16. 2	22. 3. 30	16. 25	·1176					
16. 25	8. 30	18. 38	·1196					
17. 25	5. 30		***					
17. 32	3. 0	23. 59	·1186					
18. 0	7. 10							
	***							
18. 47	4. 30							
19. 0	6. 35							
19. 25	5. 10							
19. 44	6. 30							
21. 49	6. 35							
23. 8	10. 30							
23. 59	9. 30							
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
0. 18	22. 10. 0	0. 0	·1186	0. 15	·01316	1. 40	44 ·0	44 ·8
3. 23	11. 0	2. 45	·1184	2. 0:	·01300	3. 40	46 ·0	47 ·5
3. 38	4. 0	4. 15	·1182	6. 33	{·00967	9. 40	45 ·8	46 ·5
3. 52	5. 30	4. 34	·1158		{·01030	23. 20	39 ·3	42 ·0
4. 13	3. 10	5. 15	·1174	8. 30:	·01032			
4. 28	5. 40	5. 42	·1163	14. 30:	·01202			
	***	6. 23	·1182	19. 45	·01565			
4. 49	0. 50	6. 55	·1156	19. 53	·01540			
	***	7. 25	·1198	23. 59	·01520			
5. 38	3. 0	8. 0	·1178					
5. 47	1. 30	8. 25	·1186					
6. 8	6. 35	9. 10	·1174					
6. 40	22. 7. 15	9. 30	·1192					
7. 8	21. 46. 20	10. 8	·1178					
7. 54	22. 2. 10		***					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.
Dec. 24		Dec. 24						
h m	° ′ ″	h m		h m		h m	°	°
8. 53	22. 3. 0	11. 38	·1182					
9. 3	5. 15	12. 23	·1180					
9. 17	2. 50	13. 28	·1195					
10. 0	7. 50	14. 8	·1174					
10. 27	3. 0		***					
11. 3	6. 0	14. 55	·1194					
11. 28	1. 0	15. 54	·1198					
11. 43	0. 50	17. 15	·1185					
12. 13	7. 0	19. 30	·1205					
12. 29	4. 50	20. 0	·1202					
12. 44	6. 10		***					
13. 44	6. 50	22. 0	·1210					
14. 10	9. 10	22. 38	·1198					
14. 44	6. 5	22. 44	·1204					
15. 22	8. 35	23. 50	·1202					
16. 8	8. 40							
16. 30	5. 30							
16. 43	7. 0							
17. 17	5. 35							
19. 4	7. 10							
19. 19	6. 5							
21. 5	10. 5							
21. 42	8. 0							
22. 0	9. 0							
22. 23	7. 20							
22. 46	9. 35							
23. 16	7. 35							
23. 47	8. 35							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 30	22. 8. 0	0. 15	·1204	0. 0	·01518	10. 20	39 ·5	42 ·5
2. 0	7. 30	3. 4	·1180	1. 31	·01520	21. 40	34 ·0	36 ·5
2. 20	9. 0	4. 25	·1181	2. 20	·01560			
3. 30	5. 35	5. 3	·1193	3. 53	·01532			
4. 5	8. 0	6. 0	·1195	8. 45	·01315			
4. 31	5. 0	6. 38	·1190	12. 48	·01500			
4. 58	4. 35	7. 27	·1201		·01472			
5. 37	6. 30	8. 10	·1194	18. 47	·01417			
6. 44	22. 4. 0	9. 15	·1202	23. 59	·01458			
7. 5	21. 59. 30	10. 0	·1198					
7. 30	22. 4. 0	10. 55	·1201					
8. 3	6. 30	11. 16	·1227					
8. 17	4. 35	11. 30	·1213					
9. 7	4. 50	12. 10	·1201					
9. 44	6. 50	14. 0	·1195					
10. 23	6. 45	21. 45	·1217					
10. 33	4. 0	23. 59	·1204					
10. 53	4. 30							
11. 7	1. 30							
11. 20	5. 0							
11. 32	3. 15							
12. 0	7. 30							
12. 15	5. 0							
13. 7	3. 0							
13. 35	3. 30							
14. 2	6. 10							
15. 8	5. 25							
16. 2	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.	Of V. F. Magnet.
Dec. 25								
h m	° ′ ″	h m		h m		h m	°	°
16. 18	22. 6. 30							
18. 21	8. 0							
19. 12	7. 0							
21. 22	7. 35							
21. 51	8. 30							
23. 59	7. 30							
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
0. 10	22. 7. 30	0. 0	·1204	0. 30	·01450	1. 40	35 ·5	37 ·0
4. 25	7. 0	4. 23	·1190	3. 0:	·01390	3. 40	37 ·0	39 ·0
6. 16	8. 0		***	7. 30:	·00900	9. 40	39 ·5	41 ·0
10. 43	4. 30	9. 45	·1194	12. 10	·00550	21. 40	38 ·0	39 ·5
12. 58	6. 0	20. 15	·1201	20. 40:	·00540			
13. 17	4. 30	23. 59	·1192	23. 59	·00690			
14. 18	6. 30							
14. 57	5. 0							
16. 0	6. 20							
16. 58	7. 0							
17. 12	4. 50							
17. 25	7. 0							
17. 35	6. 0							
17. 48	7. 10							
22. 22	8. 0							
23. 33	7. 35							
		Dec. 27		Dec. 27		Dec. 27		
		1. 40	·1195*	1. 0	·00730	1. 40	39 ·5	41 ·5
		3. 40	·1184*	2. 45:	·00720	3. 40	43 ·5	43 ·7
		9. 40	·1200*	3. 24	·00670	9. 40	43 ·8	44 ·8
		21. 40	·1218*		·00840	21. 40	43 ·5	47 ·5
				5. 0:	·00780			
				8. 0:	·00740			
				22. 5:	·01285			
				23. 30	·01330			
		Dec. 28		Dec. 28		Dec. 28		
		3. 45	·1185	2. 30:	·01330	1. 40	40 ·5	42 ·7
			***	5. 57	·00975	3. 40	43 ·5	44 ·5
		8. 30	·1184		·01050	9. 40	43 ·5	44 ·0
		9. 45	·1198	6. 0:	·01038	21. 40	34 ·0	38 ·0
		12. 55	·1196	10. 0	·01140			
		13. 8	·1205	13. 45	·01320			
		13. 47	·1193	14. 30:	·01320			
		14. 16	·1215	17. 57	·01600			
		15. 45	·1199	18. 6:	·01570			
			***	23. 38	·01535			
		19. 15	·1224					
			***					
		21. 40	·1196					
		Dec. 29		Dec. 29		Dec. 29		
		0. 50	·1198	0. 0	·01602	1. 40	37 ·0	39 ·5
		1. 45	·1206	2. 0:	·01474	3. 40	39 ·0	42 ·5
			***	5. 30:	·00980	9. 40	39 ·5	42 ·0
		5. 0	·1187	7. 20	·00897	21. 40	36 ·5	39 ·6
			***	7. 40	·00960			
		6. 35	·1192	9. 30:	·01095			
		6. 58	·1187	13. 45	·01350			

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

Dec. 27. The adjustments of the Declination Magnet were under examination from this time to the end of the year. The Photographic Trace for the Horizontal Force Magnet was too faint for use.

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	° ′ ″	Dec. 29 h m		Dec. 29 h m		h m	°	°
		7. 30	·1202	16. 40	{·01580 ·01552			
		12. 30	·1194					
		14. 50	·1212	20. 30:	·01540			
		20. 5	·1222	23. 35	·01354			
		23. 59	·1204					
		Dec. 30		Dec. 30		Dec. 30		
		0. 0	·1204	0. 40	·01335	1. 40	39 ·5	43 ·0
		1. 15	·1211	5. 8	·00730	3. 40	41 ·5	45 ·0
		4. 45	·1196	5. 18	·00744	9. 40	41 ·0	43 ·5
		7. 30	·1202	8. 0:	·00680	21. 40	34 ·5	38 ·0
		9. 45	·1196	10. 55	·00780			
		11. 6	·1223	11. 10	·00770			
		11. 48	·1200	14. 45:	·01005			
		17. 0	·1216	20. 55	·01530			
		17. 30	·1212	21. 4	·01505			
		18. 16	·1228	23. 32	{·01566 ·01575			
		19. 5	·1228					
		22. 40	·1204					
		23. 25	·1208					

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 or Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Dec. 31 h m		Dec. 31 h m		Dec. 31 h m	°	°
		0. 20	·1206	0. 10	·01570	1. 40	38 ·0	42 ·0
		3. 15	·1192	1. 30:	·01490	3. 40	42 ·0	44 ·8
		4. 23	·1201	6. 0:	·00765	9. 40	36 ·0	39 ·0
		5. 30	·1200	6. 55	·00770	23. 25	38 ·0	42 ·5
		6. 0	·1181	7. 4	·00820			
		8. 4	·1209	7. 50:	·00795			
		10. 45	·1206	10. 50	·00890			
		11. 9	·1200	11. 0:	·00890			
		12. 37	·1208	15. 45:	·01055			
		13. 5	·1221	21. 0:	·01365			
		13. 32	·1211	21. 30:	·01380			
		15. 20	·1220	23. 30	·01505			
		17. 37	·1215					
		19. 45	·1225					
		21. 40	·1220					
		22. 10	·1210					
		23. 25	·1206					

The indications are taken from the sheets of the Photographic Record, except where an asterisk is attached to the 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.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1853.

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 1 was used throughout the Year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1853.

Day and Approximate Hour, 1853.		Magnetic Dip.	Day and Approximate Hour, 1853.		Magnetic Dip.	Day and Approximate Hour, 1853.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	9. 21	68. 41 ·25	May	2. 9	68. 49 ·00	August	28. 21	68. 43 ·75
	10. 3	68. 41 ·25		8. 21	68. 46 ·25		29. 3	68. 43 ·00
	10. 9	68. 40 ·50		9. 3	68. 46 ·50		29. 9	68. 45 ·50
	16. 21	68. 47 ·75		9. 9	68. 47 ·50			
	17. 3	68. 43 ·25		15. 21	68. 43 ·25	September	4. 21	68. 41 ·75
	17. 9	68. 45 ·75		16. 3	68. 44 ·25		5. 3	68. 39 ·25
	23. 21	68. 35 ·00		16. 9	68. 45 ·00		5. 9	68. 44 ·25
	24. 3	68. 49 ·75		22. 21	68. 43 ·00		11. 21	68. 38 ·25
	24. 9	68. 43 ·25		23. 3	68. 41 ·75		12. 3	68. 40 ·50
	30. 21	68. 53 ·00		23. 9	68. 41 ·75		12. 9	68. 40 ·00
	31. 3	68. 49 ·25		29. 21	68. 41 ·50		18. 21	68. 43 ·00
	31. 9	68. 45 ·25		30. 3	68. 41 ·75		19. 3	68. 43 ·00
				30. 9	68. 41 ·75		19. 9	68. 43 ·00
February	6. 21	68. 51 ·25						
	7. 3	68. 48 ·00	June	5. 21	68. 41 ·75	October	3. 21	68. 42 ·25
	7. 9	68. 46 ·75		6. 3	68. 41 ·50		4. 3	68. 44 ·00
	13. 21	68. 52 ·75		6. 9	68. 41 ·75		4. 9	68. 43 ·00
	14. 3	68. 50 ·00		19. 21	68. 43 ·00		23. 21	68. 43 ·75
	14. 9	68. 46 ·25		20. 3	68. 45 ·50		24. 3	68. 44 ·25
	20. 21	68. 49 ·50		20. 9	68. 43 ·75		24. 9	68. 43 ·00
	21. 3	68. 47 ·50		26. 21	68. 46 ·50		30. 21	68. 45 ·00
	21. 9	68. 47 ·25		27. 3	68. 46 ·25		31. 3	68. 43 ·75
	27. 21	68. 48 ·75		27. 9	68. 45 ·50		31. 9	68. 44 ·50
	28. 3	68. 49 ·25						
	28. 9	68. 45 ·50	July	3. 21	68. 38 ·00	November	6. 21	68. 41 ·25
				4. 3	68. 41 ·50		7. 3	68. 45 ·00
March	6. 21	68. 48 ·00		4. 9	68. 43 ·75		7. 9	68. 46 ·75
	7. 3	68. 49 ·00		7. 23	68. 42 ·50		13. 21	68. 46 ·75
	7. 9	68. 45 ·25		10. 21	68. 35 ·50		14. 3	68. 46 ·25
	13. 21	68. 44 ·25		11. 3	68. 41 ·50		14. 9	68. 46 ·25
	20. 21	68. 45 ·00		11. 9	68. 40 ·50		20. 21	68. 45 ·50
	21. 3	68. 46 ·00		17. 21	68. 43 ·00		21. 3	68. 46 ·25
	21. 9	68. 46 ·50		18. 3	68. 46 ·25		21. 9	68. 46 ·75
	27. 21	68. 47 ·50		18. 9	68. 41 ·25		27. 21	68. 49 ·25
	28. 3	68. 49 ·25		24. 21	68. 43 ·00		21. 3	68. 52 ·50
	28. 9	68. 43 ·75		25. 3	68. 43 ·75		28. 9	68. 50 ·00
				25. 9	68. 43 ·75			
April	3. 21	68. 41 ·75				December	4. 21	68. 42 ·25
	4. 3	68. 42 ·25	August	0. 21	68. 41 ·75		5. 3	68. 42 ·50
	4. 9	68. 41 ·50		1. 3	68. 40 ·50		5. 9	68. 40 ·50
	10. 21	68. 46 ·75		1. 9	68. 40 ·00		11. 21	68. 44 ·50
	11. 3	68. 49 ·50		7. 21	68. 42 ·00		12. 3	68. 46 ·75
	11. 9	68. 48 ·00		8. 3	68. 41 ·75		12. 9	68. 46 ·25
	17. 21	68. 48 ·00		8. 9	68. 41 ·50		18. 21	68. 46 ·50
	18. 3	68. 48 ·00		14. 21	68. 41 ·75		19. 3	68. 45 ·50
	18. 9	68. 48 ·00		15. 9	68. 43 ·00		19. 9	68. 45 ·50
				21. 21	68. 41 ·25		25. 21	68. 49 ·25
May	1. 21	68. 48 ·50		22. 3	68. 40 ·00		26. 3	68. 49 ·25
	2. 3	68. 47 ·50		22. 9	68. 40 ·00		26. 9	68. 46 ·75

MEAN MONTHLY MAGNETIC DIP, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1853.

1853, 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. 44 ·25	4	68. 45 ·88	4	68. 43 ·69	4
February	68. 50 ·56	4	68. 48 ·69	4	68. 46 ·44	4
March	68. 46 ·19	4	68. 48 ·08	3	68. 45 ·17	3
April	68. 45 ·50	3	68. 46 ·58	3	68. 45 ·83	3
May	68. 44 ·50	5	68. 44 ·35	5	68. 45 ·00	5
June	68. 43 ·75	3	68. 44 ·42	3	68. 43 ·67	3
July	68. 40 ·40	5	68. 43 ·31	4	68. 42 ·31	4
August	68. 42 ·10	5	68. 41 ·31	4	68. 41 ·12	4
September	68. 41 ·00	3	68. 40 ·92	3	68. 42 ·42	3
October	68. 43 ·67	3	68. 44 ·00	3	68. 43 ·50	3
November	68. 45 ·69	4	68. 47 ·50	4	68. 47 ·44	4
December	68. 45 ·62	4	68. 46 ·00	4	68. 44 ·75	4
Mean	68. 44 ·40	47	68. 45 ·09	44	68. 44 ·28	44

mean 68° 44′ 6

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1853.

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, 1853.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibrations of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	s		°
January 30	Lateral	1. 0	41·0	11. 37. 36·40	5·148	100	35·0
	Axial.....			6. 27. 16·99			
	Lateral	1. 6		3. 26. 18·05			
	Axial.....			1. 45. 13·43	5·148	100	45·2
April 27	Lateral	1. 0	53·0	11. 38. 25·95	5·155	100	50·6
	Axial.....			6. 26. 51·79			
	Lateral	1. 6		3. 26. 23·46			
	Axial.....			1. 45. 3·15	5·156	100	54·5
May 27	Lateral	1. 0	77·1	11. 34. 38·76	5·193	100	73·5
	Axial.....			6. 24. 47·37			
	Lateral	1. 6		3. 24. 57·31			
	Axial.....			1. 43. 32·78	5·192	100	76·0

Observations for Deflexion were made during the remainder of the year, but they were evidently erroneous, and in September the apparatus was taken down for repair and adjustment.

Computation of the Values of Absolute Measure of Horizontal Force.

Month and Day, 1853.	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. $\frac{1}{2}a$ = Log. $\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. m X.	Value of X.	Value of m.
								s			
January 30	+0·20311	−0·00258	−0·00154	0·09598	0·01644	+0·20308	9·00664	5·148	0·16526	3·796	0·385
April 27	+0·20309	−0·00132		0·09578	0·01652	+0·20327	9·00706	5·154	0·16416	3·789	0·385
May 27	+0·20140	−0·00071		0·09359	0·01758	+0·20213	9·00462	5·192	0·15778	3·772	0·381

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

Month and Day, 1853.	Adopted time of Vibration.	Temperature.	Log. m X.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
	s	°			
January 26	5·152	38·0	0·16458	0·385	3·794
28	5·152	38·9	0·16458	0·385	3·794
February 7	5·140	42·0	0·16661	0·385	3·812
March 1	5·150	34·0	0·16492	0·385	3·797
11	5·153	49·8	0·16442	0·385	3·793
26	5·150	42·5	0·16492	0·385	3·797
30	5·154	53·5	0·16425	0·385	3·791
April 9	5·155	45·0	0·16488	0·385	3·790
19	5·153	54·0	0·16442	0·385	3·793
May 16	5·177	66·2	0·16038	0·383	3·777
21	5·175	65·0	0·16072	0·382	3·790
June 15	5·190	67·7	0·15821	0·381	3·778
23	5·193	68·0	0·15770	0·381	3·773

The number of vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1853.

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 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 thermometers used for determining the highest temperature of the air, and the highest state of the wet-bulb thermometer, are mercurial thermometers invented by Messrs. Negretti and Zambra, and described in the volume for 1851; and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they 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 the 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. They are read at 21^h (9^h A.M.) every day; their readings are placed opposite to the day preceding the civil day on which the scales are actually read. The thermometer for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction: it is read at 9^h P.M. every evening.

The thermometer for the maximum temperature of the water of the Thames was out of order till January 22, and from November 6 to December 4. That for the minimum temperature was out of order from April 29 to May 3; July 3 to 10; July 29 to October 3, and from October 17 to 26.

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, or they are found from the absolute maxima and minima, as determined by comparing the observations of the self-registering wet-bulb thermometers with those of the self-registering dry-bulb thermometers.

The difference between the mean temperature for the day and the mean for the same day of the year on an average of thirty-eight years, is found by comparison with a table of results deduced by Mr. Glaisher from thirty-eight years' observations, made at the Royal Observatory, ending 1851.

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-guage 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-m-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, 1853.	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 shown by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shown by a Self-Registering Thermometer read at 9h, A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. 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 38 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.
Jan. 1	..	29·895	51·8	45·8	49·1	42·7	55·0	39·0	..	42·8	6·4	7·6	5·5	+12·2	SW	....	..	..	..	180	0·00
2	Last Quarter In Equator.	29·695	51·5	47·8	48·9	43·0	52·5	43·0	..	44·2	5·9	7·4	4·0	+12·6	SSW	SSW	..	..	..	130	0·03
3	..	29·665	50·2	36·8	43·7	37·9	51·0	43·8	..	44·8	5·8	8·1	3·9	+ 7·7	S	S	..	..	..	145	0·14
4	..	29·473	51·7	37·5	47·0	41·5	52·2	30·5	..	44·6	5·5	7·0	2·3	+11·3	S	SSW	7·0	0·0	3·2	230	0·04
5	..	29·560	51·9	40·7	45·2	38·5	54·0	35·6	..	45·0	6·7	7·6	5·8	+ 9·7	SW	SW	2·5	0·0	0·2	105	0·04
6	Perigee	29·502	49·7	37·3	42·5	37·0	51·0	32·3	..	44·1	5·5	8·6	2·4	+ 7·2	S	S	12·0	0·0	1·5	170	0·24
7	..	29·151	53·4	36·8	46·5	42·3	52·5	30·8	..	43·6	4·2	5·8	3·7	+11·4	SSE	SW	6·0	0·0	1·0	125	0·22
8	..	29·350	50·0	37·1	43·2	36·4	53·0	30·3	..	42·5	6·8	8·3	5·8	+ 8·3	SW	SW	0·0	0·0	0·0	65	0·00
9	Greatest Dec. S. New	29·608	50·0	36·5	42·7	35·1	53·9	30·5	..	41·7	7·6	..	3·8	+ 7·7	SW	SW; S	2·0	0·0	0·1	115	0·00
10	..	29·390	52·4	40·5	47·0	42·4	52·7	30·8	..	40·7	4·6	5·7	4·4	+11·9	S; SSE	SSE; SW	4·0	0·0	0·6	230	0·11
11	..	29·480	51·0	42·3	45·5	39·6	53·0	37·2	..	42·7	5·9	12·5	4·8	+10·3	SW	SW	7·5	0·5	2·7	180	0·06
12	..	29·407	53·8	43·2	49·7	42·4	54·6	39·8	..	43·5	7·3	8·6	5·7	+14·4	SW	SW	9·6	0·0	2·5	240	0·06
13	..	29·244	52·0	40·8	44·8	36·3	56·0	36·9	..	43·9	8·5	11·0	7·1	+ 9·3	SW	SW	3·5	0·0	0·5	140	0·09
14	..	29·674	46·4	37·7	41·4	33·0	49·0	31·0	..	43·8	8·4	11·0	4·3	+ 5·7	NW; W	W	1·5	0·0	0·0	60	0·00
15	In Equator	29·295	47·8	37·9	43·9	37·0	50·7	32·0	..	43·0	6·9	9·4	5·1	+ 8·1	Calm; S	SW	9·5	0·0	1·5	235	0·13
16	..	29·085	45·5	36·7	40·4	38·0	46·3	31·1	..	42·1	2·4	5·8	0·0	+ 4·4	SW	Calm	0·0	0·0	0·0	45	0·30
17	First Qr.	29·201	42·2	36·3	38·8	31·0	47·0	30·7	..	41·6	7·8	9·0	3·9	+ 2·6	N	NW	5·0	0·0	1·4	185	0·03
18	Apogee	29·770	44·5	32·0	37·5	31·5	48·0	30·0	..	39·5	6·0	9·1	3·0	+ 1·1	NW	N; Calm	4·0	0·0	0·5	30	0·00
19	..	29·844	50·0	30·8	43·7	39·3	52·3	26·7	..	39·3	4·4	6·4	3·0	+ 7·2	S	S	5·0	0·0	0·6	200	0·01
20	..	29·557	55·5	43·1	49·6	40·8	58·5	32·7	..	40·3	8·8	17·8	3·1	+12·9	SW	SW	5·5	0·0	1·8	100	0·08
21	..	29·293	49·2	39·3	44·2	37·5	53·2	36·2	..	41·7	6·7	9·9	3·7	+ 7·4	Calm	SW	4·0	0·0	0·3	130	0·17
22	..	29·526	43·2	34·8	38·9	29·9	45·9	28·0	..	41·7	9·0	10·1	6·5	+ 2·1	W	NW	5·0	0·0	1·3	150	0·00
23	Greatest Declination N.	29·926	43·0	35·2	38·6	30·3	46·0	26·0	43·2	40·3	8·3	10·8	6·2	+ 1·7	N	N	5·0	0·0	1·4	95	0·00
24	..	30·022	41·8	34·2	37·9	33·4	43·7	29·2	42·2	39·8	4·5	10·3	3·8	+ 0·9	NNE	Calm	0·0	0·0	0·0	0	0·00
25	Full	29·626	42·0	34·8	37·4	31·4	47·0	32·8	40·9	39·5	6·0	9·6	2·9	+ 0·3	Calm	Calm	0·0	0·0	0·0	10	0·00
26	..	29·576	41·7	33·3	36·2	30·7	48·3	31·0	40·1	39·1	5·5	9·1	3·6	— 1·0	Calm	NE	0·0	0·0	0·0	15	0·00
27	..	29·676	39·9	30·9	36·0	31·3	42·7	22·0	39·5	39·1	4·7	7·0	3·8	— 1·3	NE	NE	0·0	0·0	0·0	75	0·01
28	..	29·683	42·8	36·5	39·2	33·4	45·0	32·0	39·2	38·9	5·8	7·2	3·9	+ 1·9	NE	NNE	0·0	0·0	0·0	95	0·06
29	..	29·739	41·0	37·1	38·4	32·4	44·6	36·2	39·3	39·3	6·0	6·7	6·0	+ 1·0	NNE	Calm	0·0	0·0	0·0	30	0·00
30	In Equator	29·673	43·7	34·6	39·1	33·8	46·0	35·2	39·7	39·7	5·3	7·2	3·6	+ 1·6	SW	SW	0·0	0·0	0·0	60	0·06
31	..	30·085	47·0	32·7	38·5	32·7	49·0	23·0	40·1	39·9	5·8	8·7	0·0	+ 0·8	Calm	Calm	0·0	0·0	0·0	0	0·07
Feb. 1	Last Qr.	30·090	37·2	26·6	31·6	29·2	42·0	22·5	40·3	40·3	2·4	3·4	0·0	— 6·1	Calm	Calm	0·0	0·0	0·0	5	0·00
2	Perigee	29·978	44·3	28·7	35·8	30·6	47·0	23·5	39·9	39·9	5·2	9·4	2·8	— 2·0	Calm	SE	0·0	0·0	0·0	35	0·01
3	..	29·511	39·0	34·0	36·8	30·0	40·5	30·0	39·8	39·8	6·8	9·0	5·3	— 1·0	SE	ESE	0·0	0·0	0·0	45	0·00
4	..	29·454	42·9	34·8	37·0	32·0	45·0	30·7	39·8	39·8	5·0	8·4	3·1	— 0·9	NE	N by E	0·0	0·0	0·0	85	0·06
5	Greatest Declination S.	29·685	42·1	32·5	36·4	31·9	44·0	33·0	39·8	39·8	4·5	7·5	2·6	— 1·6	N by E; NE	NE	0·0	0·0	0·0	40	0·00
6	..	29·655	40·3	35·7	37·3	31·7	47·0	31·0	39·7	39·7	5·6	8·5	4·4	— 0·8	Calm	Calm	0·0	0·0	0·0	30	0·00
7	..	29·359	42·0	35·3	38·8	30·0	49·0	30·3	39·8	39·8	8·8	11·3	6·8	+ 0·6	S	S	0·0	0·0	0·0	100	0·00
8	New	29·075	40·0	29·2	33·5	27·8	43·5	34·5	39·7	39·7	5·7	8·8	3·5	— 4·8	SE	SE	0·0	0·0	0·0	60	0·00
9	..	28·900	42·5	29·1	36·4	30·2	47·8	22·8	39·7	39·7	6·2	10·8	4·8	— 1·9	E	NE	3·0	0·0	0·2	100	0·00
10	..	29·062	38·0	32·6	34·3	30·9	44·0	32·4	39·3	39·3	3·4	6·4	3·1	— 4·1	NNE	N	1·8	0·0	0·3	145	0·05
11	..	29·234	38·7	30·0	32·4	28·0	43·4	29·5	39·2	38·6	4·4	8·1	3·3	— 6·1	N	N	1·0	0·0	0·1	130	0·01
12	In Equator	29·293	35·0	28·5	30·7	25·5	40·0	29·0	39·1	37·7	5·2	7·1	3·7	— 8·1	NNE	NE	2·4	0·0	0·4	55	0·00
13	..	29·529	36·1	29·2	30·7	26·7	40·0	26·0	38·7	36·8	4·0	5·2	3·4	— 8·0	NE	NE	1·5	0·0	0·0	60	0·20
14	..	29·698	34·0	28·8	30·1	24 6	37·8	22·6	38·2	36·2	5·5	6·9	4·0	— 8·7	NNE	Calm	0·0	0·0	0·0	5	0·05
15	Apogee	29·715	34·3	24·0	28·4	20·3	36·0	17·5	37·7	35·8	8·1	9·4	6·7	—10·4	Calm	Calm	0·0	0·0	0·0	25	0·00
16	First Qr.	29·692	38·8	27·5	31·7	25·0	40·5	22·0	37·3	35·8	6·7	10·8	4·6	— 7·2	Calm; N	N	2·0	0·0	0·2	125	0·05
17	..	29·541	35·0	26·7	30·3	25·3	38·0	20·0	37·2	35·5	5·0	6·4	3·3	— 8·7	N	N	5·0	0·0	1·0	200	0·00
18	..	29·395	34·0	26·1	28·8	22·0	37·8	23·0	36·9	35·2	6·8	9·7	4·7	—10·3	N	N	3·0	0·0	0·5	70	0·03
19	Greatest Declination N.	29·528	36·2	20·5	28·7	16·5	41·0	13·1	36·7	34·7	12·2	13·1	6·8	—10·5	N; NE	NE; N	0·0	0·0	0·0	55	0·00
20	..	29·730	36·2	22·0	30·2	21·0	40·0	12·8	36·2	34·2	9·2	9·9	5·5	— 9·1	NNW	N	0·0	0·0	0·0	50	0·00
21	..	29·974	37·5	27·3	31·9	27·2	39·5	20·0	36·2	34·2	4·7	7·4	3·9	— 7·4	N	N	1·5	0·0	0·0	50	0·00
22	..	29·847	39·2	25·0	32·8	28·2	41·0	17·7	36·2	34·5	4·6	8·0	3·8	— 6·6	WSW	Calm	0·0	0·0	0·0	45	0·10
23	Full	29·367	42·8	29·5	35·5	27·7	45·0	23·2	35·7	34·7	7·8	12·7	5·0	— 4·0	Calm; NW	NW; NNE	10·0	0·0	1·9	190	0·02
24	..	29·604	37·0	28·2	33·3	27·4	39·7	24·0	35·5	34·7	5·9	10·4	4·2	— 6·3	N	NW; WSW	6·5	0·0	1·8	150	0·05
25	..	29·552	42·0	32·7	35·8	28·0	45·0	31·0	36·2	35·5	7·8	12·3	5·0	— 3·9	WSW; NNE	NNE	7·0	0·0	1·4	135	0·10
26	In Equator	28·974	43·8	31·5	37·2	29·7	46·0	31·8	36·7	36·2	7·5	13·9	2·0	— 2·6	SW	NW	15·0	0·0	4·0	275	0·12
27	Perigee	29·473	39·5	30·0	32·7	26·0	42·0	30·3	36·5	36·1	6·7	13·7	5·3	— 7·2	NW	NE	5·0	0·0	0·8	25	0·00
28	..	29·777	45·0	25·5	33·5	24·0	49·0	15·0	36·5	36·5	9·5	14·8	7·4	— 6·4	NE	N; Calm	0·0	0·0	0·0	15	0·00

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1			8, ci.-s, li.-sc	8, ci.-s, li.-sc
2			10, m.-r, h.-r	9, m.-r
3			10, r	5 : o
4			10, h.-sqs, w, r	10, h.-sqs, w, r
5			o, : 10, ci.-s	10, ci.-s, shs.-r : o
6			10, h.-r	10, h.-r : o
7			10, h.-r	10, h.-r : o
8			7, v	7, v
9			o, : 10	10 : o
10			10, fr.-shs	10, fr.-shs
11			o	10, r
12			10, fr.-shs	10, fr.-shs
13			8, ci, li.-cl, : so.-ha	8, so.-ha, ci, li.-cl
14			o	5, v, ci.-s, fl.-cls
15			10, cu.-s, ci.-s, sc, r	8, o
16			10	10, r
17			2	10
18			o	10 : o
19			10, m.-r	10, m.-r
20			o	v, : lu.-ha
21			v. r : h.-r, hl	v, r : lu.-cor
22			7, ci.-s, sc	7, ci.-s, sc : v
23			o	v, cu.-s, ci.-s : lu.-cor
24			10, ci.-s	10, ci.-s
25			10, cu.-s, ci.-s	10, cu.-s, ci.-s
26			8, cu.-s, ci.-s : 10	10, cu, ci.-s, li.-cl
27			10, ci.-s	10, ci.-s : r
28	o	o : o : w	10, ci.-s, r	10, ci.-s
29	w : o	o	10, ci.-s	10, ci.-s
30			10	10 : r
31			o	o : f
Feb. 1	s	o : s	10, th.-f	8 : 10, th.-f
2	s	o	10, th.-f : o	o
3	o	o	10, ci.-s	10, ci.-s
4	o	o	10, ci.-s	10, ci.-s, r
5	o	o	10, sn	10
6	o	o	10, ci.-s	10, ci.-s
7	o	o	10, cu.-s, ci.-s : o	o : 10, cu.-s, ci.-s
8	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s : o
9	o	o	10, cu.-s, ci.-s, li.-sc	10, cu.-s, ci.-s, li.-sc
10	o	o	10, ci.-s, r, sl	10, ci.-s, r, sl
11	o	w : o	10, ci.-s	7, ci.-s : 10, sn
12	m	m : s, sps, g cur	10, sn	8, sn : 10, th.-sn
13	o	o	10, ci.-s	10, ci.-s
14	o	o	9 : 10	10 : sn
15	o	o	10, ci.-s	10, ci.-s
16	o	o	10, ci.-cu, ci.-s, sn	7, ci.-cu, ci.-s : o
17	o	o	10, sn	10, sn : v
18	o	o	7, ci.-cu, ci.-s	7, ci.-cu, ci.-s
19	o	o	o	o
20	o	o	o	8, ci.-cu, ci.-s, li.-sc : o
21	o	o	9, ci.-s	9, ci.-s
22	o	o	10, ci.-s, sc, sn, r	10 ci.-s, sc, sn, r
23	o	o	10, ci.-s, sn, r	10, ci.-s, sn, r : v
24	o	o	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s
25	o	o	7, cu, cu.-s, ci.-s, sn, r	7, cu, cu.-s, ci.-s : 10
26	N, s : o	o	10, ci.-s, sn, r	10, ci.-s : st.-w
27	o	o	10, sn	10 : o
28	o	o	4, ci.-s, li.-cl	4, ci.-s, li.-cl : o, f

MONTH and DAY, 1853.	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. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. 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 38 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.
Mar. 1	..	29·550	36·0	28·9	31·6	29·6	40·2	20·8	36·3	36·3	2·0	4·4	0·0	— 8·4	SW	Calm	0·0	0·0	0·9	65	0·31
2	Last Qr.	29·299	42·2	30·0	35·4	30·2	48·8	24·6	36·5	36·5	5·2	12·5	3·9	— 4·6	W	N	6·0	0·0	0·9	80	0·17
3	..	29·856	42·0	30·5	34·5	26·4	47·0	25·2	37·1	36·9	8·1	16·8	5·7	— 5·5	NE	NE	3·0	0·0	0·3	30	0·00
4	Greatest Declination S.	29·980	44·0	26·6	35·6	27·0	54·0	19·7	37·7	37·0	8·6	16·3	4·0	— 4·3	Calm	W	3·0	0·0	0·2	120	0·00
5	..	29·705	50·8	36·6	43·9	41·4	51·0	29·8	39·2	38·0	2·5	5·9	0·0	+ 4·1	SW	Calm	0·0	0·0	0·0	50	0·20
6	..	29·773	54·8	41·2	47·8	40·3	60·7	37·5	41·7	39·0	7·5	11·8	3·4	+ 8·1	Calm	SW	0·0	0·0	0·0	70	0·00
7	..	29·838	53·5	44·9	46·9	43·6	57·2	41·5	43·2	40·3	3·3	6·3	3·0	+ 7·2	SW	Calm	0·0	0·0	0·0	20	0·11
8	..	29·858	50·7	37·0	44·0	37·3	54·0	29·8	43·9	41·8	6·7	13·4	3·8	+ 4·1	Calm	Calm	0·0	0·0	0·0	50	0·02
9	New	30·044	52·2	31·3	42·0	36·5	58·5	25·0	44·3	43·0	5·5	12·0	1·3	+ 1·8	Calm	SW	0·0	0·0	0·0	55	0·04
10	..	30·071	56·8	37·4	45·5	37·7	64·0	34·8	45·2	43·8	7·8	14·6	2·6	+ 5·1	S	SSW	0·0	0·0	0·0	60	0·00
11	In Equator.	30·017	52·8	33·3	42·2	37·4	62·5	25·0	45·3	44·2	4·8	9·9	2·8	+ 1·5	Calm; E	ESE	0·0	0·0	0·0	55	0·00
12	..	29·880	55·8	34·9	44·1	38·3	65·0	30·7	45·3	44·6	5·8	11·0	2·5	+ 3·2	Calm; E	E	0·0	0·0	0·0	35	0·00
13	..	29·651	60·5	34·8	48·8	39·3	70·3	26·2	45·7	44·6	9·5	13·9	4·1	+ 7·6	Calm	SE	0·0	0·0	0·0	25	0·00
14	..	29·463	48·8	37·7	40·4	37·5	53·0	32·2	45·7	44·6	2·9	7·2	4·1	— 1·0	S	WSW	4·0	0·0	0·8	120	0·50
15	Apogee	29·484	49·7	32·7	41·1	33·4	58·2	27·8	45·7	44·6	7·7	13·2	4·9	— 0·4	Calm	Calm; SE	0·0	0·0	0·0	45	0·00
16	..	29·531	43·8	33·2	36·6	32·3	48·7	32·0	45·7	43·8	4·3	8·9	3·0	— 5·1	Calm; NE	NE	0·0	0·0	0·0	55	0·00
17	First Qr.	29·736	34·8	28·8	29·2	22·3	35·0	30·3	44·7	42·2	6·9	9·4	4·9	—12·6	NE	NE	0·0	0·0	0·0	55	0·01
18	..	29·895	35·0	25·8	28·5	21·1	38·0	20·3	44·3	40·2	7·4	9·8	5·5	—13·3	NE	E	3·0	0·0	0·5	95	0·00
19	Greatest Declination N.	30·034	40·5	24·2	31·7	25·2	43·0	15·0	44·5	38·2	6·5	11·2	5·0	—10·2	NE	NNE	2·5	0·0	0·2	55	0·00
20	..	29·920	42·0	26·3	34·3	27·3	47·0	20·0	44·2	39·1	7·0	13·4	3·0	— 7·7	NW	NW	0·0	0·0	0·0	55	0·00
21	..	29·691	38·5	29·3	34·8	31·9	40·0	21·0	43·2	39·1	2·9	7·8	..	— 7·3	Calm	Calm	0·0	0·0	0·0	20	0·02
22	..	29·761	44·5	27·9	34·3	28·6	49·5	20·0	42·9	39·1	5·7	12·2	3·6	— 7·9	NE	NNE	4·0	0·0	0·5	110	0·00
23	..	29·738	40·5	28·5	31·9	26·8	44·0	23·0	42·2	38·8	5·1	13·0	4·2	—10·4	NE	NE	3·0	0·0	0·4	90	0·01
24	..	29·687	42·0	26·3	31·7	25·4	49·5	19·5	41·5	38·4	6·3	14·8	3·1	—10·7	NE	NE; Calm	0·0	0·0	0·0	15	0·04
25	Full. In Equator.	29·756	40·2	20·8	32·2	22·9	53·0	16·7	40·7	38·2	9·3	15·5	8·0	—10·3	Calm; NE	NE	0·0	0·0	0·0	15	0·03
26	..	29·779	44·0	22·7	33·9	23·5	58·0	12·2	40·2	38·0	10·4	17·0	7·6	— 8·8	Calm; NE	NE; Calm	0·0	0·0	0·0	10	0·00
27	Perigee.	29·935	50·0	26·1	39·4	29·4	60·0	15·0	39·7	38·2	10·0	15·4	6·0	— 3·4	Calm	NW; Calm	0·0	0·0	0·0	25	0·02
28	..	30·038	50·5	30·9	39·9	31·5	60·0	21·0	40·2	38·4	8·4	14·3	6·2	— 3·1	NE	Calm	0·0	0·0	0·0	10	0·00
29	..	29·973	48·8	27·0	38·5	28·7	63·0	15·0	40·7	39·7	9·8	16·9	6·4	— 4·7	E	ESE	1·8	0·0	0·2	60	0·01
30	..	29·685	54·5	36·4	44·0	32·3	69·8	19·5	41·9	40·6	11·7	17·0	5·8	+ 0·7	SE	SW	0·0	0·0	0·0	60	0·00
31	Last Quarter. Greatest Dec. S.	29·539	57·0	36·4	47·6	34·4	69·5	27·7	43·9	41·7	13·2	18·4	9·0	+ 4·2	SW	SW	6·0	0·0	0·8	200	0·00
April 1	..	29·295	57·2	42·4	47·6	37·3	60·0	38·8	45·7	43·2	10·3	15·4	6·9	+ 4·0	SW	SSW	8·0	0·0	1·0	235	0·41
2	..	29·663	56·5	40·6	46·6	35·8	63·6	35·6	47·7	44·4	10·8	16·6	5·8	+ 2·9	SSW	W	5·0	0·0	0·8	190	0·00
3	..	29·494	51·7	43·4	46·0	39·8	54·0	34·0	48·1	45·5	6·2	9·7	3·3	+ 2·1	SW	SW	6·0	0·0	1·1	160	0·10
4	..	29·635	62·0	46·2	51·6	43·2	73·7	42·0	49·1	47·1	8·4	15·3	4·2	+ 7·6	WSW	W	5·0	0·0	0·3	..	0·04
5	..	29·748	60·0	48·8	51·0	47·4	61·5	48·2	50·3	49·1	3·6	6·5	3·2	+ 6·8	WSW	W	2·0	0·0	0·1	..	0·15
6	..	29·764	60·5	47·1	52·0	46·0	67·0	41·8	51·3	49·7	6·0	8·5	4·8	+ 7·6	SW	SW	4·5	0·0	0·7	..	0·00
7	In Equator.	29·629	58·0	45·8	48·9	39·0	68·0	41·5	51·7	49·7	9·9	14·6	6·9	+ 4·4	W	W	8·0	0·0	1·6	..	0·01
8	New.	29·773	50·6	38·5	41·6	36·1	62·2	30·0	51·2	48·7	5·5	11·2	4·5	— 3·1	W	N	5·0	0·0	0·2	..	0·14
9	..	30·149	48·2	33·6	39·9	29·4	59·8	24·0	50·2	48·8	10·5	16·3	7·0	— 4·9	N	N; Calm	0·0	0·0	0·0	..	0·00
10	..	29·979	56·2	39·5	46·6	38·9	59·0	..	50·1	48·8	7·7	12·0	5·8	+ 1·6	W	N	6·0	0·0	0·7	..	0·00
11	Apogee.	30·013	57·0	37·9	47·6	37·9	62·0	..	49·7	48·4	9·7	13·5	7·5	+ 2·5	Calm; N	NW: N	2·5	0·0	0·2	..	0·00
12	..	29·837	53·8	41·8	45·8	34·3	57·8	36·0	49·7	48·3	11·5	15·8	8·4	+ 0·5	N	N; NE	4·0	0·0	0·1	110	0·00
13	..	29·854	48·0	35·5	39·1	31·8	53·0	27·0	49·2	47·8	7·3	13·0	6·0	— 6·4	NE	NE	6·0	0·0	0·8	115	0·02
14	..	29·921	52·0	32·5	42·3	32·0	57·8	23·0	48·9	47·8	10·3	16·3	7·0	— 3·4	Calm; NE	NE	4·0	0·0	0·2	110	0·00
15	Greatest Declination N.	30·010	49·7	36·0	42·5	36·3	53·0	27·0	48·3	47·5	6·2	9·9	5·5	— 3·6	NE; NW	Calm; NW	0·0	0·0	0·0	90	0·00
16	First Qr.	29·985	53·7	42·6	47·0	38·0	56·0	32·0	48·2	47·7	9·0	13·0	5·0	+ 1·0	NW	Calm	0·0	0·0	0·0	120	0·00
17	..	29·951	58·0	42·4	49·6	41·5	67·5	37·0	48·7	47·9	8·1	11·0	6·8	+ 3·3	W	W	2·0	0·0	0·3	130	0·00
18	..	29·946	60·5	46·5	51·8	43·6	65·0	42·7	50·1	48·5	8·2	13·1	4·4	+ 5·3	W	NW	0·0	0·0	0·0	50	0·00
19	..	29·759	57·8	40·5	48·3	41·3	63·0	35·0	50·9	48·7	7·0	11·8	5·1	+ 1·5	SW	SW	0·0	0·0	0·0	100	0·00
20	..	29·658	53·5	40·5	44·0	33·2	63·4	32·0	50·9	49·2	10·8	14·8	4·1	— 3·0	NW	NW	4·8	0·0	0·3	115	0·10
21	..	29·372	48·5	40·2	41·8	39·4	50·0	36·0	51·3	49·6	2·4	5·5	1·0	— 5·5	SW	SE	0·0	0·0	0·0	80	0·25
22	In Equator.	29·483	52·0	41·7	44·1	41·9	57·0	43·0	50·3	49·1	2·2	4·6	1·0	— 3·4	SE	S	4·0	0·0	0·6	150	0·45
23	Full.	29·692	51·5	37·3	41·8	35·3	55·5	34·0	49·7	48·8	6·5	11·7	3·8	— 6·0	NE	NW; W	3·8	0·0	0·2	140	0·10
24	Perigee.	29·631	47·5	36·0	39·6	37·0	55·5	29·8	49·2	46·9	2·6	9·9	1·0	— 8·6	W	W; Calm	2·5	0·0	0·2	110	0·11
25	..	29·229	42·2	32·3	35·1	34·3	47·0	32·0	49·2	45·7	0·8	7·5	0·0	—13·4	Calm; NW	NW; W	4·0	0·0	1·0	225	0·80
26	..	29·604	51·8	35·3	41·6	34·2	62·0	29·0	47·3	45·0	7·4	12·1	4·8	— 7·2	NW	NE	3·0	0·0	0·2	80	0·02
27	..	29·739	56·8	32·7	43·4	34·5	70·8	26·5	47·5	46·0	8·9	15·2	6·0	— 5·8	Calm	Calm	0·0	0·0	0·0	50	0·01
28	Greatest Declination S.	29·669	57·0	33·8	45·8	38·4	69·5	24·2	47·2	45·5	7·4	12·8	5·3	— 3·7	Calm	ESE	3·5	0·0	0·4	115	0·00
29	..	29·501	45·8	41·9	41·5	40·8	47·0	40·2	48·2	..	0·7	3·5	0·0	— 8·4	E	E	2·0	0·0	0·1	90	0·38

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1	o	o	10, sn	10, sn
2	o	o	10, ci.-cu, ci.-s, sn, r	10 : sn, r
3	o	o	5, cu, cu.-s, ci.-s, sn	5, cu, cu.-s, ci.-s
4	o	m : o	5, ci.-s	5, ci.-s : 10, r
5	o	o	10, ci.-s, h.-r	10, ci.-s : m.-r
6			10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : r
7			10, ci.-s, r	10, ci.-s, r
8			10, n, ci.-s, r	10, n, ci.-s : 9, r
9			10, ci.-cu, ci.-s, f	10, ci.-cu, ci.-s, f
10			10, cu, ci.-cu, ci.-s	10, cu, ci.-cu : o
11			3, cu, ci.-cu, ci.-s	3 cu, ci.-cu, ci.-s : v
12			f : o	o
13			10, ci.-s	v, ci.-s : r
14			10, ci -s, h.-r	10, ci.-s : o
15			5, cu, cu.-s, ci.-s	5, cu, cu.-s, ci.-s : 10
16			10, cu, cu.-s, ci.-s, r	10, cu, cu.-s, ci.-s
17			10, sl	10, sl
18			7, ci.-cu, ci.-s, sc, sl	7, ci.-cu, ci.-s, sc, sl : o
19			7, ci.-cu, ci.-s, sn	7, ci.-cu, ci.-s
20			10, ci.-cu, ci.s, sc	10, ci.-cu, ci.-s, sl : o
21			10, sn, sl	10, sn, sl
22			10, cu, cu.-s, ci.-s : 8	10, sn, sl
23			10, cu, cu.-s, ci.-s, sc, sn, sl, hl	10, cu, cu.-s, ci.-s, sc : 7
24			v, ci.-cu, ci.-s, sc, hl	v, ci.-cu, ci.-s, sc, hl, sn : f
25			5, cu, cu.-s, ci.-s, sc, sn	5, cu, cu.-s, ci.-s, sc, sn
26			v, cu.-s, ci.-s, sc	v, cu.-s, ci.-s, sc : o
27			10	10, r : r
28			10, ci.-cu, ci.-s, sc	10, ci.-cu, ci.-s, sc : o
29			o	o
30			o	o
31			o	10 : h.-r
April 1			v, cu, cu.-s, ci.-s, r	v, cu, cu.-s, ci.-s, r, hl : o
2			7, cu, ci.-cu, ci.-s	v, cu, ci.-cu, ci.-s
3			10, r	10, r
4			10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s : r
5			10	10, r : o, a
6			10, ci.-s	10, ci.-s
7			10, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
8			7, cu, ci.-cu, ci.-s, sc, r	10, l, t
9			5, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
10			9, ci.-cu, ci.-s	10, ci. cu, ci.-s
11			10, cu, cu.-s, ci.-s, r	5, cu, cu.-s, ci.-s : 10
12			7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : 10
13			10, shs, hl, r	10, shs, hl, r : o
14			10, ci.-cu, ci.-	10, ci.-cu, ci.-s
15			10, ci.-s	10, ci.-s
16			10, ci.-s	10, ci.-s
17			5, ci.-cu, ci.-s	10, ci.-cu, ci.-s
18			10, ci.-s	10, ci.-s
19			10, ci.-s	10, ci.-s : r
20			7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
21			10, ci.-s, r	10, ci.-s, r
22			10, h.-r	10, h.-r
23	o	o : sN, sP, sps, g cur	10, cu.-s, ci.-s	7, cu.-s, ci.-s : v, shs, hl, r
24	s N, sps, g cur	s N, sps, g cur	10, r	10, r
25	o	o	10, sn : r	10, r : 8
26	o	o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
27	o	s P : o	10, cu, cu.-s, ci.-s, h	7, cu, cu.-s, ci.-s : o
28	o	s P : o	7, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
29	o	o	10, r	10 : o

MONTH and DAY, 1853.	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., next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. 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 33 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.
Apr. 30	Last Qr.	29·623	60·8	40·3	50·6	42·6	75·5	31·0	49·2	..	8·0	13·3	5·9	+ 0·3	Calm	Calm	0·0	0·0	0·0	10	0·00
May 1	..	29·797	65·5	38·4	52·6	41·6	85·0	28·0	50·7	..	11·0	18·7	1·0	+ 1·8	Calm	Calm	0·0	0·0	0·0	90	0·00
2	..	29·711	63·0	42·7	51·5	46·2	76·0	37·0	52·7	..	5·3	9·9	1·7	+ 0·4	ESE	ESE	3·0	0·0	0·2	90	0·00
3	..	29·678	57·0	47·3	50·2	49·8	57·5	44·2	53·2	..	0·4	3·6	0·0	— 1·3	ESE	E; Calm	0·0	0·0	0·0	30	0·50
4	..	29·971	55·8	47·8	49·1	47·3	57·0	50·0	53·7	51·6	1·8	5·7	1·0	— 2·7	Calm	ENE	3·0	0·0	0·2	105	0·04
5	In Equator.	29·966	61·0	40·5	50·2	42·6	74·0	32·0	53·9	51·7	7·6	12·5	1·9	— 1·8	NE	ENE	4·0	0·0	0·8	115	0·00
6	..	29·803	51·0	36·9	43·4	39·6	53·0	26·5	54·1	52·2	3·8	6·9	1·8	— 8·8	NE	NE	2·8	0·0	0·3	115	0·00
7	..	29·483	47·0	36·3	38·0	36·5	49·4	37·0	53·2	50·0	1·5	11·0	0·7	—14·2	NE	NE	1·3	0·0	0·1	130	0·30
8	New	29·537	53·5	34·2	40·1	35·3	55·0	28·0	52·2	49·6	4·8	10·6	2·9	—12·0	N	NW	5·0	0·0	0·6	155	0·02
9	Apogee	29·371	53·0	35·9	41·9	36·6	59·5	29·0	51·2	48·7	5·3	12·6	4·1	—10·1	SW	SW; W	6·0	0·0	1·0	185	0·20
10	..	29·811	54·5	36·9	43·0	35·3	66·0	35·2	50·3	48·2	7·7	15·4	3·8	— 8·9	NW; N	NW; Calm	5·0	0·0	0·3	55	0·03
11	..	29·942	56·7	32·6	45·5	35·8	68·5	25·0	50·2	48·2	9·7	16·2	5·5	— 6·3	Calm	NE	0·0	0·0	0·0	40	0·00
12	Greatest Declination N.	29·862	58·5	34·8	47·1	36·1	66·5	25·0	50·2	48·7	11·0	17·4	2·1	— 4·6	Calm	E	3·0	0·0	1·0	155	0·02
13	..	29·921	54·5	43·8	48·5	40·6	57·8	43·6	50·3	49·2	7·9	12·8	5·3	— 3·2	SE	Calm	4·0	0·0	0·3	75	0·10
14	..	29·873	61·0	41·3	51·0	41·8	75·0	33·8	51·5	49·6	9·2	14·3	3·1	— 0·9	E	SE; Calm	5·3	0·0	0·4	130	0·00
15	..	29·690	60·3	41·4	50·4	42·4	73·8	32·8	53·1	50·4	8·0	11·6	3·4	— 1·9	E	ESE	3·0	0·0	0·3	110	0·00
16	First Qr.	29·565	68·0	47·8	57·3	49·5	82·5	41·8	55·1	51·7	7·8	10·9	1·8	+ 4·8	E	ENE; Calm	2·5	0·0	0·2	100	0·00
17	..	29·598	65·5	47·7	55·8	46·5	81·0	42·0	57·2	53·2	9·3	11·9	5·3	+ 3·0	NE	NE; N	1·5	0·0	0·2	95	0·00
18	..	29·798	71·5	46·3	58·1	46·7	90·0	40·5	58·1	54·7	11·4	15·3	5·3	+ 4·9	N	NE; Calm	0·0	0·0	0·0	60	0·00
19	In Equator.	29·831	72·2	43·3	59·5	48·2	87·3	34·8	58·7	55·7	11·3	15·3	5·0	+ 6·1	Calm; SW	NW	0·0	0·0	0·0	90	0·00
20	..	29·936	66·0	41·3	52·5	43·3	86·0	37·0	59·1	55·9	9·2	14·6	2·4	— 1·3	N	NE	0·0	0·0	0·0	40	0·00
21	..	29·900	66·2	38·5	52·8	42·2	80·0	30·3	59·7	56·5	10·6	17·3	3·8	— 1·2	Calm; NE	NE	0·0	0·0	0·0	110	0·00
22	Perigee Full.	29·963	68·2	41·6	55·9	40·9	83·2	32·3	59·7	56·7	15·0	17·6	6·7	+ 1·6	NE	NE	5·0	0·0	0·8	130	0·00
23	..	29·944	71·0	42·7	59·2	46·1	86·0	32·2	59·7	57·1	13·1	16·7	4·8	+ 4·7	NNE	NE	4·5	0·0	0·6	105	0·00
24	..	29·804	72·5	45·3	59·8	48·1	87·0	36·5	60·3	57·9	11·7	14·9	3·0	+ 5·0	NE	NE	4·0	0·0	0·4	90	0·00
25	Greatest Declination S.	29·553	73·5	49·7	60·4	50·3	89·2	42·6	61·3	58·7	10·1	15·0	3·6	+ 5·4	NE	NE	0·0	0·0	0·0	80	0·00
26	..	29·464	78·5	45·9	63·2	51·6	98·0	36·2	62·5	59·7	11·6	17·6	2·5	+ 7·9	Calm	Calm	0·0	0·0	0·0	20	0·00
27	..	29·545	78·8	50·5	64·7	56·4	94·7	43·5	63·7	60·7	8·3	13·8	1·1	+ 9·2	Calm	Calm	0·0	0·0	0·0	55	0·03
28	..	29·598	66·0	49·2	54·6	48·0	81·0	41·2	63·7	60·7	6·6	11·2	3·1	— 1·2	SW	SW	2·0	0·0	0·1	95	0·10
29	Last Qr.	29·753	63·0	45·5	51·3	46·9	72·8	42·8	63·2	60·3	4·4	9·7	2·5	— 4·6	W	NW	4·0	0·0	0·2	95	0·25
30	..	29·866	67·0	44·2	54·4	47·4	80·0	35·8	62·7	60·2	7·0	12·2	5·3	— 1·8	Calm	NE	0·0	0·0	0·0	100	0·02
31	..	29·844	56·0	49·1	50·8	47·0	58·5	42·2	61·7	59·5	3·8	6·8	2·9	— 5·6	NNE	N	5·0	0·0	0·8	150	0·00
June 1	In Equator	29·850	57·0	49·1	50·0	47·3	62·0	49·5	60·7	57·9	2·7	6·7	2·4	— 6·5	N	N	3·0	0·0	0·4	105	0·00
2	..	29·966	60·2	47·7	50·7	48·8	65·5	48·0	60·2	57·3	1·9	5·7	1·0	— 6·1	N	N	2·0	0·0	0·2	105	0.15
3	..	30·009	67·0	47·1	54·2	41·8	83·5	45·7	59·7	56·7	12·4	17·3	6·8	— 2·8	NNE	NE	0·0	0·0	0·0	35	0·00
4	..	29·875	64·5	39·9	51·0	39·2	80·0	31·0	59·5	56·9	11·8	17·5	6·2	— 6·1	N	N	0·0	0·0	0·0	30	0·00
5	Apogee	29·783	67·7	44·7	56·3	41·5	85·0	36·0	59·3	56·7	14·8	18·7	2·8	— 1·0	Calm	S	0·0	0·0	0·0	30	0·00
6	New	29·767	69·6	44·2	57·1	46·1	71·5	37·0	59·3	57·2	11·0	17·1	3·7	— 0·4	S; Calm	Calm	0·0	0·0	0·0	5	0·03
7	..	29·884	72·5	42·3	58·4	47·4	97·0	37·8	59·5	57·2	11·0	15·9	3·1	+ 0·6	Calm; N	N	0·0	0·0	0·0	15	0·00
8	Greatest Declination N.	29·936	77·5	49·1	65·0	48·6	105·5	40·6	62·1	59·5	16·4	23·0	2·9	+ 7·1	Calm; SW	SW	0·0	0·0	0·0	55	0·00
9	..	29·889	68·2	54·6	59·8	51·6	87·0	49·7	63·3	60·3	8·2	12·6	3·0	+ 1·7	SW	SW	0·0	0·0	0·0	5	0·16
10	..	29·776	76·5	53·2	61·2	52·4	94·7	46·4	63·7	60·9	8·8	17·7	2·8	+ 2·9	Calm	SE	4·0	0·0	0·3	75	0·01
11	..	29·610	81·0	56·5	68·0	55·7	104·3	53·0	65·2	62·2	12·3	19·5	4·0	+ 9·5	SE	SE; N	2·0	0·0	0·1	135	0·04
12	..	29·605	67·2	52·5	58·3	50·5	70·0	45·5	64·7	61·7	7·8	10·9	3·0	— 0·5	N	N	0·0	0·0	0·0	70	0·00
13	..	29·616	59·0	51·1	52·5	48·7	60·0	52·2	65·1	61·9	3·8	5·9	0·0	— 6·4	N; NW	NW; N	0·0	0·0	0·0	75	1·15
14	First Qr.	29·792	71·0	51·1	58·8	52·3	85·0	51·5	64·7	61·7	6·5	14·0	2·3	— 0·2	Calm; NE	Calm	0·0	0·0	0·0	60	0·09
15	In Equator	29·879	72·5	50·4	60·7	52·6	85·2	45·0	63·7	61·2	8·1	12·2	2·9	+ 1·5	SW	SW	0·0	0·0	0·0	90	0·06
16	..	29·921	74·0	53·5	61·1	50·8	97·0	49·8	64·2	62·3	10·3	19·5	3·4	+ 1·7	SW	S	0·0	0·0	0·0	90	0·00
17	..	29·925	73·8	49·7	62·3	52·1	90·3	44·8	64·7	62·7	10·2	16·3	1·9	+ 2·8	S; SW	SW	0·0	0·0	0·0	120	0·00
18	..	29·848	67·7	49·9	56·7	50·8	77·0	47·6	65·2	62·9	5·9	11·2	2·1	— 3·0	SW	SW	2·0	0·0	0·2	150	0·00
19	..	29·570	62·6	50·4	55·8	50·8	65·2	46·2	64·7	62·7	5·0	7·3	2·9	— 4·1	SSW	SW	2·8	0·0	0·2	105	0·25
20	Perigee	29·468	63·7	44·7	52·9	42·7	78·0	52·5	63·7	61·5	10·2	14·3	2·1	— 7·2	WSW; N	S; Calm	0·0	0·0	0·0	40	0·00
21	Full	29·547	64·7	44·1	52·7	46·9	77·2	38·8	63·2	60·7	5·8	12·4	2·1	— 7·6	Calm; NE	NE	0·0	0·0	0·0	40	0·10
22	Greatest Declination S.	29·650	65·0	44·7	55·0	47·8	76·0	37·0	62·9	60·5	7·2	11·5	1·6	— 5·4	NNE; N	NNW	0·0	0·0	0·0	135	0·05
23	..	29·675	70·5	51·8	59·3	51·4	83·5	49·8	63·2	60·5	7·9	13·6	3·6	— 1·3	N	N; Calm	4·0	0·0	0·6	60	0·00
24	..	29·684	78·7	50·5	64·8	53·6	92·5	43·2	64·2	62·2	11·2	20·1	1·5	+ 4·1	SW	WSW	5·0	0·0	0·4	170	0·02
25	..	29·585	69·0	56·3	61·0	54·5	74·5	51·5	64·3	62·2	6·5	10·4	3·6	+ 0·1	SW	SW; NE; Calm	2·0	0·0	0·2	140	0·13
26	..	29·536	65·2	53·7	58·0	50·6	69·0	53·0	64·3	63·2	7·4	10·2	1·4	— 3·0	NW; W	SW	3·5	0·0	0·6	205	0·43
27	..	29·509	69·8	55·4	61·2	55·8	75·2	54·3	64·7	62·7	5·4	9·4	2·2	0·0	SW	SW	12·0	1·0	5·6	260	0·01

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Apr. 30	o	s	10 cu, cu.-s, ci.-s	3, cu, cu.-s, ci.-s
May 1	o	o : s	o	o
2	m	m	o	10. s, li.-ci
3	s P, s N, sps, g cur	s P, s N, sps, g cur	10, r	10, r
4	m	m	10	10 : 5
5	m	m	o	o
6	o	o	10 ci.-s / : r	10, ci.-s
7	s P, s N, sps. g cur	s P, s N, sps, g cur	10, r	10, r : 8
8	o	s N	10	10, shs, sn, hl, r
9	s N, sps, g cur	m	10, cu, cu.-s, ci.-s, r	8, shs, hl, r : 10
10	o	N m	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
11	m	m	o	10, cu, ci.-cu : o
12	m	m : s N, sps, g cur	10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : r
13	s	s	10, s, ci.-s	10, s, ci.-s : o
14	s	o	o	o
15	m	m	7, ci.-cu, s, ci	7, ci.-cu, s, ci
16	m	m	5, ci.-cu, ci.-s	o : 10, l
17	m	m : o	3, ci.-cu, ci, li.-cl	3, ci.-cu, ci, li.-cl
18	o	m	o	o
19	m	m	5, cu, ci.-cu, s : o	o : 5, cu, ci.-cu, s
20	s	s	3	3 : o
21	v	v	5, cu, cu.-s	o
22	m	m	o	o
23	v	v	o	o : 10, ci.-cu, ci.-s
24	s	s	o	o : 10
25	m	m	7, s, ci, so.-ha	o
26	m	m	3, s, ci, h	3, s, ci, h : o
27	w	w	9, cu, cu.-s, ci.-s	9, cu.-cu.-s, ci.-s : l, t, r
28	s	s	10, cu.-s, ci.-s, r	10, cu.-s, ci.-s, r
29	s N, s P, sps, g cur	o	10, cu, cu.-s, ci.-s : l, t, hl, h.-r	v, cu, cu.-s, ci.-s
30	o	s	10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s, r
31	s	o	10, ci.-s, sn, th.-r	10, ci.-s
June 1	o	o	10, ci.-s	10, ci.-s
2	o	s, sps, g cur : o	10	10, r : r
3	o	m : o	5, cu, ci.-cu, ci	5, cu, ci.-cu, ci : o
4	o	o	7, cu.-s, ci.-s, sc	5, cu.-s, ci.-s, sc : o
5			3, s, ci	7, s, ci : o
6			10, cu, ci.-cu, ci.-s, r	10, cu, ci.-cu, ci.-s, r
7			7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
8			o	o : 7, ci, ci.-s
9			9, ci.-cu, ci.-s, r	9, ci.-cu, ci.-s
10			v, s, ci.-s, r	v, s, ci.-s
11			3, cu, ci.-cu, ci.-s	v : l, t, r
12			10, cu.-s, ci.-s	10, cu.-s, ci.-s
13			10, ci.-s, r	10, ci.-s, r
14			10, cu, cu.-s, ci.-s	10, t, h.-r, : 7
15			9, cu.-s, ci.-s, h.-shs.-r	9, cu.-s, ci.-s, h.-shs.-r
16			9, ci.-cu, s, ci	4, ci.-cu, s, ci
17			5, cu.-s, ci.-s, li.-cl	5, cu.-s, ci.-s, li.-cl : o
19			10, ci.-s, sc	10, ci.-s, sc
18			10, ci.-s, r	10, ci.-s, r : 9
20			10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc
21			10, cu, cu.-s, sc. shs.-r	10, cu, cu.-s, sc, shs.-r
22			10, s, ci.-s, sc, so.-ha	10, s. ci.-s, sc, shs.-r : a
23			7. cu, ci.-cu, ci	10. cu, ci.-cu, ci : o
24		s P, s N, sps, g cur	o	10, cu, cu.-s, ci.s- sc, t.-s : v
25			10, r	9, r
26	s P, s N	s P, s N	10, r	10, r
27	o	o : s P, s N	10, ci.-s, sc	10, ci.-s, sc, r

MONTH and DAY, 1853.	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. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. 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 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Wind as deduced from Anemometers. Osler's. Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. Least.	Pressure in lbs. 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.
June 28	Last Quarter. In Equator.	29·538	68·8	59·2	63·7	57·3	75·8	58·0	64·3	62·5	6·4	8·5	2·2	+ 2·4	SW	SW	5·0	0·5	3·0	215	0·02
29	..	29·594	70·7	55·5	60·6	49·6	82·2	50·0	64·3	62·9	11·0	15·0	6·0	— 0·9	WSW	WSW	8·5	0·0	1·1	175	0·00
30	..	29·581	70·5	51·8	59·2	48·9	76·3	46·0	64·7	64·7	10·3	16·1	2·8	— 2·5	WSW	SW	3·5	0·0	1·0	235	0·11
July 1	..	29·612	66·5	48·3	55·1	48·3	76·2	42·0	64·2	64·2	6·8	12·4	3·8	— 6·7	SW	SW	2·5	0·0	0·2	125	0·30
2	Apogee	29·675	66·6	48·7	56·0	45·8	70·0	43·8	63·7	63·7	10·2	15·2	3·3	— 6·0	SW; NNW	NNW; W	2·4	0·0	0·3	95	0·02
3	..	30·092	70·0	50·1	59·4	47·7	85·2	43·5	63·3	..	11·7	17·8	2·7	— 2·7	SW	WSW	0·0	0·0	0·0	125	0·00
4	..	30·004	71·8	51·5	61·3	50·7	87·0	45·5	63·7	..	10·6	14·9	3·0	— 0·9	SW	S	1·5	0·0	0·2	145	0·00
5	..	29·872	72·8	54·7	61·8	54·7	85·0	49·6	64·3	..	7·1	12·8	3·4	— 0·5	SSW	SW	4·8	0·0	0·8	190	0·00
6	Greatest Dec. N. New.	29·817	77·3	55·5	65·5	58·4	99·8	48·0	65·7	..	7·1	12·9	2·6	+ 3·3	SW	SSW	3·5	0·0	0·5	120	0·00
7	..	29·763	81·7	58·4	69·3	60·7	97·2	53·0	66·7	..	8·6	15·8	2·7	+ 7·2	S	SE; Calm	0·0	0·0	0·0	45	0·00
8	..	29·832	78·5	61·5	68·4	62·5	82·2	60·2	67·7	..	5·9	11·4	0·5	+ 6·4	E; NE	ENE	0·0	0·0	0·0	70	0·63
9	..	29·797	74·0	57·4	62·7	57·9	86·0	57·0	67·9	..	4·8	10·2	3·6	+ 0·8	NE; S	S	1·0	0·0	0·0	115	0·25
10	..	29·841	68·2	54·1	58·4	48·1	77·0	52·2	67·7	..	10·3	8·3	3·2	— 3·4	W	W; SW	2·5	0·0	0·3	145	0·00
11	..	29·876	71·5	50·4	62·7	54·7	81·8	53·3	67·3	64·9	8·0	9·8	2·9	+ 0·9	SW	SW	1·5	0·0	0·0	105	0·00
12	..	29·881	75·3	51·7	61·9	45·4	101·0	43·8	66·7	65·1	16·5	16·7	3·6	0·0	SW	SW	0·0	0·0	0·0	10	0·00
13	In Equator. First Quarter.	29·602	73·6	50·9	61·3	50·5	87·5	44·2	66·7	63·7	10·8	14·4	2·3	— 0·7	SSW.; SE	ENE	1·4	0·0	0·0	85	0·10
14	..	29·169	60·9	54·1	55·9	51·9	61·0	54·2	66·7	62·7	4·0	5·3	2·6	— 6·2	SW	SW	3·6	0·0	1·0	170	2·63
15	..	29·338	65·2	52·3	55·4	50·8	71·0	47·7	65·2	60·7	4·6	7·9	3·8	— 6·7	SW	SW	3·8	0·0	0·6	200	0·28
16	..	29·478	63·0	51·6	55·2	49·2	65·2	52·3	62·9	59·7	6·0	10·6	3·0	— 6·9	SSW	SSW	6·0	0·0	1·1	175	0·13
17	..	29·762	70·2	51·7	59·3	49·8	73·5	46·0	62·1	59·7	9·5	14·1	4·4	— 2·8	SW	SW	3·0	0·0	0·9	150	0·00
18	Perigee	29·729	65·2	50·7	56·0	51·2	72·0	44·0	62·2	60·1	4·8	11·0	3·6	— 6·0	SW	SW	3·5	0·0	0·5	175	0·24
19	Greatest Declination S.	29·800	71·5	54·1	60·9	52·3	82·7	53·0	62·2	60·2	8·6	13·3	3·8	— 1·0	W	WNW	1·0	0·0	0·0	70	0·01
20	Full	29·811	70·0	50·9	59·1	50·1	90·0	43·8	63·2	61·1	9·0	13·4	1·9	— 2·8	WSW	SW	0·0	0·0	0·0	100	0·00
21	..	29·677	70·8	55·9	60·6	52·9	84·2	45·0	63·3	61·7	7·7	12·8	6·1	— 1·2	SW	SW	0·0	0·0	0·0	100	0·01
22	..	29·608	66·5	57·9	60·2	56·2	71·4	57·2	63·5	62·1	4·0	7·8	3·0	— 1·6	SSW	SW	0·0	0·0	0·0	50	0·03
23	..	29·829	73·0	51·4	61·5	50·2	94·0	43·8	64·1	62·3	11·3	15·4	2·8	— 0·3	SW	SW	0·0	0·0	0·0	65	0·00
24	..	29·638	70·7	54·0	60·5	54·0	79·5	51·3	64·5	62·3	6·5	11·8	4·8	— 1·4	SW	S; SSW	4·0	0·0	0·7	110	0·15
25	In Equator	29·671	72·8	51·7	60·5	50·2	93·5	44·2	64·7	62·7	10·3	15·5	3·4	— 1·4	SW	SW	3·0	0·0	0·8	150	0·00
26	..	29·700	67·5	53·5	58·8	53·6	77·5	46·0	64·2	63·1	5·2	8·5	3·0	— 3·2	SW	SW	5·0	0·0	1·3	160	0·01
27	Last Qr.	29·783	71·7	57·7	62·1	53·2	80·2	52·0	64·2	63·7	8·9	11·6	5·2	0·0	SSW	SW	0·0	0·0	0·0	35	0·00
28	..	29·661	70·0	57·5	60·5	57·1	79·0	55·0	64·2	63·9	3·4	8·6	2·7	— 1·7	Calm	W	0·0	0·0	0·0	70	1·11
29	..	29·746	70·5	53·5	60·7	51·7	85·2	50·0	64·2	..	9·0	14·8	1·4	— 1·5	SW	SW	3·0	0·0	0·6	140	0·07
30	Apogee	29·671	68·0	55·5	59·0	47·7	81·0	55·0	64·3	..	11·3	16·8	9·0	— 3·2	SW	SW	5·0	0·0	0·9	135	0·05
31	..	29·835	70·5	49·7	60·5	49·9	83·5	42·4	63·7	..	10·6	15·4	3·6	— 1·5	SW	SW	4·0	0·0	0·8	180	0·00
Aug. 1	..	29·736	77·0	58·3	64·7 61·4	53·0 49·7	96·0	56·2	..	..	11·7	18·0	4·4	[illegible]	+2·5 SW	SW	3·0	0·0	0·2	75	0·01
2	Greatest Declination N.	29·792	73·0	56·7	63·4	52·9	89·5	51·8	64·2	..	10·5	14·0	3·2	+ 1·2	SW	Calm	0·0	0·0	0·0	5	0·00
3	..	29·841	74·0	54·4	62·7	53·0	92·2	49·2	64·7	..	9·7	15·0	1·2	+ 0·6	Calm	S	0·0	0·0	0·0	15	0·00
4	..	29·876	75·2	52·4	63·0	52·6	93·8	47·5	65·2	..	10·4	16·5	2·4	+ 0·9	Calm; N	N; Calm	0·0	0·0	0·0	10	0·00
5	New	29·989	70·8	46·5	59·3	50·7	85·0	39·8	65·2	..	8·6	12·8	2·2	— 2·8	Calm	N; Calm	0·0	0·0	0·0	5	0·00
6	..	30·062	72·9	48·2	60·9	51·2	87·5	43·0	64·9	..	9·7	15·2	2·6	— 1·1	Calm	Calm	0·0	0·0	0·0	10	0·00
7	..	30·030	71·0	50·4	59·6	50·1	84·0	45·0	65·6	..	9·5	15·0	3·0	— 2·4	N	N	0·0	0·0	0·0	15	0·00
8	..	30·049	76·0	52·6	62·2	52·8	91·4	41·7	65·8	..	9·4	15·0	2·5	+ 0·3	Calm; NE	SE	0·0	0·0	0·0	10	0·00
9	In Equator	30·105	74·7	49·3	61·2	52·6	91·5	42·0	66·0	..	8·6	12·9	2·4	— 0·6	SE; NE	E; N	0·0	0·0	0·0	5	0·00
10	..	30·158	74·5	49·5	61·9	53·5	91·2	39·3	66·5	..	8·4	13·5	3·0	+ 0·1	NE	NE	0·0	0·0	0·0	20	0·00
11	..	30·102	75·0	50·5	63·0	54·0	91·7	41·0	66·5	..	9·0	15·8	3·4	+ 1·3	NE	E	0·0	0·0	0·0	15	0·00
12	First Qr.	30·064	71·8	51·5	59·8	51·0	90·4	38·8	66·4	..	8·8	15·0	3·0	— 1·8	NE	E	0·0	0·0	0·0	45	0·00
13	..	29·997	71·2	56·0	60·4	54·1	84·2	50·0	66·4	..	6·3	10·7	4·0	— 1·0	ENE	NNE	0·0	0·0	0·0	45	0·00
14	Perigee	29·891	67·4	55·8	59·0	53·1	72·5	49·0	65·9	..	5·9	10·7	3·0	— 2·3	N	NNE	0·0	0·0	0·0	60	0·00
15	Greatest Declination S.	29·869	65·2	54·0	57·3	50·3	73·0	47·2	65·9	..	7·0	11·8	5·6	— 4·0	NNE	NNE; Calm	0·0	0·0	0·0	10	0·00
16	..	29·555	65·5	53·0	58·9	55·7	72·5	44·8	65·7	..	3·2	7·6	0·9	— 2·2	Calm; SE	SE	0·0	0·0	0·0	105	0·27
17	..	29·513	72·8	54·0	60·4	52·1	90·0	49·0	65·7	..	8·3	14·0	2·6	— 0·6	SE	SW; NNE	2·0	0·0	0·0	45	0·03
18	Full	29·810	69·2	45·8	57·4	48·3	83·7	36·2	63·9	..	9·1	14·3	3·4	— 3·4	N	SW	0·0	0·0	0·0	20	0·01
19	..	29·772	77·5	54·9	65·0	59·2	91·8	47·0	64·2	..	5·8	15·4	3·4	+ 4·3	S	S; SW	0·0	0·0	0·0	75	0·00
20	..	29·740	75·5	59·0	64·5	60·7	84·2	54·0	64·5	..	3·8	11·0	2·6	+ 3·9	SW	SW	0·0	0·0	0·0	55	0·28
21	..	29·862	74·5	54·0	62·7	55·7	90·0	44·2	64·9	..	7·0	15·0	1·9	+ 2·3	SW	SW	0·0	0·0	0·0	50	0·00
22	In Equator	29·759	73·0	57·2	63·1	55·9	88·0	51·5	64·7	..	7·2	12·6	2·0	+ 2·8	Calm	N	0·0	0·0	0·0	10	0·02
23	..	29·634	62·3	55·0	57·0	54·7	66·0	56·2	65·2	..	2·3	5·4	0·0	— 3·2	ENE	NE	0·0	0·0	0·0	5	0·89
24	..	29·644	68·0	47·8	56·8	53·6	72·0	40·0	64·7	..	3·2	8·5	1·0	— 3·2	Calm	E	0·0	0·0	0·0	20	0·00
25	..	29·540	66·8	49·0	57·6	50·0	74·5	43·0	64·2	..	7·6	11·6	2·0	— 2·3	S	SSW	4·0	0·0	0·5	175	0·00

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
June 28	s P, s N		10, ci.-s, sc, r	10, ci.-s, sc
29			5, cu, ci.-cu, ci.-s, sc	5, cu, ci.-cu, ci.-s, sc : 10
30		s P, s N	7, cu, cu.-s, n	7, cu, cu.-s, n : v, h-r
July 1	s P, s N	s P, s N	10, cu, cu.-s, n, h.-shs.-r	10, cu, cu.-s, n, h.-shs.-r
2			10, cu, cu.-s, sc, h	10, cu, cu.-s, sc, h : v
3			10, cu, ci.-cu, ci.-s	10, cu, ci.-cu, ci.-s
4			7, cu, cu.-s, ci	10, cu, cu.-s, ci
5			10, ci.-cu, ci.-s, sc	5, ci.-cu, ci.-s, sc : o
6			10, ci. cu, ci, li.-cl	10, ci. cu, ci, li.-cl : v
7			5, cu, ci.-cu, ci	5, cu, ci.-cu, ci : h, t.-s
8			7, ci.-cu, s, sc	5, ci.-cu, s, sc : 10
9	s N, sps, g cur : o	o	10, ci.-s, sc, r	10, ci.-s, sc
10	o	o	10, s, ci.-s, sc, r	10, s, ci.-s, sc : 5
11	o	o	10, ci.-s, sc	v, ci. s, sc
12	m	m	7, cu, ci.-cu, s	5, cu, ci.-cu, s : o
13	m	m	10, s, ci.-s	10, s, ci.-s : r
14	s N, sps, g cur	s N, sps, g cur	10, h.-r	10, h.-r
15	s P, sps	s N, sps, : o	10	10, h.-shs.-r, t
16	o	s N : o	10, h.-r	10, h.-r
17	o	o	5, cu.-s, ci.-s, sc	5, cu.-s, ci.-s, sc
18	s N, sps, g cur	s N, sps, g cur	9, cu.-s, ci.-s, sc, shs.-r	9, cu.-s, ci.-s, sc, shs.-r
19	o	o	10, cu, cu.-s, ci, r	5, cu, cu.-s, ci : o
20	o	o	o : 10, ci.-s, sc	10, ci.-s, sc
21	m	m	10, ci.-s	10, ci.-s
22	m	m	10, ci.-s, m.-r	10, ci.-s, m.-r : v
23	w	w	4, cu, ci.-cu, sc	4, cu, ci.-cu, sc
24	o	o	10, ci.-s, sc, r	10, ci.-s, sc, r
25	m	m : o	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : o
26	o	w	10, ci.-s, sc, r	10, ci.-s, sc, r
27	o	o	10, ci.-s	10, ci.-s : l
28	s N, s P, sps, g cur	s N, s P, sps, g cur	10, ci.-s, t.-s, h.-r	10, ci.-s : h.-r
29	s	s	o : 10, cu, cu.-s, ci	10, cu, cu.-s, ci : r
30	o	m	10, ci. s, li.-cl, sc, shs.-r	o : 10
31	m	m	10, cu.-s, ci.-s, li.-cl	10, cu.-s, ci.-s, li.-cl
Aug. 1	o	v : o	10, cu, cu.-s, sc, r	v, cu, cu.-s, sc
2	w	o	10, cu, s, li.-cl	9, cu, s, li.-cl
3	o	w : o	10, cu, ci.-s, h	7, cu, ci.-s, h
4	o	o	10, cu, s	4, cu, s : o
5	v	v : o	10, cu.-s, s, h	10, cu.-s, s, h
6	s	s	10, cu.-s, s, h	10, cu.-s, s, h
7	m	o	7, cu, cu.-s	o
8	o	w	10, cu.-s, h	o
9	m	m	o	7 : o
10	v	v	10	7 : o
11	w	o	7	7 : 10
12	o	v	4	4 : 10
13	o	o	10	9 : 10
14	o	o	10	10
15	o	s : o	10	10
16	o	o	10	10, r
17	o	m : o	10, cu, ci.-s	5, cu, ci.-s : o
18			7, cu, s	7, cu, s : v
19			10, cu, ci.-cu, s	10, cu, ci.-cu, s
20			10, cu.-s, ci.-s, h.-r	v, cu.-s, ci.-s
21	o	o	o : v	v
22	o	o	10, ci.-s	10. ci.-s : r
23	o	o	10, h.-r	10
24	s	s	10, th.-f	10 : 5
25	s N, sps, g cur	s N, sps, g cur	10, ci.-s, sc, r	10, ci.-s, sc

MONTH and DAY, 1853.	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. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. 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 38 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.
Aug. 26	Last Qr.	29·078	65·0	47·2	56·5	52·0	70·0	52·0	63·7	..	4·5	7·7	1·0	— 3·3	S	SSW	11·0	0·0	5·5	295	0·28
27	Apogee	29·286	64·8	49·0	56·3	49·1	68·7	44·2	62·9	..	7·2	12·0	5·0	— 3·3	SW	SW	9·0	0·0	3·0	230	0·31
28	..	29·563	66·5	49·2	56·0	49·0	76·8	40·0	61·9	..	7·0	12·0	4·0	— 3·5	W	WSW	4·0	0·0	0·5	85	0·05
29	Greatest Declination N.	29·692	68·0	46·2	56·7	49·7	85·5	38·0	61·3	..	7·0	15·5	0·5	— 2·6	WSW	W	2·0	0·0	0·1	100	0·00
30	..	29·831	70·2	47·7	57·6	49·1	88·0	39·3	60·9	..	8·5	13·6	0·7	— 1·6	WSW	SW	2·0	0·0	0·1	85	0·00
31	..	29·750	68·1	50·0	56·7	50·4	84·0	47·7	60·7	..	6·3	14·2	2·1	— 2·3	SW	W ; SW	2·5	0·0	0·2	90	0·00
Sept. 1	..	29·587	66·4	52·0	58·1	56·1	70·0	48·0	60·7	..	2·0	6·5	0·9	— 0·8	S	SSW	2·8	0·0	0·3	130	0·48
2	..	29·667	59·0	49·0	52·6	49·6	60·0	41·0	60·5	..	3·0	4·8	1·3	— 6·2	SSW ; N	N	3·0	0·0	0·4	175	0·30
3	New	30·037	61·3	45·0	52·5	46·3	70·0	47·0	59·9	..	6·2	9·9	2·8	— 6·0	NNW	N	2·5	0·0	0·2	103	0·20
4	..	30·209	67·7	52·0	56·5	49·9	75·0	47·0	59·7	..	6·6	12·3	4·4	— 1·9	NNE	NNE	2·5	0·0	0·5	140	0·00
5	In Equator	30·233	70·0	51·2	57·5	53·1	82·7	46·0	59·7	..	4·4	12·2	2·0	— 0·8	NNE	NE	1·8	0·0	0·1	50	0·03
6	..	30·144	72·0	45·0	58·1	49·7	85·8	38·0	59·7	..	8·4	14·1	2·3	+ 0·1	N	NE	4·5	0·0	0·5	70	0·00
7	..	29·968	59·2	46·8	52·6	46·8	63·5	38·8	59·2	..	5·8	9·9	4·4	— 5·3	N	N	2·0	0·0	0·1	45	0·00
8	Perigee	29·829	62·2	48·5	53·9	51·1	65·0	40·0	58·7	..	2·8	6·8	1·1	— 3·9	N	NNE	0·0	0·0	0·0	10	0·00
9	..	29·726	63·0	50·5	56·1	52·5	78·0	41·7	58·9	..	3·6	6·7	1·1	— 1·4	Calm	SE	0·0	0·0	0·0	75	0·12
10	First Qr.	29·661	67·0	53·4	58·1	55·2	71·0	43·4	58·7	..	2·9	8·4	1·0	+ 0·7	SSE	S ; Calm	0·0	0·0	0·0	30	0·02
11	Greatest Declination S.	29·880	72·2	41·8	57·4	49·0	88·8	35·5	59·2	..	8·4	16·2	0·7	+ 0·1	Calm	SSW	0·0	0·0	0·0	50	0·00
12	..	29·852	69·8	51·0	61·3	55·0	77·8	43·8	59·7	..	6·3	8·5	2·1	+ 4·3	SE	S ; SE	0·0	0·0	0·0	75	0·00
13	..	29·938	62·4	49·0	52·8	49·0	65·8	50·0	59·9	..	3·8	9·2	2·0	— 4·0	SE ; NW	NW	0·0	0·0	0·0	60	0·08
14	..	29·917	69·2	40·5	55·8	48·4	84·2	37·5	60·1	..	7·4	14·1	0·0	— 0·9	Calm	SW	0·0	0·0	0·0	40	0·01
15	..	29·857	62·2	51·0	55·3	51·5	65·8	48·0	59·7	..	3·8	8·1	1·1	— 1·2	Calm ; E	NE	0·0	0·0	0·0	60	0·13
16	..	29·835	64·9	54·2	59·2	57·8	67·0	54·2	59·5	..	1·4	3·1	0·5	+ 1·2	Calm	NNE	0·0	0·0	0·0	20	0·35
17	Full	29·933	73·0	53·2	61·5	56·5	84·5	48·8	63·9	..	5·0	11·3	0·4	+ 5·4	NNE	NE	0·0	0·0	0·0	50	0·00
18	In Equator	30·062	69·3	44·7	57·2	53·0	72·8	38·3	60·1	..	4·2	10·2	0·0	+ 1·3	Calm	Calm ; N	0·0	0·0	0·0	60	0·00
19	..	30·057	70·2	43·4	57·9	50·3	86·5	38·1	60·2	..	7·6	12·0	1·6	+ 2·1	SW ; Calm	W	0·0	0·0	0·0	130	0·00
20	..	29·911	63·5	48·0	53·5	48·9	74·5	43·8	59·7	..	4·6	8·3	0·4	— 2·0	W v. Light	W v. Light	0·0	0·0	0·0	20	0·00
21	..	29·810	66·0	43·5	53·9	49·2	..	36·5	59·9	..	4·7	9·2	0·0	— 1·5	Calm	W	0·0	0·0	0·0	20	0·00
22	..	29·703	67·5	46·0	57·6	50·8	82·2	39·7	59·7	..	6·8	12·0	0·5	+ 2·3	SW v. Light	SW	3·0	0·0	1·0	170	0·00
23	Apogee	29·612	63·0	47·0	53·2	47·8	68·5	50·7	59·9	..	5·4	8·3	2·0	— 1·8	SW ; W	W ; SW	2·0	0·0	0·2	120	0·01
24	..	29·627	62·0	41·7	49·0	44·6	75·5	35·2	59·7	..	4·4	8·9	1·0	— 5·8	SW ; W	W	5·0	0·0	0·4	105	0·15
25	Last Qr.	29·060	64·8	40·8	52·3	48·1	67·0	34·7	58·2	..	4·2	10·3	0·4	— 2·4	S	S ; W	12·5	0·0	4·0	105	0·13
26	Greatest Declination N.	29·639	57·8	44·0	49·5	39·6	69·0	39·0	57·2	..	9·9	14·0	1·6	— 4·9	W	NW	9·0	0·0	4·0	290	0·00
27	..	29·786	60·8	37·5	52·1	47·3	66·0	31·0	56·2	..	4·8	8·0	0·5	— 2·1	SW	SW	0·0	0·0	0·0	115	0·00
28	..	29·779	67·7	50·5	58·7	53·5	76·5	44·0	56·2	..	5·2	10·7	0·2	+ 4·7	WSW	SW	6·0	0·0	2·3	90	0·00
29	..	29·818	61·5	51·4	53·3	50·5	64·0	47·5	56·3	..	2·8	6·7	0·0	— 0·4	SW	SW	5·0	0·0	1·1	220	0·25
30	..	29·843	61·6	43·8	51·2	44·7	68·0	40·3	56·2	..	6·5	11·7	1·6	— 2·3	W	W	0·0	0·0	0·0	50	0·11
Oct. 1	..	29·530	60·4	40·6	49·5	46·0	58·5	36·2	55·7	..	3·5	7·2	0·0	— 3·8	W ; N	W by S	5·0	0·0	1·0	20	0·20
2	New In Equator.	29·756	55·5	36·0	45·7	37·4	66·5	30·0	54·7	..	8·3	11·0	1·0	— 7·4	WSW	WSW	0·0	0·0	0·0	80	0·00
3	..	29·956	56·0	31·7	44·1	36·5	67·0	25·8	53·7	..	7·6	11·0	5·1	— 8·7	WSW	NW ; S	0·0	0·0	0·0	85	0·01
4	..	29·705	55·0	38·3	48·4	46·0	54·5	31·8	53·2	51·2	2·4	5·0	0·0	— 4·2	SSW	S	4·8	0·0	2·2	135	0·20
5	Perigee	29·216	56·2	48·2	51·5	50·7	55·5	47·0	53·2	51·4	0·8	2·0	0·0	— 0·9	SSE	S ; Calm	4·0	0·0	1·0	40	0·43
6	..	29·281	50·7	41·3	45·5	45·5	50·5	35·5	53·2	51·5	0·0	0·2	0·0	— 6·7	Calm	Calm	0·0	0·0	0·0	10	0·02
7	..	29·308	60·0	44·1	51·6	47·1	65·0	39·1	53·1	51·5	4·5	8·9	0·0	— 0·4	Calm ; SW	Calm	0·0	0·0	0·0	0	0·08
8	..	29·376	60·8	49·2	53·3	51·7	62·5	46·8	53·1	51·5	1·6	5·5	0·0	+ 1·5	Calm	Calm	0·0	0·0	0·0	5	0·29
9	Greatest Dec. S. First Quarter.	29·563	63·8	41·5	51·6	50·4	71·0	35·5	53·2	51·8	1·2	5·3	0·0	+ 0·1	Calm	Calm	0·0	0·0	0·0	5	0·02
10	..	29·657	61·5	39·3	50·0	49·6	70·0	34·0	53·2	52·6	0·4	5·8	0·0	— 1·3	Calm	NE	0·0	0·0	0·0	10	0·01
11	..	29·594	58·0	47·0	51·9	49·1	63·0	42·0	53·2	53·0	2·8	5·7	0·0	+ 0·9	Calm	NE	0·0	0·0	0·0	5	0·01
12	..	29·550	57·8	48·9	52·1	50·9	58·0	41·9	53·7	53·0	1·2	2·6	0·0	+ 1·3	ENE	ENE	0·0	0·0	0·0	15	0·58
13	..	29·613	59·7	49·0	52·8	50·6	62·3	40·8	53·7	52·8	2·2	4·4	0·0	+ 2·2	ENE	E	0·0	0·0	0·0	25	0·05
14	..	29·604	63·8	48·5	54·1	50·9	72·5	46·0	53·7	52·8	3·2	8·5	0·0	+ 3·7	Calm	Calm	0·0	0·0	0·0	25	0·17
15	In Equator	29·510	61·5	42·2	51·4	47·0	68·6	34·4	53·7	53·4	4·4	10·6	1·3	+ 1·2	WSW ; SW	SW	4·5	0·0	0·6	120	0·10
16	..	29·283	55·5	41·5	45·4	45·2	56·0	39·7	53·7	53·7	0·2	4·0	0·0	— 4·5	WSW	NNE ; WSW	0·0	0·0	0·0	40	0·12
17	Full	28·999	57·5	38·4	47·2	44·3	60·0	31·8	53·7	..	2·9	7·6	0·9	— 2·6	S	SW	5·6	0·0	1·8	150	0·20
18	..	29·335	55·2	37·2	44·9	40·6	63·8	30·0	52·7	..	4·3	9·8	2·4	— 4·6	N	N ; Calm	0·0	0·0	0·0	50	0·01
19	..	28·895	53·5	39·0	47·0	46·3	52·0	39·2	51·7	..	0·7	3·5	0·6	— 2·3	SE	SE	3·0	0·0	1·2	15	0·59
20	..	29·503	56·5	42·0	47·6	43·2	58·5	40·7	51·2	..	4·4	8·9	2·2	— 1·4	WSW	W	3·0	0·0	1·0	180	0·08
21	Apogee	29·699	58·3	39·7	50·5	47·8	58·3	32·8	51·1	..	2·7	6·3	1·7	+ 1·7	SW	SW	8·0	0·0	3·2	260	0·02
22	..	29·786	64·5	54·3	57·6	53·6	69·0	50·0	52·3	..	4·0	8·8	1·0	+ 8·9	SW	S	6·3	0·0	2·2	170	0·08
23	Greatest Declination N	29·964	62·8	54·5	57·9	54·1	64·5	47·8	53·5	..	3·8	5·8	1·0	+ 9·5	SW	SW ; S	4·8	0·0	0·8	65	0·03

MONTH and DAY, 1853.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 26	s N, sps, g cur	s N, sps, g cur	10, cu, n, sc, h.-sqs.-r	10, cu, n, sc, h.-sqs.-r
27	o	m : o	10, h.-r	10 : o
28	s N, s P, sps, g cur	s N, s P, sps, g cur	v, cu, cu.-s, r	v, cu, cu.-s, n : o
28	m	o	10, cu, cu.-s, ci, r	5, cu, cu.-s, ci : o
30	s	s	7, cu.-s, ci.-s, sc	7, cu.-s, ci.-s, sc : 10
31	v	v	10, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s
Sept. 1	s	s	10, fr.-r	10, fr.-r : l, a
2	o	o	10, fr.-shs.-r	10, fr.-shs.-r : a
3	m	m : o	5	10
4	o	o : m	10	5
5	o	s P, sps, g cur	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, r : o
6	o	m : o	7, shs.-r	7, shs.-r : o
7	o	m : o	10, ci.-s	10, ci.-s
8	m	m	10, ci.-s, th.-r	10, ci.-s, th.-r
9	o	s P, sps, g cur : o	10, s, ci.-s	7, s, ci.-s, r : 10
10	o	m : o	10, ci.-s	9, ci.-s, r : 10, ci.-s
11	s	s	o, th.-f	o : 7
12	o	o	10, cu.-s, ci.-s	10, cu.-s, ci.-s
13	o	o : m	v, cu.-s, s, h, shs.-r	v, cu.-s, s, h : o
14	s	s	o	v, cu, cu.-s
15	v, sps	v, sps	10, fr.-shs.-r	10, fr.-shs, r
16	s	s : o	10, ci.-s, th.-f, fr.-shs.-r	10, ci.-s, fr.-shs.-r
17	o	m : o	10, cu, ci.-cu, s	5, cu, ci.-cu, s : o
18	m	m	o, h	o, h
19	m	m	o	o
20	s	s	10	o
21	s	s	2, h	2, h
22	m	m	v	v
23	m	m	o	o : 7
24	v	v	o : 5, r, t	10 : o
25	o	o	10, fr.-shs.-r	10, fr.-shs.-r
26	o	o	7	7 : o
27	o	o	10	10
28	o	o	10	10
29	o	o	10, th.-r	10, h.-r : f
30	o	o	10, r	10 : o
Oct. 1	o	w : o	10	10 : o
2	o	o	o	o
3	o	o	f : 7	o
4	o	o	10, th.-r	10, th.-r
5	o	o	10, r	10, r
6	o	o	10, th.-f	10, th.-f
7	o	o	10	10
8	o	o	f	f : t, l, h.-r : o, f
9	o	o	th.-f, r : o	o : th.-f
10			f : 10	10 : r
11			10, r	10
12			10, h.-r	10, h.-r : v
13			10, shs.-r	10, shs.-r
14			f : o	o
15			v	v : li.-cl, lu.-co
16			10, h.-r	10
17			10, r : 9 ci.-cu, ci.-s	10, ci.-cu, ci.-s
18			o : 5, ci, li.-cl	5, ci, li.-cl
19			10, r	10, r
20			7, ci.-s, h	7, ci.-s, h : o
21			10, r	10, r
22			10, ci.-s, li.-cl	3, ci.-s, li.-cl : o
23			10, r	10, r : v

MONTH and DAY, 1853.	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. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. 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 38 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.	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.
Oct. 24	..	29·843	53·2	48·0	56·4	52·4	67·5	38·3	54·2	..	4·0	6·5	0·0	+ 8·2	SSW	SSW	0·0	0·0	0·0	65	0·00
25	Last Qr.	29·691	63·5	50·2	56·1	52·9	68·0	43·2	54·7	..	3·2	6·5	0·4	+ 8·2	SE	SW	2·4	0·0	0·3	75	0·00
26	..	29·576	67·0	46·8	56·0	52·0	73·3	37·2	55·1	..	4·0	11·2	1·1	+ 8·3	SE ; S	S	2·7	0·0	0·1	115	0·19
27	..	29·513	63·5	52·4	57·5	52·9	65·7	45·4	57·7	54·2	4·6	7·0	0·8	+10·0	S	S	2·6	0·0	0·2	130	1·05
28	..	29·449	62·2	51·8	55·8	51·7	66·5	47·8	58·1	54·2	4·1	7·1	1·6	+ 8·5	SSE	SW	5·4	0·0	1·6	180	0·16
29	..	29·791	57·8	41·8	48·5	44·8	63·0	40·7	57·7	52·7	3·7	9·1	2·4	+ 1·5	SW ; W	Calm	3·6	0·0	0·1	40	0·03
30	In Equator	29·930	54·0	40·7	46·7	44·1	58·0	38·7	57·7	51·4	2·6	8·0	1·5	— 0·1	Calm	Calm	0·0	0·0	0·0	25	0·00
31	..	29·827	57·6	38·7	46·9	41·8	60·5	45·4	57·7	50·7	5·1	12·5	1·0	+ 0·4	SSE	SSE	2·8	0·0	0·4	115	0·01
Nov. 1	New	29·769	60·8	45·4	52·6	48·2	67·2	46·0	57·7	50·4	4·4	10·6	0·0	+ 6·3	SSE	S ; SW	0·8	0·0	0·1	120	0·00
2	Perigee	29·870	59·7	45·9	52·3	46·5	63·3	41·0	57·7	50·2	5·8	10·6	0·2	+ 6·2	S ; SW	Calm	3·8	0·0	0·7	25	0·00
3	..	29·931	57·8	41·0	49·7	48·9	58·0	43·8	58·2	50·0	0·8	3·4	0·0	+ 3·8	Calm	SE	0·0	0·0	0·0	85	0·00
4	..	29·809	54·0	43·8	47·8	46·1	59·0	35·8	58·5	49·5	1·7	4·0	0·0	+ 2·1	SE	SE	2·0	0·0	0·3	150	0·02
5	Greatest Declination S.	29·699	48·7	44·1	46·5	45·4	49·0	55·0	56·7	48·8	1·1	2·6	0·2	+ 1·1	SE	SE	2·8	0·0	0·5	105	0·00
6	..	29·873	58·8	44·2	52·5	52·1	59·2	..	..	48·0	0·4	3·6	0·0	+ 7·3	SSE ; Calm	Calm	0·0	0·0	0·0	10	0·06
7	..	30·138	55·0	47·2	51·4	49·6	56·5	..	..	49·2	1·8	4·0	0·0	+ 6·5	Calm	N	0·0	0·0	0·0	15	0·00
8	First Qr.	30·170	54·7	43·0	48·4	44·2	56·5	..	..	49·2	4·2	7·4	0·8	+ 3·6	Calm	W ; N	5·0	0·0	0·2	110	0·00
9	..	30·392	50·0	34·8	41·1	36·8	51·5	..	..	48·7	4·3	10·5	3·5	— 3·4	NW ; SW	SW	0·0	0·0	0·0	85	0·00
10	..	30·229	51·5	35·4	42·8	39·7	54·5	38·0	..	48·5	3·1	8·0	1·6	— 1·5	SW	SW	0·0	0·0	0·0	20	0·00
11	..	30·183	48·5	34·5	40·3	39·3	51·0	26·8	..	48·3	1·0	3·3	0·0	— 3·7	Calm	NE	0·0	0·0	0·0	20	0·00
12	In Equator	30·102	50·2	35·6	43·6	41·5	50·5	30·5	..	46·0	2·1	5·7	0·5	— 0·1	NE	NE ; Calm	0·0	0·0	0·0	5	0·00
13	..	29·716	48·3	39·4	43·3	40·9	48·5	30·5	..	45·5	2·4	6·2	0·0	— 0·1	Calm	Calm ; NNE	0·0	0·0	0·0	5	0·02
14	..	29·596	43·8	36·8	39·9	38·7	44·0	28·2	..	45·0	1·2	6·4	0·5	— 3·3	NE	Calm ; WSW	0·0	0·0	0·0	5	0·00
15	Full	29·566	42·0	32·2	37·4	36·9	42·5	26·0	..	44·6	0·5	1·9	0·0	— 5·5	Calm	Calm ; NNE	0·0	0·0	0·0	30	0·08
16	..	29·603	45·5	32·8	38·8	36·5	46·3	30·2	..	44·1	2·3	8·5	0·5	— 4·0	N	SW	0·0	0·0	0·0	45	0·03
17	..	29·732	41·0	29·4	34·0	31·4	43·0	24·8	..	43·0	2·6	6·0	0·7	— 8·5	SW	NNW ; SW	0·0	0·0	0·0	35	0·00
18	Apogee	29·906	45·0	27·5	35·6	31·7	49·3	26·8	..	42·1	3·9	10·8	0·0	— 6·8	SW	SW	0·0	0·0	0·0	80	0·00
19	Greatest Declination N.	29·941	48·8	31·8	40·2	37·1	53·3	24·2	..	42·1	3·1	10·6	1·3	— 2·0	Calm	S	0·0	0·0	0·0	80	0·00
20	..	29·907	47·0	33·0	41·4	41·2	47·5	24·8	..	41·6	0·2	5·5	0·0	— 0·6	SSW	N	0·0	0·0	0·0	15	0·22
21	..	30·203	45·0	31·2	37·6	36·6	52·0	22·5	..	40·8	1·0	4·6	0·5	— 4·3	N	NNE	0·0	0·0	0·0	15	0·00
22	..	30·128	48·0	28·0	34·2	34·2	54·3	21·5	..	40·7	0·0	0·0	0·0	— 7·6	Calm	Calm	0·0	0·0	0·0	20	0·00
23	Last Qr.	30·104	36·3	25·8	29·9	29·9	40·0	22·2	..	39·3	0·0	0·8	0·0	—11·8	Calm	Calm	0·0	0·0	0·0	15	0·00
24	..	29·910	42·5	26·2	35·7	32·6	44·5	20·3	..	39·3	3·1	9·6	0·0	— 5·9	SSW	Calm	0·0	0·0	0·0	60	0·33
25	..	29·977	42·5	32·8	37·9	36·9	45·2	32·0	..	39·3	1·0	3·1	0·0	— 3·8	NW	NW	0·0	0·0	0·0	60	0·28
26	In Equator	29·759	45·8	38·4	40·4	39·4	43·0	30·2	..	39·8	1·0	3·1	0·0	— 1·4	NW	NW ; N	3·4	0·0	0·5	95	0·42
27	..	30·036	41·3	34·8	37·8	35·8	43·0	30·0	..	39·3	2·0	3·8	0·0	— 4·1	NNE	NW	0·0	0·0	0·0	30	0·00
28	..	30·069	45·2	33·4	40·4	37·5	48·0	27·2	..	40·3	2·9	5·5	1·0	— 1·5	SSE	S	0·0	0·0	0·0	95	0·06
29	..	29·939	45·5	36·2	40·6	39·2	47·0	34·5	..	40·5	1·4	4·6	0·0	— 1·3	SE	S	2·3	0·0	0·5	175	0·03
30	New	29·967	51·9	44·3	48·6	47·9	53·0	38·2	..	41·2	0·7	1·8	0·0	+ 6·8	S	SSE	0·0	0·0	0·0	65	0·02
Dec. 1	Perigee	29·949	50·8	34·5	41·5	40·5	51·0	45·0	..	41·6	1·0	3·5	0·0	— 0·2	SSE	ESE ; Calm	0·0	0·0	0·0	5	0·00
2	Greatest Declination S.	29·837	44·8	30·3	35·4	34·1	48·0	20·7	..	41·6	1·3	4·3	0·0	— 6·2	Calm	Calm	0·0	0·0	0·0	5	0·00
3	..	29·881	40·7	29·4	36·0	36·0	43·0	20·3	..	42·1	0·0	0·7	0·0	— 5·5	Calm	Calm	0·0	0·0	0·0	5	0·00
4	..	29·831	41·5	34·2	38·4	38·4	42·2	30·3	..	42·1	0·0	0·5	0·0	— 3·0	Calm	Calm	0·0	0·0	0·0	0	0·01
5	..	29·789	46·0	37·0	42·6	42·4	47·0	35·4	43·4	41·6	0·2	2·3	0·0	+ 1·3	Calm	Calm	0·0	0·0	0·0	0	0·00
6	..	29·933	44·0	37·7	40·8	39·1	45·0	36·0	43·4	42·5	1·7	2·2	0·7	— 0·3	NW	NW	0·0	0·0	0·0	5	0·00
7	First Qr.	29·991	44·3	39·0	41·4	39·7	45·3	37·0	44·0	43·0	1·7	2·2	0·2	+ 0·4	NW	N	0·0	0·0	0·0	15	0·00
8	..	30·107	43·0	34·4	38·4	36·4	43·3	31·6	43·0	41·6	2·0	4·8	0·3	— 2·4	Calm	N	0·0	0·0	0·0	15	0·00
9	In Equator	30·244	44·8	35·0	40·0	37·4	47·3	28·5	43·0	42·2	2·6	4·8	0·0	— 1·0	NNW	NE	0·0	0·0	0·0	60	0·08
10	..	30·115	41·8	33·8	36·9	32·6	43·3	27·9	43·0	41·6	4·3	5·0	2·9	+ 1·2	NE	NE	3·4	0·0	0·7	135	0·04
11	..	29·933	34·9	29·2	30·8	29·7	36·0	30·3	43·0	40·7	1·1	5·2	1·0	— 9·7	E	NE	0·0	0·0	0·0	35	0·00
12	..	29·765	35·2	29·2	32·3	28·3	37·0	28·5	40·8	39·5	4·0	8·3	2·6	— 8·0	NE	NE	0·0	0·0	0·0	40	0·00
13	..	29·384	46·0	30·3	40·1	37·9	49·5	23·3	40·5	39·3	2·2	4·6	1·9	— 0·1	NE	NE	2·5	0·0	0·2	110	0·00
14	..	29·177	46·0	30·9	38·4	35·4	49·3	33·2	40·4	38·8	3·0	4·6	2·5	— 1·6	NE	NE	4·0	0·0	0·5	120	0·00
15	Apogee. Full.	29·143	35·2	27·0	30·4	27·6	37·3	19·3	39·5	38·2	2·8	5·1	1·2	— 9·4	N	N	0·0	0·0	0·0	95	0·02
16	Greatest Declination N.	29·352	31·8	22·4	26·6	21·7	32·2	31·0	38·5	37·1	4·9	6·7	4·9	—13·0	NW	NW	0·0	0·0	0·0	90	0·07
17	..	29·827	35·5	24·3	30·4	25·4	36·0	23·0	37·6	36·6	5·0	6·1	1·5	— 9·0	SW	N ; Calm	0·0	0·0	0·0	35	0·03
18	..	29·487	33·5	27·8	30·2	27·0	34·0	27·0	37·0	34·5	3·2	3·7	2·6	— 9·1	SE	SE	0·0	0·0	0·0	20	0·00
19	..	29·452	32·5	27·0	29·9	23·9	35·0	26·0	37·0	34·0	6·0	11·6	3·1	— 9·2	SE	ENE	0·0	0·0	0·0	50	0·00
20	..	29·694	35·5	29·2	33·0	32·4	36·0	26·7	36·5	34·0	0·6	2·6	0·0	— 5·9	NE	NE	0·0	0·0	0·0	20	0·03
21	..	29·872	36·7	32·3	33·9	32·1	35·8	32·2	36·0	34·0	1·8	3·4	1·3	— 4·8	NE	NNE	0·0	0·0	0·0	70	0·01

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Oct. 24			9, ci.-s, s, li.-cl	9, ci.-s, s, li.-cl
25	v	v	7, ci.-s	10, ci. s : o
26	m	o : m	5, ci.-cu, ci.-s	10, ci.-cu, ci. s, r
27	s	s	10, cu, ci.-s	10, cu, ci.-s : l, t
28	o	m : o	10, cu, ci.-cu, ci.-s	v, cu, ci.-cu, ci.-s : r
29	o	o	10, cu, cu.-s, ci.-s	10. cu, cu.-s, ci.-s
30	o	o	10	o
31	o	o	o	v : a
Nov. 1	o	o	o	o
2	o	o	7, ci.-s	10, ci.-s : o
3	s	s	10, ci.-cu, ci.-s, th.-f, r	7, ci.-cu, ci.-s, th.-f, r
4	o	m : o	o	7, ci.-s, s, h
5	o	o	10, ci.-s	10, ci.-s : v, l
6	m	m	10, ci.-s, m.-r	10, ci.-s, m.-r
7	s	s	10, th.-f	10
8	s	s	10, s, ci.-s, f	10, s, ci.-s, so.-ha : o
9	s, sps	s, sps	10	7 : o lu.-ha
10	s, sps	s, sps	7, ci.-cu, ci.-s	o
11	s	s	10, s, so.-ha, f	10, s : o
12	s, sps	s, sps	10	10 : v, th.-f
13	s	s	9, ci.-s, r	9, ci.-s
14	s, sps	s	10, ci.-s, th.-f	10, ci.-s
15	s	s	10, ci.-s	10, ci.-s, r
16	s, sps	s	10, cu, ci.-cu, ci.-s, th.-f	10, cu, ci.-cu, ci.-s : o
17	s, sps	s, sps	10, s, ci.-s, f	7, s, ci.-s : o
18	s	s	o, h	o, h
19	s	s, sps	2, li.-cl	o : f
20	s	s	10, r	10, r
21	s, sps	s, sps	th.-f	o
22	s, sps	s, sps	th.-f : 9	7 : th.-f
23	s, sps	s, sps	f,	f
24	s	s, sps	10	10, r : sn
25	s	s	9, ci.-cu, s, ci.-s	9, ci.-cu, s, ci.-s : r
26	s	s	10, r	10, r
27	s	s	10, m.-r	10, m.-r
28	s	s	10	10
29	s	s	10	10, r
30	s	s	10, m.-r	10, m.-r
Dec. 1	s	s	10, s, ci.-s, li.-cl	10, s, ci.-s, li.-cl : o
2	s	s	o	o
3	s, sps, g cur	s, sps, g cur	10, th.-f	10, th.-f
4	s, sps	s	10, th.-f	10,
5	s, sps	s, sps	7, f	10, f
6	s	s	10	10 : a
7	s	s	10	10
8	s	s, sps	7, ci.-cu, ci.-s	10, ci.-cu, ci.-s : f
9	s	s	10, r	10 : r
10	s	s	10, ci.-cu, s, ci.-s	8, ci.-cu, s : 10
11	s	s	10	10
12	s, sps	s	10, ci.-cu, ci.-s : sn	8, ci.-cu, li.-cl : 10
13	s	s	10, s, ci.-s, i.-cl	10, s, ci.-s, li.-cl
14	s	s	7	10, sn
15	s	s	10, sn	10, sn
16	s	s	sn : 7	o : 5
17	s	s	9, sn, ci.-cu, ci.-s	9, sn, ci.-cu, ci.-s
18	v	v	9, ci.-s, li. cl	10, ci.-s, li.-cl
19	v	v	5, s, ci.-s, li.-cl	5, s, ci. s, li.-cl : 10
20	v	v	10, sn, sl	10, sn, sl
21	v	v	10, sl	10, sl

MONTH and DAY, 1853.	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. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. 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 38 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.	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.
Dec. 22	..	29·993	36·0	32·2	34·2	31·9	36·1	32·0	36·0	34·2	2·3	5·2	0·6	— 4·3	NE	NE	4·0	0·0	0·6	115	0·02
23	Last Qr.	29·738	41·0	32·4	36·9	33·4	41·5	28·0	36·0	34·2	1·5	4·3	0·5	— 1·5	W; NW	NW	1·6	0·0	0·2	120	0·04
24	In Equator.	29·998	36·3	27·7	33·8	31·5	37·0	28·8	36·2	34·5	2·3	3·2	1·7	— 4·4	ENE	NE	0·9	0·0	0·0	30	0·00
25	..	30·096	36·5	25·3	30·2	25·6	38·3	20·5	36·0	35·8	4·6	7·8	2·0	— 7·8	N	Calm	0·0	0·0	0·0	..	0·00
26	..	30·002	35·2	20·0	27·7	26·6	36·0	13·2	36·0	35·4	1·1	3·1	0·8	—10·1	Calm	NW	0·0	0·0	0·0	..	0·00
27	..	29·796	33·0	25·3	29·3	22·3	33·7	19·5	36·0	34·7	7·0	11·5	3·2	— 8·3	NW	NW	2·0	0·0	0·1	..	0·00
28	..	29·850	34·8	25·5	28·9	25·4	35·0	18·0	35·5	34·7	3·5	5·3	2·9	— 8·5	NNW	N	3·0	0·0	0·4	..	0·00
29	Perigee.	30·091	31·5	18·0	24·1	19·7	33·0	11·0	35·2	33·3	4·4	9·2	3·4	—13·2	N	N; WSW	0·0	0·0	0·0	30	0·00
30	New Greatest Dec. S.	29·503	38·5	26·0	32·7	28·0	40·3	15·0	33·6	33·2	4·7	5·5	1·3	— 4·3	WSW	NW	4·0	0·0	0·2	115	0·08
31	..	29·507	35·9	25·0	29·9	25·3	38·0	14·0	33·5	33·2	4·6	6·1	3·5	— 6·8	W	WSW	0·0	0·0	0·0	75	0·08

MONTH and DAY, 1853.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A. M.	P. M.	A. M.	P. M.
Dec. 22	v	v	10	10
23	v	v	10, r	10 : v 10, r, a
24	v	v	9, ci.-cu, ci.-s	9, ci.-cu, ci.-s
25	v	v	0	0
26	v	v	5, ci.-s, h	10, ci.-s
27	v	v	0	10, ci.-s, li.-cl
28	v	s, sps	0	10, sn : 0
29	s, sps	s, sps	0	0
30	s, sps	s, sps	10, r	10, sn : 0
31	s, sps	s, sps	0	10 : sn

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, 1853.		Reading.	Approximate Mean Solar Time, 1853.		Reading.	Approximate Mean Solar Time, 1853.		Reading.	Approximate Mean Solar Time, 1853.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	9. 8. 0	29·634	January	7. 3. 0	29·064	June	23. 21. 0	29·714	June	20. 9. 0	29·489
	11. 9. 0	29·536		10. 9. 0	29·211	July	3. 1. 0	30·112		28. 9. 0	29·483
	14. 9. 0	29·730		13. 9. 0	29·208		11. 21. 0	29·905	July	7. 9. 0	29·744
	18. 21. 0	29·889		16. 7. 30	28·984		19. 9. 0	29·839		14. 0. 0	29·162
	23. 21. 0	30·077		21. 9. 0	29·230		23. 0. 0	29·845		22. 3. 0	29·590
	31. 9. 0	30·123		26. 3. 0	29·551		26. 21. 0	29·815		24. 5. 0	29·625
February	5. 9. 0	29·757	February	3. 21. 0	29·426	August	9. 21. 0	30·182		29. 21. 0	29·627
	14. 9. 0	29·732		9. 3. 0	28·889		20. 18. 30	29·879	August	16. 9. 0	29·401
	21. 9. 0	30·007		18. 0. 0	29·378		30. 0. 0	29·863		26. 9. 0	28·957
	23. 21. 0	29·750		23. 3. 0	29·281	September	5. 9. 0	30·250	September	1. 9. 0	29·545
	27. 21. 0	29·810		26. 3. 0	28·872		18. 21. 0	30·137		9. 21. 0	29·634
March	3. 21. 0	30·019	March	2. 3. 0	29·274		30. 0. 0	29·893		25. 4. 0	29·001
	10. 9. 0	30·096		5. 3. 0	29·659	October	3. 9. 0	29·998	October	1. 3. 0	29·507
	19. 0. 0	30·048		13. 21. 0	29·422		9. 21. 0	29·688		5. 3. 0	29·152
	28. 9. 0	30·058		21. 3. 0	29·675		18. 3. 0	29·361		17. 3. 0	28·929
April	2. 9. 0	29·796	April	1. 3. 0	29·271		23. 8. 30	30·012		19. 3. 0	28·831
	5. 9. 0	29·853		3. 10. 30	29·439		30. 22. 0	29·963		28. 0. 0	29·418
	9. 0. 0	30·170		7. 3. 0	29·595	November	9. 0. 0	30·414	November	5. 3. 0	29·683
	15. 0. 0	30·027		12. 21. 0	29·791		21. 9. 0	30·229		15. 3. 0	29·555
	23. 9. 0	29·740		22. 3. 0	29·195		24. 21. 0	30·011		24. 3. 0	29·877
	26. 21. 0	29·752		24. 21. 0	29·163		27. 21. 0	30·076		26. 0. 0	29·715
May	4. 9. 0	30·015		29. 3. 0	29·494	December	9. 9. 0	30·277	December	2. 3. 0	29·830
	10. 21. 0	29·970	May	9. 3. 0	29·350		17. 9. 0	29·626		15. 3. 0	29·141
	22. 9. 0	29·992		16. 9. 0	29·556		22. 9. 0	30·016		18. 21. 0	29·423
June	2. 21. 0	30·033		26. 3. 0	29·451		24. 22. 45	30·105		23. 3. 0	29·697
	7. 21. 0	29·961	June	5. 2. 45	29·756		28. 21. 0	30·149		27. 3. 0	29·763
	15. 9. 0	29·938		11. 9. 0	29·595					31. 9. 0	29·423

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, except Sundays.

Days of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51 ·88	51 ·34	50 ·78	50 ·00	*S*	48 ·75	48 ·90	49 ·48	50 ·34	51 ·15	51 ·82	51 ·85
2	*S*	51 ·34	50 ·78	50 ·02	49 ·19	48 ·75	48 ·88	49 ·53	50 ·34	*S*	51 ·85	51 ·83
3	51 ·87	51 ·31	50 ·75	*S*	49 ·15	48 ·80	*S*	49 ·55	50 ·37	51 ·17	51 ·80	51 ·82
4	51 ·84	51 ·30	50 ·74	49 ·94	49 ·14	48 ·77	48 ·90	49 ·56	*S*	51 ·22	51 ·80	*S*
5	51 ·85	51 ·28	50 ·76	49 ·88	49 ·10	*S*	48 ·94	49 ·60	50 ·40	51 ·23	51 ·84	51 ·82
6	51 ·83	*S*	*S*	49 ·89	49 ·06	48 ·74	48 ·94	49 ·63	50 ·48	51 ·23	*S*	51 ·85
7	51 ·82	51 ·28	50 ·73	49 ·85	49 ·07	48 ·75	48 ·98	*S*	50 ·50	51 ·28	51 ·83	51 ·85
8	51 ·79	51 ·22	50 ·70	49 ·80	*S*	48 ·75	48 ·96	49 ·68	50 ·53	51 ·31	51 ·83	51 ·81
9	*S*	51 ·20	50 ·64	49 ·80	49 ·04	48 ·74	48 ·96	49 ·70	50 ·57	*S*	51 ·83	51 ·80
10	51 ·77	51 ·22	50 ·63	*S*	49 ·01	48 ·74	*S*	49 ·74	50 ·60	51 ·29	51 ·83	51 ·80
11	51 ·72	51 ·18	50 ·59	49 ·74	48 ·95	48 ·80	48 ·98	49 ·79	*S*	51 ·38	...	*S*
12	51 ·76	51 ·07	50 ·59	49 ·75	48 ·94	*S*	49 ·03	49 ·77	50 ·67	51 ·40	51 ·85	51 ·75
13	51 ·72	*S*	*S*	49 ·71	48 ·93	48 ·75	49 ·04	49 ·80	50 ·70	51 ·42	*S*	51 ·76
14	51 ·70	51 ·10	50 ·54	49 ·65	48 ·93	48 ·78	49 ·04	*S*	50 ·72	51 ·45	51 ·82	51 ·79
15	51 ·69	51 ·06	50 ·48	49 ·62	*S*	48 ·75	49 ·12	49 ·85	50 ·77	51 ·48	51 ·81	51 ·71
16	*S*	51 ·07	50 ·44	49 ·63	48 ·94	48 ·75	49 ·13	49 ·87	50 ·77	*S*	51 ·83	51 ·72
17	51 ·74	51 ·07	50 ·39	*S*	48 ·93	48 ·75	*S*	49 ·90	50 ·82	51 ·50	51 ·80	51 ·68
18	51 ·62	51 ·00	50 ·37	49 ·60	48 ·92	48 ·78	49 ·14	49 ·92	*S*	51 ·53	51 ·85	*S*
19	51 ·60	51 ·03	50 ·38	49 ·54	48 ·92	*S*	49 ·15	49 ·97	50 ·85	51 ·55	51 ·87	51 ·65
20	51 ·63	*S*	*S*	49 ·49	48 ·85	48 ·75	49 ·19	50 ·00	50 ·87	51 ·55	*S*	51 ·79
21	51 ·60	50 ·98	50 ·33	49 ·45	48 ·85	48 ·79	49 ·22	*S*	50 ·90	51 ·62	51 ·85	51 ·65
22	51 ·55	50 ·97	50 ·25	...	*S*	48 ·75	49 ·24	50 ·05	50 ·97	51 ·66	51 ·80	51 ·64
23	*S*	50 ·97	50 ·24	49 ·40	48 ·83	48 ·77	49 ·30	50 ·05	50 ·98	*S*	51 ·82	51 ·63
24	51 ·53	50 ·93	50 ·22	*S*	48 ·84	48 ·80	*S*	50 ·08	51 ·00	51 ·67	51 ·82	51 ·60
25	51 ·51	50 ·92	...	49 ·35	48 ·83	48 ·82	49 ·30	50 ·12	*S*	51 ·68	51 ·83	Christ. Day
26	51 ·45	50 ·87	50 ·18	49 ·37	48 ·82	*S*	49 ·33	50 ·14	51 ·04	51 ·70	51 ·83	51 ·55
27	51 ·44	*S*	*S*	49 ·29	48 ·82	48 ·86	49 ·35	50 ·14	...	51 ·70	*S*	51 ·53
28	51 ·43	50 ·82	50 ·12	49 ·28	48 ·78	48 ·85	49 ·37	*S*	...	51 ·73	51 ·85	51 ·55
29	51 ·40		50 ·12	49 ·27	*S*	48 ·87	49 ·40	50 ·23	51 ·12	51 ·78	51 ·86	51 ·47
30	*S*		50 ·05	49 ·27	48 ·77	48 ·88	49 ·42	50 ·25	51 ·14	*S*	51 ·86	51 ·50
31	51 ·36		50 ·04		48 ·75		*S*	50 ·39		51 ·82		51 ·45

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

March 25, Good Friday, April 22, September 27, 28, and November 11, the instruments were not read.

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting on 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; in one instance the excess was 0° ·2, and in another case 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, except Sundays.

Days of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51 ·10	49 ·48	47 ·52	46 ·16	*S*	47 ·74	50 ·58	53 ·20	54 ·80	55 ·00	53 ·95	52 ·04
2	*S*	49 ·45	47 ·44	46 ·10	46 ·28	47 ·85	50 ·67	53 ·25	54 ·78	*S*	53 ·96	51 ·90
3	51 ·06	49 ·40	47 ·34	*S*	46 ·30	48 ·11	*S*	53 ·30	54 ·83	54 ·95	53 ·85	51 ·75
4	50 ·97	49 ·34	47 ·27	45 ·92	46 ·33	48 ·20	50 ·82	53 ·35	*S*	54 ·95	53 ·83	*S*
5	51 ·00	49 ·25	47 ·30	45 ·83	46 ·33	*S*	50 ·93	53 ·40	54 ·94	54 ·95	53 ·82	51 ·64
6	50 ·94	*S*	*S*	45 ·88	46 ·33	48 ·30	50 ·98	53 ·44	54 ·97	54 ·87	*S*	51 ·82
7	50 ·92	49 ·25	47 ·15	45 ·83	46 ·45	48 ·48	51 ·15	*S*	54 ·94	54 ·90	53 ·72	51 ·43
8	50 ·83	49 ·05	47 ·05	45 ·78	*S*	48 ·55	51 ·12	53 ·55	54 ·96	54 ·90	53 ·66	51 ·27

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

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
9	*S*	49·04	46·85	45·80	46·51	48·62	51·20	53·60	55·00	*S*	53·62	51·17
10	50·74	49·02	46·78	*S*	46·57	48·68	*S*	53·65	55·00	54·83	53·60	51·07
11	50·64	48·93	46·70	45·78	46·57	48·92	51·34	53·77	*S*	54·81	...	*S*
12	50·68	48·87	46·75	45·90	46·58	*S*	51·43	53·75	55·50	54·75	53·55	50·85
13	50·61	*S*	*S*	45·92	46·62	49·00	51·52	53·82	55·03	54·72	*S*	50·78
14	50·54	48·70	46·60	45·85	46·65	49·12	51·95	*S*	55·04	54·70	53·39	50·81
15	50·49	48·58	46·47	45·83	*S*	49·14	52·47	53·92	55·12	54·66	53·34	50·58
16	*S*	48·54	46·44	46·00	46·90	49·24	52·45	53·95	55·04	*S*	53·30	50·59
17	50·38	48·55	46·44	*S*	46·94	49·30	*S*	54·05	55·06	54·53	53·20	50·42
18	50·32	48·40	46·38	46·05	46·97	49·45	52·40	54·10	*S*	54·50	53·22	*S*
19	50·24	48·42	46·43	45·97	47·02	*S*	52·48	54·10	55·05	54·45	53·19	50·28
20	50·27	*S*	*S*	45·95	46·90	49·54	52·50	54·24	55·00	54·45	*S*	50·30
21	50·20	48·27	46·40	46·00	46·95	49·72	52·55	*S*	55·04	54·40	53·02	50·12
22	50·12	48·22	46·27	...	*S*	49·74	52·60	54·36	55·10	54·42	52·88	50·05
23	*S*	48·14	46·27	46·05	47·08	49·84	52·72	54·35	55·07	*S*	52·85	49·97
24	50·02	48·03	46·25	*S*	47·14	50·00	*S*	54·42	55·05	54·30	52·74	49·84
25	49·97	47·96	...	46·08	47·70	50·10	52·76	54·48	*S*	54·27	52·60	Christ. Day
26	49·83	47·89	46·22	46·20	47·27	*S*	52·90	54·48	55·04	54·24	52·58	49·65
27	49·74	*S*	*S*	46·10	47·35	50·30	52·85	54·55	...	54·15	*S*	49·55
28	49·70	47·60	46·19	46·18	47·45	50·37	52·90	*S*	...	54·10	52·38	49·52
29	49·65		46·26	46·27	*S*	50·45	52·95	54·65	55·04	54·08	52·29	49·34
30	*S*		46·14	46·33	47·58	50·53	53·04	54·74	55·04	*S*	52·19	49·28
31	49·54		46·10		47·68		*S*	54·75		54·01		49·16

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

May 25. The reading seems to be too high by 0°·5

September 12. The reading seems to be too high by 0°·5; probably it should be 55°·05.

October 1. The reading has been altered conjecturally from 54°·00 to 55°·00.

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean reading at noon was found to be of 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, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·28	46·64	43·28	43·30	*S*	51·68	...	58·00	58·85	56·75	54·20	48·30
2	*S*	46·58	43·20	43·45	46·30	51·80	55·15	58·10	58·80	*S*	54·17	48·20
3	49·20	46·49	43·10	*S*	46·48	52·00	*S*	58·20	58·70	56·55	53·97	48·20
4	49·10	46·38	43·02	43·67	46·60	52·02	55·54	58·30	*S*	56·46	53·80	*S*
5	49·18	46·20	43·04	43·72	46·85	*S*	55·58	58·30	58·60	56·30	53·72	48·22
6	49·13	*S*	*S*	44·00	47·05	52·10	55·69	58·40	58·50	56·02	*S*	48·10
7	49·10	46·10	42·95	44·20	47·30	52·27	55·83	*S*	58·40	55·90	53·50	48·02
8	48·97	45·88	43·00	44·40	*S*	52·33	55·90	58·50	58·30	55·74	53·38	47·87
9	*S*	45·80	43·00	44·67	47·54	52·40	56·00	58·60	58·20	*S*	53·28	47·82
10	48·79	45·81	43·20	*S*	47·64	52·50	*S*	58·75	58·10	55·45	53·22	47·78
11	48·59	45·70	43·38	45·07	47·60	52·93	56·40	59·00	*S*	55·38	...	*S*
12	48·58	45·62	43·58	45·22	47·62	*S*	56·67	59·00	58·00	55·13	53·00	47·60
13	48·48	*S*	*S*	45·31	47·60	53·03	56·80	59·10	57·90	55·09	*S*	47·55
14	48·39	45·38	43·70	45·34	47·67	53·39	57·43	*S*	57·90	55·07	52·48	47·50
15	48·28	45·20	43·85	45·40	*S*	53·58	57·85	59·15	58·00	55·05	52·28	47·20
16	*S*	45·10	44·00	45·53	47·88	53·68	57·92	59·20	57·90	*S*	52·08	47·13
17	48·19	45·06	44·08	*S*	47·98	53·87	*S*	59·20	57·85	55·00	51·80	46·90
18	48·09	44·82	44·19	45·63	48·18	53·97	58·00	59·15	*S*	54·97	51·71	*S*
19	47·95	44·75	44·29	45·60	48·38	*S*	57·95	59·10	57·80	54·85	51·52	46·58

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

Day of the Month, 1853.	January.	February.	March.	April.	May.	June	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
20	47·95	*S*	*S*	45·70	48·57	54·18	57·90	59·10	57·80	54·85	*S*	46·50
21	47·80	44·43	44·18	45·78	48·86	54·50	57·90	*S*	57·70	54·55	50·90	46·20
22	47·68	44·28	44·00	...	*S*	54·45	57·90	59·20	57·70	54·48	50·50	46·02
23	*S*	44·13	43·88	46·02	49·47	54·53	57·92	59·20	57·68	*S*	50·30	45·87
24	47·60	43·95	43·70	*S*	49·73	54·65	*S*	59·25	57·67	54·20	50·00	45·70
25	47·52	43·80	...	46·18	50·00	54·53	57·90	59·20	*S*	54·20	49·80	Christ. Day
26	47·37	43·70	43·68	46·34	50·25	*S*	57·90	59·15	57·63	54·20	49·30	45·38
27	47·24	*S*	*S*	46·27	50·58	54·33	57·90	59·10	...	54·20	*S*	45·20
28	47·12	43·28	43·47	46·25	50·78	54·92	57·80	*S*	...	54·10	48·58	45·18
29	47·00		43·44	46·25	*S*	55·05	57·95	59·00	57·00	54·10	48·58	44·92
30	*S*		43·35	46·25	51·34	55·18	57·95	58·95	56·90	*S*	48·42	44·80
31	46·77		43·32		51·50		*S*	58·90		54·26		44·60

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

From 1846, April, to 1847, December, this thermometer was read at every two hours, night and day (excepting on 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 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, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·70	42·80	38·38	40·70	*S*	54·60	...	60·80	59·84	56·40	52·70	44·22
2	*S*	42·50	38·28	41·60	46·35	54·30	58·50	61·00	59·68	*S*	52·52	44·74
3	47·02	42·12	38·17	*S*	46·50	54·30	*S*	61·37	59·50	55·47	52·20	44·42
4	47·00	42·00	38·20	42·50	47·78	54·23	58·40	61·70	*S*	54·80	52·05	*S*
5	46·95	41·90	38·44	43·20	48·18	*S*	58·60	61·89	59·03	54·30	51·92	43·97
6	46·90	*S*	*S*	43·85	48·29	54·50	59·00	61·98	59·10	54·15	*S*	43·97
7	46·58	41·95	39·71	44·45	48·34	54·70	59·52	*S*	58·98	54·05	51·61	44·11
8	46·20	41·80	40·53	44·90	*S*	54·90	60·10	61·90	58·90	54·00	51·70	44·12
9	*S*	41·70	40·87	44·90	48·00	55·40	60·70	62·00	58·80	*S*	51·64	44·18
10	45·67	41·70	41·17	*S*	47·36	55·90	*S*	62·08	58·77	54·10	51·08	44·08
11	45·45	41·60	41·38	44·58	47·10	56·60	61·00	62·15	*S*	54·05	...	*S*
12	45·74	41·42	41·79	44·75	47·15	*S*	60·87	62·15	58·68	54·12	49·69	43·38
13	45·90	*S*	*S*	44·92	47·20	57·20	60·92	62·20	58·63	54·20	*S*	42·88
14	45·92	40·80	42·10	44·70	47·50	57·13	61·11	*S*	58·72	54·30	49·00	42·70
15	45·67	40·47	42·40	44·52	*S*	56·90	61·22	62·10	58·50	54·41	48·70	42·47
16	*S*	40·20	42·38	44·53	48·57	57·00	60·33	61·90	58·40	*S*	48·30	42·22
17	45·08	40·00	42·27	*S*	49·30	57·50	*S*	61·78	58·50	54·09	47·90	41·70
18	44·85	39·60	41·88	44·94	50·18	57·78	59·78	61·58	*S*	53·52	47·35	*S*
19	44·40	39·43	41·39	45·30	50·94	*S*	59·60	61·50	58·68	53·10	46·55	41·08
20	44·39	*S*	*S*	45·67	51·40	57·77	59·67	61·55	58·40	53·10	*S*	40·90
21	44·73	38·90	40·50	45·87	51·40	57·50	59·78	*S*	58·38	52·53	45·65	40·58
22	44·85	38·73	40·10	...	*S*	57·20	59·90	61·94	58·25	52·50	45·28	40·38
23	*S*	38·60	40·00	45·85	52·60	57·10	60·20	61·87	58·13	*S*	44·87	40·28
24	44·28	38·47	39·88	*S*	52·98	57·38	*S*	61·80	58·00	53·17	44·30	40·20
25	43·94	38·38	...	45·57	53·50	57·70	60·40	61·50	*S*	53·42	44·00	Christ. Day
26	43·66	38·45	39·72	45·12	54·10	*S*	60·42	61·19	57·13	53·62	43·44	39·90
27	43·30	*S*	*S*	44·78	54·70	58·28	60·48	60·90	...	53·67	*S*	39·60
28	43·10	38·40	39·57	45·78	55·00	58·30	60·55	*S*	...	53·90	43·60	39·43
29	43·00		39·90	45·50	*S*	58·45	60·72	60·19	56·30	54·10	43·72	39·05
30	*S*		39·98	45·24	55·00	58·60	60·70	60·00	56·50	*S*	43·78	38·85
31	42·90		40·10		54·78		*S*	59·88		53·38		38·45

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

April 27. The reading seems to be erroneous.

From 1846, April, to 1847, December, this thermometer was read at 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 of 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, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	48·8	37·0	36·5	49·0	*S*	56·0	...	65·0	62·0	63·8	53·0	48·0
2	*S*	38·0	38·0	47·5	55·0	56·2	60·2	66·5	59·0	*S*	53·2	40·5
3	47·8	39·0	38·0	*S*	54·0	58·5	*S*	67·2	57·0	58·5	51·0	38·5
4	47·7	40·0	36·8	50·0	53·0	66·8	64·8	66·5	*S*	60·8	51·0	*S*
5	47·3	39·0	43·0	49·3	53·0	*S*	63·6	65·4	62·0	64·0	49·7	43·2
6	45·5	*S*	*S*	53·0	50·0	62·0	67·5	65·7	61·0	50·8	*S*	43·0
7	47·9	40·8	46·8	50·7	48·0	60·0	69·0	*S*	58·0	53·0	53·0	44·0
8	44·0	39·5	45·0	46·7	*S*	65·0	49·8	65·7	58·8	55·8	51·8	41·3
9	*S*	39·0	43·0	44·5	47·0	64·5	67·7	66·6	60·8	*S*	46·0	43·0
10	46·4	39·0	46·0	*S*	46·0	63·0	*S*	65·5	62·0	51·8	48·0	41·0
11	46·0	36·8	43·8	47·5	49·0	69·5	63·0	65·8	*S*	54·8	...	*S*
12	49·0	36·5	43·7	49·0	50·0	*S*	65·2	63·8	63·0	54·8	46·0	37·5
13	46·0	*S*	*S*	45·0	49·8	57·8	65·4	65·2	58·0	54·8	*S*	39·8
14	43·3	36·0	50·0	47·0	53·0	60·5	58·7	*S*	58·0	55·5	44·8	42·0
15	45·5	35·0	52·3	45·0	*S*	64·0	61·7	63·0	59·5	54·7	43·0	38·0
16	*S*	35·0	43·0	48·0	58·6	63·5	62·2	63·0	61·0	*S*	44·8	34·3
17	42·3	35·4	38 0	*S*	58·5	66·5	*S*	63·0	63·0	50·7	39·0	33·5
18	40·5	33·8	36·0	50·8	59·5	62·5	62·0	63·0	*S*	50·0	38·7	*S*
19	43·0	33·6	35·9	51·3	62·0	*S*	63·0	66·0	59·0	50·5	41·8	33·5
20	48·8	*S*	*S*	49·0	58·0	58·0	63·0	67·0	57·8	50·5	*S*	36·5
21	46·6	35·0	37·7	46·8	57·0	60·8	63·0	*S*	57·7	52·0	41·0	37·8
22	41·5	34·5	37·0	...	*S*	60·0	64·0	67·0	58·8	56·6	38·5	36·4
23	*S*	37·0	38·0	45·5	62·0	62·0	64·8	63·0	63·2	*S*	37·0	38·0
24	40·5	35·2	37·6	*S*	53·0	66·5	*S*	62·0	65·3	55·5	38·5	38·0
25	40·8	37·5	...	42·0	64·0	62·7	63·8	63·0	*S*	57·8	39·1	Christ. Day
26	40·0	38·5	37·2	44·6	63·0	*S*	63·0	62·0	64·2	57·5	41·8	31·3
27	39·0	*S*	*S*	44·0	66·7	64·0	64·0	61·5	...	57·2	*S*	34·0
28	42·0	36·0	43·0	49·0	63·0	63·3	64·8	*S*	...	58·0	42·0	33·6
29	41·0		50·7	40·0	*S*	63·4	64·0	55·0	59·0	54·0	41·5	30·0
30	*S*		43·0	50·0	58·8	63·5	63·0	61·0	58·0	*S*	48·0	35·8
31	41·0		45·5		57·5		*S*	62·0		50·0		34·0

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 the scales of the other Thermometers, at Noon on every day, except Sundays.

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	50·0	33·0	35·0	54·0	*S*	56·3	...	71·8	66·5	54·6	58·5	46·0
2	*S*	40·0	39·5	52·5	64·0	57·0	60·8	72·0	57·8	*S*	54·8	40·5
3	46·4	38·0	38·8	*S*	56·5	65·5	*S*	73·0	58·8	51·6	54·2	37·0
4	49·0	40·5	41·0	55·5	56·4	60·5	71·0	74·0	*S*	53·6	52·5	*S*
5	49·3	38·0	47·5	55·0	58·0	*S*	66·7	71·0	67·7	54·8	48·3	44·3
6	46·9	*S*	*S*	57·0	49·5	68·5	75·0	71·3	67·8	48·0	*S*	41·6
7	51·5	42·5	49·2	53·0	45·5	75·5	75·7	*S*	58·5	54·8	54·0	43·6
8	45·6	37·0	48·0	46·8	*S*	76·0	77·4	72·5	60·0	57·0	50·5	41·0
9	*S*	41·0	46·7	46·0	44·7	68·8	69·0	72·5	65·0	*S*	47·8	41·3
10	47·7	36·5	53·0	*S*	47·6	67·7	*S*	73·0	63·8	55·7	51·5	40·0
11	46·8	34·2	49·8	51·5	54·2	80·5	65·5	72·3	*S*	57·5	...	*S*
12	51·5	35·3	49·5	52·2	56·5	*S*	69·7	68·0	68·8	55·6	46·5	34·0
13	46·0	*S*	*S*	45·3	51·0	53·6	69·7	68·8	56·6	55·4	*S*	42·0
14	44·0	35·0	47·0	51·0	59·0	67·0	56·2	*S*	63·8	59·6	43·0	44·3
15	45·2	39·0	46·0	46·0	*S*	70·7	63·0	64·8	61·7	59·6	40·0	31·8
16	*S*	37·0	43·5	51·0	67·5	69·0	63·5	63·0	63·0	*S*	44·0	31·0
17	40·7	34·3	33·0	*S*	66·7	74·0	*S*	67·5	68·0	52·8	35·5	30·0

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

Day of the Month, 1853.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
18	40·8	33·0	33·8	54·8	69·6	63·8	64·5	64·8	*S*	53·8	42·5	*S*
19	47·0	35·8	36·3	54·8	69·0	*S*	64·8	73·0	66·5	50·7	47·5	30·5
20	51·8	*S*	*S*	50·5	64·8	58·5	66·7	70·5	58·5	51·7	*S*	34·9
21	47·6	34·8	37·5	45·5	64·0	62·6	67·7	*S*	63·5	54·5	43·5	34·5
22	40·0	34·8	39·7	...	*S*	64·5	66·5	73·2	62·5	60·8	35·5	34·0
23	*S*	38·5	38·8	44·0	70·5	68·5	70·7	63·5	61·5	*S*	34·6	37·5
24	39·7	35·8	39·0	*S*	72·8	78·0	*S*	66·4	58·0	57·8	40·5	36·8
25	39·7	38·8	...	39·5	74·0	63·0	69·2	66·2	*S*	61·7	39·1	Christ. Day
26	38·4	40·8	42·6	46·2	74·8	*S*	65·8	62·5	57·7	64·0	40·7	26·5
27	38·0	*S*	*S*	48·8	77·8	67·8	67·7	62·0	...	60·4	*S*	29·0
28	41·0	38·0	48·8	56·0	63·5	64·8	68·0	*S*	...	59·8	43·5	31·9
29	39·5		46·5	43·7	*S*	68·3	68·8	63·0	58·0	53·5	40·8	28·0
30	*S*		51·0	56·2	62·0	68·5	63·8	67·6	59·6	*S*	51·5	37·0
31	40·3		54·0		57·0		*S*	65·5		54·3		33·0

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	
1852.	Dec.	31.	12.	The direction of the wind was S.S.W.
1853.	Jan.	31.	12.	,, ,, S.E., which implies a direct motion of 292½°.
	Jan.	16.	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 January was 67½°.

		d	h	
1853.	Jan.	31.	12.	The direction of the wind was S.E.
	Feb.	28.	12.	,, ,, W.S.W., which implies a retrograde motion of 247½°.
	Feb.	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of February was 247½°.

		d	h	
1853.	Feb.	28.	12.	The direction of the wind was W.S.W.
	March	31.	12.	,, ,, S., which implies a retrograde motion of 67½°.
	March	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	21.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	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 retrograde motion in the month of March was 67½°.

		d	h	
1853.	March	31.	12.	The direction of the wind was S.
	April	30.	12.	,, ,, S.S.W., which implies a direct motion of 22½°.
	April	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	27.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of April was 1057½°.

		d	h	
1853.	April	30.	12.	The direction of the wind was S.S.W.
	May	31.	12.	,, ,, N., which implies a direct motion of 157½°.

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

		d	h	
1853.	May	3.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	26.	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 May was $877\frac{1}{2}°$.

		d	h	
1853.	May	31.	12.	The direction of the wind was N.
	June	30.	12.	,, ,, S.W., which implies a retrograde motion of 135°.
	June	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	20.	8.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	23.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	25.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	29.	8.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of June was 495°.

		d	h	
1853.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, S.W., which implies no change.
	July	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	27.	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 July was 720°.

		d	h	
1853.	July	31.	12.	The direction of the wind was S.W.
	August	31.	12.	,, ,, S., which implies a retrograde motion of 45°.
	August	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	7.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	18.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	22.	2.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	26.	10.	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 1035°.

		d	h	
1853.	August	31.	12.	The direction of the wind was S.
	Sept.	30.	12.	,, ,, S.S.E., which implies a retrograde motion of $22\frac{1}{2}°$.
	Sept.	5.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	5.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	21.	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 September was $337\frac{1}{2}°$.

		d	h	
1853.	Sept.	30.	12.	The direction of the wind was S.S.E.
	Oct.	31.	12.	,, ,, S.S.E., but the trace was on the next set of lines downwards, which implies a retrograde motion of 360°.
	Oct.	0.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Oct.	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

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

		d	h	
1853.	Oct.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Oct.	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Oct.	19.	1.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	27.	0.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct 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 1080°.

		d	h	
1853.	Oct.	31.	12.	The direction of the wind was S.S.E.
	Nov.	30.	12.	,, ,, S.S.E., but the trace was on the next set of lines downwards, which implies a retrograde motion of 360°.
	Nov.	0.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Nov.	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Nov.	4.	16.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	6.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Nov.	10.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	28.	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 November was 720°.

		d	h	
1853.	Nov.	30.	12.	The direction of the wind was S.S.E.
	Dec.	31.	12.	,, ,, W.S.W., which implies a direct motion of 90°.
	Dec.	2.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Dec.	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Dec.	18.	8.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Dec.	25.	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 90°.

The whole excess of retrograde motion during the year was 675°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1853.

1853, 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	1·7	1·8	2·1	2·1
February	1·0	0·8	1·5	1·0
March	1·4	1·4	1·5	1·0
April	3·1	2·9	3·2	3·0
May	1·5	1·4	1·5	1·4
June	2·7	2·6	2·8	2·7
July	6·1	5·2	5·5	5·3
August	2·2	2·1	2·8	2·3
September	2·4	2·2	2·2	2·1
October	4·6	3·8	4·2	4·5
November	1·5	1·4	1·9	1·5
December	0·4	0·5	0·8	0·7
Sums	28·6	26·1	30·0	27·6

The gauges at the Royal Observatory are read at 9^h P.M., and the monthly records for the Royal Observatory terminate at 9^h 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 the 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 9^h P.M. on the last day of the month.

At the end of February, April, June, and December, the gauge at the Royal Naval Schools was not read; but at the end of March, May, and July, the amounts accumulated in the two months were found to be $2^{in.}0$, $4^{in.}4$, and $8^{in.}0$ respectively, and those numbers have been divided proportionately to the falls for the separate months at the Royal Observatory. The fall for December is inferred to be $0^{in.}7$.