RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1856.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1856.)

ROYAL OBSERVATORY, GREENWICH.

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INDICATIONS

OF

MAGNETOMETERS.

1856.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1856, of Mr. James Glaisher, the Superintendant, and Mr. Thomas Downs; with three supernumerary assistants, to aid 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 1856, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two or three 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 25, February 29, March 1, April 6, 16, 21, 30, May 16, 20, June 13, 27, July 15, 26, 28, 30, August 13, 14, September 4, 25, 28, October 5, 13, 18, November 14, 29, December 31.

Observations were made of the Collimation of the Declination Magnetometer; of the Torsion-force of its Suspension skein; and of the Collimation of the Theodolite-Telescope, on 1855, December 27, 28, 29, 1856, January 2, May 20 and 21.

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER were made on 1856, January 5 and 6. The angle determined was 43°. 4′. Observations were made for the times of vibration and readings of the scale for different readings of the torsion-circle on the same days, 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°. 0′ (marked end West); and 230°. 30′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) was 144°. 0′.

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 0·0020524.

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 three or four times a week. The adopted time of vibration till March 31, was $16^s{\cdot}70$; from April 1 to August 20, $17^s{\cdot}45$; and from August 21 to the end of the year, $16^s{\cdot}43$. Observations for the time of vibration in a horizontal plane were made in 1853, 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 0·001392 till March 31; 0·001275 from April 1 to August 20; and 0·001438 from August 21 to the end of the year: and these numbers have been 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 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. 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 produce the original curves.

At the 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.
h m	° ′ ″	Jan. 1 h m		Jan. 1 h m		Jan. 1 h m	°	°
			(†)	0. 0	·02497	1. 40	47 ·0	48 ·0
		3. 10	·0998	0. 58	·02460	3. 40	49 ·0	50 ·0
		4. 4	·0996	3. 0	·02138	9. 40	50 ·0	51 ·0
		4. 26	·0998	5. 28	·01743	21. 40	50 ·0	51 ·0
		5. 0	·0992	5. 30	·01767			
		5. 10	·0988	8. 30	·01716			
		5. 21	·0992	14. 55	·01721			
		5. 27	·0989	21. 26	·01714			
		5. 42	·0998	22. 5	·01747			
		6. 23	·1001	23. 13	·01762			
		6. 44	·1000					
		6. 53	·0995					
		7. 57	·1001					
		8. 34	·1000					
		9. 21	·0997					
		10. 0	·1002					
		10. 23	·1004					
		10. 50	·1001					
		11. 15	·1002					
		12. 24	·1001					
			(†)					
		13. 14	·1003					
		15. 52	·1002					
		17. 47	·1007					
		19. 0	·1008					
		19. 9	·1006					
		19. 15	·1008					
		19. 21	·1007					
		19. 30	·1010					
		20. 33	·1007					
		20. 41	·1008					
		21. 30	·1003					
		22. 5	·1002					
			(†)					
		Jan. 2		Jan. 2		Jan. 2		
		0. 7	·0996	1. 0	·01804	1. 40	51 ·0	52 ·0
		0. 25	·0998	1. 53	·01778	3. 40	53 ·5	54 ·5
		1. 0	·0997	2. 9	·01720	9. 40	51 ·0	53 ·0
		1. 5	·0994	3. 55	{·01823	21. 40	50 ·5	51 ·5
		1. 18	·0992		{·01870			
		1. 48	·0997	6. 30	·01845			
		4. 15	·0995	9. 43	·01901			
		5. 33:	·0998	17. 15	·01817			
		7. 31	·0993	18. 50	·02141			
		7. 50	·0999	21. 0	·02308			
		8. 27	·0993	23. 59	·02342			
		8. 32	·0994					
		9. 0	·0999					
		9. 16	·0996					
		12. 5	·1005					
		12. 28:	·1002					
		15. 37	·1007					
		17. 7	·1011					
		20. 30	·1014					
		21. 30	·1010					
		22. 5	·1005					
		23. 11	·1002					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
h m	° ′ ″	Jan. 2 h m		h m		h m	°	°
		23. 47	·0996					
		23. 59	·1001					
Jan. 3		Jan. 3		Jan. 3		Jan. 3		
0. 0	21. 45. 40	0. 0	·1000	0. 0	·02342	1. 40	52 ·0	53 ·0
0. 26	45. 55	0. 48	·1006	2. 26	·02163	3. 40	53 ·5	54 ·5
0. 30	45. 20	1. 30	·1003	4. 35	·01901	9. 40	54 ·5	55 ·5
1. 38	46. 10	4. 17	·1000	5. 22	·01862	21. 40	51 ·5	52 ·0
1. 40	45. 30	5. 3	·0998	5. 25	·02003			
2. 55	44. 45	9. 22	·0998	7. 3	·01978			
3. 15	45. 10	9. 46	·0992	15. 37	·02104			
3. 26	44. 50	10. 0	·1000	23. 59	·02360			
4. 0	44. 50	10. 28	·1005					
4. 15	45. 10	10. 50	·1002					
4. 40	43. 35	12. 0	·1004					
6. 35	44. 0	13. 42	·1005					
7. 0	44. 40	16. 28	·1007					
7. 43	43. 15	19. 13	·1011					
8. 19	44. 30	20. 28	·1007					
	***	21. 0	·1005					
9. 35	44. 50	22. 30	·1008					
9. 47	39. 20	22. 46	·1006					
10. 29	41. 40							
10. 39	43. 15							
10. 48	42. 10							
11. 6	41. 55							
11. 43	43. 30							
11. 49	44. 15							
12. 13	43. 10							
12. 25	44. 40							
12. 50	44. 5							
12. 57	44. 35							
13. 4	44. 10							
13. 20	44. 5							
13. 57	42. 20							
14. 2	41. 40							
14. 15	42. 0							
15. 2	44. 0							
	***							
15. 52	44. 0							
16. 5	44. 30							
16. 25	44. 20							
16. 45	44. 50							
	***							
20. 9	44. 5							
	***							
20. 20	45. 15							
	***							
20. 36	44. 40							
	***							
20. 54	45. 0							
	***							
22. 23	45. 30							
	***							
22. 32	44. 30							
23. 14	45. 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.

The Declination Magnet was under adjustment till January 3.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 4				Jan. 4		Jan. 4		
h m	° ′ ″	h m		h m		h m	°	°
0. 52	21. 47. 30			0. 0	·02360	1. 40		55 ·0
0. 59	46. 50			1. 7	·02321	3. 40		55 ·0
	***			3. 20	·02198	9. 40		55 ·5
1. 46	47. 40			4. 41	·02104	21. 40		53 ·0
2. 15	45. 0			5. 1	·02101			
5. 5	44. 0			5. 5	·02245			
	***			6. 40	·02206			
9. 15	44. 20			18. 45	·02497			
	***			23. 59	·02620			
9. 32	41. 50							
	***							
9. 45	43. 10							
	***							
10. 17	41. 30							
	***							
10. 38	43. 20							
	***							
11. 37	44. 20							
	***							
16. 52	45. 30							
21. 43	44. 55							
22. 15	44. 15							
22. 30	45. 0							
22. 54	45. 0							
23. 31	45. 25							
23. 43:	47. 5							
23. 59	46. 0							
Jan. 5		Jan. 5		Jan. 5		Jan. 5		
0. 0	21. 46. 0	2. 46	·1005	0. 0	·02620	1. 40		54 ·0
0. 55	47. 20	2. 55	·1007	2. 55	·02441	3. 40	54 ·0	55 ·0
1. 43:	46. 30	3. 30	·1004	6. 27	·02117	9. 40	55 ·0	55 ·5
2. 3	48. 0	5. 3	·1000	8. 24	·02088	23. 5	51 ·5	52 ·5
	***	7. 28	·1005	8. 28	·02179			
2. 54	43. 10	8. 30	·1007	16. 10	·02196			
	***	9. 15	·1005	23. 47	·02314			
3. 52	46. 30	10. 40	·1002					
	***	11. 30	·1006					
4. 31	45. 0	12. 5	·1007					
4. 37	46. 0		(†)					
	***	14. 33	·1006					
6. 15	42. 15		***					
	(†)	16. 0	·1005					
6. 30	45. 39*	19. 15	·1007					
21. 40	44. 57*	21. 14	·1009					
		23. 59	·1007					
Jan. 6		Jan. 6		Jan. 6		Jan. 6		
0. 25	21. 46. 10	0. 9	·1010	0. 5	·02314	6. 30	51 ·5	52 ·0
	***	2. 11	·1012	5. 4	·02376	21. 40	49 ·0	50 ·0
1. 34	47. 35	3. 8	·1014	14. 40	·02414			
	***	6. 32	·1012	18. 44	·02560			
2. 36	46. 25	9. 58	·1009	23. 14	·02668			
	***	11. 56	·1006	23. 43	·02644			
2. 55:	45. 0	12. 47	·1009					
	***	13. 50	·1011					
12. 16	44. 20	15. 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.
Jan. 6		Jan. 6						
h m	° ′ ″	h m		h m		h m	°	°
13. 16	21. 45: 0	15. 50	·1016					
	***	20. 4:	·1018					
22. 53	44. 30	21. 16	·1012					
22. 58	44. 50	22. 31	·1006					
23. 5	44. 15	22. 47	·1004					
23. 41	46. 0	22. 53	·1006					
		23. 38	·1005					
Jan. 7		Jan. 7		Jan. 7		Jan. 7		
1. 40	21. 46. 48*	0. 6	·1002	0. 13	·02161	1. 40	52 ·0	52 ·5
3. 40	44. 12*	0. 47	·1008	2. 0	·02080	3. 40	54 ·0	55 ·0
9. 40	45. 11*	2. 46	·1003	2. 27	·02018	9. 40	55 ·0	56 ·0
21. 40	46. 49*	3. 13	·1001	3. 46	·02012	21. 45	49 ·0	51 ·0
		3. 59	·1000		·02044			
		4. 36	·1002	7. 7	·01948			
		5. 0	·0998		·02098			
		5. 29	·0996	8. 11	·02095			
		6. 0	·0998	9. 40	·02168			
		7. 14	·1000	13. 15	·02317			
		7. 30	·1003	17. 17	·02481			
		8. 6	·1000		·02553			
		9. 14	·0997	21. 50	·02486			
		9. 27	·0995	22. 10	·02450			
		10. 0	·0994	23. 59	·02500			
		10. 7	·0996					
		10. 52	·0999					
		11. 15	·0996					
		12. 5	·0998					
		12. 32	·1002					
		13. 53	·1004					
		14. 8	·1000					
		14. 29	·1005					
		14. 36	·1001					
		15. 47	·1005					
		17. 0	·1009					
		17. 29	·1012					
		21. 0	·1015					
		21. 28	·1013					
		21. 50	·1010					
		22. 14	·1008					
		22. 30	·1004					
		23. 19	·1002					
		23. 59	·1003					
Jan. 8		Jan. 8		Jan. 8		Jan. 8		
0. 0	21. 46. 20	0. 0	·1004	0. 0	·02500	1. 40	51 ·5	52 ·5
	***	1. 20	·1008	2. 42	·02416	3. 40	52 ·5	53 ·0
1. 19	47. 35	2. 5	·1002	5. 30	·02191	9. 0	53 ·0	54 ·0
	***	2. 29	·0999	7. 44	·02080	21. 40	48 ·0	50 ·0
2. 12	45. 20	2. 57	·1001		·02202			
	***	3. 35	·1004	10. 48	·02196			
3. 32	43. 5	4. 33	·1006	16. 10	·02360			
3. 42	43. 40	4. 44	·1002	16. 41	·02430			
4. 0	43. 50	5. 18	·0998		·02468			
4. 7	45. 5	7. 3	·1001	23. 59	·02451			
4. 29	45. 50	10. 14	·1004					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.
January 4. The Horizontal Force Magnet was under adjustment.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 8		Jan. 8						
h m	° ′ ″	h m		h m		h m	°	°
4. 32	21. 44. 5	11. 34	·1002					
4. 52	43. 20	13. 20	·1005					
7. 17	44. 30	15. 30	·1007					
7. 26	44. 55	16. 43	·1010					
	***	17. 30	·1013					
10. 45	45. 0	17. 58	·1015					
	***	18. 49	·1018					
11. 0:	45. 20	19. 45	·1016					
	***	20. 0:	·1018					
11. 25	44. 30	20. 47	·1015					
	***	21. 15	·1013					
13. 19	47. 15	21. 40	·1009					
	***	22. 12	·1006					
20. 55	46. 20	23. 15	·1004					
	***	23. 34	·1004					
22. 12	44. 30							
	***							
23. 59	47. 25							
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 0	21. 47. 30	0. 45	·1004	0. 0	·02451	1. 40	49 ·0	50 ·0
0. 50	48. 0	0. 55	·1008	2. 17	·02492	3. 40	49 ·0	51 ·0
0. 59	49. 30	1. 25	·1014	3. 50	·02448	9. 40	49 ·0	50 ·0
1. 5	49. 0	1. 58:	·1011	11. 22	·02416	21. 40	45 ·0	46 ·0
1. 22	49. 50	2. 35	·1015	15. 40	·02430			
1. 32	49. 30	3. 30	·1011	23. 59	·02300			
1. 38	47. 40	3. 54	·1008					
4. 2	44. 20	4. 17	·1011					
5. 45	46. 10	4. 36	·1005					
5. 50	45. 30	6. 15	·1007					
7. 12	45. 0	7. 15	·1004					
7. 24	43. 0	7. 28	·1002					
7. 32	42. 45	7. 50	·1006					
7. 36	42. 10		(†)					
7. 45	42. 30	23. 18	·1013					
7. 48	42. 15	23. 59	·1010					
8. 21	44. 20							
8. 27	44. 0							
9. 2	45. 15							
	***							
13. 9	45. 30							
	***							
13. 32	46. 30							
	***							
13. 49	45. 0							
	***							
14. 15	46. 30							
	***							
21. 43	45. 50							
	***							
22. 17	44. 10							
	***							
22. 58	44. 30							
23. 59	45. 0							
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
0. 0	21. 45. 10	0. 0	·1010	0. 0	·02300	1. 40	47 ·1	47 ·0
	***	1. 4	·1012	0. 58	·02303	3. 40	49 ·0	50 ·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.
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
h m	° ′ ″	h m		h m		h m	°	°
3. 4	21. 47. 20	2. 25	·1009	2. 30	·02246	9. 10	49 ·0	50 ·0
	***	4. 21	·1006	3. 43	·02122	21. 40	41 ·0	42 ·0
3. 18	47. 15	6. 15	·1001	5. 30	·01906			
	***	8. 0	·1007		·01807			
5. 50	44. 30	9. 29	·1007	7. 0	·01958			
7. 52	44. 40	14. 16:	·1024	8. 20	·01961			
8. 10	45. 15	15. 2	·1026	14. 10	·02290			
9. 0	46. 15	17. 0	·1030	16. 0	·02300			
9. 30	46. 10	17. 35	·1033	20. 0	·02292			
9. 45	45. 5	18. 33	·1035	21. 50	·02290			
9. 55	46. 5	20. 6	·1034	23. 59	·02317			
10. 1	46. 0	20. 45	·1032					
10. 12	46. 5	21. 27	·1029					
10. 17	46. 30	22. 14	·1020					
10. 29	46. 15	23. 59	·1017					
	***							
13. 19	46. 30							
	***							
15. 17	43. 50							
	***							
15. 45	44. 0							
	***							
15. 58	44. 50							
16. 45	45. 0							
	***							
17. 17	47. 40							
	***							
17. 28	47. 0							
	***							
18. 35	46. 30							
21. 27	46. 40							
21. 32	47. 0							
21. 42	47. 0							
21. 47	45. 30							
22. 43	45. 10							
23. 31	45. 15							
23. 59	46. 0							
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 0	21. 46. 0	0. 0	·1017	0. 0	·02317	1. 40	43 ·0	43 ·8
0. 43	46. 40	0. 46	·1020	1. 12	·02313	3. 40	45 ·0	46 ·0
1. 7	46. 30	1. 30	·1024	2. 20	·02247	9. 40	46 ·0	47 ·0
2. 30	44. 30	2. 12	·1026	5. 24	·01949	21. 50	41 ·5	43 ·0
2. 46	44. 15	3. 0	·1023	7. 0	·01831			
3. 3	43. 35	3. 33	·1021	10. 13	·01680			
3. 56	44. 30	4. 15	·1017	16. 0	·01758			
4. 8	43. 0	4. 47	·1015	18. 14	·01977			
	***	8. 2	·1018	23. 59	·02143			
4. 20	43. 10	9. 46	·1020					
4. 29	44. 15	10. 31	·1022					
4. 34	44. 10	12. 0	·1023					
5. 14	45. 35	14. 21	·1025					
5. 20	46. 0	15. 17	·1029					
5. 28	45. 40	15. 45	·1034					
5. 37	46. 10	16. 34	·1032					
7. 10:	44. 15	17. 0	·1036					
8. 21	45. 10	18. 32	·1035					
9. 8	45. 0	20. 46:	·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.	Readings of Thermometers. Of V. F. Magnet.
Jan. 11		Jan. 11						
h m	° ′ ″	h m		h m		h m	°	°
13. 7	21. 46. 30	21. 15	·1034					
	***	21. 49	·1028					
14. 3	46. 0	22. 30	·1023					
14. 46	46. 55	23. 0	·1021					
15. 3	46. 30	23. 59	·1024					
15. 21	49. 0							
16. 12	45. 5							
17. 45	47. 25							
	***							
18. 53	47. 40							
	***							
21. 10	46. 55							
	***							
21. 41	44. 30							
	***							
23. 59	46. 0							
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	21. 45. 30	0. 0	·1024	0. 0	·02143	1. 40	44 ·5	46 ·0
0. 26	47. 30	0. 22	·1027	2. 0	·02040	3. 40	47 ·0	48 ·0
0. 43	47. 20	2. 10	·1024	4. 16	·01717	9. 40	45 ·0	46 ·0
0. 51	47. 20	3. 14	·1018	4. 27	·01748	23. 15	37 ·0	38 ·0
1. 37	45. 30	4. 6	·1016	8. 12	·01680			
	***	4. 22	·1018	10. 32	·01776			
3. 13	43. 50	4. 35	·1010	19. 1	·02282			
3. 40	44. 35	4. 45	·1004	23. 28	·02270			
	***	5. 0	·1007					
3. 57	48. 0	5. 12	·1003					
	***		***					
4. 13	47. 50	5. 45	·0999					
	***	6. 21	·1010					
4. 28	50. 0	6. 30	·1013					
	***	6. 51	·1017					
4. 47	48. 25	7. 10	·1020					
5. 1	51. 10	7. 45	·1025					
	***	8. 14	·1027					
5. 10	50. 30	8. 53	·1030					
	***	9. 15	·1027					
5. 23	52. 55	10. 22	·1024					
	***	11. 0	·1022					
5. 38	52. 30	11. 33	·1020					
	***	11. 45	·1026					
5. 48	50. 40	12. 7	·1032					
7. 11	46. 0	12. 15	·1037					
	***	12. 24	·1044					
8. 17	45. 15	12. 30	·1039					
	***	12. 38	·1031					
8. 29	46. 10	13. 16	·1028					
	***	13. 47	·1032					
8. 57	45. 5	14. 5	·1035					
	***	15. 30	·1039					
10. 3	46. 20	16. 20	·1043					
	***	16. 58	·1044					
10. 20	43. 30	19. 6	·1041					
	***	20. 31	·1045					
10. 33	45. 0	21. 45	·1040					
	***	22. 15	·1036					
11. 16	46. 20	22. 26	·1038					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 12		Jan. 12						
h m	° ′ ″	h m		h m		h m	°	°
11. 32	21. 45. 0	22. 40	·1035					
	***	23. 30	·1037					
11. 45	45. 20	23. 59	·1038					
	***							
12. 3	43. 30							
	***							
12. 30	48. 0							
	***							
12. 49	45. 50							
	***							
14. 12	47. 20							
14. 19	46. 20							
	***							
15. 5	47. 10							
	***							
19. 11	46. 0							
	***							
22. 9	53. 30							
	***							
22. 51	52. 40							
23. 21	51. 0							
23. 36	50. 0							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	21. 49. 10	0. 0	·1038	0. 0	·02195	9. 42	41 ·5	42 ·5
0. 40	52. 10	0. 30	·1042	1. 52	·02262	21. 40	36 ·0	37 ·0
1. 5	51. 20	1. 5	·1034	3. 28	·02238			
1. 16	52. 35	1. 28	·1032	6. 10	·02031			
1. 38	55. 0	2. 50	·1035	8. 55	·01874			
1. 57	51. 25	3. 47	·1031	14. 43	·01969			
2. 15	52. 10	4. 6	·1028	18. 22	·02228			
2. 26	49. 20	4. 48	·1026	23. 59	·02185			
2. 35	46. 40	5. 42	·1022					
	***	6. 14	·1017					
3. 18	45. 30	6. 31	·1014					
	***	7. 0	·1019					
3. 43	45. 45	7. 15	·1025					
3. 52	47. 10	7. 46	·1028					
	***	8. 6	·1024					
5. 23	46. 30	8. 30	·1028					
5. 45	43. 45	8. 46	·1025					
	***	9. 15	·1033					
6. 9	45. 30	10. 24	·1030					
6. 18	45. 10	11. 0	·1032					
6. 33	43. 25	11. 54	·1034					
6. 40	43. 40	13. 0	·1038					
7. 56	42. 30	13. 32	·1022					
8. 13	42. 5	13. 45	·1026					
	***	14. 32	·1024					
8. 29	44. 25	15. 5	·1031					
	***	15. 42	·1036					
8. 51	41. 25	16. 30	·1038					
9. 16	45. 30	18. 0	·1043					
9. 30	46. 0	18. 33	·1045					
9. 47	45. 0	21. 0	·1040					
	***	21. 29	·1038					
12. 1	47. 20	22. 30	·1033					
	***	22. 45	·1031					

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.
Jan. 13		Jan. 13						
h m	° ′ ″	h m		h m		h m	°	°
12. 12	21. 48. 30	23. 38	·1025					
	***	23. 54	·1020					
12. 36	47. 20	23. 59	·1022					
	***							
12. 44	47. 50							
	***							
13. 12	46. 20							
	***							
13. 44	47. 50							
	***							
13. 50	47. 20							
	***							
14. 2	48. 30							
	***							
14. 26	48. 30							
	***							
14. 34	46. 30							
	***							
15. 40	48. 0							
	***							
15. 44	47. 15							
	***							
21. 46	49. 5							
22. 17	46. 35							
23. 59	48. 50							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 0	21. 48. 50	0. 0	·1023	0. 0	·02185	1. 40	39 ·5	40 ·0
0. 55	48. 25	1. 50	·1025	1. 45	·02097	3. 40	43 ·5	45 ·0
	***		***	2. 59	·01880	9. 40	45 ·0	47 ·0
1. 37	48. 0	2. 31	·1019	3. 50	·01690	21. 40	38 ·0	40 ·0
1. 44	49. 0	2. 48	·1021	4. 15	·01720			
1. 52	47. 55	3. 30	·1018	4. 52	·01705			
1. 58	48. 5	4. 30	·1025	7. 3	·01712			
	***	4. 51	·1022	8. 20	·01670			
3. 35	45. 0	5. 32	·1015	10. 24	·01721			
3. 51	42. 20	6. 0	·1012	10. 38	·01777			
4. 7	44. 30	6. 22	·1012	19. 0	·02317			
5. 0	43. 40	6. 43	·1006	22. 42	·02300			
5. 24	45. 0	6. 50	·1009	23. 46	·02311			
	***	7. 15	·1005					
5. 46	44. 0	7. 40	·1012					
5. 56	45. 0	7. 46	·1016					
6. 29	44. 30	7. 57	·1013					
6. 45	40. 30	8. 6	·1018					
7. 24	44. 40	8. 15	·1010					
7. 33	40. 0	8. 22	·1006					
7. 46	43. 50		***					
7. 56	39. 45	9. 15	·1015					
8. 8	44. 0	9. 32	·1017					
	***	11. 3	·1021					
8. 23	43. 0	12. 35	·1026					
	***	12. 47	·1037					
9. 1	46. 0	13. 0	·1032					
	***	13. 15	·1026					
11. 15	44. 50	14. 0	·1030					
	***	15. 10	·1035					
12. 5	46. 0	16. 16	·1037					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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						
h m	° ′ ″	h m		h m		h m	°	°
12. 39	21. 45. 30	17. 30	·1040					
	***	18. 42	·1043					
13. 4	44. 5	20. 14	·1039					
	***	20. 33	·1037					
13. 40	46. 30	20. 46	·1035					
	***	21. 12	·1038					
14. 20	46. 30	21. 50	·1036					
	***	22. 2	·1033					
14. 35	45. 20	22. 30	·1031					
	***	23. 30	·1027					
15. 47	46. 0							
	***							
16. 17	45. 30							
	***							
16. 51	46. 30							
	***							
19. 32	46. 0							
	***							
19. 51	45. 30							
	***							
20. 47	46. 35							
21. 3	48. 45							
21. 18	47. 50							
21. 28	46. 20							
	***							
23. 5	46. 30							
23. 28	47. 0							
23. 59	46. 20							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 0	21. 46. 30	0. 5	·1027	0. 5	·02340	1. 40	40 ·5	42 ·0
	***	0. 54	·1023	0. 50	·02318	3. 40	43 ·1	45 ·0
0. 28	45. 5	1. 18	·1024	1. 30	·02300	9. 40	46 ·5	47 ·0
	***		(†)	2. 49	·02201	21. 40	44 ·0	46 ·0
0. 57	44. 40	3. 5	·1019	4. 10	·02000			
	***	3. 17	·1015	5. 53	·01703			
1. 30	48. 15	3. 30	·1022	6. 50	·01697			
1. 43	46. 35	3. 40	·1026	7. 48	·01695			
1. 46	47. 5	4. 14	·1023	8. 0	·01708			
1. 54	45. 30	4. 40	·1020	8. 6	·01692			
2. 3	46. 20	5. 8	·1020	8. 16	·01698			
2. 12	45. 40	5. 40:	·1023	8. 26	·01681			
2. 49	44. 0	7. 8	·1019	10. 52	·01684			
	***	7. 30	·1003	11. 10	·01650			
3. 1	46. 50	7. 40	·1002	13. 37	·01647			
3. 25	43. 35	7. 50	·1007	14. 30	·01620			
	***	8. 7	·1026	18. 33	·01674			
3. 53	45. 0	8. 14	·1030	21. 27	·01671			
4. 13	44. 20	8. 38	·1015	22. 54	·01715			
4. 21	45. 5	8. 50	·1011	23. 59	·01713			
5. 13	43. 40	9. 15	·1014					
	***	9. 23	·1017					
6. 30	45. 15	9. 46	·1019					
7. 16	46. 10	10. 52	·1026					
7. 31	42. 0	11. 15	·1018					
7. 54	41. 30	13. 44	·1025					
8. 5	37. 20	15. 30	·1022					
8. 16	41. 0	17. 3	·1028					
	***							

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.
Jan. 15		Jan. 15						
h m	° ′ ″	h m		h m		h m	°	°
8. 31	21. 41. 5	18. 50	·1031					
8. 39	39. 15	20. 36	·1026					
8. 45	40. 5		***					
8. 51	39. 55	21. 23	·1024					
	***		***					
9. 21	46. 25	23. 0	·1021					
	***		***					
10. 26	43. 0	23. 33	·1017					
	***							
11. 2	46. 0							
	***							
11. 45	46. 30							
	***							
12. 10	49. 25							
	***							
12. 43	49. 0							
12. 50	47. 40							
	***							
13. 10	50. 0							
	***							
13. 20	48. 25							
	***							
13. 47	49. 0							
	***							
14. 10	45. 30							
	***							
15. 25	43. 30							
	***							
19. 48	45. 25							
	***							
20. 25	47. 25							
	***							
21. 9	46. 30							
21. 18	45. 0							
21. 34	45. 40							
	***							
22. 28	45. 0							
	***							
22. 46	45. 15							
22. 54	46. 10							
	***							
23. 25	44. 0							
	***							
23. 47	45. 45							
Jan. 16		Jan. 16		Jan. 16		Jan. 16		
0. 32	21. 46. 0	0. 11	·1010	0. 0	·01713	1. 40	48 ·0	49 ·0
	***	1. 32	·1010	0. 33	·01673	3. 40	49 ·5	50 ·5
3. 13	45. 35	2. 5	·1014		·01748	9. 40	51 ·0	51 ·0
3. 45	46. 25	3. 30	·1014	3. 0	·01741	21. 40	47 ·0	48 ·0
3. 55	46. 20	4. 28	·1018	4. 28	·01760			
4. 17	46. 25	4. 45	·1015	5. 15	·01756			
4. 29	45. 0	5. 30	·1011	6. 3	·01772			
4. 32	44. 15	6. 18	·1006	6. 18	·01803			
	***	7. 10	·1012	9. 33	·01798			
5. 24	45. 10		***	13. 56	·01872			
5. 30	43. 30	9. 0	·1007	18. 30	·02081			
5. 36	44. 45	9. 18	·1019	21. 48	·02282			
	***			23. 33	·02346			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 16		Jan. 16		Jan. 16				
h m	° ′ ″	h m		h m		h m	°	°
6. 15	21. 44. 30	9. 28	·1012	23. 59	·02357			
6. 30	42. 50	10. 27	·1015					
8. 24	45. 30	10. 37	·1014					
8. 31	45. 15	10. 46	·1017					
8. 43	45. 30	11. 0	·1013					
9. 11	36. 50	11. 29	·1016					
9. 28	41. 0	13. 40	·1020					
	***	16. 7	·1023					
9. 56	42. 0	18. 2	·1027					
	***	19. 10	·1031					
10. 15	44. 0	19. 54	·1028					
	***	20. 0	·1030					
12. 6	46. 20		***					
	***	21. 48	·1026					
16. 5	47. 0	22. 35	·1024					
	***	23. 29	·1020					
19. 3	49. 40	23. 59	·1018					
	***							
19. 45	46. 10							
	***							
21. 24	46. 30							
	***							
22. 10	45. 0							
	***							
23. 59	46. 55							
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 0	21. 47. 0	0. 0	·1018	0. 10	·02319	1. 40	49 ·0	51 ·0
0. 20	47. 10	1. 5	·1014	2. 17	·02221	3. 40	51 ·0	52 ·0
0. 54	46. 30	5. 30	·1016	3. 10	·02140	9. 40	52 ·5	53 ·0
1. 32	47. 40	7. 0	·1015	5. 46	·01803	21. 40	51 ·5	53 ·0
	***	9. 30	·1018		·01861			
2. 13	46. 10	9. 55	·1019	8. 15	·01792			
	***	10. 10	·1017	23. 57	·01842			
3. 12	45. 30	10. 22	·1020					
	***	10. 40	·1016					
3. 54	46. 30	11. 21	·1018					
	***	12. 49	·1016					
4. 16	45. 0	14. 45	·1018					
	***	15. 17	·1021					
11. 45	44. 40	16. 1	·1024					
	***	19. 15	·1026					
12. 7	45. 15	19. 45	·1022					
	***	21. 0	·1018					
13. 31	45. 30	22. 13	·1016					
	***	22. 59	·1013					
13. 45	47. 15	23. 59	·1011					
	***							
15. 50	44. 50							
15. 59	45. 40							
	***							
17. 29	44. 30							
	***							
21. 17	44. 0							
	***							
21. 30	43. 0							
	***							
23. 31	45. 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.
Jan. 17								
h m	° ′ ″	h m		h m		h m	°	°
23. 39	21. 46. 30							
23. 46	46. 15							
23. 54	47. 30							
23. 59	47. 5							
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 0	21. 47. 10	0. 0	·1011	0. 19	·01841	1. 40	54 ·0	55 ·0
0. 22	48. 0	0. 30	·1014	4. 30	·01877	3. 40	55 ·5	56 ·5
0. 44	47. 10	1. 23	·1016	9. 8	·01850	9. 40	55 ·5	56 ·0
1. 22	48. 0	2. 26	·1006	9. 37	·01822	21. 40	51 ·5	53 ·0
2. 10	47. 25	2. 59	·1002	14. 33	·01950			
3. 16	48. 0	3. 30	·1002	21. 3	·02198			
	***	4. 17	·1009	23. 30	·02337			
4. 3	47. 30	4. 30	·1006	23. 52	·02340			
	***	5. 20	·1007					
4. 17	46. 30	5. 47	·1000					
	***	6. 22	·1003					
6. 30	45. 45	7. 37	·1005					
	***	7. 44	·1002					
8. 42	45. 5	8. 30	·1007					
	***	8. 53	·1004					
8. 59	40. 50	9. 15	·1032					
	***	9. 30	·1010					
9. 12	41. 30	9. 47	·1016					
	***	10. 1	·0998					
9. 20	44. 45	10. 15	·1004					
9. 40	37. 0	10. 36	·1007					
	***	11. 6	·1002					
10. 30	39. 25	11. 45	·1007					
	***	12. 14	·1011					
10. 47	41. 10	12. 30	·1014					
	***	14. 31	·1012					
11. 9	39. 15	15. 6	·1014					
	***	16. 0	·1022					
11. 37	44. 40	16. 22	·1018					
	***	17. 15	·1019					
12. 54	45. 30	18. 51	·1022					
13. 5	44. 10	19. 10	·1026					
	***	20. 20	·1020					
14. 8	46. 0	21. 0	·1017					
	***		***					
14. 30	43. 5	23. 50	·1016					
	***							
15. 5	46. 20							
	***							
15. 25	51. 0							
	***							
16. 3	48. 20							
	***							
16. 17	48. 5							
	***							
16. 40	46. 0							
	***							
17. 36	46. 30							
	***							
17. 47	45. 40							
	***							
18. 15	45. 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. 18								
h m	° ′ ″	h m		h m		h m	°	°
18. 31	21. 44. 0							
	***							
19. 0	48. 0							
	***							
19. 32	47. 20							
	***							
19. 39	46. 5							
	***							
20. 15	45. 0							
	***							
21. 12	48. 0							
	***							
22. 20	45. 0							
	***							
23. 8	45. 0							
	***							
23. 48	47. 0							
23. 59	47. 20							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 0	21. 47. 40	0. 0	·1011	0. 0	·02340	1. 40	53 ·0	54 ·0
0. 8	48. 0	1. 20	·1013	2. 20	·02314	3. 40	54 ·0	55 ·0
0. 16	47. 15	2. 50	·1014	4. 13	·02201	9. 40	54 ·2	55 ·5
0. 59	47. 50		***	5. 35	·02047	23. 15	52 ·0	53 ·0
1. 17	47. 40	3. 47	·1010	7. 57	·01917			
1. 35	46. 40		***	9. 30	·01877			
2. 55	46. 0	5. 7	·1012	10. 37	·01875			
3. 48	46. 40	5. 30	·1006	20. 0	·02231			
4. 43	46. 10	5. 46	·1010	22. 34	·02290			
4. 50	45. 30	6. 15	·1006	23. 54	·02307			
5. 13	46. 0	6. 45	·1011					
6. 37	47. 20	8. 0	·1011					
6. 46	48. 0	8. 20	·1012					
6. 58	47. 0	10. 0	·1014					
	***	10. 29	·1016					
10. 15	45. 0	10. 56	·1011					
	***	12. 30	·1013					
13. 8	43. 30	15. 15	·1015					
	***	16. 0	·1018					
13. 16	44. 40	17. 14	·1020					
	***	20. 6	·1022					
13. 28	44. 0	21. 15	·1016					
	***	21. 43	·1013					
13. 38	45. 45	22. 30	·1009					
	***	23. 14	·1011					
14. 22	46. 30	23. 59	·1009					
	***							
15. 13	48. 0							
	***							
16. 44	46. 10							
	***							
22. 12	46. 15							
22. 17	47. 20							
22. 29	46. 40							
	***							
23. 36	47. 30							
23. 47	49. 0							
23. 59	49. 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.
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 49. 15	0. 0	·1009	0. 0	·02311	9. 40	52· 5	53 ·5
0. 59	50. 30	1. 30	·1014	0. 30	·02320	21. 40	51 ·0	53 ·0
1. 10	49. 40	2. 15	·1015	3. 20	·02292			
1. 43	50. 30		***	7. 43	·02143			
	***	4. 20	·1014	9. 45	·02117			
1. 59	48. 45	5. 15	·1007	10. 24	·02064			
2. 49	47. 10	5. 46	·1012	14. 45	·02033			
3. 4	47. 50	6. 0	·1010	23. 50	·02090			
4. 34	48. 0	6. 21	·1012					
4. 58	44. 30	7. 0	·1003					
5. 19	43. 35	7. 36	·1008					
5. 35	45. 40		***					
5. 55	44. 50	8. 30	·1005					
6. 44	47. 15	8. 55	·1012					
	***	9. 10	·1008					
7. 52	44. 0	9. 43	·1016					
	***	10. 18	·1013					
9. 8	43. 40	13. 0	·1011					
	***	13. 29	·1014					
9. 59	45. 35	14. 21	·1016					
	***	16. 10	·1019					
10. 15	44. 45	19. 30	·1017					
	***	21. 44	·1018					
11. 32	46. 0	23. 18	·1013					
	***		(†)					
11. 59	47. 20							
12. 23	47. 0							
12. 32	47. 30							
13. 2	46. 50							
13. 46	46. 40							
14. 10	47. 15							
14. 30	46. 10							
14. 40	47. 30							
17. 15	47. 30							
18. 30:	47. 0							
19. 51	46. 30							
21. 0	45. 0							
21. 6	43. 50							
21. 21	44. 30							
	***							
21. 39	41. 15							
	***							
21. 59	45. 20							
	***							
22. 15	44. 40							
	***							
23. 0	45. 30							
23. 15	43. 35							
23. 45	46. 55							
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
	(†)	0. 52	·1014	0. 56	·02043	1. 40	54 ·0	55 ·0
1. 0	21. 45. 0	2. 44	·1012	2. 51	·01854	3. 40	56 ·0	57 ·0
1. 49	47. 50	3. 30	·1012		·01968	9. 40	57 ·0	58 ·5
2. 28	45. 40	4. 5	·1014	3. 36	·01923	21. 40	51 ·0	53 ·0
3. 8	44. 50	4. 28	·1010		·02008			
3. 36	44. 40	5. 45	·1007	4. 45	·01912			
3. 44	45. 10	6. 15	·1005	12. 30	·01833			
3. 50	45. 5	6. 45	·1002	16. 52	·01996			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 21		Jan. 21		Jan. 21				
h m	° ′ ″	h m		h m		h m	°	°
4. 0	21. 46. 10	7. 21	·1008	23. 56	·02418			
4. 30	45. 0	8. 6	·1006					
4. 44	45. 30	8. 31	·1006					
4. 53	45. 10	8. 50	·1009					
5. 12	46. 10	9. 15	·1012					
5. 40	45. 15	9. 27	·1009					
6. 3	45. 45	10. 3	·1014					
6. 17	45. 0	10. 31	·1012					
8. 16	44. 50	11. 0	·1014					
	***	11. 36	·1012					
8. 35	42. 10	15. 13	·1014					
	***	16. 28	·1016					
8. 57	45. 30	17. 13	·1020					
	***	18. 12	·1022					
9. 5	45. 50	21. 0	·1019					
	***	21. 6	·1022					
9. 41	42. 10	21. 37	·1015					
	***	22. 27	·1013					
9. 51	44. 40	23. 45	·1012					
	***							
10. 17	45. 50							
	***							
10. 40	45. 20							
	***							
11. 30	45. 10							
	***							
13. 31	46. 5							
	***							
13. 49	45. 50							
14. 21	46. 25							
15. 0	47. 0							
	***							
17. 30	46. 0							
	***							
21. 20	45. 25							
21. 37	44. 55							
22. 15	44. 30							
	***							
23. 59	47. 0							
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	21. 47. 5	0. 7	·1012	0. 25	·02474	1. 40	52 ·0	53 ·0
0. 12	48. 0	1. 33	·1015	2. 30	·02533	3. 40	52 ·5	53 ·5
2. 15	48. 0	1. 57	·1018	5. 8	·02437	9. 40	52 ·0	53 ·0
2. 39	46. 40	2. 21	·1021	8. 21	·02372	21. 40	49 ·0	50 ·0
3. 32	45. 5	2. 57	·1024	11. 55	·02453			
3. 53	44. 30		***	14. 7	·02522			
4. 12	46. 20	4. 0	·1020	16. 17	·02541			
4. 43	44. 10	4. 25	·1021	22. 58	·02554			
5. 17	43. 30	5. 0	·1015	23. 25	·02532			
6. 19	47. 0	5. 20	·1019	23. 59	·02497			
6. 28	46. 20		***					
	***	6. 56	·1013					
7. 32	47. 30	8. 19	·1014					
	***	8. 44	·1009					
8. 43	44. 0	9. 16	·1016					
	***	10. 5	·1019					
11. 0	45. 30	10. 33	·1022					
	***	11. 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.	Readings of Thermometers. Of V. F. Magnet.
Jan. 22		Jan. 22						
h m	° ′ ″	h m		h m		h m	°	°
11. 57	21. 47. 0	11. 21	·1022					
12. 4	46. 0	13. 32	·1026					
	***	15. 28	·1028					
15. 29	46. 30	15. 48	·1032					
	***	16. 17	·1034					
15. 45	47. 30	17. 21	·1037					
	***	18. 19	·1038					
16. 30	44. 10	18. 54	·1036					
	***	19. 21	·1040					
18. 43	46. 0	19. 37	·1035					
	***	20. 0	·1037					
19. 29	45. 30	20. 15	·1034					
19. 46	46. 40	20. 57	·1030					
	***	21. 24	·1024					
20. 43	44. 0	22. 7	·1021					
	***	22. 45	·1018					
22. 30	44. 0	23. 3	·1016					
	***	23. 32	·1014					
23. 0	43. 35	23. 59	·1019					
	***							
23. 25	45. 0							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 0	21. 47. 0	0. 18	·1021	0. 11	·02462	1. 40	52 ·0	53 ·0
0. 13	46. 5	1. 0	·1016	2. 3	·02264	3. 40	54 ·5	55 ·0
0. 45	47. 0	1. 14	·1022	4. 3	·01882	9. 40	55 ·0	56 ·0
0. 53	46. 20	3. 15	·1014	4. 44	·01906	21. 40	52 ·0	53 ·0
3. 15	46. 30	4. 0	·1012	8. 50	·01814			
5. 12	46. 0	5. 27	·1014	10. 10	·01820			
9. 33	46. 0	7. 0	·1017	15. 12	·01998			
10. 55	43. 30	7. 36	·1019	17. 20	·02120			
	***	7. 56	·1015	19. 12	·02197			
12. 28	42. 25	8. 18	·1012	22. 24	·02184			
	***	9. 15	·1015	23. 59	·02123			
13. 28	45. 0	10. 6	·1011					
21. 45	42. 50	10. 23	·1016					
23. 59	46. 50	10. 39	·1012					
		11. 25	·1010					
		11. 40	·1023					
		11. 42	·1022					
		13. 7	·1019					
		16. 0	·1022					
		17. 0	·1024					
		17. 29	·1028					
		18. 26	·1031					
		19. 30	·1027					
		21. 45	·1020					
			***					
		22. 55	·1018					
			***					
		23. 3	·1018					
			***					
		23. 59	·1012					
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 0	21. 47. 0	0. 17	·1004	0. 5	·02120	1. 40	55 ·0	55 ·0
0. 12	47. 19	0. 55	·1001	1. 0	·02046	3. 40	56 ·0	56 ·0
0. 37	47. 30	1. 46	·1004	2. 12	·01996	9. 40	55 ·0	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 Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
h m	° ′ ″	h m		h m		h m	°	°
0. 45	21. 46. 40	2. 36	·1006	3. 47	·01872	21. 40	50 ·0	51 ·0
0. 53	47. 25		***	6. 35	{ ·01870			
1. 12	46. 50	3. 30	·1000		{ ·02064			
1. 33	47. 15		***	7. 34	·02043			
1. 55	46. 50	4. 8	·1009	10. 30	·02196			
2. 2	47. 5		***	16. 22	·02660			
2. 11	46. 30	5. 17	·1007	17. 0	·02624			
2. 17	46. 55	7. 46	·1004	19. 8	·02612			
2. 39	47. 15	8. 10	·1008	21. 30	·02620			
3. 16	45. 25	8. 31	·1005	23. 37	·02643			
3. 47	45. 30	8. 45	·1010					
3. 56	46. 40	9. 0	·1019					
4. 17	47. 0	9. 39	·1012					
4. 36	45. 15	10. 35	·1018					
5. 2	45. 0	10. 54	·1024					
5. 17	45. 50	11. 26	·1013					
5. 29	45. 35	12. 0	·1016					
5. 40	46. 0	14. 46	·1018					
5. 52	45. 15	16. 6	·1018					
	***	16. 28	1022					
7. 31	44. 5	17. 40	·1024					
	***	21. 48	·1020					
7. 54	40. 20	22. 15	·1015					
	***	23. 7	·1013					
8. 15	42. 25	23. 59	·1017					
	***							
10. 30	42. 30							
	***							
10. 46	39. 0							
	***							
11. 59	44. 0							
	***							
12. 25	42. 40							
	***							
12. 37	44. 40							
	***							
14. 40	46. 0							
	***							
14. 46	47. 0							
	***							
15. 32	46. 30							
	***							
15. 45	48. 10							
	***							
17. 58	45. 20							
	***							
21. 40	45. 25							
21. 47	44. 30							
22. 2	44. 10							
22. 27	45. 0							
23. 34	45. 50							
23. 59	45. 10							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 0	21. 45. 10	0. 0	·1015	0. 6	·02644	1. 40	52 ·0	53 ·0
2. 12	46. 40	0. 52	·1013	1. 13	·02617	3. 40	54 ·0	55 ·0
2. 52	46. 25	2. 31	·1016	2. 24	·02508	9. 40	54 ·0	55 ·0
3. 18	44. 40	3. 32	·1012	4. 26	·02166	21. 47	49 ·0	50 ·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.
Jan. 25	° ′ ″	Jan. 25		Jan. 25		h m	°	°
h m		h m		h m				
4. 11	21. 44. 40	4. 50	·1009	6. 20	·01943			
4. 25	45. 40	5. 44	·1008		·02106			
5. 1	44. 40	6. 23	·1010	10. 19	·02243			
5. 30	45. 30	7. 35	·1012	12. 27	·02573			
5. 47	45. 0	8. 44	·1014		·02638			
	(†)	9. 27	·1016	18. 58	·02580			
6. 55	43. 30	10. 48	·1019	23. 39	·02619			
	***	11. 36	·1016					
12. 27	42. 40	11. 50	·1017					
	***	12. 5	·1014					
13. 15	44. 50	13 13	·1018					
	***	13. 35	·1022					
15. 5	45. 0	13. 52	·1025					
	***	14. 43	·1022					
16. 5	42. 30	14. 55	·1025					
	***	15. 5	·1022					
17. 37	44. 35	15. 36	·1024					
	(†)	16. 33	·1020					
18. 55	43. 30	17. 37	·1029					
	***	18. 7	·1022					
21. 35	44. 30	18. 21	·1026					
	***	19. 45	·1033					
21. 44	43. 30	20. 36	·1036					
	***	21. 14	·1031					
22. 32	45. 5	21. 51	·1025					
	***	22. 30	·1020					
22. 55	44. 30	23. 12	·1013					
	***	23. 59	·1007					
23. 59	47. 0							
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 0	21. 47. 0	0. 0	·1007	0. 0	·02600	1. 40	51 ·0	52 ·0
0. 21	48. 50	0. 20	·1004	1. 8	·02561	3. 40	54 ·0	55 ·0
1. 25	49. 40	0. 55	·0999	2. 20	·02415	9. 40	52 ·0	53 ·5
	***	1. 30	·1003	5. 19	·01803	23. 20	48 ·0	49 ·0
2. 18	47. 35	2. 21	·0997	5. 22	·01821			
2. 36	46. 0	2. 52	·1008	6. 30	·01793			
3. 3	46. 50	3. 40	·1012	7. 29	·01782			
3. 43	46. 15	3. 57	·1013	7. 33	·01882			
3. 51	47. 0	4. 38	·1009	8. 43	·01901			
4. 0	46. 30	6. 5	·1008	12. 58	·02137			
4. 29	47. 0	7. 20:	·1012	15. 0	·02170			
4. 45	46. 15	10. 52	·1013	18. 32	·02335			
	***	12. 2	·1017	21. 13	·02434			
11. 28	45. 25	13. 53	·1019	23. 46	·02461			
	***	15. 6	·1022					
13. 26	44. 10	15. 35	·1021					
	***	16. 20	·1024					
13. 33	45. 0	17. 45	·1028					
	***	19. 23	·1030					
15. 2	44. 50	21. 11	·1026					
	***	23. 14	·1021					
16. 30	45. 45	23. 59	·1018					
	***							
21. 3	42. 45							
	***							
23. 59	46. 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.
Jan. 27	° ′ ″	Jan. 27		Jan. 27		Jan. 27		
h m		h m		h m		h m	°	°
0. 0	21. 46. 0	0. 0	·1018	0. 0	·02541	9. 10	48 ·5	49 ·0
	***		***	1. 41	·02563	21. 40	53 ·0	54 ·0
1. 36:	49. 30	1. 30	·1020	2. 13	·02518			
	***		***	5. 43	·02496			
3. 4	47. 0	2. 33	·1025	10. 14	·02411			
	***	4. 43	·1029	14. 10	·02582			
3. 59	46. 35	7. 48	·1032	15. 6	·02587			
	***	8. 30	·1034	20. 10	·02456			
4. 13	46. 0	9. 1	·1028	22. 15	·02446			
	***	9. 55	·1033	23. 59	·02477			
10. 2	44. 10	10. 12	·1029					
	***	10. 26	·1032					
10. 17	41. 0	10. 48	·1030					
	***	12. 15	·1032					
11. 15	44. 30	13. 33	·1034					
	***	13. 43	·1030					
13. 3	45. 0	15. 12	·1034					
	***	17. 0	·1036					
15. 30	45. 5	18. 29	·1039					
	***	20. 26	·1020					
16. 7	46. 0	21. 50	·1037					
	***	23. 0	·1020					
20. 51	45. 30	23. 54	·1022					
	***	23. 59	·1022					
21. 32	46. 0							
21. 52	43. 50							
23. 3	46. 10							
23. 46	46. 50							
23. 59	47. 50							
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 0	21. 47. 50	0. 0	·1022	1. 11	·02483	1. 40	45 ·0	46 ·0
1. 12	50. 15	1. 20	·1024	2. 25	·02381	3. 40	48 ·0	49 ·0
1. 25	50. 30		***	2. 58	·02308	9. 40	48 ·0	49 ·8
1. 29	49. 30	3. 15	·1022	3. 44	·02191	21. 45	41 ·0	43 ·0
	***		***	5. 33	·01846			
2. 32	49. 30	4. 2	·1026	6. 48	·01690			
	***	5. 13	·1024	8. 20	·01687			
3. 0	48. 40	5. 22	·1027	9. 50	·01650			
	***	5. 41	·1025	12. 25	·01681			
3. 12	49. 0	5. 54	·1030	13. 30	·01797			
3. 30	47. 5	6. 9	·1025	14. 41	·01862			
4. 6	47. 10	6. 43	·1027	20. 56	·02378			
4. 15	47. 40	6. 47	·1030	22. 0	·02446			
5. 0	46. 50	7. 0	·1026	23. 0	·02413			
	***	7. 33	·1031	23. 59	·02447			
7. 46	46. 0	8. 5	·1022					
	***	8. 27	·1033					
8. 21	36. 20	8. 42	·1035					
	***	8. 54	·1025					
8. 52	43. 30	9. 30	·1018					
	***	10. 30	·1026					
10. 25	46. 10	10. 43	·1043					
	***	10. 52	·1032					
10. 40	41. 30	11. 6	·1029					
	***	11. 26	·1020					
10. 52	43. 10	12. 20	·1030					
	***	12. 48	·1035					

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.
Jan. 28		Jan. 28						
h m	° ′ ″	h m		h m		h m	°	°
11. 10	21. 41. 40	13. 3	·1026					
	***	13. 16	·1030					
11. 17	43. 20	13. 25	·1033					
	***	13. 39	·1029					
11. 45	41. 5	15. 45	·1032					
	***	17. 2	·1036					
12. 0	42. 40	18. 50	·1030					
	***	21. 17	·1034					
12. 30	42. 0	22. 0	·1030					
	***	23. 59	·1025					
12. 47	46. 0							
	***							
13. 16	40. 5							
	***							
14. 0	44. 50							
	***							
14. 53	45. 20							
	***							
15. 14	46. 40							
	***							
16. 45	46. 30							
	***							
17. 7	47. 15							
22. 10	43. 40							
23. 45	45. 20							
	***							
25. 59	46. 30							
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 0	21. 46. 40	0. 0	·1025	0. 27	·02422	1. 40	43 ·0	45 ·0
0. 30	46. 10	0. 36	·1028	2. 2	·02414	3. 40	45 ·5	46 ·5
0. 55	46. 40	1. 11	·1028	3. 16	·02321	9. 40	46 ·0	47 ·0
1. 22	47. 50	2. 50	·1037	4. 48	·02157	21. 50	38 ·0	40 ·0
2. 7	47. 30	4. 41	·1034	8. 5	·01962			
2. 14	47. 0	6. 0	·1030	10. 11	·01885			
3. 13	47. 30	7. 32	·1027	13. 55	·02016			
3. 29	46. 50	8. 15	·1031	18. 36	{ ·02332			
3. 58	46. 30	8. 46	·1030		{ ·02378			
4. 10	48. 5	9. 3	·1048	22. 26	·02345			
4. 30	47. 40	9. 31	·1034	23. 46	·02380			
5. 36	46. 0	10. 33	·1034					
5. 45	45. 30	10. 52	·1038					
6. 32	46. 30	12. 0	·1041					
8. 36	46. 25	12. 12	·1046					
8. 57	37. 55	12. 15	·1042					
	***	12. 37	·1047					
9. 30	45. 0	13. 0	·1042					
	***	14. 49	·1043					
10. 59	45. 40	19. 45	·1056					
	***	21. 7	·1055					
11. 16	44. 50	22. 12	·1046					
	***	23. 56	·1037					
11. 43	45. 25							
	***							
12. 10	43. 35							
	***							
12. 16	44. 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. 29								
h m	° ′ ″	h m		h m		h m	°	°
13. 2	21. 45. 10							
	***							
13. 15	47. 0							
	***							
14. 17	46. 25							
	***							
21. 18	46. 0							
21. 35	44. 0							
22. 45	45. 0							
23. 58	46. 50							
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
0. 47	21. 47. 50	0. 5	·1035	0. 28	·02387	1. 40	42 ·0	43 ·0
1. 57	48. 50	0. 43	·1034	1. 25	·02381	3. 40	44 ·0	45 ·0
2. 30	48. 0	0. 52	·1034	2. 50	·02301	9. 40	44 ·5	45 ·5
4. 0	45. 30	2. 1	·1031	3. 44	·02182	21. 40	39 ·0	41 ·0
4. 45	46. 10	2. 36	·1030	6. 5	·01790			
5. 13	44. 30	2. 45	·1028	7. 11	·01678			
5. 45	46. 40	3. 37	·1032	9. 7	·01561			
	***	4. 40	·1034	14. 10	·01613			
9. 30	46. 30	4. 55	·1030	15. 35	·01650			
	***	5. 50	·1036	17. 57	·01821			
9. 36	46. 0	6. 47	·1038	19. 17	·01836			
	***	9. 50	·1037	20. 20	·02001			
11. 20	46. 40	10. 46	·1038	21. 18	·02080			
	***	12. 51	·1040	23. 37	·02221			
14. 36	46. 35	12. 57	·1042					
	***	14. 6	·1043					
15. 35	46. 0	14. 17	·1045					
	***	15. 27	·1044					
16. 45	47. 20	15. 46	·1046					
	***	16. 40	·1047					
21. 30	47. 0	17. 4	·1050					
21. 40	46. 0	18. 15	·1052					
22. 48	45. 10	19. 43:	·1054					
23. 22	46. 5	21. 18	·1050					
23. 59	47. 25	21. 32	·1047					
		22. 38:	·1043					
		23. 36	·1042					
		23. 59	·1048					
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 0	21. 47. 30	0. 0	·1048	0. 0	·02234	1. 40	42 ·0	43 ·0
0. 13	47. 0	1. 19	·1045	1. 21	·02210	3. 40	44 ·0	45 ·0
1. 10	47. 0	2. 34	·1042	3. 30	·02031	9. 40	47 ·0	48 ·0
2. 40:	47. 10	3. 20	·1039	4. 52	·01840	21. 40	39 ·5	41 ·0
4. 9	50. 0	3. 36	·1042	6. 23	·01676			
4. 16	49. 40	4. 35	·1038	6. 47	·01623			
4. 32	50. 15	5. 6	·1027	8. 40	·01638			
4. 46	48. 30	5. 20	·1036	12. 18	{ ·01636			
5. 13	44. 10	5. 36	·1038		{ ·01721			
	***	6. 0	·1034	14. 30	·01799			
5. 45	48. 55	6. 27	·1029	17. 26	·02004			
5. 51	48. 10	6. 52	·1032	20. 25	·02231			
6. 9	48. 40		***	23. 42	·02417			
6. 26	49. 0	7. 43	·1023					
7. 45	45. 0	7. 53	·1025					
8. 0	46. 40	8. 7	·1020					
			***					

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. 31		Jan. 31						
h m	° ′ ″	h m		h m		h m	°	°
8. 43	21. 47. 10	9. 10	·1017					
8. 58	46. 45	9. 42	·1023					
9. 11	48. 15	9. 51	·1030					
10. 7	45. 20	10. 4	·1026					
10. 17	46. 45	10. 13	·1030					
	***	10. 29	·1027					
10. 33	44. 30	10. 50	·1032					
	***	11. 6	·1030					
11. 14	44. 30	11. 15	·1036					
	***	11. 30	·1037					
11. 29	45. 30	11. 37	·1034					
	***	11. 54	·1037					
11. 48	38. 0	12. 22	·1022					
	***	12. 45	·1028					
12. 16	40. 0	12. 52	·1026					
12. 25	38. 40	13. 13	·1034					
	***	14. 6	·1037					
13. 45	44. 30	14. 45	·1042					
	***	15. 21	·1047					
14. 52	41. 30	15. 33	·1045					
	***	15. 48	·1046					
15. 13	43. 0	15. 56	·1048					
	***	16. 25	·1045					
15. 29	37. 40	17. 0	·1049					
	***	17. 21	·1046					
15. 47	39. 20	17. 49	·1052					
15. 56	41. 20	18. 28	·1057					
16. 4	39. 10	19. 10	·1067					
	***	19. 26	·1060					
16. 28	41. 30	19. 38	·1062					
16. 41	44. 30	20. 25	·1056					
16. 53	43. 30	20. 48	·1064					
17. 2	44. 50	20. 54	·1060					
	***	20. 56	·1063					
17. 14.	43. 0	21. 5	·1058					
	***	21. 10	·1061					
18. 15	44. 20	21. 21	·1054					
18. 32	47. 30	22. 12	·1040					
	***	23. 8	·1031					
18. 47	47. 0	23. 59	·1031					
18. 58	45. 0							
19. 28	47. 15							
20. 14	48. 0							
21. 12	49. 55							
21. 58	47. 30							
22. 53	47. 30							
23. 58	51. 0							
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 5	21. 51. 35	0. 0	·1037	0. 4	·02407	1. 40	43 ·0	44 ·0
0. 26	50. 30	0. 13	·1037	2. 17	·02302	3. 40	45 ·5	46 ·0
1. 15	49. 55	0. 17	·1034	3. 44	·02161	9. 40	48 ·0	49 ·0
2. 37	50. 30	1. 17	·1036	5. 11	·01954	21. 50	44 ·0	45 ·0
3. 29	48. 15	1. 37	·1033	6. 15	·01876			
3. 52	48. 15	1. 57	·1034	8. 1	·01690			
4. 2.	50. 50	2. 30	·1032		·01742			
4. 54	48. 10	2. 55	·1036	9. 0	·01722			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 1		Feb. 1		Feb. 1				
h m	° ′ ″	h m		h m		h m	°	°
5. 9	21. 48. 0	3. 11	·1032	15. 20	·01760			
5. 53	44. 5	3. 28	·1028	20. 53	·01917			
6. 13	46. 0		***	23. 5	·01980			
6. 30	45. 10	4. 30	·1034	23. 8	·01922			
7. 0	46. 0	5. 16	·1027	23. 52	·01950			
7. 39	46. 0	5. 23	·1030					
7. 52	45. 25	5. 52	·1028					
8. 45	45. 30	6. 5	·1031					
11. 13	46. 35	6. 15	·1030					
	***	6. 51	·1039					
13. 30	45. 10	7. 26	·1042					
	***	7. 33	·1040					
15. 4	44. 30	9. 30	·1040					
	***	10. 8	·1045					
16. 17	45. 50	10. 15	·1043					
16. 40	45. 0	11. 30	·1040					
17. 0	46. 30	11. 57	·1044					
	***	12. 9	·1040					
19. 47	46. 20	13. 57	·1043					
	***	15. 20	·1044					
21. 3	47. 5	17. 17	·1050					
21. 29	45. 10	18. 5	·1049					
	***	19. 23	·1054					
22. 59	44. 30	20. 0	·1056					
23. 59	46. 30	21. 6	·1052					
		21. 47	·1050					
		22. 22	·1047					
		23. 30	·1044					
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 0	21. 46. 30	0. 28	·1037	0. 0	·01994	1. 40	45 ·0	46 ·0
	***	0. 37	·1045	2. 12	·01903	3. 40	46 ·5	47 ·5
2. 59	45. 25	0. 45	·1039	2. 15	·01985	9. 40	46 ·0	47 ·0
	***	1. 30	·1047	3. 11	·01992	23. 12	41 ·0	43 ·0
4. 32	47. 0	1. 55	·1045	3. 57	·01967			
4. 45	45. 0	2. 5	·1048	4. 30	·02015			
4. 58	45. 0	2. 42	·1046	10. 16	·02111			
5. 8	43. 30	3. 44.	·1045	15. 9	·02317			
5. 25	44. 5	4. 21	·1039		(†)			
5. 32	46. 15	4. 42	·1030	18. 22	·02418			
7. 31	45. 40	5. 5	·1026	22. 10	·02416			
7. 51	45. 10	5. 20	·1033					
8. 10	45. 40	6. 4	·1038					
9. 22	45. 5	6. 47	·1045					
9. 48	41. 20	7. 48.	·1047					
	***	9. 31	·1046					
10. 46	45. 0	11. 14	·1056					
	***	12. 40	·1052					
11. 15	44. 40	13. 13	·1052					
	***	13. 21	·1057					
12. 31	46. 35	13. 49	·1053					
12. 43	48. 30	18. 0	·1058					
12. 51	47. 30	20. 47	·1063					
	***	22. 31	·1059					
13. 59	46. 0	23. 35	·1054					
	***							
15. 35	46. 35							
15. 58	46. 0							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 2								
h m	° ′ ″	h m		h m		h m	°	°
17. 10	21. 47. 15							
17. 41	46. 10							
18. 3	47. 10							
	***							
22. 4	45. 0							
22. 46	43. 40							
23. 59	46. 15							
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
0. 0	21. 46. 15	0. 37	·1051	0. 5	.02413	10. 8	44 ·0	45 ·0
0. 15	47. 15	1. 10	·1047	1. 36	·02450	21. 40	40 ·0	41 ·0
1. 17:	50. 35	4. 50	·1049	2. 59	·02422			
	***	7. 4	·1048	4. 7	·02321			
2. 14	48. 50	8. 12	·1047	7. 8	·01934			
4. 30	47. 20	10. 27	·1051	8. 33	·01818			
	***	12. 48	·1053	9. 45	·01775			
9. 49	45. 0	13. 16	·1056	14. 26	·01908			
	***	15. 2	·1058	19. 50	·02316			
10. 50:	46. 50	18. 40	·1062	21. 14	·02405			
	***	20. 51:	·1063	22. 44	{ ·02376			
11. 54	46. 10	21. 52	·1056		{ ·02416			
	***	23. 36	·1046	23. 13	·02417			
14. 15	47. 55	23. 46	·1049	23. 30	·02414			
	***	23. 59	·1046					
21. 2	46. 0							
21. 32	44. 25							
22. 17	43. 50							
22. 32	44. 5							
22. 54	44. 50							
23. 20	46. 25							
23. 59	47. 0							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
0. 0	21. 47. 0	0. 0	·1046	1. 22	·02416	1. 40	44 ·5	46 ·0
	***	1. 52	·1039	1. 50	·02380	3. 40	48 ·0	49 ·0
1. 37	47. 40		***		(†)	9. 40	51 ·0	52 ·0
2. 0	46. 0	3. 30	·1043	2. 45	·02281	21. 40	46 ·4	48 ·0
2. 30	46. 0	4. 11	·1042	3. 35	·02176			
3. 36:	44. 30	5. 25	·1037	4. 16	·02040			
5. 12	44. 15	6. 3	·1037	5. 0	·01879			
8. 51	46. 5	7. 22	·1041	5. 37	·01760			
9. 7	42. 25	7. 33	·1038	5. 52	·01798			
9. 34	45. 55	8. 26	·1037	6. 22	·01790			
9. 45	43. 5	9. 5	·1035	6. 26	·01871			
11. 17	46. 30	9. 13	·1037	9. 49	·01867			
	***	9. 21	·1034	14. 50	·01923			
13. 35	46. 30	9. 40	·1033	18. 27	·01998			
	***	9. 49	·1035	20. 15	·02042			
14. 17	50. 0	10. 20	·1032	22. 33	·02187			
	***	10. 35	·1036	23. 51	·02228			
14. 38	47. 0	10. 40	·1034					
	***	10. 53	·1040					
15. 31	46. 5	11. 29	·1037					
	***	11. 41	·1040					
16. 19	48. 0	12. 10	·1038					
	***	12. 16	1039					
16. 55	46. 15	12. 38	·1037					
	***	12. 46	·1039					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 4		Feb. 4						
h m	° ′ ″	h m		h m		h m	°	°
17. 20	21. 47. 45	13. 44	·1043					
	***	14. 46	·1046					
20. 45	46. 30	14. 49	·1044					
21. 10	45. 0	15. 10	·1045					
22. 15	44. 55	15. 16	·1047					
23. 15	46. 30	15. 25	·1043					
23. 59	46. 5	16. 47	·1045					
		17. 1	·1044					
		17. 30	·1046					
		17. 54	·1049					
		18. 2	·1047					
		19. 47	·1051					
		21. 7	·1048					
		21. 49	·1046					
		23. 18	·1040					
		23. 23	·1042					
		23. 50	·1040					
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 12	21. 47. 30	0. 7	·1041	0. 28	·02167	1. 40	49 ·5	50 ·5
0. 29	47. 5	0. 22	·1039	1. 26	·02140	3. 40	52 ·9	54 ·0
2. 52	46. 0	2. 48	·1038	2. 20	·02061	9. 40	53 ·5	54 ·0
4. 30:	43. 30	3. 49	·1037	2. 41	·02028	21. 40	49 ·0	50 ·0
4. 50	44. 55	4. 36	·1033	3. 10	·01947			
4. 53	44. 20	4. 48	·1032	4. 0	·01795			
5. 52	45. 20	5. 22	·1033	6. 5	·01789			
	***	6. 36	·1031	6. 14	·01843			
8. 35	44. 15	7. 5	·1029	8. 15	·01883			
	***		***	15. 11	·02282			
9. 47	45. 10	9. 31	·1030	17. 41	·02546			
9. 56	42. 10	11. 30	·1033	22. 10	·02622			
10. 20	45. 20	11. 47	·1039	23. 22	·02636			
	***	12. 26	·1032	23. 53	·02615			
11. 30	46. 45	12. 55	·1044					
	***	13. 21	·1037					
11. 59	43. 5	13. 34	·1035					
	***	14. 51	·1042					
12. 22	46. 10	15. 40	·1044					
	***	15. 43	·1042					
13. 28	44. 5	16. 10	·1043					
	***	18. 43	·1046					
15. 0	46. 0	20. 40:	·1047					
	***	22. 27	·1036					
21. 2	45. 30	23. 59	·1037					
21. 51	44. 0							
22. 2	42. 30							
22. 13	44. 30							
23. 59	46. 45							
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 6	21. 47. 10	0. 2	·1036	0. 0	·02623	1. 40	51 ·5	52 ·0
0. 35	47. 30	0. 33	·1037	2. 52	·02519	3. 40	53 ·0	53 ·0
0. 44	49. 55	0. 40	·1041	3. 44	·02420	9. 40	54 ·0	55 ·0
	***	0. 55	·1036	5. 20	·02270	21. 40	54 ·5	55 ·0
1. 43	49. 0	1. 36	·1036	6. 6	·02198			
3. 10	46. 15	1. 40	·1037	7. 35	·02057			
3. 17	45. 35	2. 15	·1035	8. 50	·02002			
4. 16	45. 0	2. 51	·1037	14. 37	·01919			

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.
Feb. 6		Feb. 6		Feb. 6				
h m	° ′ ″	h m		h m		h m	°	°
4. 29	21. 46. 25	3. 21	·1034	15. 50	·01914			
4. 32	45. 5	4. 10	·1033	17. 34	·01881			
4. 42	44. 55	4. 22	·1037	23. 18	·01900			
4. 45	43. 0	4. 27	·1034					
5. 4	42. 10	4. 55	·1032					
5. 8	44. 15	5. 28	·1027					
6. 45	44. 35	6. 30	·1026					
	***	7. 40	·1028					
8. 32	46. 40	8. 34	·1024					
	***	7. 12	·1019					
8. 50	44. 0	9. 36	·1018					
	***	9. 44	·1021					
9. 21	45. 30	10. 0	·1016					
	***	10. 6	·1019					
10. 16	44. 0	10. 24	·1013					
	***	10. 45	·1015					
10. 40	42. 5	11. 2	·1017					
	***	11. 45	·1019					
11. 43	44. 0	12. 20	·1026					
	***	12. 26	·1024					
12. 25	45. 0	12. 47	·1027					
	***	13. 6	·1026					
13. 0	43. 5	13. 14	·1029					
	***	14. 3	·1024					
13. 33	45. 10	14. 22	·1032					
	***	15. 4	·1027					
13. 47	44. 45	15. 25	·1024					
	***	16. 0	·1033					
14. 5	45. 20	16. 8	·1036					
	***	16. 25	·1032					
14. 26	42. 40	16. 57	·1037					
	***	17. 15	·1025					
14. 40	44. 35	17. 31	·1045					
	***	17. 45	·1040					
15. 10	44. 55	17. 56	·1043					
	***	18. 29	·1026					
15. 27	48. 0	18. 44	·1030					
	***	18. 50	·1036					
16. 12	47. 5	19. 15	·1041					
	***	19. 37	·1037					
16. 37	48. 10	19. 52	·1038					
	***	20. 18	·1035					
17. 4	51. 50	20. 40	·1040					
	***	21. 29	·1041					
17. 40	45. 0	21. 49	·1029					
	***	22. 15	·1024					
18. 13	54. 0	22. 46	·1027					
	***	23. 3	·1026					
18. 36	51. 30	23. 13	·1033					
	***	23. 31	·1027					
18. 42	53. 10	23. 59	·1031					
	***							
19. 11	46. 30							
	***							
20. 39	45. 15							
	***							
21. 4	47. 0							
21. 14	46. 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. 6								
h m	° ′ ″	h m		h m		h m	°	°
21. 24	21. 47. 0							
21. 33	46. 10							
21. 59	41. 15							
22. 13	41. 30							
22. 32	43. 30							
22. 36	46. 30							
23. 5	47. 10							
23. 11	49. 0							
23. 37	48. 30							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	21. 47. 30	0. 0	·1033	0. 0	·01902	1. 40	55·5	56·0
0. 7	46. 30	0. 49	·1025	1. 12	·01897	3. 40	57·0	57·0
	***	1. 42	·1021	2. 1	·01862	7. 35	59·0	60·0
1. 12	47. 0	2. 10	·1018	3. 7	·01890	21. 40	55·0	56·0
1. 17	48. 25	2. 27	·1006	3. 21	·01917			
1. 22	47. 40	2. 38	·1000	4. 40	·01900			
	***	2. 51	·1002	5. 57	·01915			
2. 25	48. 30	3. 15	·1000	8. 55	·01834			
	***	3. 30	·1008	15. 3	·01841			
2. 51	50. 30	3. 46	·1007	20. 44	·02145			
3. 8	47. 20	4. 43	·1014	22. 15	·02221			
3. 20	47. 55	5. 0	·1013	23. 27	·02240			
	***	5. 25	·1018					
3. 32	49. 30	7. 20	·1021					
	***	9. 13	·1022					
4. 57	43. 0	9. 51	·1023					
	***	11. 12	·1021					
9. 0	44. 0	12. 30	·1022					
	***	13. 25	·1025					
10. 46	44. 45	14. 22	·1021					
	***	14. 56	·1026					
13. 8	44. 5	15. 5	·1024					
	***	15. 56	·1026					
13. 37	45. 20	16. 43	·1023					
	***	16. 55	·1025					
14. 9	44. 0	17. 40	·1025					
	***	18. 16	·1022					
14. 25	47. 30	18. 51	·1029					
	***	20. 17	·1032					
15. 3	44. 0	20. 36	·1034					
	***	21. 44	·1030					
15. 18	45. 5	22. 33	·1023					
	***	23. 55	·1023					
15. 45	43. 30							
	***							
16. 37	43. 0							
	***							
17. 0	44. 0							
	***							
17. 26	43. 20							
	***							
19. 17	46. 10							
	***							
19. 47	44. 0							
	***							
20. 46	45. 50							
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 7								
h m	° ′ ″	h m		h m		h m	°	°
22. 32	21. 42. 30							
23. 56	44. 0							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
1. 40	21. 48. 16*	0. 25	·1023	0. 29	·02226	1. 40	57 ·0	58 ·0
3. 40	48. 19*	0. 44	·1024	2. 7	·02197	3. 40	58 ·0	59 ·0
9. 40	46. 19*	1. 30	·1018	3. 35	·02136	9. 40	57 ·0	58 ·0
21. 40	45. 51*	2. 22	·1014	6. 29	{·01860	21. 40	53 ·0	54 ·0
			***		·01918			
		3. 0	·1015	9. 0	·01846			
		3. 7	·1014	15. 15	·02021			
		3. 22	·1018	18. 35	·02317			
		3. 56	·1015	21. 2	·02450			
		4. 13	·1013	22. 55	·02582			
		4. 36	·1014	23. 43	·02597			
		6. 35	·1016					
		7. 10	·1017					
		8. 10	·1019					
		8. 21	·1020					
		9. 15	·1022					
		10. 9	·1024					
		10. 15	·1022					
		10. 36	·1028					
		10. 45	·1025					
		11. 8	·1027					
		11. 16	·1024					
		11. 26	·1027					
		11. 33	·1021					
		11. 40	·1025					
		12. 0	·1026					
		12. 58	·1028					
		13. 7	·1024					
		13. 18	·1027					
		13. 37	·1024					
		14. 21	·1027					
		14. 36	·1037					
		15. 16	·1024					
		15. 30	·1024					
		15. 43	·1028					
		15. 52	·1025					
		17. 13	·1030					
		17. 48	·1029					
		18. 7	·1032					
		18. 15	·1029					
		18. 36	·1038					
		18. 46	·1037					
		19. 39	·1047					
		20. 48	·1036					
		20. 55	·1038					
			***					
		21. 49	·1028					
		22. 40	·1024					
			***					
		23. 59	·1018					
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
0. 17	21. 48. 55	0. 0	·1018	0. 4	·02610	1. 40	55 ·0	56 ·0
1. 1	48. 5		***	1. 25	·02548	3. 40	57 ·0	58 ·0
1. 12	50. 30	0. 40	·1014	2. 41	·02423	9. 40	57 ·0	57 ·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. 9		Feb. 9		Feb. 9		Feb. 9		
h m	° ′ ″	h m		h m		h m	°	°
1. 57	21. 51. 30	1. 13	·1018	4. 17	·02212	23. 10	54 ·0	55 ·0
2. 22	46. 50	1. 17	·1016	5. 44	·01937			
2. 59	46. 50	1. 23	·1019	6. 20	·01877			
	***	2. 6	·1003	8. 43	·01861			
3. 12	45. 0	2. 20	·1004	11. 11	·01950			
3. 42	48. 55	3. 3	·1015	13. 10	·01980			
	***	3. 15	·1018	16. 21	·01978			
4. 30	48. 5		***	16. 50	·02046			
	***	4. 0	·1016	20. 30	·02137			
6. 21	46. 5	4. 20	·1018	21. 56	·02124			
7. 0	32. 10	4. 33	·1011	23. 52	·02176			
7. 16	36. 15	4. 50	·1015					
7. 19	36. 10	6. 1	·1020					
7. 38	42. 10	6. 22	·1009					
	***	6. 35	·1000					
8. 40	46. 5	6. 54	·1007					
	***	7. 7	·1016					
9. 34	46. 15	7. 15	·1017					
	(†)	7. 36	·1023					
10. 45	43. 0	7. 39	·1018					
	***	8. 5	·1016					
11. 46	44. 0	9. 38	·1022					
11. 50	48. 35	10. 51	·1026					
12. 10	44. 0	11. 6	·1033					
	***	11. 40	·1023					
14. 9	45. 55	11. 46	·1026					
	***	11. 58	·1022					
14. 17	44. 20	12. 13	·1027					
	***	12. 33	·1024					
14. 31	45. 30	13. 45	·1021					
	***	14. 14	·1019					
14. 56	45. 25	14. 53	·1023					
	***	15. 10	·1021					
15. 15	44. 0		***					
	***	17. 57	·1032					
17. 45	44. 50	18. 12	·1028					
	***	19. 48	·1036					
20. 36	47. 40	20. 10	·1031					
	***	20. 25	·1033					
21. 0	45. 5	21. 10:	·1029					
	***	21. 50	·1016					
21. 49	50. 20	22. 1	·1013					
23. 54	52. 0	22. 36	·1018					
		23. 9	·1023					
		23. 59	·1021					
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 0	21. 51. 10	0. 0	·1020	0. 0	·02157	9. 30	55 ·5	56 ·0
	***	0. 46	·1021	2. 56	·02125	21. 40	54 ·0	55 ·0
1. 5	52. 0	1. 6	·1017	7. 52	·02021			
1. 24	50. 30	2. 0	·1021	9. 24	·01990			
1. 44	50. 20		***	16. 32	·02071			
2. 15	54. 0	3. 5	·1021	18. 40	·02165			
2. 28:	52. 15		***	20. 10	·02212			
2. 46	52. 40	4. 15	·1028	22. 15	·02217			
3. 2	50. 10	4. 33	·1019	23. 59	·02240			
3. 32	50. 0	4. 57	·1023					
3. 49	48. 15	5. 13	·1031					
	***							

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. 10		Feb. 10						
h m	° ′ ″	h m		h m		h m	°	°
4. 25	21. 48. 35	5. 28	·1031					
4. 58:	43. 20	5. 43	·1034					
5. 37	47. 40	6. 18	·1032					
	***	6. 51	·1025					
7. 29	47. 15	7. 30	·1028					
	***	7. 46	·1016					
7. 47	41. 25	8. 4	·1015					
8. 9	37. 0	8. 22	·1031					
	***	8. 44	·1042					
8. 23	40. 0	8. 57	·1036					
8. 30	39. 0	9. 11	·1026					
	***	9. 38	·1028					
8. 52	41. 0	10. 0	·1024					
	***		***					
9. 10	44. 50	11. 31	·1031					
	***	12. 30	·1028					
10. 43	46. 25	12. 47	·1034					
	***	13. 26	·1029					
13. 20	44. 30	14. 12	·1033					
	***	14. 30	·1030					
13. 45	45. 0	14. 39	·1034					
	***	15. 33	·1035					
14. 11	46. 40	16. 30	·1034					
	***	18. 40	·1035					
14. 22	45. 35	19. 12	·1040					
	***	20. 21	·1042					
14. 36	47. 20	20. 55	·1040					
	***	21. 38	·1027					
20. 46	49. 25	22. 25	·1028					
20. 55	49. 40	22. 34	·1023					
21. 23	46. 50		***					
21. 45	47. 30	23. 6	·1021					
22. 23	46. 55	23. 25	·1016					
22. 30	48. 0	23. 59	·1010					
	***							
23. 59	49. 5							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 0	21. 49. 10	0. 0	·1010	0. 11	·02224	1. 40	56 ·0	57 ·0
0. 4	49. 30		***	0. 51	·02217	3. 40	58 ·0	58 ·0
0. 9	48. 10	0. 52	·1014	2. 15	·02136	9. 40	56 ·0	57 ·0
0. 49	50. 30	1. 7	·1012	3. 0	·02120	21. 50	53 ·0	54 ·0
1. 13	53. 10		***	5. 48	{·01865			
1. 20	52. 5	1. 34	·1010		{·01950			
1. 38	53. 30	2. 10	·0986	7. 42	·01867			
1. 46	52. 0	2. 31	·0993	9. 15	·01831			
	***	2. 36	·0987	9. 46	·01836			
2. 43	55. 0	2. 43	·0987	10. 35	·01816			
2. 53	52. 45	2. 50	·0980	14. 5	·01981			
	***	3. 13	·0990	16. 6	·02136			
3. 41	49. 50		***	17. 0	·02178			
	***	3. 54	·0992	21. 0	·02457			
4. 9	50. 5	4. 8	·0995	23. 59	·02564			
4. 17	47. 20	4. 20	·0987					
4. 47	45. 0		***					
	***	5. 0	·0997					
5. 6	45. 50	5. 18	·0994					
5. 16	44. 0	5. 30	·0992					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 11		Feb. 11						
h m	° ′ ″	h m		h m		h m	°	°
5. 19	21. 44. 30	5. 42	·0998					
5. 30	42. 0	5. 58	·0994					
5. 43	42. 15		***					
5. 47	41. 0	6. 23	·1003					
6. 26	47. 10	6. 49	·1001					
6. 30	45. 25	7. 0	·0997					
6. 47	46. 30	7. 13	·1001					
7. 42	44. 35	7. 30	·0999					
8. 11	47. 15	8. 20	·1007					
	***	8. 44	·1003					
8. 30:	47. 25	8. 55	·1008					
	***	9. 12	·1005					
9. 10	45. 0	9. 26	·1028					
	***	9. 45	·1039					
9. 18	33. 15	9. 56	·1031					
	***	10. 9	·1026					
9. 30	36. 0	10. 20	·1012					
	***	10. 25	·1007					
9. 43	32. 15	10. 32	·1012					
	***	10. 40	·1005					
10. 18	43. 15	10. 54	·1001					
10. 30	39. 0	11. 6	·1003					
10. 47	45. 0	11. 15	·1002					
	***	11. 21	·1006					
11. 57	47. 5	12. 15	·1003					
	***	12. 36	·1007					
12. 18	45. 0	12. 41	·1005					
	***	12. 51	·1009					
12. 52	48. 40	12. 58	·1007					
	***	13. 8	·1015					
13. 27	47. 35	13. 29	·1017					
	***	13. 43	·1012					
13. 45	49. 40	14. 3	·1016					
	***	14. 36	·1012					
14. 17	46. 55	15. 1	·1009					
	***		***					
14. 51	49. 0	15. 55	·1010					
	***	16. 25	·1007					
15. 4	47. 10	17. 3	·1012					
	***	17. 15	·1017					
15. 21	48. 5		***					
	***	18. 18	·1019					
15. 31	46. 50		***					
	***	19. 34	·1023					
16. 5	51. 0	20. 10	·1018					
	***		***					
17. 40	46. 50	21. 16	·1021					
	***		***					
20. 58	47. 25	22. 6	·1016					
	***	23. 59	·1005					
21. 40	49. 15							
	***							
22. 15	46. 5							
	***							
23. 13	46. 10							
23. 48	47. 0							
23. 59	48. 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.
Feb. 12	° ′ ″	Feb. 12		Feb. 12		Feb. 12	°	°
h m		h m		h m		h m		
0. 0	21. 48. 45	0. 0	·1005	1. 22	·02543	1. 40	55 ·0	56 ·0
0. 13	49. 40	0. 12	·1002	2. 52	·02461	3. 40	57 ·0	57 ·0
0. 56	47. 30	0. 20	·1005	3. 10	·02470	9. 40	55 ·0	57 ·0
1. 20	48. 35	2. 0	·1006	3. 24	·02437	21. 40	54 ·0	54 ·0
	***	2. 21	·1004	3. 43	·02420			
2. 50	48. 10	2. 45	·1000	5. 3	·02290			
2. 59	46. 25	2. 59	·0980	6. 50	·02157			
3. 12	46. 30		***	7. 56	·02097			
3. 24	43. 5	3. 15	·0993	11. 35	·02047			
	***	3. 26	·0985	16. 0	·02117			
4. 23	48. 45		***	19. 4	·02256			
4. 47	47. 30	3. 55	·1009	22. 1	·02374			
5. 3	37. 55	4. 12	·1008	23. 34	·02417			
5. 12	40. 0		***					
5. 26	38. 15	4. 51	·0997					
5. 37	41. 40	5. 10	·1009					
5. 51	41. 30	5. 22	·1000					
	***	5. 45	·1007					
6. 34	47. 0	6. 10	·1002					
	***	6. 26	·1007					
7. 43	49. 40		***					
	***	8. 28	·1010					
8. 30	46. 50	8. 34	·1007					
	***	9. 45	·1008					
10. 28	44. 50	10. 44	·1012					
	***	11. 15	·1011					
11. 40	45. 25		***					
	***	12. 17	·1017					
12. 15	43. 55	12. 30	·1012					
	***	12. 54	·1015					
13. 15	44. 20	13. 44	·1014					
	***	14. 10	·1019					
13. 28	43. 50	14. 20	·1023					
	***	14. 42	·1015					
13. 52	45. 30	15. 45	·1026					
	***	16. 14	·1017					
14. 39	40. 25	16. 37	·1021					
	***		***					
14. 58	45. 30	19. 40	·1017					
	***		***					
15. 42	45. 50	21. 43	·1019					
15. 57	43. 40		***					
16. 3	45. 0	23. 59	·1013					
	***							
17. 17	45. 30							
	***							
20. 0	46. 0							
	***							
23. 25	47. 0							
23. 30	46. 30							
23. 59	47. 15							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	21. 47. 15	0. 0	·1013	0. 14	·02416	1. 40	56 ·0	57 ·0
0. 11	48. 30	0. 33	·1016	3. 7	·02283	3. 40	56 ·0	57 ·0
0. 20	47. 35		***	5. 9	·02157	9. 40	57 ·0	57 ·0
0. 27	49. 0	5. 13	·1001	5. 24	·02125	21. 40	53 ·0	54 ·0
	***	5. 21	·0993	6. 16	·02097			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 13	° ′ ″	Feb. 13		Feb. 13		h m	°	°
h m		h m		h m				
1. 45	21. 48. 10	5. 58:	·1007	8. 13	·01976			
1. 51	48. 25		***	10. 47	·01921			
2. 3	48. 0	6. 50	·1001	12. 56	·02010			
2. 8	48. 30		***	17. 50	·02221			
	***	7. 21	·1003	21. 51	·02497			
3. 14	47. 10		***	22. 14	·02522			
3. 19	47. 50	8. 8	·1004	23. 20	·02588			
3. 50	48. 0	8. 27	·1019	23. 59	·02611			
4. 17	46. 30	8. 46	·1010					
4. 24	47. 10		(†)					
	***	21. 40	·1025*					
5. 20	47. 30							
5. 33	45. 10							
5. 37	45. 0							
6. 6	48. 30							
6. 25	48. 30							
6. 40	50. 0							
6. 45	48. 0							
7. 0	48. 45							
7. 9	47. 0							
7. 22	47. 20							
7. 33	44. 30							
7. 44	47. 20							
8. 8	34. 20							
	***							
8. 37	42. 40							
	***							
9. 0	46. 0							
9. 24	45. 10							
	***							
10. 45	47. 15							
	***							
12. 0	45. 55							
	***							
14. 8	46. 25							
	***							
19. 23	45. 10							
	***							
21. 39	47. 20							
21. 46	46. 5							
22. 55	46. 10							
23. 23	48. 15							
23. 52	46. 55							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 8	21. 48. 30	0. 27	·1015	0. 52	·02591	1. 40	54 ·5	55 ·5
	***	1. 14	·1017	2. 0	·02521	3. 40	56 ·0	57 ·0
1. 22	48. 5		***	3. 25	·02318	9. 40	56 ·0	56 ·0
1. 33	49. 30	2. 50	·1015	5. 3	·02040	21. 45	51 ·0	52 ·0
2. 11	48. 30	3. 14	·1010	6. 4	·01913			
2. 17	49. 40	3. 25	·1013	6. 51	{·01840			
4. 3	47. 35	4. 0	·1009		{·01857			
4. 17	48. 30	4. 21	·1010	8. 22	·01801			
4. 45	47. 25		***	10. 0	·01852			
5. 36	46. 0	5. 43	·1001	11. 18	·01908			
5. 50	46. 45	6. 8	·1011	18. 42	·02497			
	***	6. 47	·1011	20. 30	·02617			
10. 0	46. 55	6. 57	·1013	21. 12	·02636			
	***		***					

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	° ′ ″	h m		h m		h m	°	°
10. 47	21. 46. 0	9. 30	·1019	22. 25	·02608			
11. 15	47. 30	10. 46	·1021	23. 15	·02621			
11. 35	46. 0	10. 55	·1026					
	***	11. 6	·1023					
14. 30	44. 30	11. 26	·1030					
	***	11. 37	·1025					
14. 48	45. 30	13. 0	·1023					
	***	13. 25	·1025					
15. 5	45. 0	14. 6	·1026					
	***	14. 21	·1024					
15. 41	47. 15	15. 0	·1024					
	***	15. 20	·1022					
16. 53	46. 0	15. 51	·1027					
	***	16. 26	·1033					
17. 15	45. 0	17. 30	·1031					
	***	17. 51	·1027					
17. 38	47. 0	18. 18	·1028					
	***	19. 12	·1036					
22. 47	45. 30	19. 21	·1034					
	***	20. 17	·1036					
23. 59	48. 30	20. 30	·1037					
		21. 45	·1036					
			***					
		23. 43	·1025					
		23. 59	·1023					
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 0	21. 48. 30	0. 0	·1023	0. 0	·02647	1. 40	53 ·0	54 ·0
2. 45	47. 50	1. 2	·1026	1. 16	·02644	3. 40	56 ·0	56 ·5
	***		***	2. 5	·02581	9. 40	57 ·5	58 ·5
3. 10	46. 10	2. 6	·1021	2. 28	·02495	21. 40	51 ·0	52 ·0
	***	2. 17	·1016	2. 55	·02417			
3. 38	47. 30	2. 38	·1015	3. 48	·02224			
	***	3. 1	·1017	4. 22	·02092			
4. 3	46. 15	3. 10	·1022	5. 2	·01921			
	***	3. 55	·1016	5. 5	·01937			
5. 16	46. 0	4. 5	·1019	5. 51	{·01917			
	***		***		{·02058			
5. 57	47. 0	4. 36	·1012	6. 10	·02024			
	***	5. 7	·1014	6. 41	·02057			
8. 0	46. 30		***	11. 14	·02326			
8. 30	44. 0	5. 34	·1017	11. 30	·02357			
8. 40	46. 10	6. 0	·1015	12. 50	·02438			
8. 43	44. 0	6. 39	·1014	15. 11	·02677			
9. 12	39. 0	6. 47	·1017	15. 30	·02651			
9. 35	44. 0	6. 55	·1015	20. 28	·02652			
10. 19	40. 30	7. 6	·1017	23. 12	·02650			
	***		***					
10. 48	44. 30	7. 41	·1013					
	***	8. 6:	·1015					
11. 38	44. 55	8. 31	·1006					
	***	9. 6	·1014					
11. 52	47. 0	9. 37	·1016					
	***	9. 52	·1011					
12. 43	43. 30	10. 7	·1016					
	***	10. 18	·1013					
13. 15	48. 0	10. 33	·1017					
	***	10. 38	·1015					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 15		Feb. 15						
h m	° ′ ″	h m		h m		h m	°	°
14. 10	21. 47. 10	10. 46	·1019					
	***	10. 57	·1013					
14. 27	45. 30	11. 12	·1012					
	***	11. 23	·1019					
15. 26	48. 30	11. 37	·1015					
	***	12. 30	·1017					
16. 9	47. 25	13. 4	·1018					
	***	13. 15	·1015					
17. 10	48. 20	13. 31	·1021					
	***	14. 12	·1028					
17. 18	47. 30	14. 36	·1023					
	***	14. 43	·1024					
20. 15	46. 0	14. 48	·1023					
	***	15. 0	·1027					
20. 46	47. 50	15. 31	·1025					
	***	16. 34	·1034					
22. 2	42. 10	16. 43	·1041					
	***	17. 0	·1034					
23. 11	46. 40	17. 16	·1032					
23. 59	47. 0	17. 37	·1035					
		17. 52	·1035					
		17. 58	·1031					
		18. 6	·1034					
			***					
		19. 30	·1038					
		19. 47	·1035					
			***					
		20. 16	·1033					
			***					
		20. 52	·1031					
		21. 6	·1036					
			***					
		22. 12	·1025					
			***					
		23. 21	·1025					
			***					
		23. 59	·1023					
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 0	21. 47. 0	0. 0	·1023	2. 5	·02560	1. 40	54 ·0	55 ·0
	***		***	3. 21	·02361	3. 40	59 ·0	60 ·6
1. 13	47. 10	0. 21	·1025	5. 33	·01818	9. 40	58 ·0	59 ·5
1. 16	49. 20		***	5. 44	·01869	23. 40	51 ·0	52 ·0
1. 22	47. 0	0. 34	·1019	7. 30	·01819			
	***		***	8. 29	{·01830			
2. 14	48. 15	1. 55	·1012		{·01998			
	***		***	10. 12	·01990			
2. 27	46. 55	2. 15	·1015	15. 11	·02262			
	***	2. 35	·1008	17. 57	·02661			
3. 5	47. 20		***	20. 37	·02660			
	***	4. 50	·1009	21. 0	·02639			
3. 43	46. 55		***	21. 21	·02635			
4. 0	47. 0	6. 40	·1011	21. 41	·02618			
4. 5	47. 45		***	22. 11	·02615			
	***	8. 46	·1017					
8. 55	44. 10	9. 13	·1017					
	***	9. 34	·1019					
11. 43	45. 30	10. 25	·1018					
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 16		Feb. 16						
h m	° ′ ″	h m		h m		h m	°	°
12. 8	21. 48. 0	10. 47	·1021					
	***	11. 19	·1023					
12. 29	43. 45	11. 35	·1031					
	***	11. 54	·1027					
12. 49	45. 20	12. 1	·1029					
	***	12. 11	·1038					
13. 44	44. 0	12. 16	·1041					
	***	13. 13	·1020					
14. 2	48. 0	13. 31	·1025					
	***	13. 36	·1022					
14. 45	50. 30	13. 57	·1022					
	***	14. 6	·1025					
15. 25	46. 30	14. 14	·1022					
	***	14. 49	·1029					
16. 21	46. 10	15. 15	·1030					
	***	15. 52	·1027					
20. 45	45. 30	16. 19	·1028					
	***	16. 44	·1033					
23. 59	49. 30	17. 8	·1032					
		17. 50	·1032					
		18. 51	·1037					
		19. 47	·1035					
		20. 40	·1034					
		22. 0	·1023					
			***					
		23. 59	·1021					
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 0	21. 49. 30	0. 0	·1021	1. 35	·02622	10. 47	48 ·0	49 ·0
	***		***	4. 25	·02641	21. 40	45 ·5	47 ·0
2. 23	51. 30	1. 15	·1028	9. 0	·02605			
	***	1. 23	·1031	9. 58	·02621			
3. 0	47. 0		***	10. 26	·02620			
	***	2. 12	·1034	11. 13	·02617			
4. 10	48. 15	2. 27	·1025		(†)			
	***	2. 46	·1025	14. 30	·02578			
5. 47	46. 45	3. 7	·1030	18. 37	·02557			
	(†)	3. 21	·1030	21. 26	·02560			
7. 13	46. 0	3. 38	·1044	21. 49	·02544			
	***	4. 8	·1035	22. 55	·02548			
9. 15	45. 30	4. 35	·1033					
	***	4. 45	·1036					
15. 0	46. 0		***					
	(†)	6. 15	·1034					
		6. 41	·1037					
		6. 54	·1034					
		8. 41	·1037					
		10. 19	·1036					
			***					
		11. 46	·1037					
		14. 5	·1039					
		14. 44	·1041					
		15. 48	·1040					
		16. 15	·1043					
		17. 12	·1044					
			***					
		17. 45	·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.
		Feb. 17						
h m	° ′ ″	h m		h m		h m	°	°
		18. 45	·1045					
			***					
		19. 11	·1044					
		19. 16	·1049					
			***					
		20. 21	·1048					
		21. 0	·1045					
		22. 15	·1030					
		22. 46	·1023					
		23. 7	·1025					
		23. 59	·1026					
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
	(†)	0. 0	·1026		(†)	1. 40	47 ·5	48 ·0
1. 8	21. 50. 20	1. 0	·1027	1. 42	·02163	3. 40	47 ·5	48 ·5
	***		***	4. 9	·02060	9. 40	48 ·0	49 ·0
1. 37	51. 15	2. 18	·1034	7. 22	·01839	21. 40	46 ·0	47 ·0
1. 47	50. 10	2. 49	·1034	8. 36	·01777			
3. 2	50. 25	2. 51	·1028	10. 47	·01781			
3. 10	51. 50	2. 55	·1034	14. 34	·01846			
	***	3. 3	·1043	20. 5	·02020			
3. 33	50. 30	3. 6	·1029	21. 43	·02017			
3. 43	48. 0	3. 9	·1036	23. 49	·02075			
3. 46	50. 25	3. 15	·1035					
4. 21	44. 30	3. 28	·1021					
	***	3. 36	·1018					
4. 47	43. 15	3. 44	·1024					
5. 2	43. 30	4. 1	·1024					
5. 35	46. 30	4. 9	·1018					
5. 58	46. 10		***					
6. 10	47. 20	4. 30	·1021					
6. 25	46. 30	4. 52	·1029					
	***	5. 16	·1031					
13. 30	46. 30	5. 39	·1027					
	***	5. 54	·1031					
13. 43	47. 10	6. 21	·1028					
	***	6. 50	·1030					
14. 13	45. 50	7. 6	·1033					
	***	7. 45	·1036					
14. 17	46. 30	8. 25	·1036					
	***	8. 37	·1034					
14. 35	46. 0	8. 48	·1037					
	***	10. 15	·1037					
15. 48	46. 30	10. 22	·1039					
	***	12. 1	·1038					
16. 6	45. 55	13. 12	·1043					
	***	13. 26	·1043					
17. 0	46. 20	13. 36	·1046					
	***	14. 31	·1046					
18. 8	45. 0	14. 44	·1044					
	***	16. 43	·1048					
22. 12	43. 40	18. 15	·1050					
	***	19. 45	·1047					
23. 58	47. 30	20. 10	·1048					
		20. 33	·1046					
		21. 7	·1040					
			***					
		22. 35	·1030					

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	° ′ ″	Feb. 18 h m		h m		h m	°	°
		23. 9	·1028 ***					
		23. 59	·1030					
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 12	21. 47. 15	0. 7	·1031	0. 35	·02086	1. 40	48 ·0	49 ·0
1. 46:	49. 30	0. 18	·1035	2. 10	·02057	3. 40	49 ·0	49 ·0
4. 0	47. 0	0. 33	·1029 ***	3. 54	·01972	9. 40	47 ·0	48 ·0
4. 16	46. 0			6. 18	·01735	21. 40	44 ·0	45 ·0
5. 5:	45. 20	1. 1	·1030 ***	8. 5	·01651			
5. 45	46. 20 ***			9. 20	·01648			
		2. 45	·1032 ***	14. 5	·01790			
8. 20	45. 10 ***			21. 17	·02161			
		3. 40	·1032 ***	23. 48	·02280			
9. 43	46. 25 ***							
		4. 13	·1037					
10. 10	43. 20 ***	4. 17	·1034					
		5. 16	·1034					
10. 43	46. 0 ***	5. 45	·1034					
		6. 6	·1033					
10. 51	42. 30 ***	7. 8	·1037					
		7. 16	·1037					
11. 33	44. 40 ***	7. 22	·1041					
		7. 25	·1037					
12. 4	43. 20 ***	9. 0	·1036					
		9. 47	·1040					
12. 45	46. 10 ***	10. 4	·1045					
		10. 19	·1039					
13. 16	45. 15 ***	10. 34	·1035					
		10. 40	·1039					
16. 10	47. 30 ***	10. 55	·1051					
		11. 13	·1045					
21. 40	46. 40	11. 35	·1038					
21. 46	45. 50 ***	11. 55	·1049					
		12. 7	·1041					
23. 59	47. 30	12. 25	·1043					
		12. 48	·1050					
		13. 43	·1045					
		13. 52	·1042					
		14. 27	·1047					
		14. 34	·1046					
		14. 45	·1045					
		14. 54	·1047 ***					
		17. 45	·1053 ***					
		19. 1	·1053					
		19. 30	·1051					
		20. 6	·1051					
		20. 10	·1052					
		20. 18	·1050					
		20. 31	·1051					
		21. 18	·1045					
		22. 4	·1034					
		22. 36	·1033					
		23. 6:	·1040					
		23. 24	·1036					
		23. 59	·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 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. 20 h m	° ′ ″	Feb. 20 h m		Feb. 20 h m		Feb. 20 h m	°	°
0. 0	21. 47. 30 ***	0. 0	·1036	0. 0	·02282	1. 40	47 ·0	47 ·0
		0. 48	·1037	1. 25	·02241	3. 40	48 ·0	49 ·0
1. 30	47. 30 ***	1. 13	·1035	3. 52	·02020	9. 40	50 ·0	50 ·0
		1. 46	·1034	4. 4	·02017	21. 40	43 ·5	44 ·0
2. 2	48. 40	2. 2	·1036 ***	4. 24	·01968			
2. 17	50. 40			5. 10	·01916			
2. 23	50. 0	3. 18	·1032	5. 35	·01870			
2. 30	50. 40	3. 26	·1039	7. 30	·01728			
2. 59	49. 30	3. 34	·1034	7. 56	·01759			
3. 13	50. 0	3. 53	·1028	8. 58	·01683			
3. 17	51. 0	4. 6	·1031 ***	9. 32	·01673			
3. 22	49. 30 ***			10. 30	·01655			
		5. 13	·1029	10. 50	·01638			
4. 17	47. 20	5. 21	·1013 ***	11. 24	·01650			
4. 32	46. 30 ***			13. 12	·01698			
		6. 28	·1015	14. 55	·01801			
5. 7	47. 15	6. 50	·1023	19. 7	·02096			
5. 15	48. 10	7. 0	·1015	22. 36	·02078			
5. 22	47. 30	7. 13	·1004	23. 24	·02301			
5. 55	49. 15	7. 17	·1002					
6. 32	47. 0 ***	7. 30	·0987					
		7. 45	·1000					
6. 50	48. 30	7. 54	·1000					
7. 0	47. 20	8. 13	·1008					
7. 40	31. 10 ***	8. 20	·1019					
		8. 41	·1013					
8. 30	47. 0 ***	9. 5	·1021					
		9. 24	·1009					
9. 21	44. 30 ***	9. 55	·1028					
		10. 4	·1025					
9. 39	39. 30	10. 9	·1019					
9. 46	35. 15	10. 25	·1018					
9. 52	35. 10	10. 36	·1011					
9. 59	33. 20	10. 54	·0998					
10. 5	33. 30	11. 7	·1011					
10. 23	30. 0	11. 18	·1009					
10. 45	36. 5	11. 44	·1027					
10. 59	31. 50 ***	11. 58	·1015					
		12. 10	·1021					
11. 12	37. 0 ***	12. 33	·1027					
		13. 0	·1027					
11. 25	38. 40 ***	13. 5	·1031					
		13. 18	·1027					
11. 47	45. 0	13. 38	·1028					
12. 2	42. 10	13. 47	·1030					
12. 17	44. 50	14. 0	·1029					
12. 24	44. 30	14. 12	·1033					
12. 32	45. 40 ***	14. 45	·1037					
		16. 8	·1036 ***					
13. 3	45. 30 ***	18. 7	·1043 ***					
14. 0	49. 30 ***	19. 18	·1044 ***					
14. 13	52. 15 ***	19. 37	·1042 ***					
15. 29	47. 20 ***	20. 20	·1041 ***					
19. 9	46. 0 ***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 20		Feb. 20						
h m	° ′ ″	h m		h m		h m	°	°
19. 14	21. 45. 0 ***	20. 51	·1042 ***					
20. 16	46. 10 ***	22. 8	·1033 ***					
21. 0	45. 0 ***	22. 42	·1022					
		22. 45	·1024					
21. 40	47. 0 ***	22. 56	·1023					
		23. 7	·1017					
22. 43	47. 0 ***	23. 38	·1022					
		23. 45	·1023					
22. 52	48. 0 ***	23. 59	·1027					
23. 3	47. 0 ***							
23. 45	48. 30							
23. 59	47. 50							
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 0	21. 47. 50	0. 0	·1027 ***	0. 0	·02316	1. 40	46 ·0	47 ·0
0. 29	49. 30			0. 55	·02307	3. 40	48 ·0	48 ·0
0. 38	48. 20 ***	0. 54	·1031 ***	2. 20	·02245	9. 40	48 ·0	49 ·0
				5. 57	·01967	21. 40	42 ·8	44 ·0
2. 41	47. 30 ***	1. 22	·1022 ***	7. 26	·01820			
				7. 53	·01781			
3. 55	46. 30 ***	1. 45	·1030 ***	8. 6	{ ·01793 ·01918			
4. 36	44. 40 ***	2. 41	·1028 ***	8. 58	·01876			
				14. 56	·02088			
8. 3	45. 0 ***	3. 20	·1031 ***	18. 46	·02292			
				22. 5	·02448			
8. 29	44. 30	4. 36	·1030	22. 50	·02481			
8. 42	40. 0 ***	4. 55	·1032	23. 44	·02486			
		5. 1:	·1031					
9. 16	42. 40 ***	6. 0	·1027					
		6. 8	·1031					
9. 45	37. 55 ***	6. 13	·1029					
		6. 30	·1028					
10. 28	42. 30 ***	6. 51	·1032					
		7. 19	·1030					
10. 39	44. 0 ***	8. 0	·1033					
		8. 15	·1032					
12. 2	44. 5 ***	8. 28	·1037					
		8. 37	·1049					
12. 32	42. 30 ***	8. 48	·1045					
		8. 54	·1046					
13. 7	44. 35	9. 17	·1037					
14. 2	44. 50 (†)	9. 25	·1040					
		9. 47	·1038					
		9. 54	·1037					
		10. 3	·1037					
		10. 14	·1031					
		10. 27	·1035					
		10. 31	·1033					
		10. 54	·1035					
		11. 45	·1036					
		11. 55	·1038					
		12. 30	·1038					
		14. 21	·1042					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Feb. 21 h m		h m		h m	°	°
		14. 30	·1043					
		16. 46	·1049					
		18. 47	·1053					
		19. 29	·1054					
		21. 4	·1052					
		22. 18	·1045					
		22. 51	·1040					
		22. 55	·1036					
		23. 43	·1032					
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 0	21. 48. 0	0. 0	·1032	0. 0	·02499	1. 40	46 ·0	47 ·0
0. 55	48. 40	0. 22	·1033	1. 7	·02440	3. 40	49 ·0	49 ·0
1. 13	48. 30	0. 38	·1037	4. 0	·02183	9. 40	50 ·0	50 ·0
1. 43	50. 0	1. 39	·1037	5. 50	·01945	21. 40	46 ·0	47 ·0
2. 1	48. 40	2. 11	·1035	5. 59	·02018			
2. 38:	48. 50	2. 53	·1035	8. 30	·01897			
4. 10	47. 0	3. 15	·1038	9. 48	·01864			
4. 45	45. 15	4. 40	·1033	10. 8	·01870			
7. 59	44. 30	5. 15	·1034	11. 30	·01842			
8. 24	45. 20	5. 34:	·1031	15. 29	·01883			
9. 30	44. 0	6. 15	·1035	17. 20	·01923			
10. 18	45. 20	7. 7	·1043	20. 12	·02000			
10. 28	44. 55	7. 15	·1042	22. 25	·02099			
10. 37	45. 0	8. 0	·1042	23. 20	·02140			
11. 0	44. 50	9. 10	·1040	23. 55	·02146			
12. 16	45. 5	9. 41:	·1043					
12. 47	44. 40	10. 2	·1045					
13. 45	45. 0	10. 37	·1047					
14. 2	45. 10	11. 45	·1046					
14. 25	44. 50	12. 0	·1047					
15. 0	45. 50	12. 38	·1049					
15. 15	45. 30	13. 48	·1047					
15. 19	45. 40	12. 59	·1049					
15. 32	45. 5	13. 11	·1046					
16. 6	46. 0	13. 27	·1049					
16. 14	45. 10	13. 37	·1047					
18. 16	44. 30	14. 26	·1049					
20. 12	44. 30	15. 25	·1049					
21. 15	45. 0	15. 47	·1050					
21. 39	44. 20	17. 28	·1055					
22. 40	44. 15	18. 45	·1054					
23. 40	47. 40	19. 12	·1052					
23. 59	48. 0	19. 48	·1053					
		20. 15	·1050					
		20. 21	·1051					
		21. 0	·1050					
		21. 51	·1045					
		22. 34	·1043					
		23. 59	·1041					
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
0. 25	21. 50. 0	0. 35	·1041	0. 17	·02163	1. 40	49 ·0	50 ·0
0. 51	51. 0	1. 45	·1035	2. 5	·02064	3. 40	52 ·5	54 ·0
1. 35	50. 30	1. 55	·1031	2. 58	·01961	9. 40	54 ·0	54 ·0
2. 8	51. 15	2. 7	·1030	3. 48	·01822	23. 0	49 ·0	50 ·0
2. 55	51. 15	2. 30	·1033	4. 3	·01765			

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. 23		Feb. 23		Feb. 23				
h m	° ′ ″	h m		h m		h m	°	°
3. 47	21. 48. 45	2. 45	·1029	4. 22	·01781			
4. 6	49. 0	3. 17	·1028	4. 42	·01823			
4. 17	47. 40	4. 9	·1035	5. 2	·01776			
4. 47	48. 25	4. 17	·1031	5. 24	·01818			
6. 0	47. 30	4. 37	·1036	7. 27	·01855			
6. 30	46. 0	4. 49	·1037	16. 0	·02004			
6. 44	44. 40	4. 57	·1036	21. 6	·02315			
6. 48	45. 0	5. 39	·1038	23. 16	·02424			
7. 0	40. 35	5. 54	·1038					
7. 12	40. 30	6. 8	·1033					
7. 43	46. 20	6. 33	·1039					
8. 13	45. 10	6. 48	·1030					
8. 45	45. 5	7. 11	·1038					
9. 15	44. 40	7. 40	·1035					
10. 0	45. 0	7. 58	·1037					
10. 43	44. 35	8. 36	·1036					
11. 15	43. 30	8. 43	·1039					
11. 29	44. 0	8. 50	·1037					
11. 49	43. 0	9. 17	·1039					
11. 59	43. 10	9. 30	·1038					
12. 8	42. 50	9. 37	·1040					
13. 16	45. 10		***					
14. 22	45. 45	10. 55	·1039					
14. 35	44. 30	11. 6	·1041					
15. 31	45. 50	11. 18	·1056					
16. 6	45. 0	11. 55	·1047					
16. 50	45. 10	12. 27	·1039					
17. 14	43. 40	13. 49	·1037					
17. 59	45. 55	14. 45	·1040					
19. 57	45. 20	14. 59	·1042					
20. 13	46. 5	15. 6	·1040					
20. 47	44. 50	16. 15	·1040					
20. 59	45. 35	16. 25	·1042					
21. 13	44. 30		***					
21. 43	44. 0	17. 44	·1045					
23. 0	46. 10	18. 20	·1043					
23. 59	48. 5	18. 53	·1047					
		18. 55	·1045					
		19. 26	·1048					
		19. 54	·1049					
		20. 18	·1049					
		20. 37	·1048					
		20. 45	·1049					
		21. 56	·1043					
		23. 17	·1043					
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 0	21. 48. 5	0. 0	·1043	0. 0	·02437	9. 10	52 ·0	53 ·0
	***	0. 46	·1044	1. 50	·02461	21. 40	46 ·0	47 ·0
0. 51	50. 30	1. 28	·1046	3. 40	·02417			
0. 59	49. 30	1. 55	·1044	5. 47	·02244			
2. 21	50. 30	2. 40	·1044	7. 10	·02101			
2. 55	49. 0	2. 53	·1046	8. 12	·02028			
4. 43	47. 30	3. 1	·1044	8. 45	·02010			
6. 15	46. 30	3. 18	·1047	8. 47	·02123			
9. 14	47. 0	4. 22	·1051	10. 8	·02145			
9. 43	45. 20	5. 30	·1040	15. 22	·02522			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 24		Feb. 24		Feb. 24				
h m	° ′ ″	h m		h m		h m	°	°
9. 53	21. 45. 50	8. 0	·1040	17. 13	·02739			
	***	8. 47	·1044	21. 6	·02791			
10. 20	42. 50	9. 37	·1043	22. 30	·02778			
10. 51	44. 0	10. 12	·1038	23. 59	·02817			
	***	10. 22	·1039					
11. 20	43. 10	10. 36	·1036					
	***	11. 48	·1041					
11. 43	43. 55	11. 53	·1044					
11. 58	43. 15	12. 0	·1041					
12. 3	45. 5	12. 29	·1048					
12. 32	43. 40	12. 50	·1047					
12. 43	42. 50	13. 15	·1042					
13. 28	46. 25	13. 47	·1045					
13. 40	45. 30	13. 51	·1046					
14. 44	44. 30	13. 55	·1044					
14. 54	45. 40	14. 27	·1045					
15. 5	46. 0	14. 41	·1044					
15. 17	48. 0	14. 53	·1046					
16. 0	46. 40	15. 0	·1044					
16. 13	45. 35	15. 18	·1047					
17. 23	44. 10	15. 38	·1046					
17. 41	45. 30	16. 27	·1051					
17. 51	44. 40	17. 0	·1050					
18. 20	46. 30	18. 14	·1054					
18. 53	45. 35	18. 43	·1053					
22. 6	45. 30	19. 56	·1056					
	***	20. 14	·1055					
23. 12	44. 30	21. 35	·1057					
	***	22. 36	·1045					
23. 59	45. 0	23. 31	·1043					
		23. 59	·1039					
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 20	21. 47. 0	0. 0	·1039	1. 3	·02761	1. 40	49 ·0	50 ·0
	***	0. 45	·1045	2. 35	·02664	3. 40	52 ·0	53 ·0
1. 29	49. 30	2. 16	·1043	3. 30	·02536	9. 40	52 ·5	53 ·0
1. 46	49. 0	3. 49	·1040	6. 26	·02001	21. 40	50 ·0	51 ·0
	***	4. 16	·1037	7. 32	·01870			
2. 17	50. 30	4. 35	·1038	7. 34	·01937			
	***	5. 23	·1035	8. 13	·01916			
2. 30	49. 0	5. 34	·1036	8. 43	·01917			
	***	5. 48	·1035	9. 5	·01912			
4. 14	48. 30	6. 9	·1036	14. 52	·02056			
4. 29	47. 15	6. 32	·1033	18. 0	·02202			
5. 41	47. 15	7. 6	·1038	22. 33	·02422			
6. 18	47. 35		***	23. 59	·02408			
6. 57	47. 0	8. 12	·1039					
7. 7	47. 40	8. 28	·1036					
8. 30	46. 0	8. 37	·1040					
8. 47	44. 0	8. 46	·1036					
9. 6	32. 50	9. 7	·1061					
	***	9. 15	·1060					
9. 45	45. 0	9. 33	·1044					
	***	9. 40	·1034					
10. 30	43. 40	9. 55	·1030					
10. 45	44. 15	10. 44	·1038					
	***		***					
11. 13	39. 30	11. 9	·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.
Feb. 25		Feb. 25						
h m	° ′ ″	h m		h m		h m	°	°
11. 25	21. 43. 30	11. 15	·1049					
11. 47	40. 10	11. 56	·1048					
	***	12. 17	·1040					
12. 6	41. 50	13. 0	·1041					
	***	13. 40	·1043					
12. 17	41. 30	14. 22	·1042					
	***	14. 55	·1044					
12. 43	44. 30	15. 6	·1043					
	***		***					
13. 43	44. 40	16. 0	·1042					
	***	16. 57	·1047					
14. 2	47. 30	17. 44	·1044					
	***	18. 40	·1047					
14. 38	46. 0	20. 12	·1048					
	***	20. 19	·1046					
15. 45	45. 30		***					
	***	20. 46	·1048					
16. 5	46. 30	21. 53	·1044					
17. 26	45. 10	23. 43	·1031					
17. 45	46. 30	23. 59	·1033					
19. 15	45. 30							
	***							
21. 45	45. 20							
	***							
22. 10	45. 0							
	***							
23. 59	47. 10							
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 0	21. 47. 20	0. 0	·1033	0. 19	·02394	1. 40	53 ·5	54 ·5
	***	0. 6	·1035	2. 33	·02122	3. 40	56 ·0	57 ·0
1. 15	50. 0	0. 20	·1029	4. 24	·01750	9. 40	58 ·5	59 ·5
	***	0. 53	·1033	4. 35	·01760	21. 40	54 ·8	56 ·0
3. 2	50. 15	1. 49	·1036	5. 36	·01737			
5. 24	45. 40	1. 56	·1034	5. 43	·01781			
7. 2	43. 30	2. 21	·1037	6. 13	·01797			
7. 25	45. 30	2. 34	·1034	6. 20	·01896			
	***	3. 6	·1034	7. 14	·01781			
10. 0	45. 0	3. 22	·1032	7. 35	·01797			
	***	4. 2	·1031	11. 50	·01848			
11. 43	45. 35	5. 18	·1032	14. 41	·01897			
	***	5. 33	·1033	16. 50	·01984			
12. 45	45. 0	6. 14	·1029	20. 25	·02182			
	***	6. 28	·1033	21. 47	·02262			
13. 35	45. 15	6. 45	·1031	23. 42	·02313			
	***	7. 5	·1037					
14. 5	44. 30	7. 51	·1035					
	***	7. 56	·1037					
16. 11	44. 30	9. 29	·1036					
	***	9. 53	·1034					
16. 19	45. 30	10. 9	·1037					
	***	10. 40	·1036					
16. 50	44. 30	10. 47	·1034					
	***	12. 5	·1036					
17. 14	45. 40	12. 14	·1034					
	***	13. 28	·1039					
17. 45	44. 30	13. 46	·1042					
	***	14. 49	·1038					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet
Feb. 26		Feb. 26						
h m	° ′ ″	h m		h m		h m	°	°
20. 8	21. 46. 0	16. 51	·1037					
	***	17. 0	·1041					
21. 28	45. 0	17. 5	·1039					
	***		***					
23. 28	49. 0	18. 40	·1045					
		19. 36	·1044					
		20. 0	·1047					
			***					
		20. 49	·1045					
		21. 25	·1041					
		21. 47	·1043					
		22. 42	·1031					
		23. 23	·1031					
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
1. 40	21. 52. 1*	1. 40	·1024*	0. 16	·02301	1. 40	56 ·9	58 ·0
3. 40	51. 24*	3. 40	·1023*	1. 4	·02320	3. 40	58 ·0	59 ·0
9. 40	39. 40*	9 40	·1016*	1. 40	·02303	9. 40	57 ·5	59 ·0
21. 40	44. 33*	21. 40	·1024*	3. 50	·02175	21. 40	54 ·0	55 ·0
				5. 22	·02070			
					·02188			
				6. 26	·02160			
				7. 8	·02176			
				7. 58	·02178			
				13. 30	·02263			
				17. 0	·02424			
				19. 5	·02587			
				22. 47	·02774			
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
1. 40	21. 48. 58*	1. 40	·1021*	0. 0	·02811	1. 40	56 ·0	57 ·0
3. 40	48. 58*	3. 40	·1022*	1. 7	·02863	3. 40	56 ·0	57 ·0
9. 40	38. 17*	9. 40	·1027*	1. 26	·02860	9. 40	55 ·0	56 ·5
21. 40	45. 30*	21. 40	·1033*	1. 37	·02871	21. 40	49 ·8	51 ·0
				4. 10	·02856			
				6. 5	·02766			
				8. 0	·02742			
				12. 11	·02901			
				12. 26	·02940			
				12. 56	·02955			
				13. 24	·02980			
					·02912			
				16. 37	·02902			
				18. 0	·02894			
				19. 55	·02877			
				23. 15	·02840			
Feb. 29		Feb. 29		Feb. 29		Feb. 29		
	(†)		(†)	0. 0	·02822	1. 40	55 ·0	56 ·0
1. 33	21. 48. 30	1. 37	·1014	1. 10	·02731	3. 40	58 ·5	59 ·0
2. 40	48. 30	3. 19	·1002	2. 45	·02442	9. 40	57 ·5	59 ·0
3. 2:	47. 30	3. 43	·1005	5. 17	·01781	21. 40	49 ·5	51 ·0
4. 45	45. 0	3. 47	·1003		·01917			
5. 31:	44. 40	4. 6	·1005	6. 5	·01797			
7. 40	45. 0	4. 21	·1003	8. 5	·01758			
8. 6	46. 0	4. 41	·1004	8. 37	·01797			
	***	4. 46	·0997	8. 52	·01870			
9. 17	44. 15		***	9. 50	·01961			
	***							

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.
Feb. 29		Feb. 29		Feb. 29		h m	°	°
h m	° ′ ″	h m		h m				
11. 57	21. 46. 30	5. 47	·0999	14. 18	·02502			
	***		***					
				17. 0	·02848			
13. 0	45. 35	7. 10	·1000		·02762			
14. 2	46. 40	7. 54	·1005	18. 35	·02802			
	***	8. 34	·1005	21. 0	·02798			
14. 57	45. 55	8. 37	·1007					
	***	8. 55	·1005					
18. 31	46. 30	9. 32	·1006					
	***	11. 9	·1011					
19. 51	46. 20	11. 24	·1015					
	(†)	11. 36	·1013					
20. 36	47. 40	12. 24	·1015					
	***	12. 52	·1018					
21. 16	45. 30	13. 18	·1015					
21. 50	47. 0	14. 9	·1019					
	***	15. 15	·1019					
23. 30	36. 40	18. 20	·1028					
	***	20. 1:	·1031					
23. 59	47. 0	21. 51	·1029					
		22. 10	·1027					
		22. 34	·1023					
		22. 54	·1023					
		23. 18	·1017					
		23. 59	·1017					
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 0	21. 47. 0	0. 0	·1017	1. 8	·02735	1. 40	51 ·0	52 ·0
0. 43	47. 30	0. 41	·1013	1. 43	·02735	3. 40	53 ·0	54 ·0
	***	0. 52	·1015	3. 13	·02661	9. 40	53 ·5	54 ·5
1. 2	49. 30	1. 5	·1013	4. 37	·02531	23. 19	49 ·0	50 ·0
	***	3. 42	·1013	5. 15	·02419			
2. 1	48. 30	4. 3	·1014	6. 22	·02316			
2. 9	49. 10	4. 18	·1011	8. 5	·02193			
2. 31	48. 10	5. 19	·1018	10. 6	·02174			
3. 0	48. 25	6. 46	·1023	16. 50	·02395			
3. 46	47. 10	7. 6	·1022	18. 1	·02457			
4. 2	47. 5	7. 40	·1023	18. 59	·02509			
4. 15	45. 30	7. 49	·1024	19. 55	·02571			
4. 45	45. 0	8. 15	·1021	23. 19	·02718			
4. 52	45. 10	8. 43	·1022					
5. 1	44. 45	8. 55	·1019					
5. 32	44. 25	9. 29	·1021					
6. 0	44. 35	10. 4	·1027					
6. 13	44. 25	10. 21	·1023					
6. 29	45. 10	10. 46	·1025					
9. 28	45. 0	11. 30	·1025					
9. 47	41. 20	11. 37	·1026					
10. 23	43. 50	12. 45	·1028					
10. 55	45. 0	13. 30	·1027					
11. 52	45. 40	13. 40	·1025					
13. 50	45. 20		***					
14. 13	46. 0	16. 0	·1029					
15. 8	45. 40	16. 15	·1031					
16. 14	46. 10	16. 37	·1030					
16. 33	46. 55	16. 52	·1032					
16. 42	46. 30	17. 55:	·1028					
17. 11	45. 20	18. 34	·1033					
17. 17	45. 40	21. 54	·1025					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 1		Mar. 1						
h m	° ′ ″	h m		h m		h m	°	°
17. 30	21. 45. 10	23. 34	·1020					
17. 49	46. 20	23. 59	·1022					
18. 8	46. 45							
18. 18	46. 0							
21. 6	45. 0							
21. 46	44. 0							
22. 5	44. 30							
22. 14	44. 0							
23. 5	46. 20							
23. 13	45. 20							
23. 59	47. 25							
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 0	21. 47. 40	0. 0	·1022	0. 13	·02721	9. 40	50 ·0	51 ·0
1. 1	50. 30	0. 35	·1020	1. 50	·02775	21. 50	48 ·0	49 ·0
1. 51	49. 20	0. 51	·1022		·02600			
2. 15	49. 30	1. 16	·1017	3. 20	·02838			
2. 52	48. 30	2. 29	·1026	4. 57	·02659			
3. 3	48. 50	3. 37	·1024	6. 48	·02763			
3. 17	48. 0	5. 24	·1035	8. 14	·02694			
3. 43	48. 0	6. 49	·1035	8. 50	·02696			
5. 10	45. 50	7. 15	·1031	9. 33	·02717			
9. 21	46. 0	7. 43	·1033	11. 22	·02714			
9. 45	45. 0	8. 7	·1030	15. 11	·02838			
11. 3	45. 30	8. 20	·1035	15. 52	·02815			
12. 0	45. 15	9. 13	·1038	18. 25	·02764			
	***	9. 21	·1035	19. 0	·02760			
14. 28	45. 10	10. 25	·1036	19. 47	·02738			
	***	10. 44	·1033	21. 7	·02717			
14. 47	47. 0	10. 52	·1036	23. 33	·02740			
14. 57	46. 5	11. 0	·1034					
15. 7	46. 30	12. 15	·1034					
15. 15	45. 50	12. 33	·1033					
15. 38	45. 30	13. 7	·1037					
15. 47	43. 30	13. 18	·1033					
16. 5	42. 30	13. 46	·1034					
16. 13	42. 55	14. 5	·1031					
16. 26	42. 30	14. 13	·1033					
16. 35	43. 15	14. 50	·1032					
17. 34	42. 45	15. 29:	·1037					
17. 45	43. 10	15. 45	·1034					
17. 54	42. 30	16. 27	·1031					
18. 10	43. 30	16. 45	·1028					
	***	17. 31	·1032					
21. 35	45. 20	19. 42	·1032					
	***	20. 30	·1031					
22. 20	44. 30	21. 8	·1031					
	***	23. 0	·1019					
23. 59	48. 0	23. 54	·1022					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 0	21. 48. 10		(†)	0. 27	·02682	1. 40	51 ·0	52 ·0
0. 47	51. 20	1. 19	·1020	1. 44	·02617	3. 40	53 ·5	53 ·5
	***	2. 0	·1022	3. 26	·02451	9. 40	54 ·0	54 ·0
1. 24	50. 10	2. 27	·1022	4. 50	·02270	21. 40	48 ·0	49 ·0
	***	2. 47	·1018	5. 26	·02182			
3. 26	50. 0	3. 4	·1019	6. 40	·02050			
	***	3. 15	·1017	8. 43	·01927			

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. 3		Mar. 3		Mar. 3				
h m	° ′ ″	h m		h m		h m	°	°
4. 5	21. 47. 40	3. 34	·1018	11. 8	·01970			
4. 18	48. 0	4. 0	·1016	12. 10	·02036			
4. 45	47. 0	4. 18	·1017	17. 30	·02400			
5. 4	45. 0	4. 46	·1013	20. 10	·02606			
	***	5. 29	·1019	21. 24	·02637			
8. 55	45. 20	6. 0	·1021	21. 55	·02525			
9. 13	43. 50	6. 8	·1025		·02693			
9. 32	43. 10	6. 13	·1022	23. 20	·02683			
10. 0	45. 20		***	23. 43	·02697			
10. 47	44. 30	6. 30	·1023					
11. 2	45. 10		***					
11. 32	44. 40	7. 9	·1026					
11. 47	45. 25	7. 33	·1019					
12. 1	45. 0	8. 21	·1022					
12. 12	45. 20	8. 55	·1026					
	***	9. 12	·1026					
13. 47	45. 0	9. 21	·1029					
	***	9. 53	·1028					
14. 25	46. 45	9. 58	·1027					
	***	10. 35	·1032					
14. 50	44. 10	11. 9	·1029					
	***	11. 45	·1031					
15. 9	46. 15	11. 59	·1027					
	***	12. 41	·1029					
15. 59	44. 50	13. 45	·1029					
	***	14. 13	·1031					
16. 30	46. 0	14. 40	·1037					
17. 1	44. 55	15. 7	·1036					
	***	15. 48	·1040					
17. 15	43. 30	16. 16	·1035					
	***	18. 16	·1047					
17. 32	44. 30	18. 55	·1043					
	***	19. 7	·1045					
18. 5	43. 0	19. 12	·1040					
19. 2	44. 0	20. 0	·1041					
19. 13	45. 0	20. 35	·1046					
	***	22. 13	·1039					
19. 46	45. 40	23. 47	·1033					
19. 55	45. 0	23. 59	·1021					
20. 29	46. 30							
21. 1	45. 35							
	***							
21. 45	46. 40							
	***							
22. 18	45. 30							
	***							
23. 44	46. 30							
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 2	21. 46. 50	0. 0	·1021	0. 0	·02700	1. 40	50 ·0	51 ·0
1. 8	48. 0	0. 37	·1030	1. 24	·02683	3. 40	52 ·5	53 ·5
2. 20	47. 45	1. 30	·1032	2. 15	·02638	9. 40	52 ·5	53 ·5
2. 30	48. 25	1. 43	·1031	6. 0	·02256	21. 40	46 ·0	47 ·0
3. 0	47. 30	1. 57	·1031	7. 56	·02123			
3. 19	47. 50	2. 48	·1025	9. 19	·02081			
4. 15	46. 5	3. 12	·1025	10. 8	·02087			
4. 23	46. 15	3. 21	·1028	10. 40	·02116			
4. 47	45. 10	4. 0	·1025	10. 56	·02098			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 4		Mar. 4		Mar. 4				
h m	° ′ ″	h m		h m		h m	°	°
6. 25	21. 44. 0	4. 24	·1027	14. 33	·02287			
6. 30	45. 0	5. 0	·1026	20. 2	·02706			
6. 40	44. 15	5. 14	·1028		·02643			
	***	5. 40	·1025	22. 24	·02670			
7. 2	45. 0	6. 21	·1029	22. 58	·02676			
7. 13	44. 0	6. 45	·1028	23. 45	·02705			
	***	7. 8	·1031					
7. 57	46. 40	7. 34	·1029					
8. 17	46. 10	7. 45	·1031					
8. 26	45. 0	8. 44	·1034					
	***	8. 55	·1031					
9. 13	44. 50	9. 6	·1034					
9. 17	43. 45	9. 44	·1034					
9. 38	43. 30	10. 24:	·1025					
9. 40	42. 30	10. 33	·1035					
10. 10	42. 30	10. 48	·1038					
10. 43	45. 10	11. 37	·1030					
11. 13	40. 30	13. 35	·1032					
11. 33	38. 20	13. 48	·1029					
11. 59	42. 0	14. 46	·1032					
12. 16:	44. 0	14. 51	·1035					
12. 44	44. 10	14. 55	·1033					
13. 10	43. 0	15. 39	·1032					
13. 59	45. 0	16. 7	·1039					
14. 27	44. 0	16. 33	·1041					
14. 42	44. 45	16. 50	·1036					
14. 53	46. 25	17. 17	·1041					
15. 17	45. 0	18. 15	·1043					
15. 25	45. 30	19. 4	·1041					
15. 52	45. 30	19. 13	·1037					
	***	19. 29	·1039					
16. 39	42. 5	19. 46	·1037					
	***	20. 21	·1036					
17. 6	44. 20	20. 30	·1042					
19. 21	45. 15	20. 38	·1045					
19. 43	45. 0	22. 18	·1048					
21. 3	45. 30		***					
21. 17	45. 30	23. 45	·1037					
21. 27	44. 0	23. 59	·1039					
21. 40	43. 0							
22. 10	45. 0							
	***							
22. 46	45. 0							
	***							
23. 34	45. 50							
23. 59	46. 25							
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 0	21. 46. 30	0. 0	·1039	0. 0	·02684	1. 40	48 ·0	49 ·0
2. 10	47. 15	2. 54	·1037	1. 12	·02702	3. 40	51 ·0	52 ·0
3. 45	46. 20	3. 7	·1034	2. 10	·02663	9. 40	52 ·5	53 ·0
6. 30	44. 40	3. 13	·1036	3. 26	·02557	21. 40	51 ·0	52 ·0
8. 52	44. 25	5. 0	·1024	4. 35	·02421			
10. 10	44. 55	8. 50	·1025	6. 17	·02183			
10. 28	44. 30	11. 31	·1029	7. 42	·02040			
11. 34	45. 25	11. 44	·1037	8. 49	·01958			
	***	11. 56	·1033	10. 5	·01918			
12. 15	42. 50	12. 29	·1027	13. 52	·01966			
	***							

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. 5		Mar. 5		Mar. 5				
h m	° ′ ″	h m		h m		h m	°	°
12. 46	21. 44. 30	13. 6	·1029	20. 4	·02251			
	***	14. 31	·1031	22. 30	·02346			
13. 10	43. 30	15. 43	·1032	23. 40	·02317			
	***	16. 25	·1034					
13. 19	44. 35	16. 40	·1035					
	***	17. 17	·1028					
13. 43	44. 35	18. 6	·1045					
	***	19. 40	·1044					
14. 11	45. 55	20. 39	·1048					
	***	22. 21	·1039					
14. 59	43. 40	23. 5	·1032					
	***	23. 59	·1030					
15. 18	42. 45							
15. 31	43. 55							
16. 5	43. 55							
16. 16	43. 10							
16. 31	42. 55							
16. 47	42. 15							
	***							
17. 31	47. 30							
	***							
18. 3	43. 15							
	***							
18. 45	42. 10							
	***							
19. 32	44. 35							
	***							
20. 18	44. 30							
	***							
20. 33	42. 40							
	***							
21. 15	44. 30							
	***							
23. 59	49. 30							
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 0	21. 49. 35	0. 0	·1030	0. 0	·02413	1. 40	50 ·5	52 ·0
	***	1. 3	·1025	1. 14	·02406	3. 40	55 ·0	56 ·5
0. 25	50. 50		(†)	2. 24	·02358	9. 40	53 ·0	54 ·5
	***	2. 42	·1020	2. 56	·02321	21. 40	47 ·0	48 ·0
1. 27	50. 30	3. 27	·1020	5. 10	·02124			
	***	3. 36	·1016	8. 13	·01920			
2. 27	51. 35	4. 8	·1018	8. 55	·01893			
3. 25	52. 40	4. 18	·1015	10. 27	·01912			
3. 34	51. 30	4. 26	·1016	14. 17	·02081			
4. 44	49. 0	4. 40	·1014	16. 56	·02280			
5. 6	49. 45	4. 50	·1016	17. 20	·02285			
5. 17	48. 40	5. 5	·1015	19. 48	·02532			
6. 2	47. 50	5. 16	·1009	22. 30	·02680			
7. 13	47. 10	5. 44	·1007		·02570			
7. 43	45. 55	6. 30	·1012	23. 59	·02637			
9. 16	44. 30	6. 53	·1009					
11. 15	44. 0	7. 8	·1009					
	***	7. 15	·1007					
11. 54	44. 10	8. 6	·1014					
	***	8. 13	·1015					
12. 2	43. 55	9. 7	·1017					
	***	9. 54	·1019					
12. 17	45. 0	10. 8	·1017					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 6		Mar. 6						
h m	° ′ ″	h m		h m		h m	°	°
12. 55	21. 40. 45	10. 18	·1021					
13. 28	42. 30	11. 10	·1021					
13. 38	41. 10	11. 24	·1026					
13. 45	40. 30	11. 33	·1025					
	***	11. 53	·1027					
14. 0	38. 0	12. 0	·1025					
14. 16	38. 30	12. 15	·1027					
14. 41	42. 0	12. 45	·1026					
	***	13. 0	·1028					
15. 44	41. 50	13. 11	·1024					
15. 49	42. 45	13. 29	·1024					
16. 1	42. 20	13. 42	·1027					
	***	14. 17	·1024					
16. 16	43. 30	14. 34	·1021					
16. 32	43. 15	14. 50	·1025					
16. 57	51. 10	16. 6	·1026					
17. 31	42. 0	16. 53	·1029					
	***	17. 15	·1039					
20. 32	45. 40	17. 27	·1041					
20. 46	46. 30	17. 40	·1036					
21. 0	45. 30	18. 28	·1035					
	***	19. 0	·1036					
22. 28	47. 0	19. 44	·1035					
	***	20. 0	·1023					
23. 59	47. 0	20. 11	·1035					
		20. 50	·1033					
		21. 1	·1030					
		21. 34	·1031					
		22. 14	·1030					
		22. 44	·1033					
		23. 0	·1031					
		23. 34	·1028					
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 0	21. 47. 0		(†)	0. 37	·02641	1. 40	48 ·0	49 ·0
2. 15	47. 25	0. 51	·1026	1. 42	·02648	3. 40	50 ·5	51 ·5
2. 25	46. 40	2. 3	·1029	2. 16	·02626	9. 40	50 ·0	51 ·0
2. 30	48. 50	2. 30	·1028	2. 24	·02540	21. 40	42· 5	44 ·0
3. 2	46. 40	2. 36	·1035	2. 54	·02494			
3. 8	47. 50	2. 52	·1032		·02597			
3. 58	47. 20	3. 7	·1032	5. 28	·02401			
4. 14	45. 50	3. 14	·1037	6. 20	·02317			
4. 36	46. 0	3. 32	·1031	7. 54	·02216			
4. 45	46. 0	4. 0	·1032	9. 0	·02174			
6. 17	44. 40	4. 11	·1023	9. 46	·02168			
6. 32	45. 10	4. 38	·1028	11. 37	·02203			
6. 52	44. 40	4. 44	·1026	13. 57	·02407			
8. 2	45. 5		***	14. 24	·02416			
8. 18	43. 55	6. 13	·1025	16. 10	·02641			
8. 27	44. 30	6. 32	·1032		·02573			
8. 44	44. 20	7. 20	·1029	18. 52	·02614			
9. 0	45. 25	8. 7	·1028	21. 0	·02522			
9. 20	45. 10	8. 24	·1033	22. 35	·02458			
9. 33	45. 30	8. 49	·1027	23. 7	·02465			
9. 45	45. 0	9. 3	·1027	23. 32	·02437			
10. 59	45. 30	9. 15	·1025					
12. 32	45. 15	9. 29	·1027					
13. 30	45. 0	9. 46	·1025					

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. 7		Mar. 7						
h m	° ′ ″	h m		h m		h m	°	°
14. 13	21. 46. 10	10. 30	·1028					
14. 24	44. 15	10. 41	·1030					
14. 48	43. 0	11. 15:	·1031					
15. 13	44. 0	13. 54	·1036					
15. 22	45. 10	14. 24	·1040					
15. 45	45. 20	14. 40	·1037					
16. 7	44. 0	15. 22	·1045					
16. 37	45. 0	15. 39	·1045					
17. 29	44. 15	16. 15	·1043					
17. 35	45. 55	16. 39	·1043					
17. 47	46. 15	16. 45	·1041					
18. 0	43. 0	17. 28	·1043					
	***	17. 41	·1049					
19. 27	44. 40	18. 3	·1046					
	***	18. 20	·1053					
19. 44	43. 30	18. 30	·1051					
	***	18. 49	·1049					
20. 52	47. 40	18. 56	·1053					
21. 1	49. 15	19. 12	·1053					
	***	19. 51	·1046					
21. 45	49. 30	20. 14	·1045					
	***	20. 19	·1037					
22. 21	47. 0	20. 55	·1033					
	***	21. 2	·1031					
22. 57	50. 0	21. 14	·1035					
	***	21. 18	·1035					
23. 28	47. 0	21. 24	·1032					
23. 59	47. 40	21. 33	·1035					
		21. 53	·1035					
		22. 11	·1017					
		22. 21	·1014					
		22. 32	·1015					
		22. 36	·1013					
		22. 57	·1017					
		23. 59	·1025					
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 0	21. 47. 40	0. 0	·1025	0. 0	·02417	1. 40	45 ·0	46 ·0
0. 27	47. 15	0. 7	·1031	2. 0	·02300	3. 40	48 ·0	49 ·0
2. 42	49. 0	0. 15	·1026	2. 9	·02307	9. 40	50 ·0	51 ·5
2. 53	48. 30	0. 24	·1032	3. 15	·02194	22. 52	46 ·0	47 ·5
3. 15	49. 20	0. 28	·1031	6. 0	·01756			
3. 35	48. 30	0. 45	·1035	8. 11	·01581			
3. 45	48. 30	1. 0	·1031	8. 50	·01547			
4. 39	46. 40	1. 5	·1030		·01643			
4. 57	46. 35	1. 35	·1032	13. 12	·01556			
5. 1	47. 10	1. 53	·1027	16. 50	·01685			
5. 27	46. 40	2. 14	·1033	23. 8	·02017			
6. 16	46. 10	2. 28	·1034					
6. 49	47. 10	2. 30	·1033					
7. 15	47. 10	2. 55	·1035					
7. 20	46. 50	3. 6	·1031					
8. 13	45. 10	3. 27	·1033					
8. 29	43. 0	3. 36	·1032					
8. 40	41. 45	3. 45	·1034					
8. 51	42. 35	5. 28	·1035					
9. 3	42. 5	5. 30	·1027					
	***	5. 33	·1035					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 8		Mar. 8						
h m	° ′ ″	h m		h m		h m	°	°
9. 16	21. 43. 15	6. 11	·1036					
9. 21	42. 40	6. 15	·1037					
10. 3	43. 10	6. 17	·1035					
10. 50	38. 35	6. 33	·1037					
11. 13	39. 0	7. 45	·1032					
11. 20	37. 50	7. 57	·1031					
11. 45	41. 50	8. 14	·1026					
11. 58	38. 50	8. 29	·1028					
12. 26	43. 20	8. 40	·1027					
12. 45	43. 30	9. 0	·1024					
13. 0	42. 35	9. 11	·1023					
13. 30	43. 40	9. 15	·1026					
13. 40	43. 40	9. 18	1023					
14. 10	46. 10	9. 57	·1029					
14. 23	46. 40		***					
14. 35:	45. 30	10. 32	·1025					
14. 46	46. 0	10. 39	·1032					
14. 59	44. 50	10. 55	·1033					
15. 27	46. 30	11. 18	·1045					
15. 37	45. 30	11. 47	·1037					
15. 44	46. 0	12. 7	·1040					
15. 47	45. 15		***					
15. 58	45. 30	13. 20	·1039					
16. 30	45. 55	13. 30	·1037					
17. 13	46. 0	14. 7	·1036					
17. 25	45. 15	14. 15	·1038					
18. 16	46. 5	14. 33	·1035					
18. 49	47. 10	15. 22	·1034					
19. 15	47. 25	15. 35	·1032					
19. 19	46. 55	15. 45	·1034					
20. 14	45. 5	16. 7	·1032					
	***		***					
20. 51	46. 0	16. 56	·1032					
21. 7	45. 30	17. 4	·1040					
21. 21	47. 30	17. 16	·1033					
	***	17. 45	·1029					
22. 10	47. 10	17. 53	·1032					
22. 19	48. 5	18. 20	·1028					
22. 33	50. 0	19. 15	·1032					
	***		***					
23. 45	50. 30	19. 44	·1031					
23. 56	49. 30	19. 59	·1029					
23. 59	50. 20	21. 6	·1035					
		21. 13	·1037					
		21. 47	·1026					
		23. 0	·1012					
		23. 41	·1022					
		23. 54	·1027					
		23. 59	·1029					
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 0	21. 50. 30	0. 0	·1029	0. 0	·02023	9. 15	48 ·0	48 ·5
0. 25:	51. 10	0. 25	·1029	0. 58	·02076	21. 40	45 ·0	46 ·5
0. 50	50. 0	0. 47	·1021	3. 13	·02066			
	***	0. 57	·1021	4. 54	·02017			
1. 2	51. 0	1. 6	·1016	5. 56	·01966			
1. 13	49. 30		***	9. 50	·01858			
	***	1. 15	·1022	14. 25	·01824			
			***					

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. 9		Mar. 9		Mar. 9				
h m	° ′ ″	h m		h m		h m	°	°
1. 39	21. 50. 30	1. 37	·1026	16. 10	·01883			
1. 43	49. 5	1. 58	·1036	17. 40	·01974			
2. 20	47. 40	2. 9	·1034	19. 37	·02117			
4. 8	45. 20	2. 29	·1037	21. 15	·02199			
5. 30	45. 10		***	22. 10	·02113			
6. 20	46. 10	3. 19	·1034	23. 13	·02081			
7. 18	44. 40		(†)					
7. 31	45. 30	4. 18	·1031					
7. 48	44. 15		***					
7. 59	45. 0	5. 20	·1029					
8. 17	42. 50	6. 3	·1030					
8. 35	44. 35	6. 12	·1033					
9. 25	45. 10	6. 25	·1031					
9. 48	43. 0		***					
10. 12	44. 10	8. 30	·1032					
10. 50	43. 50	8. 45	·1034					
11. 13	44. 0	9. 46	·1031					
11. 53	45. 5	11. 1	·1033					
12. 15	44. 5	12. 33	·1033					
13. 17	45. 35	15. 18	·1034					
14. 24	46. 30	16. 0	·1032					
15. 40	45. 30	16. 35	·1035					
16. 15	46. 30	18. 54	·1037					
18. 17	45. 20	19. 33	·1039					
	***	20. 0	·1036					
19. 46	46. 0	21. 1	·1035					
	***	21. 40	·1036					
21. 25	45. 10	22. 49	·1033					
21. 33	46. 0	23. 59	·1020					
	***							
22. 49	45. 30							
	***							
23. 46	48. 10							
23. 59	47. 30							
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
0. 0	21. 47. 20	0. 0	·1020	1. 13	·02040	1. 40	44 ·0	45 ·0
1. 30	49. 30	0. 27	·1023	2. 55	·01925	3. 40	50 ·0	51 ·0
2. 40	49. 0	1. 37	·1027	3. 42	·01839	9. 40	54 ·7	56 ·0
2. 57	48. 5	2. 27	·1023	4. 47	·01465	21. 40	47 ·0	48 ·0
3. 23	48. 0	2. 43	·1021		·01787			
4. 30	46. 10		***	5. 40	·01716			
5. 0	46. 30	4. 17	·1018	6. 25	·01715			
7. 18	46. 20	4. 40	·1017	6. 54	·01736			
	***	7. 5	·1017	7. 55	·01725			
11. 15	45. 40	7. 21	·1007	8. 28	·01690			
12. 33	46. 0	7. 48	·1021	9. 25	·01658			
13. 33	45. 55	8. 6	·1020	11. 0	·01652			
14. 9	46. 45	8. 21	·1015	11. 58	·01681			
14. 25	46. 5	8. 37	·1017	15. 25	·01840			
14. 47	46. 35	9. 3	·1017	18. 20	·01875			
15. 24	45. 50	9. 14	·1019	21. 52	·02344			
15. 35	46. 10	9. 17	·1018	23. 10	·02448			
16. 31	46. 0	9. 25	·1020	23. 45	·02515			
16. 45	46. 30	13. 18	·1024	23. 59	·02532			
18. 59	44. 55	13. 44	·1022					
19. 20	40. 40	14. 18	·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.
Mar. 10		Mar. 10				Mar. 11		
h m	° ′ ″	h m		h m		h m	°	°
19. 30	21. 41. 10	14. 42	·1025			1. 40	49 ·5	50 ·5
19. 38	40. 35	15. 9	·1027			3. 40	51 ·8	52 ·5
20. 2	44. 5	15. 20	·1025			9. 40	51 ·0	52 ·0
20. 30	43. 30	18. 28	·1033			21. 40	41 ·0	42 ·0
21. 30	45. 30	19. 13	·1030					
22. 27	45. 40	22. 30	·1021					
23. 59	48. 0	23. 59	·1018					
Mar. 11		Mar. 11						
0. 0	21. 48. 0	0. 0	·1018	0. 23	·02537			
2. 18	49. 10	1. 40	·1018*	1. 5	·02537			
3. 38	47. 30	3. 40	·1019*	2. 22	·02466			
4. 12	46. 30	9. 40	·1026*	4. 4	·02302			
	***	21. 40	·1034*	6. 45	·02086			
7. 30	46. 0			7. 2	·02098			
	***				·02236			
8. 30	46. 0			7. 45	·02181			
	***			8. 52	·02203			
9. 5	42. 40			10. 30	·02277			
	***			14. 59	·02770			
9. 32	43. 0				·02602			
9. 51	47. 0			16. 30	·02617			
10. 20	44. 30			18. 5	·02581			
10. 28	44. 40			20. 10	·02594			
10. 36	44. 10			22. 13	·02336			
11. 7	45. 20			23. 15	·02477			
11. 16	46. 10			23. 59	·02469			
11. 32	45. 30							
12. 6	45. 35							
12. 14	46. 5							
12. 44	45. 30							
13. 29	46. 50							
14. 28	45. 50							
14. 47	46. 45							
15. 27	45. 55							
16. 47	46. 10							
17. 44	44. 30							
18. 30	45. 15							
19. 0	43. 0							
19. 16	43. 55							
19. 29	43. 30							
19. 40	44. 0							
19. 46	43. 53							
20. 6	44. 35							
20. 13	43. 10							
20. 15	44. 0							
20. 20	43. 30							
20. 32	44. 30							
20. 40	44. 0							
20. 47	44. 45							
20. 55	44. 25							
21. 17	45. 10							
21. 29	44. 0							
21. 46	45. 0							
21. 55	44. 30							
	***							
23. 59	48. 25							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 20	0. 30	·1031	0. 35	·02431	1. 40	45 ·0	46 ·0
1. 0	47. 55	1. 47	·1029	1. 32	·02381	3. 40	48 ·0	48 ·5
2. 45	46. 30	2. 9	·1027	2. 30	·02277	9. 40	50 ·0	50 ·0
5. 16	43. 40	2. 16	·1029	5. 14	·01772	21. 40	42 ·0	44 ·0
7. 10	43. 45	3. 1	·1025	6. 5	·01670			
8. 32	45. 15	3. 31	·1024	6. 55	·01612			
9. 48	45. 0	4. 7	·1026	9. 13	·01685			
10. 40	43. 20	5. 28	·1023	14. 57	·02058			
10. 59	44. 0	6. 30	·1027	19. 11	·02404			
11. 11	45. 50	7. 0	·1026	20. 8	·02461			
11. 29	43. 15	7. 11	·1028	21. 29	{·02560			
11. 47	43. 10	7. 55	·1027		{·02500			
12. 8	43. 50	10. 37	·1032	22. 44	·02492			
13. 45	45. 0	10. 45	·1032	23. 22	·02536			
14. 28	45. 10	10. 58	·1034					
	(†)	11. 21	·1031					
17. 43	44. 0	11. 30	·1033					
	***	12. 5	·1034					
19. 40	44. 40	12. 47	·1034					
	***	13. 47	·1032					
20. 2	43. 20	14. 37	·1036					
	***	15. 11	·1036					
20. 43	43. 50	15. 32	·1038					
20. 53	42. 35	15. 54	·1037					
21. 6	43. 15	16. 32	·1038					
21. 16	42. 30	17. 5	·1043					
23. 59	46. 20	17. 35	·1042					
		18. 6	·1045					
		18. 10	·1047					
		18. 40	·1045					
		19. 2	·1041					
			***					
		19. 55	·1043					
		20. 7	·1046					
			***					
		21. 15	·1042					
		22. 25	·1033					
		22. 49	·1027					
		23. 20	·1028					
		23. 46	·1026					
		23. 59	·1023					
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
0. 0	21. 46. 30	0. 0	·1023	0. 0	·02551	1. 40	52 ·0	52 ·0
0. 58	48. 30	0. 34	·1020	0. 41	·02556	3. 40	51 ·0	52 ·0
2. 2	48. 35	1. 30	·1010	1. 27	·02521	9. 40	51 ·0	51 ·0
2. 25	49. 55	1. 41	·1012	2. 10	·02422	21. 40	43 ·0	44 ·0
5. 10	44. 55	1. 48	·1011	3. 22	·02181			
6. 38	43. 35	1. 55	·1012	4. 42	{·01890			
8. 47	44. 0	2. 18	·1011		{·01974			
8. 58	47. 10	2. 30	·1012	6. 26	·01975			
9. 13	47. 25	3. 3	·1011	7. 3	·02022			
9. 28	45. 20	4. 24	·1013	9. 11	·02061			
	***	4. 34	·1006	14. 26	·02384			
11. 0	45. 0	6. 30	·0997	16. 13	{·02612			
	***	6. 52	·0999		{·02630			
11. 47	46. 15	6. 54	·1007	19. 47	·02584			
12. 6	43. 15	7. 14	·1006	20. 45	·02563			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13		Mar. 13		Mar. 13				
h m	° ′ ″	h m		h m		h m	°	°
12. 45	21. 44. 30	7. 20	·1011	23. 42	·02541			
13. 31	44. 40	7. 43	·1007					
14. 1	44. 15	7. 50	·1013					
14. 31	45. 10	8. 12	·1014					
15. 48	44. 35	8. 25	·1016					
19. 57	45. 35	8. 44	·1016					
20. 26	45. 10	8. 53	·1018					
	(†)	9. 13	·1016					
21. 40	44. 4 *	9. 21	·1017					
		9. 55	·1017					
		10. 6	·1019					
		10. 20	·1016					
		10. 29	·1017					
		10. 40	·1023					
		10. 44	·1014					
		10. 58	·1023					
			***					
		12. 30	·1018					
		12. 55	·1026					
		13. 9	·1023					
		14. 12	·1024					
		14. 52	·1029					
		16. 39	·1030					
		17. 48	·1034					
		18. 0	·1037					
			***					
		19. 53	·1037					
		20. 47	·1036					
		21. 4	·1042					
		21. 33	·1037					
		21. 45	·1038					
			***					
		22. 32	·1035					
		23. 30	·1028					
		23. 59	·1022					
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
0. 3	21. 49. 0	0. 0	·1021	0. 12	·02508	1. 40	46 ·0	46 ·0
0. 55	50. 30	1. 12	·1010	1. 26	·02483	3. 40	49 ·0	50 ·0
	***	1. 18	·1007	1. 54	·02461	9. 40	50 ·0	51 ·0
2. 12	50. 30	1. 27	·1006	3. 32	·02243	21. 40	42 ·0	44 ·0
2. 48	48. 35	2. 16	·1006	4. 42	·02041			
3. 45	47. 30		***	5. 56	·01876			
4. 17	47. 0	2. 43	·1004	6. 47	·01856			
5. 16	46. 0	3. 37	·1010	7. 24	.01885			
5. 59	44. 40	3. 50	·1007	9. 52	·01922			
6. 40	44. 40	4. 4	·1010	11. 35	·01984			
6. 56	44. 20		***	14. 46	·02194			
7. 22	44. 30	4. 24	·1007	14. 53	·02375			
7. 45	44. 10	4. 33	·1011	15. 36	·02451			
8. 20	44. 30	5. 13	·1007	19. 5	{·02572			
9. 4	44. 20	5. 45	·1008		{·02460			
9. 20	42. 45	5. 58	·1011	21. 39	·02503			
10. 17	43. 30	6. 3	·1015	23. 10	·02492			
10. 28	44. 35	6. 8	·1011	23. 45	·02498			
11. 47	44. 30	6. 20	·1014					
12. 18	44. 0	6. 48	·1016					
13. 10	44. 20	7. 15	·1015					

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. 14		Mar. 14						
h m	° ′ ″	h m		h m		h m	°	°
13. 17	21. 45. 30	7. 22	·1016					
13. 45:	43. 50		***					
14. 15	45. 0	8. 6	·1015					
14. 47	45. 0	8. 19	·1018					
15. 10	44. 25	8. 45	·1016					
15. 28	43. 25	9. 7	·1019					
16. 38	44. 30	9. 15	·1018					
17. 13	45. 40	9. 39	·1022					
17. 24	44. 30	10. 3	·1023					
	***	10. 25	·1021					
18. 11	43. 50	10. 46	·1025					
	***	11. 4	·1025					
18. 59	43. 30	11. 15	·1023					
	***	11. 40	·1027					
20. 18	42. 20	12. 3	·1025					
20. 29	41. 30	13. 30	·1029					
20. 58	43. 30	13. 50	·1025					
	***	14. 22	·1029					
21. 36	49. 40	15. 6	·1031					
	***	15. 54:	·1029					
22. 17	48. 30	16. 32	·1032					
	***	17. 7	·1038					
22. 28	50. 10	17. 12	·1037					
	***	17. 41	·1041					
22. 40	48. 50	17. 46	·1039					
22. 45	50. 0	18. 0	·1044					
	***		***					
23. 47	51. 20	19. 6	·1046					
23. 59	51. 55		***					
		20. 29	·1045					
		21. 9	·1029					
		21. 39	·1022					
		22. 2	·1013					
		23. 47	·1011					
		23. 59	·1013					
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 0	21. 51. 55	0. 0	·1013	0. 16	·02481	1. 40	44 ·0	45 ·0
	(†)	0. 20	·1013	1. 7	·02501	3. 40	46 ·0	47 ·0
3. 43	51. 20	0. 30	·1003	2. 10	·02456	9. 40	46 ·0	47 ·0
4. 7	44. 50		***	4. 22	·02314	22. 40	43 ·0	45 ·0
	***	1. 20	·1016	5. 42	·02160			
4. 32	46. 30		***	9. 10	·02066			
4. 45	45. 55	3. 15	·1015	9. 32	·02081			
6. 58	45. 0		***	10. 24	·02052			
7. 7	43. 40	3. 33	·1012	17. 43	·02191			
7. 17	44. 30	3. 51	·0984	20. 37	·02314			
8. 14	42. 55	4. 17	·1010	21. 15	{·02361			
8. 38	43. 50		***		{·02297			
8. 47	45. 10	5. 0	·1017	21. 52	·02292			
9. 22	39. 0	5. 12	·1018	23. 35	·02256			
9. 40	42. 0		***					
9. 45	41. 15	6. 17	·1018					
10. 30	42. 0	6. 45	·1020					
10. 47	44. 10	6. 50	·1016					
11. 17	43. 15	7. 13	·1019					
12. 13	45. 20	7. 38	·1016					
12. 40:	44. 30	8. 20	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V. F. Magnet.
Mar. 15		Mar. 15						
h m	° ′ ″	h m		h m		h m	°	°
13. 29	21. 44. 35	8. 30	·1022					
14. 10	45. 10	8. 41	·1025					
	***	9. 10	·1021					
16. 39	44. 40	9. 21	·1031					
17. 10	44. 0	9. 47	·1032					
	***	10. 4	·1046					
20. 43	41. 30	10. 32	·1031					
	***	10. 48	·1036					
21. 43	43. 0	11. 22	·1028					
21. 46	43. 40	12. 1	·1026					
22. 1	43. 0	12. 27	·1031					
22. 45	44. 5	12. 37	·1027					
23. 2	45. 20	13. 32	·1025					
23. 10	45. 10	13. 55	·1024					
23. 40	46. 35	14. 9	·1027					
		15. 55	·1027					
		16. 18	·1030					
		17. 40	·1030					
		18. 17	·1033					
		18. 40	·1036					
			***					
		21. 3	·1034					
		21. 37	·1033					
		22. 0	·1030					
		22. 7	·1032					
		23. 37	·1027					
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 0	21. 46. 20	0. 12	·1025	0. 13	·02241	10. 48	48 ·5	50 ·0
	***		***	2. 56	·02160	21. 40	47 ·0	49 ·0
1. 47	47. 50	3. 15	·1022	4. 45	·02037			
3. 21	46. 45	3. 22	·1024	6. 12	·01917			
3. 48	45. 50		***	7. 35	·01867			
7. 15	45. 15	6. 54	·1025	9. 43	·01748			
7. 59	44. 30	7. 26	·1026	10. 51	·01705			
9. 18	44. 50	8. 30	·1025	14. 43	·01656			
9. 31	43. 50	10. 34	·1026	16. 30	·01666			
10. 28	45. 10	10. 45	·1029	18. 27	·01725			
10. 43	43. 50	11. 15	·1026	19. 35	·01781			
	***	12. 30	·1024	22. 52	·01886			
11. 30	45. 25		***	23. 6	·01868			
	***	15. 0	·1026	23. 51	·01852			
12. 20:	44. 30	16. 30	·1027					
	***	17. 52	·1031					
16. 24	44. 30	18. 45	·1032					
	***	19. 44:	·1031					
19. 31	44. 0	21. 50	·1020					
	***	22. 47	·1017					
20. 43	42. 30	23. 15	·1015					
	***	23. 59	·1015					
22. 46	43. 50							
	***							
23. 59	46. 40							
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 0	21. 46. 50	0. 0	·1015	1. 10	·01818	1. 40	49 ·0	50 ·0
	(†)	0. 53	·1018	2. 7	·01780	3. 40	51 ·0	52 ·0
1. 13	48. 0	1. 50	·1021	3. 51	·01631	9. 40	53 ·0	53 ·5
1. 24	47. 50	2. 16	·1023	3. 56	·01650	21. 40	48 ·0	50 ·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.
Mar. 17		Mar. 17		Mar. 17				
h m	° ′ ″	h m		h m		h m	°	°
1. 33	21. 49. 0	2. 33	·1019	7. 3	·01657			
1. 40	48. 30	3. 3	·1021	7. 44	·01683			
2. 16	48. 30	3. 8	·1025	9. 30	·01646			
2. 39	47. 30	3. 21	·1021	11. 2	·01637			
4. 34	45. 10	3. 28	·1024	15. 31	·01816			
5. 30	44. 15	3. 40	·1021	17. 45	·01930			
5. 57	44. 25	3. 50	·1023	19. 25	·02044			
6. 25	43. 50	4. 1	·1019	21. 37	{ ·02132			
6. 45	44. 30	5. 51	·1017		{ ·02060			
7. 5	43. 30	6. 10	·1018	22. 29	·02055			
7. 34	39. 50	6. 53	·1016	22. 52	·02026			
8. 27	42. 40	7. 27	·1005	23. 37	·02025			
8. 34	42. 25	7. 52	·1012					
10. 24	44. 40	8. 9	·1013					
10. 31	45. 35	8. 15	·1015					
10. 44	45. 0	8. 40	·1011					
11. 14	45. 15	9. 0	·1015					
12. 6	45. 0	10. 21	·1022					
12. 14	45. 30	10. 28	·1028					
12. 47	44. 25	10. 33	·1025					
12. 59	45. 0	10. 58	·1026					
13. 6	43. 55	11. 13	·1029					
13. 13	44. 30	11. 54	·1026					
14. 20	44. 50	12. 14	·1031					
15. 27	43. 50	12. 39	·1030					
15. 47	44. 15	12. 45	·1025					
16. 10	45. 30	12. 54	·1030					
16. 20	45. 10	13. 7	·1023					
16. 46	48. 30	13. 12	·1027					
17. 10	47. 10	13. 24	·1026					
17. 30	42. 40	13. 55	·1023					
17. 50	41. 15	14. 28	·1028					
18. 18	42. 30	15. 24	·1029					
18. 30	44. 30	15. 30	·1027					
18. 40	43. 10	16. 18	·1029					
	***	16. 49	·1027					
20. 45	43. 30	17. 5:	·1041					
	***	17. 26	·1042					
21. 40	43. 15	18. 20	·1035					
	***	18. 27	·1036					
22. 39	44. 0	18. 34	·1031					
	***		***					
23. 47	46. 40	19. 2	·1038					
			***					
		19. 8	·1038					
		19. 11	·1036					
			***					
		19. 40	·1030					
			***					
		19. 47	·1032					
			***					
		21. 0	·1023					
		22. 21	·1019					
			***					
		23. 12	·1016					
		23. 19	·1009					
		23. 30	·1012					
		23. 59	·1007					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 18		Mar. 18		Mar. 18		Mar. 18		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 47. 20	0. 0	·1007	0. 0	·01999	1. 40	51 ·0	52 ·0
0. 8	47. 10	0. 6	·1012	1. 52	·01922	3. 40	54 ·0	55 ·0
0. 18	50. 20	0. 22	·1004		·01788	9. 40	56 ·0	56 ·0
0. 42	49. 30	1. 30	·1013	4. 7	·01844	21. 40	51 ·0	54 ·0
1. 10	51. 10	1. 37	·1005	6. 12	·01744			
1. 32	53. 30		***	7. 55	·01746			
1. 42	51. 40	2. 9	·1003	10. 5	·01705			
2. 13	52. 5	2. 21	·1000	12. 7	·01697			
2. 15	51. 10	2. 36	·1006	12. 35	·01675			
2. 25	51. 5		***	13. 56	·01718			
2. 40	53. 50	2. 52	·0988	18. 25	·01981			
2. 49	51. 0	3. 24	·1005	20. 52	·02114			
2. 56	48. 40	3. 40	·1009	23. 24	·02175			
3. 15	47. 55		***	23. 59	·02170			
3. 44	47. 50	4. 18	·1010					
3. 51	47. 0	4. 26	·1006					
4. 2	47. 30	5. 6	·1009					
5. 14	45. 15	5. 15	·1004					
6. 42	44. 0	5. 22	·1005					
6. 48	42. 50	6. 30	·1009					
7. 12	44. 30	6. 45	·1007					
7. 38	44. 15	6. 53	·1013					
8. 10	41. 45	7. 9	·1001					
8. 16	41. 45	7. 33	·1000					
8. 32	40. 30	8. 7	·1003					
8. 48	42. 30	8. 24	·1005					
9. 12	41. 10	8. 34	·1008					
9. 18	42. 30	9. 0	·0996					
9. 38	38. 10	9. 6	·0995					
	(†)	9. 15	·1003					
21. 40	43. 47*	9. 32	·0997					
		9. 39	·0999					
			(†)					
		21. 40	·1010*					
Mar. 19		Mar. 19		Mar. 19		Mar. 19		
0. 35	21. 51. 30	0. 39	·0999	0. 43	·02095	1. 40	55 ·0	55 ·0
	***	0. 58	·0997	2. 22	·02023	3. 40	56 ·0	57 ·0
1. 35	52. 40	1. 15	·0992		·01804	9. 40	59 ·0	59 ·5
	***	1. 36	·0996	4. 15	·01930	21. 40	53 ·0	54 ·0
1. 51	51. 20	1. 50	·0991	6. 52	·01836			
	***	2. 42	·0994	8. 23	·01794			
2. 18	51. 30	2. 58	·0994	9. 37	·01742			
3. 17	48. 15	3. 22	·0997	10. 15	{ ·01730			
3. 50	48. 35		***		{ ·01820			
4. 45	46. 40	3. 52	·0998	11. 16	·01810			
5. 0	45. 20		***	14. 13	·01924			
5. 13	45. 0	5. 0	·0997	18. 5	·02218			
	***	5. 15	·0994	20. 46	·02472			
5. 16	42. 20	5. 36	·1005	22. 15	·02560			
	***	5. 50	·0998	23. 41	·02663			
5. 27	41. 30	5. 58	·1000					
	***	6. 4	·0996					
5. 40	42. 50	6. 45	·0998					
	***	7. 20	·0997					
7. 47	43. 5	7. 40	·1001					
7. 59	42. 0	7. 57	·1000					
8. 7	42. 45	8. 12	·1013					
			***					

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. 19		Mar. 19						
h m	° ′ ″	h m		h m		h m	°	°
8. 13	21. 42. 0	8. 52	·1006					
8. 15	43. 30	9. 7	·1015					
8. 20	41. 25	9. 46	·1003					
8. 42	40. 30	10. 17	·0999					
9. 8	41. 45	10. 36	·1004					
9. 17	40. 30	11. 46	·1005					
10. 15	44. 40	12. 45	·1007					
11. 17	45. 35	13. 23	·1009					
12. 40	45. 30	13. 32	·1011					
13. 2	46. 45	14. 6	·1011					
13. 37	47. 0	14. 27	·1012					
13. 46	46. 0	14. 51	·1011					
14. 50	45. 30	15. 37	·1014					
15. 1	46. 5	16. 34	·1014					
17. 0	45. 0	16. 45	·1013					
17. 12	45. 50	17. 7	·1016					
18. 15	45. 0	17. 57	·1017					
	***	18. 30	·1015					
21. 30	44. 30	19. 0	·1017					
	***	19. 7	·1014					
23. 59	47. 50	19. 46	·1016					
		20. 24	·1014					
		20. 45	·1014					
		21. 30	·1008					
		21. 50	·1010					
		22. 9	·1009					
		23. 51	·1009					
		23. 59	·1006					
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 0	21. 48. 0	0. 0	·1006	0. 10	·02681	1. 40	54 ·0	55 ·0
0. 57	49. 30	1. 18	·1010	1. 40	·02695	3. 40	55 ·0	56 ·0
1. 16	51. 0		***	3. 37	·02677	9. 40	57 ·5	59 ·0
1. 43	49. 0	1. 56	·1008	4. 33	·02620	22. 10	51 ·0	53 ·0
2. 17	49. 0	2. 9	·1010	7. 10	·02308			
2. 32	47. 55	2. 28	·1004	8. 22	·02225			
3. 0	47. 10		***	10. 42	·02193			
3. 15	47. 40	3. 24	·1004	15. 8	·02452			
3. 58	47. 0	3. 35	·1002	16. 23	·02771			
4. 30	44. 45	3. 53	·1006	16. 29	·02750			
5. 5	44. 20	4. 9	·1005	22. 28	·02711			
5. 28	43. 30	4. 22	·0999		·02542			
7. 45:	43. 10	5. 7	·1001	23. 5	·02563			
8. 45	45. 15	5. 48	·1005					
9. 21	45. 15	6. 40	·1008					
9. 35	45. 5	8. 2	·1006					
10. 5	45. 25	8. 40	·1011					
10. 48	44. 35	9. 23	·1009					
11. 21	45. 10	12. 45	·1017					
13. 3	45. 10	12. 51	·1015					
13. 15	46. 0	13. 18	·1018					
13. 30	44. 40	13. 32	·1016					
14. 0	45. 10	14. 12	·1019					
14. 17	44. 10	14. 45	·1016					
16. 9	45. 0	16. 50	·1021					
16. 25	44. 30	17. 2	·1019					
17. 5	45. 5	17. 35:	·1022					
18. 17	43. 30	18. 30	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 20		Mar. 20						
h m	° ′ ″	h m		h m		h m	°	°
19. 48	21. 44. 15	19. 18	·1020					
20. 8	42. 5	20. 2	·1014					
20. 44	44. 30	21. 17	·1015					
22. 17	45. 30	21 53	·1011					
22. 45	47. 10		(†)					
23. 59	50. 0	23. 59	·1016					
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 0	21. 50. 0	0. 0	·1016	0. 0	·02572	9. 40	50 ·0	52 ·0
0. 19	49. 50	1. 25	·1022	4. 58	·02561	21. 40	47 ·0	48 ·0
1. 0	50. 40	1. 50	·1022	6. 23	·02527			
1. 27	50. 20	2. 21	·1020	12. 27	·02516			
1. 35	51. 10	3. 5	·1020	13. 14	·02457			
1. 59	51. 15	3. 29	·1023	15. 15	·02448			
4. 30	46. 10	4. 0	·1022	18. 24	·02435			
5. 28	45. 20	4. 11	·1024	19. 10	·02464			
8. 44	45. 20	5. 19	·1023	20. 27	·02457			
9. 7	45. 45	6. 26	·1019	23. 22	·02406			
10. 46	45. 35	7. 0	·1026					
11. 17	46. 0	7. 35	·1029					
	***	9. 0	·1029					
19. 17	44. 40	9. 45	·1030					
	***	9. 58	·1029					
20. 6	42. 25	10. 9	·1031					
	***	11. 22	·1031					
21. 27	42. 20	11. 43	·1032					
	***	12. 0	·1030					
23. 0:	44. 30	13. 37	·1033					
	***	13. 43	·1035					
23. 59	48. 0	15. 8	·1034					
		17. 10	·1038					
		19. 21	·1036					
			***					
		20. 0	·1030					
		21. 33	·1026					
		22. 17	·1018					
		23. 18	·1014					
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 0	21. 47. 30	0. 22	·1010	0. 31	·02378	1. 40	50 ·0	51 ·0
0. 28	51. 0	0. 51	·1013	1. 50	·02307	3. 40	52 ·0	54 ·0
0. 50	53. 35		***	2. 15	·02236	9. 40	54 ·0	56 ·0
1. 43	53. 0	1. 30:	·1008	5. 19	·01764	22. 5	48 ·0	49 ·5
1. 55	54. 0	1. 51	·1014		·01878			
3. 19	51. 30	2. 4	·1012	6. 25	·01798			
3. 41	50. 30	2. 25	·1016	9. 22	·01736			
4. 0	50. 30	2. 56	·1013	10. 58	·01761			
4. 25	48. 30	3. 24	·1014	15. 0	·01998			
4. 32	48. 30	3. 37	·1013	20. 25	·02663			
5. 27	46. 20	3. 50	·1015		·02548			
5. 52	46. 20	4. 11	·1014	23. 20	·02562			
6. 17	44. 50	4. 15	·1012					
8. 16	44. 10	4. 27	·1013					
8. 50	45. 0	4. 50	·1006					
9. 20	40. 40	5. 3	·1005					
10. 22	43. 30	5. 40	·1011					
10. 33	42. 10	6. 0	·1006					
11. 13	45. 15	6. 22	·1008					

March 18. Between the hours of $9^h.\ 38^m$ and 24^h, the Western Declination varied from 21°. 40′ to 21°. 54′; and the Horizontal Force changed from ·1009 to ·1045.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.22		Mar.22						
h m	° ′ ″	h m		h m		h m	°	°
11. 20	21. 45. 0	6. 45	·1014					
11. 43	45. 50	6. 52	·1013					
	***	7. 45	·1015					
13. 8	45. 30	8. 20	·1013					
13. 16	46. 10	8. 54	·1014					
13. 26	46. 10	9. 4	·1011					
13. 31	45. 30	9. 34	·1013					
13. 48	45. 50	9. 50	·1009					
14. 7	47. 30	10. 8	·1008					
14. 43	45. 10	10. 18	·1012					
15. 1	45. 10	10. 30	·1009					
15. 35	46. 25	10. 43	·1011					
16. 0	45. 55	10. 48	·1007					
	***	11. 34	·1015					
19. 25	44. 30	12. 6	·1017					
	***	12. 22	·1015					
20. 44	42. 40	13. 29	·1017					
	***	14. 23	·1022					
23. 59	46. 40	14. 51	·1017					
		15. 22	·1017					
		15. 57	·1020					
		19. 42	·1028					
		21. 2	·1029					
		22. 7	·1024					
		22. 34	·1025					
		22. 39	·1022					
		23. 30	·1021					
Mar.23		Mar.23		Mar.23		Mar.23		
0. 0	21. 46. 50	0. 0	·1025	0. 0	·02584	8. 40	51 ·5	52 ·0
	***	0. 47	·1027	2. 18	·02590	21. 40	46 ·0	47 ·0
1. 33	51. 20	0. 55	·1027	3. 24	·02549			
2. 0	51. 15	1. 36	·1028	4. 32	·02480			
2. 17	52. 40	2. 0	·1026	7. 0	·02235			
2. 48	51. 10	2. 39	·1030	9. 17	·02289			
	***	2. 50	·1028	11. 30	·02028			
5. 28	46. 10	3. 21	·1028	13. 25	·02144			
7. 39	46. 30	3. 57	·1033	14. 52	·02240			
8. 2	42. 10	4. 30	·1031	16. 16	·02297			
8. 12	42. 5	6. 1	·1030	20. 14	·02557			
8. 31	37. 0	7. 7	·1032	21. 30	{ ·02612			
9. 4	43. 10	7. 28	·1035		{ ·02532			
	***	7. 5	·1031	23. 59	·02556			
9. 51	44. 30	8. 11	·1031					
	***	9. 48	·1024					
10. 50	44. 30	10. 46	·1027					
	***	10. 58	·1039					
11. 30	41. 30	11. 12	·1039					
	***	11. 43	·1031					
12. 11	41. 30	12. 1	·1033					
12. 16	42. 30	13. 11	·1029					
12. 40	42. 30	13. 45	·1028					
12. 58	43. 55	14. 5	·1024					
13. 15	43. 25	14. 26	·1027					
	***	16. 32	·1022					
14. 8	44. 40	17. 24	·1026					
	***	17. 30	·1024					
14. 37	45. 25	18. 50	·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.	Readings of Thermometers. Of V. F Magnet.
Mar.23		Mar.23						
h m	° ′ ″	h m		h m		h m	°	°
14. 47	21. 45. 0	19. 25	·1030					
	***	19. 55	·1027					
15. 14	47. 30	20. 11	·1027					
15. 41	47. 40	20. 29	·1034					
16. 29	45. 30	22. 17	·1019					
17. 17	44. 35	22. 30	·1016					
19. 31	45. 30	22. 43	·1018					
20. 0	42. 35	22. 48	·1017					
21. 30	42. 45	23. 59	·1015					
21. 40	43. 30							
21. 47	43. 0							
	***							
22. 32	43. 30							
	***							
23. 59	48. 0							
Mar.24		Mar.24		Mar.24		Mar.24		
0. 0	21. 48. 15	0. 0	·1015	1. 29	·02542	1. 40	49 ·0	49 ·0
	***	1. 3	·1014	2. 52	·02444	3. 40	51 ·0	52 ·0
1. 0	51. 20	1. 50	·1017	4. 27	·02250	9. 40	52 ·0	53 ·0
	***	2. 32	·1018	6. 30	·01977	21. 40	46 ·0	48 ·0
2. 17	51. 0	2. 52	·1016	7. 29	·01901			
3. 15	49. 30	3. 9	·1017	9. 27	·01851			
5. 17	45. 5	3. 34	·1015	11. 10	·01898			
7. 43	44. 15	4. 4	·1015	15. 49	·02216			
9. 47	45. 55	4. 20	·1012	17. 33	·02370			
	***	5. 46	·1013	20. 13	·02557			
12. 23	45. 5	7. 43	·1016	20. 47	{ ·02594			
	***	8. 0	·1015		{ ·02533			
12. 47	44. 0	9. 5	·1018	22. 45	{ ·02540			
13. 16	44. 30	9. 54	·1017		{ ·02357			
13. 31	45. 15	10. 30	·1021	23. 59	·02358			
14. 31	44. 30	10. 54	·1026					
15. 13	45. 30	11. 12	·1021					
	***	11. 45	·1020					
17. 27	44. 30	12. 0	·1023					
19. 33	45. 15	12. 13	·1022					
20. 13	43. 30	12. 40	·1025					
	***	12. 51	·1024					
22. 1	43. 0	13. 47	·1025					
	***	15. 7	·1024					
23. 59	48. 5	16. 33	·1028					
		17. 35	·1031					
		18. 14	·1028					
		19. 12	·1032					
		20. 57 :	·1032					
		22. 30	·1020					
		23. 59	·1014					
Mar.25		Mar.25		Mar.25		Mar.25		
0. 0	21. 48. 15	0. 0	·1012	0. 0	·02542	1. 40	49 ·0	50 ·0
1. 30	51. 40	1. 15	·1014	1. 53	·02298	3. 40	50 ·0	51 ·0
	***	1. 30	·1018	3. 10	·02496	9. 40	51 ·0	52 ·0
3. 25	48. 10	2. 37	·1020	7. 5	·01850	21. 40	46 ·0	47 ·0
	***		***	9. 20	·01784			
4. 46	45. 30	3. 54	·1021	11. 15	·01865			
	***	4. 6	·1016	17. 28	·02289			
7. 0	43. 30	4. 40	·1018	19. 21	·02416			

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. 25		Mar. 25		Mar. 25				
h m	° ′ ″	h m		h m		h m	°	°
7. 28	21. 45. 10	6. 20	·1016	20. 47	·02478			
7. 57	45. 0	7. 0	·1015	21. 43	·02498			
	***	7. 28	·1018	22. 40	·02415			
8. 52	45. 35	8. 14	·1019	23. 59	·02396			
	***	10. 42	·1023					
9. 21	44. 15	11. 36	·1023					
	***	11. 56	·1033					
10. 28	45. 10	12. 25	·1025					
	***	12. 50	·1024					
11. 43	45. 5	13. 21	·1030					
	***	13. 40	·1026					
12. 27	42. 45	14. 41	·1028					
	***	15. 40	·1030					
13. 2	45. 30	19. 0	·1033					
	***	21. 49	·1022					
14. 18	44. 50	22. 26	·1018					
14. 31	45. 30	23. 15	·1015					
	***	23. 22	·1012					
18. 32	44. 45	23. 47	·1013					
19. 3	43. 20							
19. 18	43. 40							
	***							
20. 22	42. 30							
	***							
22. 36	43. 15							
	***							
23. 59	47. 30							
Mar. 26		Mar. 26		Mar. 26		Mar. 26		
0. 0	21. 47. 55	0. 15	·1012	0. 4	·02382	1. 40	48 ·0	49 ·0
	***	1. 7	·1013	1. 22	·02317	3. 40	50 ·0	51 ·0
1. 55	50. 30	3. 8	·1016	2. 27	·02258	9. 40	50 ·0	51 ·0
	***		***	5. 32	·01968	21. 40	42 ·0	44 ·0
3. 18	48. 0	3. 45	·1014	7. 0	·01890			
5. 20	44. 20	4. 22	·1015	8. 18	·01881			
6. 27	44. 20	4. 26	·1012	9. 20	·01866			
7. 17	45. 10	4. 45	·1014	11. 15	·01946			
11. 14	45. 10	5. 40	·1016	18. 18	{·02500			
11. 27	44. 30	6. 17	·1015		{·02416			
11. 51	44. 40	7. 45	·1020	19. 25	·02445			
12. 40	44. 0	9. 37	·1026	20. 22	·02448			
13. 39	46. 10	10. 10	·1028	21. 0	·02381			
14. 1	45. 0		***	23. 1	·02323			
14. 16	46. 30	11. 12	·1027	23. 32	·02297			
14. 40	45. 50	11. 21	·1030					
15. 24	41. 20	11. 40	·1027					
16. 14	39. 40	12. 2	·1031					
16. 46	42. 10	12. 16	·1030					
17. 3	41. 40	14. 7	·1033					
17. 14	42. 0	14. 18	·1032					
17. 31	41. 20	14. 37	·1038					
18. 35	42. 30	15. 13	·1035					
18. 58	44. 0	15. 20	·1036					
19. 15	42. 30	15. 45	·1034					
19. 45	42. 45	15. 50	·1036					
20. 5	42. 0	16. 37	·1030					
20. 15	40. 30	17. 40	·1040					
20. 59	41. 50	19. 17	·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 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. 26		Mar. 26						
h m	° ′ ″	h m		h m		h m	°	°
21. 22	21. 41. 30	20. 20	·1034					
22. 9	45. 10	21. 0	·1028					
22. 44	46. 0	22. 1	·1026					
23. 59	54. 0		***					
		23. 11	·1027					
		23. 22	·1031					
		23. 43	·1027					
		23. 59	·1031					
Mar. 27		Mar. 27		Mar. 27		Mar. 27		
0. 0	21. 54. 10	0. 0	·1017	0. 0	·02557	1. 40	47 ·0	48 ·0
1. 33	59. 30	0. 4	·1017	0. 44	·02208	3. 40	52 ·0	54 ·0
1. 40	58. 50	0. 13	·1023	1. 25	·02122	9. 40	55 ·0	56 ·0
2. 15	59. 40	0. 20	·1016	1. 53	·02041	21. 40	42 ·0	45 ·0
2. 29	58. 30	0. 32	·1015	2. 20	·01963			
3. 22	58. 35	0. 46	·1012	3. 1	·01826			
3. 45	57. 50	1. 0	·1012	3. 16	·01850			
3. 52	58. 5	1. 25	·1015	3. 35	·01861			
4. 2	57. 50	1. 44	·1013	4. 8	·01918			
4. 15	58. 5	2. 26	·1009	4. 30	·01920			
4. 28	57. 15	3. 0	·1012	4. 51	·01946			
4. 32	56. 5	3. 13	·1011	5. 40	·01977			
4. 43	55. 30	3. 26	·1001	5. 55	·01977			
4. 46	55. 50	3. 33	·1002	6. 31	·02067			
5. 43	52. 0	3. 50	·1008	6. 45	·02058			
5. 51	53. 10	4. 0	·1001	7. 22	·02043			
6. 14	45. 40	4. 6	·1002	8. 13	·02126			
6. 17	44. 30	4. 34	·0993	9. 20	·02182			
6. 30	40. 5	4. 41	·0998	11. 0	·02307			
6. 45	45. 40	4. 50	·0998	12. 44	·02481			
6. 50	46. 0	5. 7	·0988	14. 20	{·02706			
6. 58	47. 10	5. 14	·0997		{·02662			
7. 0	47. 0	5. 17	·0991	15. 17	·02624			
7. 13	48. 30	5. 28	·0987	17. 55	·02580			
7. 32	40. 30	5. 32	·0988	19. 28	·02560			
7. 46	41. 0	5. 40	·0991	20. 52	·02521			
8. 0	44. 30	5. 49	·0987	23. 15	·02502			
8. 3	44. 15	5. 59	·0975					
8. 15	45. 30	6. 9	·0979					
8. 18	45. 0	6. 12	·0978					
8. 30	46. 50	6. 16	·0979					
	(†)	6. 20	·0983					
9. 40	41. 52*	6. 24	·0982					
	(†)	6. 42	·0994					
10. 2	47. 45	6. 45	·0990					
10. 14	46. 5	7. 2	·0994					
10. 28	46. 15	7. 20	·0976					
10. 45	45. 10	7. 26	·0975					
10. 48	45. 50	7. 32	·0981					
11. 0	45. 0	7. 47	·0985					
11. 27	47. 5	7. 59	·0978					
11. 43	48. 0	8. 13	·0979					
12. 0	47. 55	8. 19	·0983					
12. 6	48. 0	8. 28	·0980					
12. 29	49. 55	8. 47	·0982					
12. 58	49. 10	9. 15	·0997					
13. 14	48. 30	9. 24	·0996					

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.27		Mar.27						
h m	° ′ ″	h m		h m		h m	°	°
14. 13	21. 48. 40	9. 39	·0996					
14. 22	48. 55	9. 56	·1001					
14. 28	48. 45	10. 12	·1001					
14. 47	49. 0	10. 32	·1005					
14. 57	48. 35	10. 49	·1002					
15. 17	48. 55	11. 8	·1005					
15. 27	48. 10	11. 58	·1006					
16. 0	48. 50	12. 42	·1013					
16. 17	48. 50	13. 26	·1011					
17. 47	49. 45	14. 14	·1011					
18. 0	50. 0	16. 48	·1022					
18. 45	48. 50	17. 25:	·1021					
19. 26	48. 55	18. 46	·1027					
19. 31	47. 10	19. 12	·1030					
19. 48	48. 30	19. 17	·1029					
19. 54	46. 50	19. 22	·1030					
20. 0	46. 50	19. 28	·1028					
20. 12	47. 55	19. 46	·1028					
21. 10	48. 30	19. 50	·1026					
21. 43	47. 30	20. 9	·1029					
21. 51	48. 25	20. 28	·1023					
23. 2	49. 0	21. 9	·1025					
23. 24	51. 25	23. 6	·1017					
23. 31	51. 10	23. 52	·1011					
		23. 59	·1012					
Mar.28		Mar.28		Mar.28		Mar.28		
	(†)	0. 0	·1013	0. 0	·02457	1. 40	46 ·0	47 ·0
2. 30	21. 49. 40	0. 7	·1014	1. 12	·02426	3. 40	48 ·0	50 ·0
3. 13	48. 25	1. 3	·1013	2. 7	·02365	9. 40	54 ·0	55 ·0
3. 25	47. 20	1. 28	·1012	2. 52	·02281	21. 40	45 ·0	46 ·0
5. 0	46. 5	2. 13	·1013	4. 12	·02083			
5. 43	45. 10	2. 16	·1011	6. 47	·01680			
7. 10	43. 30	3. 21	·1013	7. 34	·01708			
7. 58	44. 30	3. 37	·1011	14. 9	·01837			
8. 20	44. 10	3. 44	·1013	16. 3	·01996			
8. 36	44. 40	5. 11	·1011	17. 50	·02167			
8. 48	43. 30	5. 28	·1013	19. 5	·02317			
9. 20	44. 30	5. 34	·1008	20. 30	·02475			
11. 40	46. 0	5. 50	·1014	21. 31	·02570			
12. 49	45. 20	5. 59	·1012		·02460			
16. 15	44. 30	7. 8	·1016	22. 33	·02517			
	(†)	7. 28	·1014		·02325			
18. 26	45. 0	9. 16	·1017	23. 43	·02376			
18. 45	44. 40	9. 29	·1013					
20. 30	45. 30	9. 42	·1016					
21. 8	45. 30	10. 29	·1015					
	(†)	10. 34	·1017					
21. 40	45. 0*	11. 14	·1016					
		12. 41	·1020					
		13. 13	·1019					
		13. 50	·1022					
		16. 22	·1025					
		16. 28	·1024					
		17. 17	·1029					
		17. 26	·1027					
		17. 33	·1028					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F Magnet.
		Mar.28						
h m	° ′ ″	h m		h m		h m	°	°
		18. 17	·1031					
		18. 32	·1035					
		18. 50	·1031					
		19. 6	·1032					
		20. 30	·1021					
		20. 50	·1026					
		22. 11	·1014					
		23. 1	·1007					
		23. 28	·0999					
		23 40	·1000					
		23. 59	·0997					
Mar.29		Mar.29		Mar.29		Mar.29		
0. 6	21. 50. 0	0. 0	·0997	0. 6	·02365	1. 40	48 ·0	49 ·0
0. 50	52. 15	0. 30	·0994	0. 50	·02360	3. 40	52 ·0	54 ·0
0. 59	53. 10	0. 54	·0995	1. 53	·02281	9. 40	51 ·0	52 ·0
1. 5	52. 10	1. 5	·0990	2. 30	·02198	23. 23	40 ·0	42 ·0
2. 43	51. 20	1. 21	·0990	2. 43	·02163			
4. 14	46. 0	2. 20	·0994	3. 22	·02027			
5. 1	44. 30	3. 41	·1002	4. 0	·01871			
5. 47	41. 50	4. 20	·1004	4. 24	·01821			
6. 45	42. 50	4. 56	·1003	4. 37	·01803			
7. 32	44. 0	5. 13	·1005	5. 17	·01785			
	***	5. 40	·0999		·01858			
8. 22	45. 30	6. 23	·0999	7. 5	·01901			
	***	6. 26	·1009	10. 27	·02056			
11. 25	45. 0	6. 40	·1008	11. 10	·02125			
	***	7. 7	·1013	15. 17	·02598			
13. 0:	45. 0	8. 0	·1015		·02534			
16. 29	45. 5	8. 48	·1017	18. 30	·02500			
17. 6	45. 50	9. 4	·1017	20. 18	·02461			
20. 43	43. 0	9. 52	·1020	21. 38	·02424			
21. 32	41. 45	11. 52	·1024	23. 4	·02430			
22. 59	46. 30	13. 37	·1027					
23. 7	46. 35	15. 6	·1032					
23. 59	50. 30	15. 51	·1033					
		17. 7	·1038					
		18. 34	·1040					
		19. 4	·1043					
		19. 37	·1044					
		20. 4	·1041					
		20. 53	·1040					
			***					
		23. 0	·1025					
		23. 52	·1025					
Mar.30		Mar.30		Mar.30		Mar.30		
0. 0	21. 50. 15	0. 0	·1023	0. 0	·02441	11. 10	49 ·0	50 ·0
1. 0	53. 5	0. 45	·1024	0. 50	·02440	21. 40	41 ·0	43 ·0
1. 6	52. 50	2. 20	·1026	1. 14	·02421			
1. 17	53. 35	2. 37	·1014	1. 28	·02417			
1. 25	54. 15	2. 46	·1015	2. 15	·02365			
1. 36	54. 30	2. 58	·1019	3. 16	·02263			
1. 40	54. 0	3. 16	·1013	4. 43	·01982			
1. 45	54. 5		***	6. 7	·01703			
1. 47	54. 50	3. 50	·1016	6. 29	·01717			
1. 59	53. 55	4. 0	·1019	7. 48	·01715			
2. 13	54. 55	4. 19	·1011	8. 45	·01744			

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.30		Mar.30		Mar.30				
h m	° ′ ″	h m		h m		h m	°	°
2. 32	21. 53. 50	4. 36	·1019	10. 13	·01761			
2. 41	54. 10		***	10. 40	·01785			
3. 11	53. 45	5. 3	·1012	11. 59	·01816			
3. 17	52. 30		***	14. 32	·02036			
3. 31	52. 10	5. 47	·1021	14. 56	·02081			
3. 44	51. 20	5. 58	·1026	15. 27	·02115			
4. 6	50. 35	6. 7	·1025	18. 18	{·02538			
4. 15	50. 45	6. 49	·1027		{·02456			
4. 37	49. 30	7. 4	·1022	20. 14	·02458			
4. 43	47. 30	7. 20	·1023	23. 32	·02411			
4. 51	46. 20	7. 26	·1027					
5. 7	46. 20	8. 0	·1022					
5. 13	45. 50	8. 21	·1018					
5. 30	46. 55	8. 40	·1025					
5. 43	46. 45	9. 24	·1027					
5. 47	46. 5	9. 35	·1028					
6. 40	44. 40	9. 45	·1025					
7. 0	45. 10	9. 52	·1027					
8. 11	43. 0	10. 36	·1023					
8. 29	41. 45	10. 54	·1040					
8. 45	43. 0	11. 12	·1065					
9. 32	44. 15	11. 32	·1046					
10. 40	44. 0	11. 45	·1040					
10. 58	41. 30	12. 20	·1030					
11. 10	36. 30	12. 51	·1024					
11. 17	41. 0	13. 7	·1019					
	***	13. 30	·1025					
11. 30	40. 20	13. 45	·1021					
	***	13. 50	·1021					
11. 47	42. 5	13. 57	·1016					
	***	14. 9	·1025					
12. 8	40. 50	14. 23	·1014					
	***	14. 51	·1015					
12. 28	42. 10	15. 7	·1028					
	***	15. 25	·1032					
13. 2	41. 40	15. 42	·1029					
	***	16. 37	·1034					
13. 46	44. 10	17. 21	·1034					
	***	17. 47	·1037					
14. 3	41. 50	18. 7	·1036					
	***	19. 52	·1037					
14. 16	42. 15	21. 10	·1034					
15. 4	52. 10	21. 30	·1030					
	***	23. 45	·1018					
15. 18	50. 30							
	***							
16. 4	45. 5							
	***							
17. 13	43. 50							
17. 33	44. 20							
18. 46	43. 15							
20. 36	43. 30							
20. 44	42. 30							
21. 30	43. 0							
22. 25	46. 15							
	***							
23. 59	49. 55							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.31		Mar.31		Mar.31		Mar.31		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 50. 0	0. 0	·1018	0. 46	·02358	1. 40	44 ·0	49 ·0
0. 43	49. 30	1. 3	·1019	1. 12	·02303	3. 40	54 ·0	55 ·0
0. 47	49. 10	1. 50	·1014	2. 22	·02076	9. 40	58 ·5	59 ·3
1. 11	50. 0	2. 2	·1008	3. 15	·01830	21. 40	47 ·0	49 ·0
1. 50	48. 55	2. 20	·1007	3. 26	·01865			
3. 4	45. 40	2. 36	·1013	4. 5	·01898			
3. 30	45. 10	4. 12	·1011	5. 55	·01921			
3. 57	44. 0	4. 27	·1008	6. 20	·01936			
5. 32	42. 40	4. 54	·1008	7. 18	·01935			
5. 57	43. 0	5. 5	·1006	7. 48	·01962			
7. 10	42. 20	5. 24	·1007	8. 13	·01970			
7. 29	40. 40	5. 43	·1005	8. 22	·01998			
7. 47	42. 20	5. 52	·0997	9. 28	·02019			
8. 10	38. 20	6. 22	·0991	11. 0	·02077			
8. 18	37. 30	6. 51	·1001	13. 12	·02504			
8. 30	39. 0	7. 24	·0995	16. 21	{·02672			
9. 23	43. 50	7. 45	·1000		{·02608			
10. 13	45. 10	8. 26	·1001	18. 26	·02610			
11. 28	45. 55	8. 47	·1002	19. 8	·02618			
12. 30	45. 20	9. 28	·1001	20. 18	·02614			
13. 53	45. 0	9. 41	·1004	20. 44	·02600			
14. 32	44. 20	9. 53	·1004	21. 12	·02613			
15. 25	44. 45	10. 5	·1007	23. 17	·02558			
16. 0	44. 55	10. 30	·1005	23. 55	·02521			
16. 55	46. 50	12. 3	·1010					
17. 6	45. 15	13. 0	·1013					
17. 13	46. 5	13. 50	·1017					
17. 26	44. 25	13. 55	·1015					
18. 30	42. 50	15. 30	·1019					
	***	16. 7	·1021					
19. 50	43. 0	16. 32	·1020					
19. 58	43. 50	17. 6	·1027					
	***		***					
20. 32	43. 10	18. 4	·1031					
21. 0	44. 0	19. 0	·1027					
21. 19	42. 30	19. 21	·1029					
22. 16	44. 30	20. 13	·1021					
23. 12	47. 30	20. 17	·1017					
23. 54	48 10	20. 37	·1013					
23. 59	49. 20	21. 8	·1013					
		21. 33	·1018					
		23. 41	·1002					
		23. 59	·1006					
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
0. 0	21. 49. 25	0. 0	·1006	0. 15	·02562	1. 40	53 ·0	55 ·0
0. 21	51. 30	0. 18	·1003	1. 30	·02457	3. 40	57 ·5	59 ·0
0. 44	51. 20	0. 40	·1001	3. 29	{·02019	9. 40	62 ·5	62 ·0
1. 50	52. 30	2. 0	·0998		{·02058	21. 40	53 ·5	55 ·0
2. 14	52. 0	2. 16	·1000	7. 6	·02037			
2. 18	52. 10	2. 34	·0996	10. 41	·02121			
2. 45	51. 20	2. 48	·1002	11. 8	·02116			
2. 51	52. 0	3. 16	·0996	14. 28	·02362			
2. 59	50. 40	3. 36	·0999	18. 17	·02768			
4. 17	48. 35	4. 6	·0996	18. 29	{·02777			
4. 20	48. 55	4. 35	·1002		{·02721			
4. 55	48. 10	5. 0	·0997	21. 40	{·02733			
5. 15	48. 20	5. 11	·0998		{·02240			

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. 1		Apr. 1		Apr. 1		h m	°	°
h m	° ′ ″	h m		h m				
5. 24	21. 47. 50	5. 21	·0993	23. 49	·02223			
6. 0	46. 0	5. 39	·0992					
	***	5. 53	·0994					
6. 55	46. 0	6. 11	·0987					
	***	6. 34	·0989					
8. 43	43. 30	6. 37	·0985					
	***	7. 12	·0990					
9. 2	45. 20	7. 30	·0995					
	***	7. 50	·0990					
9. 57	44. 40	8. 30	·0991					
10. 25	38. 35	8. 46	·0996					
	***	9. 14	·0999					
11. 0	42. 55	10. 6	·0998					
	***	10. 22	·1026					
11. 33	41. 30	10. 35	·1037					
	***	11. 23	·1000					
11. 58	38. 40	11. 48	·1005					
	***	12. 30	·0998					
12. 29	42. 30	13. 56	·0998					
	***	15. 10	·1003					
13. 33	45. 30	17. 3	·1009					
	***	19. 20	·1013					
15. 52	46. 30	20. 19	·1005					
16. 45	47. 10	21. 24	·1005					
17. 27	46. 15	22. 41	·0999					
18. 0	47. 30	22. 56	·0995					
18. 28	45. 10	23. 48	·0997					
18. 33	45. 15	23. 59	·0996					
19. 31	42. 25							
19. 48	44. 30							
20. 51	44. 35							
21. 30	45. 30							
21. 44:	44. 40							
22. 58	47. 30							
23. 14	49. 30							
23. 59	51. 40							
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	21. 51. 45	0. 0	·0996	0. 0	·02190	1. 40	59 ·5	60 ·5
0. 13	52. 30	1. 42	·1001	0. 31	·02147	3. 40	60 ·0	62 ·0
	***	2. 0	·0996	2. 41	·01963	9. 40	60 ·0	61 ·0
1. 15	52. 10	2. 20	·0999		·02070	21. 40	53 ·0	55 ·0
1. 50	53. 0	4. 12	·1000	3. 20	·02020			
2. 30	52. 30	4. 37	·1000	7. 24	·01956			
4. 43	48. 15	4. 45	·1002	8. 15	·01989			
5. 14	47. 10	4. 52	·1000	10. 16	·01990			
6. 48	46. 35	6. 4	·1001	11. 32	·02037			
9. 12	46. 30	6. 7	·0998	12. 52	·02086			
10. 17	47. 15	6. 20	·1002	17. 25	·02537			
11. 3	46. 30	6. 25	·1000	18. 24	·02577			
11. 17	43. 40	7. 25	·1002	19. 18	·02570			
11. 50	45. 5	7. 43	·1000	22. 59	·02390			
12. 46	44. 5	8. 5	·1004	23. 37	·02340			
14. 13	47. 0	8. 18	·1001					
	***	8. 39	·1004					
14. 44	46. 0	10. 11	·1007					
	***	10. 21	·1003					
15. 25	46. 10	10. 30	·1007					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 2		Apr. 2				h m	°	°
h m	° ′ ″	h m		h m				
15. 46	21. 46. 55	11. 6	·1009					
	***	11. 39	·1036					
16. 13	45. 0	11. 51	·1026					
17. 13	46. 30	12. 8	·1020					
17. 31	45. 35	12. 30	·1009					
	(†)	12. 43	·1006					
19. 36	45. 30	12. 50	·1009					
	***	13. 26	·1003					
21. 10	47. 30	14. 11	·1007					
21. 48	50. 0	14. 24	·1009					
	***	14. 50	·1011					
23. 8	47. 15	15. 53	·1015					
	***	16. 26	·1015					
23. 59	48. 30	16. 45	·1012					
		17. 20	·1017					
		17. 33	·1021					
		17. 40	·1017					
		17. 54	·1019					
		18. 10	·1020					
		18. 20	·1021					
		19. 22	·1021					
		19. 26	·1019					
		19. 34	·1021					
		19. 55	·1017					
		20. 15:	·1016					
		20. 35	·1009					
		20. 45	·1011					
		21. 11	·1008					
		21. 34	·1007					
		21. 50	·1009					
		22. 12	·1009					
		22. 27	·1013					
		22. 43	·1011					
		22. 49	·1014					
		23. 6	·1011					
		23. 59	·1011					
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
0. 0	21. 48. 30	0. 0	·1011	0. 0	·02300	1. 40	56 ·0	57 ·0
0. 47	51. 50	0. 24	·1014	3. 35	·02137	3. 40	57 ·0	58 ·0
2. 23	54. 20	0. 33	·1013	3. 58	·02110	9. 40	56 ·0	58 ·0
3. 30	50. 0	1. 0	·1014	6. 46	·02010	21. 40	53 ·0	55 ·0
3. 35	50. 40		***	8. 2	·02006			
3. 44	50. 0	2. 7	·1021	10. 36	·01953			
4. 16	50. 0	2. 19	·1015	16. 22	·01750			
	***	2. 24	·1011	19. 33	·01736			
4. 42	49. 0	2. 55	·1019	21. 43	·01687			
	***	3. 35	·1019		·01780			
7. 43	45. 0	3. 40	·1026	23. 6	·01786			
	***		***	23. 55	·01810			
9. 16	45. 0	5. 57	·1020					
	***	6. 8	·1027					
9. 46	43. 0	6. 20	·1025					
	***	6. 35	·1019					
10. 1	44. 25	6. 44	·1019					
	***	6. 52	·1024					
10. 47	45. 5	7. 40	·1022					
	***	7. 52	·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 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. 3		Apr. 3						
h m	° ′ ″	h m		h m		h m	°	°
11. 12	21. 44. 20	8. 15	·1021					
	***	8. 53	·1022					
11. 29:	42. 45	9. 7	·1028					
	***	9. 22	·1024					
11. 55	45. 0	9. 56	·1030					
	***	10. 12	·1027					
12. 24	46. 5	11. 2	·1031					
	***	11. 5	·1035					
12. 44	45. 25	11. 17	·1031					
13. 20	45. 5	11. 43	·1037					
	***	12. 10	·1033					
13. 50	46. 0	13. 52	·1032					
	***	14. 10	·1034					
14. 36	45. 55	15. 15	·1033					
	***	15. 23	·1035					
15. 2	47. 5	17. 0	·1032					
	***	18. 15	·1033					
15. 24	47. 0	19. 50	·1030					
	***	20. 40	·1024					
15. 31	46. 0	21. 0	·1018					
	***	21. 36	·1013					
15. 43	46. 5	22. 7	·1013					
	***	22. 45	·1007					
16. 10	45. 30	23. 1	·1003					
	***		***					
16. 19	45. 15	23. 50	·1008					
	***							
16. 30	44. 20							
	***							
16. 39	46. 0							
	***							
16. 44	45. 0							
	***							
17. 59	45. 5							
	***							
20. 38	41. 40							
	***							
20. 46	42. 10							
	***							
21. 45	47. 15							
	***							
22. 14	47. 5							
	***							
23. 10	49. 30							
	***							
23. 59	53. 0							
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 1	21. 53. 40	0. 2	·1007	0. 6	·01802	1. 40	56 ·0	58 ·0
0. 34	54. 55	1. 5	·1007	1. 29	·01824	3. 40	58 ·0	60 ·0
1. 8	53. 25	1. 43	·1014	3. 18	·01910	9. 40	60 ·0	60 ·0
1. 30	53. 10	1· 52	·1020	5. 31	·01936	21. 40	49 ·0	51 ·0
1. 37	54. 35	2. 16	·1012	6. 12	·01957			
1. 45	54. 45	2. 36	·1013	6. 58	·01958			
2. 0	53. 25	2. 39	·1017	8. 44	·02066			
2. 34	53. 10	2. 47	·1013	9. 45	·02096			
2. 47	50. 10	2. 55	·1018	13. 16	·02406			
3. 0	51. 0	3. 1	·1009	16. 4	·02740			
					·02658			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 4		Apr. 4		Apr. 4				
h m	° ′ ″	h m		h m		h m	°	°
3. 22	21. 49. 10	3. 20	·1009	19. 0	·02640			
4. 7	47. 45	3. 25	·1013	20. 33	·02604			
4. 32	47. 30	3. 43	·1011	23. 7	·02620			
5. 1	46. 30	3. 52	·1013	23. 59	·02577			
5. 20	44. 30	4. 46	·1010					
	***	5. 8	·1011					
9. 0	45. 0	5. 25	·1007					
9. 40	45. 50	5. 35	·1008					
11. 45	45. 50	5. 52	·1005					
	(†)	6. 10	·1011					
14. 30	44. 5	6. 35	·1012					
15. 31	45. 40	6. 50	·1009					
15. 48	44. 30	7. 38	·1011					
16. 30	45. 0		***					
17. 43	46. 5	9. 6	·1016					
	(†)	9. 23	·1015					
20. 17	43. 0	9. 26	·1017					
20. 50	42. 30	9. 29	·1015					
	***	9. 52	·1015					
21. 59	42. 40	10. 47	·1017					
	***	11. 40	·1024					
23. 0	46. 50	11. 50	·1021					
23. 10	46. 50	12. 3	·1021					
23. 26	47. 55	12. 13	·1028					
23. 36	47. 55	12. 30	·1024					
23. 46	50. 35	12. 42	·1024					
23. 55	51. 0	12. 52	·1031					
		13. 30	·1022					
		15. 22	·1026					
		16. 10	·1031					
		16. 30	·1030					
		16. 44	·1027					
		17. 54	·1032					
		18. 25	·1036					
		19. 4	·1023					
		19. 36	·1026					
		19. 44	·1030					
		20. 23	·1033					
		21. 32	·1029					
		21. 54	·1024					
		23. 0	·1014					
		23. 4	·1014					
		23. 17	·1010					
		23. 59	·1011					
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
1. 40	21. 52. 37*	1. 40	·1008*	0. 2	·02554	1. 40	55 ·0	56 ·0
3. 40	50. 58*	3. 40	·1008*	0. 34	·02510	3. 40	56 ·0	
9. 40	37. 1*	9. 40	·1028*	2. 33	·02306	9. 40	56 ·0	58 ·0
22. 40	33. 29*	22. 40	·1015*	3. 9	·02186	22. 40	50 ·5	52 ·0
				4. 47	·01989			
				6. 45	·01910			
				10. 15	·01910			
				12. 30	·01992			
				14. 29	·02130			
				21. 3	·02657			
					·02618			
				22. 39	·02560			

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. 6		Apr. 6		Apr. 6		Apr. 6		
h m	° ′ ″	h m		h m		h m	°	°
10. 40	21. 37. 9*	10. 40	·1004*	0. 0	·02540	10. 40	52 ·5	53 ·0
21. 40	39. 57*	21. 40	·1018*	2. 12	·02527	21. 40	47 ·0	50 ·0
				4. 38	·02386			
				7. 42	·02257			
				9. 51	·02257			
				11. 41	·02248			
				13. 36	·02350			
				16. 15	·02591			
				16. 44	·02617			
				16. 47	·02561			
				18. 2	·02594			
				20. 46	·02590			
				23. 59	·02498			
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 43	21. 48. 5		(†)	0. 0	·02496	1. 40	51 ·5	54 ·0
1. 5	48. 45	0. 50	·1013	0. 38	·02478	3. 40	57 ·0	57 ·0
1. 15	49. 40	1. 20	·1017	1. 0	·02453	9. 40	58 ·0	59 ·0
1. 30	49. 0	1. 37	·1014	1. 45	·02377	21. 40	52 ·0	54 ·0
2. 28	49. 35	1. 49	·1015	4. 15	·01938			
3. 10:	48. 20		(†)	5. 19	·01987			
3. 47	46. 10	3. 58	·1019	7. 1	·01937			
5. 4	44. 0	5. 10	·1017	11. 18	·02038			
8. 48	43. 35	5. 40	·1017	18. 6	·02530			
9. 10	43. 10	6. 50:	·1014	19. 29	·02648			
9. 47	44. 15	8. 25	·1015	20. 30	·02690			
	***	9. 6	·1015	23. 36	·02615			
10. 15	43. 50	9. 33	·1016					
10. 22	44. 30	9. 45	·1018					
	***	9. 58	·1017					
10. 45	41. 50		(†)					
	***	23. 59	·1021					
11. 17	42. 0							
11. 30	41. 40							
12. 12	43. 50							
	***							
12. 45	43. 0							
	***							
13. 6	44. 4							
15. 10	44. 5							
15. 27	44. 30							
	***							
16. 14	43. 50							
17. 47	44. 0							
20. 0	40. 30							
	***							
20. 43	39. 0							
	***							
21. 44	39. 15							
22. 36	41. 40							
23. 25	44. 30							
23. 35	46. 30							
23. 59	46. 15							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 0	21. 46. 15	0. 0	·1021	0. 0	·02580	1. 40	55 ·5	56 ·0
0. 15	47. 40	0. 12	·1022	3. 12	·02437	3. 40	56 ·0	57 ·0
0. 29	47. 20	0. 23	·1016	7. 42	·02261	9. 40	57 ·0	57 ·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.
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
h m	° ′ ″	h m		h m		h m	°	°
1. 33	21. 50. 45	0. 38	·1017	10. 0	·02211	21. 40	51 ·0	51 ·0
2. 36:	50. 25	0. 55	·1015	14. 8	·02397			
5. 55	45. 15	1. 31	·1022	17. 15	{·02710			
6. 2	44. 50	2. 20	·1021		{·02658			
7. 9	44. 30	3. 0	·1024	18. 46	{·02657			
	***	3. 15	·1043		{·02604			
11. 57	44. 0	4. 13	·1047	20. 47	·02628			
	***	5. 22	·1044	23. 48	·02490			
12. 45	44. 30	7. 45	·1050					
	***	8. 12	·1051					
19. 30	42. 35	8. 18	·1048					
	***	10. 0	·1050					
20. 29	38. 40	12. 37	·1049					
	***	12. 52	·1054					
21. 45	39. 30	13. 30	·1050					
22. 0	38. 5	14. 51	·1051					
22. 24	38. 20	15. 24	·1054					
	***	15. 55	·1052					
23. 59	46. 30	16. 21	·1055					
		18. 36	·1058					
		18. 56	·1063					
		19. 3	·1060					
		19. 21	·1060					
		19. 29	·1055					
		20. 33	·1053					
		22. 0	·1037					
		22. 46	·1026					
		22. 52	·1026					
		23. 59	·1025					
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 0	21. 46. 40	0. 0	·1025	0. 3	·02480	1. 40	52 ·5	54 ·0
0. 14	47. 15	0. 20	·1029	1. 43	·02398	3. 40	52 ·0	54 ·0
0. 27	48. 50	0. 38	·1030	3. 9	·02277	9. 40	56 ·0	57 ·0
0. 32	48. 30	0. 52	·1028	5. 38	·01898	21. 40	52 ·0	54 ·0
0. 45	50. 20	1. 4	·1031	6. 12	·01858			
1. 44:	51. 40	2. 0	·1029	8. 27	·01874			
2. 46:	50. 50	2. 38	·1033	9. 54	·01845			
6. 44	45. 0	2. 46	·1033	15. 29	·02153			
6. 58	45. 30	3. 14	·1035	18. 57	·02363			
7. 30	45. 25	3. 33	·1039	21. 13	·02420			
8. 47	44. 15	4. 23	·1040	21. 17	·02370			
9. 0	44. 45		***	22. 22	·02338			
10. 55	44. 50	5. 47	·1044	23. 53	·02218			
11. 46	44. 20	6. 20	·1040					
13. 4	45. 0	6. 48	·1038					
13. 43	45. 30	7. 10	·1042					
14. 0	43. 55	8. 55	·1042					
	***	9. 22	·1046					
14. 14	44. 55	9. 48	·1045					
	***	11. 52	·1046					
15. 45	43. 30	12. 0	·1044					
	***	13. 18	·1046					
19. 11	43. 30	13. 26	·1048					
20. 43	41. 0	15. 27	·1047					
22. 28	40. 50	17. 11	·1048					
23. 42	45. 30	17. 24	·1051					
		17. 28	·1048					

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	° ′ ″	Apr. 9 h m		h m		h m	°	°
		17. 33	·1049					
		18. 5	·1051					
		19. 50	·1049					
		22. 5	·1037					
		22. 40	·1032					
		22. 45	·1031					
		23. 52	·1038					
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 18	21. 47. 20	0. 0	·1030	0. 14	·02188	1. 40	54 ·5	56 ·0
0. 28	47. 30	1. 54	·1033	3. 30	·01921	3. 40	58 ·0	58 ·0
0. 37	48. 40	2. 5	·1042		·01982	9. 40	59 ·5	60 ·5
1. 23	50. 40	2. 15	·1028	4. 34	·01952	21. 40	54 ·0	55 ·0
2. 5	52. 0	2. 45	·1026	6. 45	·01959			
2. 15	50. 30	3. 15	·1031	9. 48	·01913			
	***	4. 3	·1030	13. 33	·02058			
2. 47	50. 20	4. 8	·1027	15. 7	·02217			
5. 1	45. 50	5. 5	·1025	20. 0	·02777			
5. 28	45. 50	5. 11	·1027		·02648			
7. 28	45. 5	6. 16	·1030	23. 20	·02731			
7. 46	45. 30	6. 35	·1030	23. 56	·02681			
8. 46	44. 30	6. 54	·1026					
9. 1	43. 0	7. 40	·1031					
9. 23	43. 10	8. 7	·1029					
9. 34	44. 10	10. 6	·1032					
9. 48	44. 50	10. 37	·1031					
	***	11. 30	·1034					
10. 55	43. 50	11. 40	·1035					
	***	11. 51	·1032					
11. 15	44. 30	12. 4	·1034					
	***	13. 0	·1033					
11. 50	43. 0	13. 24	·1039					
	***	13. 45	·1034					
13. 24	44. 30	14. 50	·1034					
	***	15. 12	·1037					
13. 47	43. 30	15. 50	·1036					
	***	19. 18	·1044					
14. 26	43. 50	20. 0	·1042					
	***	20. 33	·1043					
15. 32	44. 0	21. 15	·1037					
	***	21. 32	·1034					
17. 13	44. 30	22. 15	·1024					
	***	23. 36	·1017					
20. 16	41. 0	23. 52	·1019					
	***	23. 59	·1018					
20. 59	40. 40							
21. 30	41. 30							
21. 54	40. 20							
22. 0	41. 0							
22. 18	40. 55							
23. 3	43. 15							
23. 54	46. 40							
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 16	21. 49. 20	0. 0	·1018	0. 22	·02770	1. 40	57 ·0	57 ·0
0. 40	49. 20	1. 36	·1024	2. 51	·02510	3. 40	60 ·0	60 ·0
1. 13	51. 20	2. 12	·1021	4. 56	·02220	9. 40	60 ·0	60 ·5
1. 29	51. 5	3. 15	·1024	6. 43	·02056	21. 40	57 ·0	57 ·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.
Apr. 11 h m	° ′ ″	Apr. 11 h m		Apr. 11 h m		h m	°	°
1. 43	21. 51. 55	4. 4	·1026	10. 0	·02031			
3. 1	50. 40	4. 9	·1023	11. 46	·02078			
4. 5	48. 5	4. 24	·1028	13. 45	·02172			
4. 15	47. 30	4. 30	·1030	17. 19	·02407			
4. 52	46. 50	4. 51	·1024	17. 46	·02418			
5. 1	47. 10	4. 58	·1031		·02350			
6. 58	45. 40	5. 12	·1024	23. 20	·02370			
7. 31	46. 0	5. 52	·1031					
	***	6. 34	·1032					
8. 8	45. 30	7. 4	·1036					
	***	7. 23	·1034					
8. 28	46. 5	7. 50	·1035					
	***	8. 11	·1033					
9. 49	45. 25	8. 45	·1034					
10. 11	36. 25	8. 49	·1039					
	***	9. 15	·1032					
10. 17	35. 30	10. 7	·1035					
	***	10. 21	·1045					
10. 37	35. 35	10. 38	·1036					
	***	11. 7	·1038					
11. 1	38. 30	11. 16	·1033					
	***	11. 40	·1030					
11. 16	37. 5	11. 52	·1024					
11. 32	38. 30	12. 25:	·1032					
11. 44	41. 0	12. 40	·1034					
12. 14	42. 55	12. 56	·1032					
	***	13. 33	·1036					
13. 0	42. 50	13. 45	·1034					
	***	13. 52	·1036					
13. 30	44. 15	14. 15	·1036					
	***	14. 29	·1037					
14. 45	44. 30	14. 52	·1036					
	***	15. 32	·1038					
15. 59:	43. 30	16. 50	·1037					
	***	18. 54	·1039					
17. 0	44. 30	20. 43	·1033					
	***	21. 52	·1026					
20. 45	41. 30	22. 45	·1016					
21. 16	41. 55		***					
21. 25	41. 10	23. 30	·1016					
21. 38	42. 0	23. 59	·1017					
21. 57	41. 35							
22. 49	43. 25							
23. 59	47. 30							
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 0	21. 47. 35	0. 0	·1017	0. 0	·02230	1. 40	60 ·0	60 ·0
0. 55	49. 0	0. 50	·1023	2. 53	·01958	3. 40	62 ·0	63 ·0
1. 49:	50. 0	2. 40	·1023		·02068	9. 40	63 ·0	63 ·0
3. 33	49. 30	2. 45	·1017	7. 30	·01980	22. 30	55 ·0	56 ·0
	***	4. 4	·1019	11. 14	·02120			
4. 59	46. 5		***	13. 41	·02323			
6. 36	45. 5	5. 8	·1017	17. 42	·02800			
8. 30	44. 30	5. 30	·1021		·02723			
9. 13	40. 50	6. 25	·1023	22. 57	·02754			
10. 31	44. 0	7. 33	·1020					
	***	8. 20	·1024					
11. 30	44. 5	8. 38	·1024					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 12 h m	° ′ ″	Apr. 12 h m		h m		h m	°	°
11. 36	21. 42. 55	8. 45	·1026					
	***	10. 16	·1027					
13. 30	43. 15	11. 15	·1030					
	***	11. 33	·1033					
13. 55	41. 25	11. 40	·1035					
	***	12. 20	·1029					
14. 50	42. 10	13. 15	·1036					
	***	13. 27	·1035					
16. 0	40. 0	13. 39	·1036					
	***	14. 15	·1030					
16. 32	42. 35	15. 10	·1033					
	***	16. 6	·1033					
17. 45	40. 0	16. 45	·1037					
	***	17. 38	·1034					
19. 0	43. 25	18. 0	·1033					
	***	18. 25	·1032					
20. 25	43. 50	18. 44:	·1037					
	***	20. 22	·1036					
20. 47	42. 0	20. 28	·1034					
	***	21. 0	·1029					
21. 30	44. 30	21. 54	·1026					
	***	22. 50	·1018					
22. 50	44. 30		(†)					
	(†)							
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
8. 5	21. 44. 8*		(†)	0. 0	·02712	8. 5	63 ·0	65 ·0
	(†)	11. 30	·1021	1. 45	·02607	21. 40	56 ·0	58 ·0
10. 45	44. 15	12. 40	·1022	3. 15	·02440			
12. 55:	44. 30	14. 9	·1026	5. 6	{·02043			
	***	15. 4	·1028		{·02106			
18. 0	43. 30	16. 20	·1031	8. 28	·02035			
	***	18. 4	·1033	8. 44	·02066			
20. 15	41. 30	18. 16	·1031	12. 13	·02160			
21. 54	42. 30	18. 23:	·1034	14. 30	·02337			
22. 55	45. 0	20. 35	·1029	18. 15	{·02796			
23. 27	46. 0	21. 15	·1025		{·02720			
23. 51	47. 30	22. 10	·1019	20. 15	·02731			
		23. 59	·1019	21. 36	·02713			
				22. 58	·02723			
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 30	21. 50. 10	0. 31	·1020	0. 24	·02560	1. 40	57 ·0	58 ·0
1. 13	49. 55	1. 4	·1024	2. 44	·02513	3. 40	59 ·8	60 ·3
2. 5	49. 30	2. 21	·1025	7. 0	·02138	9. 40	60 ·0	60 ·5
3. 13	47. 55	2. 50	·1028	9. 7	·02110	21. 40	53 ·5	55 ·0
3. 22	48. 0	3. 2	·1025	11. 0	·02193			
3. 39	47. 0	4. 0	·1029	14. 24	·02448			
4. 17	45. 30	4. 30	·1027	16. 5	·02619			
4. 55	45. 10	5. 10	·1028	17. 57	{·02678			
5. 57	45. 30	5. 30	·1029		{·02598			
6. 14	44. 55	5. 50	·1030	19. 36	·02650			
	***	6. 24	·1028	23. 59	·02612			
8. 7	44. 30	10. 20	·1039					
	***	10. 52	·1037					
9. 9	45. 5	11. 13	·1042					
	***	11. 24	·1047					
10. 28	45. 20	11. 40	·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.
Apr. 14 h m	° ′ ″	Apr. 14 h m		h m		h m	°	°
12. 22	21. 44. 0	11. 56	·1037					
	***	12. 30	·1049					
12. 36	45. 30	13. 7	·1048					
	***	13. 20	·1043					
12. 51	44. 30	13. 51	·1042					
	***	14. 3	·1043					
13. 15	41. 0	14. 12	·1040					
	***	14. 38	·1040					
13. 46	43. 20	14. 51	·1043					
	***	15. 20	·1042					
14. 44	42. 45	16. 50	·1043					
	***	17. 26	·1045					
14. 59	44. 0	17. 32	·1044					
	***	18. 11	·1045					
15. 40	42. 55	18. 20	·1045					
	***	19. 7:	·1047					
16. 26	44. 0	19. 50	·1044					
	***	20. 10	·1044					
16. 49	43. 30	20. 36	·1034					
	***	20. 55	·1033					
17. 57	43. 55	21. 4	·1030					
	***	21. 52	·1024					
19. 47	41. 20	22. 9	·1027					
	***	22. 35	·1029					
20. 43	41. 30	22. 38	·1023					
	***	22. 50	·1029					
21. 28	44. 0	23. 10	·1030					
	***	23. 27	·1030					
22. 30	47. 5	23. 33	·1018					
22. 39	48. 45	23. 39	·1024					
22. 45	47. 30	23. 45	·1036					
22. 53	47. 50	23. 51	·1035					
22. 59	47. 30							
23. 28	49. 0							
23. 34	48. 5							
23. 41	48. 5							
23. 47	49. 30							
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 3	21. 49. 0	0. 5	·1035	0. 2	·02610	1. 40	55 ·8	56 ·1
0. 17	48. 20	0. 17	·1033	1. 30	·02558	3. 40	58 ·0	58 ·0
0. 30	49. 30		***	2. 55	·02447	9. 40	59 ·0	59 ·0
0. 50	49. 20	1. 5	·1038	5. 43	·02021	21. 40	50 ·0	51 ·5
1. 14	51. 20	1. 13	·1045	7. 41	·01900			
1. 17	53. 10	1. 16	·1045	11. 0	·02030			
1. 32	52. 15	1. 30	·1035	17. 43	{·02643			
2. 43	50. 10	1. 42	·1034		{·02618			
3. 28	48. 5	2. 11	·1034	20. 42	·02621			
5. 20	48. 0	2. 19	·1033	23. 59	·02610			
5. 29	48. 10	2. 51	·1036					
5. 41	48. 15	3. 0	·1034					
6. 47	47. 20	3. 10	·1036					
6. 50	47. 0	3. 30	·1032					
7. 6	48. 55	3. 38	·1035					
7. 27	44. 30	3. 50	·1034					
7. 32	44. 30	4. 6	·1039					
7. 58	43. 0	4. 17	·1035					
8. 30	43. 0	4. 33	·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.	Readings of Thermometers. Of V. F. Magnet.
Apr. 15		Apr. 15						
h m	° ′ ″	h m		h m		h m	°	°
8. 40	21. 43. 20	4. 46	·1033					
9. 8	42. 20	4. 56	·1035					
9. 27	29. 0	5. 3	·1031					
10. 13	39. 0	5. 15	·1031					
11. 0	42. 55	5. 16	·1029					
11. 47	43. 20	5. 24	·1028					
11. 57	43. 0	5. 26	·1031					
12. 12	43. 30	5. 36	·1033					
12. 43	42. 50	5. 39	·1028					
13. 29	43. 20	5. 48	·1029					
14. 13	42. 55	5. 50	·1030					
15. 1	43. 0	5. 54	·1023					
15. 14	43. 30	6. 2	·1024					
16. 55	43. 5	6. 5	·1029					
17. 17	43. 30	6. 6	·1029					
19. 14	43. 40	6. 9	·1026					
20. 16	42. 45	6. 17	·1025					
20. 40	42. 5	6. 25	·1029					
22. 10	41. 35	6. 34	·1030					
22. 19	42. 0	6. 39	·1027					
23. 59	47. 55	6. 52	·1027					
		7. 4	·1014					
		7. 30	·1024					
		7. 34	·1023					
		7. 45	·1028					
		8. 2	·1034					
		8. 22	·1033					
		8. 29	·1034					
		8. 37	·1027					
		8. 53	·1037					
		9. 2	·1035					
		9. 15	·1037					
		9. 32	·1041					
		9. 36	·1040					
		9. 48	·1036					
		10. 14	·1034					
		10. 48	·1035					
		10. 56	·1037					
		11. 5	·1037					
		11. 37	·1038					
		11. 42	·1039					
		11. 55	·1037					
		12. 40	·1040					
		13. 35	·1041					
		13. 52	·1042					
		14. 20	·1043					
		14. 24	·1045					
		15. 0	·1045					
		15. 54	·1048					
		16. 38	·1045					
		17. 45	·1045					
		18. 34	·1047					
		18. 56	·1050					
		19. 30	·1049					
		19. 52	·1046					
		20. 20	·1046					
		21. 5	·1042					
		21. 37	·1037					
Apr. 16								
0. 0	21. 48. 0	0. 2	·1032	0. 0	·02613	1. 40	52 ·8	54 ·0
0. 15	48. 30	1. 53	·1030	1. 33	·02547	3. 40	56 ·0	57 ·5
1. 27:	49. 55	3. 13	·1031	3. 6	·02398	9. 40	58 ·0	59 ·0
2. 7	49. 40	3. 57	·1030	4. 40	·02030	21. 40	49 ·0	51 ·0
3. 31	46. 50	4. 7	·1031	5. 36	·01870			
4. 35	44. 45	4. 41	·1028		·01904			
5. 25	44. 10	5. 31	·1028	7. 8	·01873			
	(†)	5. 43	·1027	8. 16	·01913			
12. 43	44. 20	5. 48	·1029	10. 39	·01960			
12. 50	44. 40	6. 41	·1028	12. 21	·02090			
14. 44	44. 0	6. 59	·1030	14. 24	·02270			
15. 21	44. 0	7. 23	·1031	16. 13	·02490			
15. 40	43. 50	8. 13	·1037	17. 30	·02658			
15. 55	44. 0	8. 24	·1036		·02594			
16. 52	43. 35	8. 33	·1038	18. 47	·02618			
19. 15	44. 10	8. 58	·1037	22. 10	·02597			
20. 0	43. 0	10. 24	·1039	23. 48	·02597			
20. 10	42. 5	10. 41	·1041					
20. 29	41. 30	10. 48	·1043					
22. 13	43. 0	11. 23	·1042					
22. 59	44. 35	12. 47	·1047					
23. 23	46. 0	14. 39	·1045					
23. 59	47. 5	14. 51	·1048					
		15. 17	·1048					
		15. 44	·1049					
		15. 55	·1045					
		17. 9	·1049					
		17. 43	·1051					
		18. 15	·1050					
		18. 51	·1053					
		18. 58	·1057					
		19. 38	·1053					
		19. 45	·1053					
		19. 52	·1052					
		20. 17	·1051					
		21. 13	·1045					
		21. 19	·1045					
		22. 13	·1042					
		22. 40	·1037					
		22. 52	·1038					
		23. 1	·1037					
		23. 13	·1037					
		23. 32	·1036					
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	21. 47. 0	0. 0	·1035	1. 14	·02540	1. 40	52 ·0	53 ·5
	***	0. 29	·1036	2. 15	·02509	3. 40	56 ·0	57 ·0
1. 36	48. 0	0. 34	·1034	3. 50	·02340	9. 40	57 ·0	60 ·0
2. 32	47. 15	1. 27	·1035	3. 57	·02140	21. 40	52 ·0	52 ·0
3. 55	46. 10	2. 33	·1033	5. 7	·01878			
4. 57	44. 55	2. 42	·1031		·01912			
5. 13	45. 10	3. 32	·1031	6. 18	·01916			

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.17		Apr.17		Apr.17				
h m	° ′ ″	h m		h m		h m	°	°
5. 27	21. 44. 55	3. 36	·1028	9. 31	·01887			
6. 36	44. 15	4. 4	·1031	10. 22	·01944			
	***	4. 14	·1030	15. 5	·02230			
7. 2	43. 10	4. 22	·1032	16. 58	·02430			
7. 13	43. 45	5. 0	·1031	20. 35	·02672			
7. 19	43. 10	5. 25	·1033		·02606			
7. 34	43. 35	5. 39	·1027	21. 36	·02610			
8. 13	42. 30	6. 4	·1035		·02373			
	***	6. 16	·1036	23. 56	·02440			
8. 45	43. 5	6. 30	·1032					
9. 2	43. 15	6. 36	·1033					
9. 17	43. 55	6. 45	·1032					
	***	6. 52	·1034					
10. 28	44. 50	7. 0	·1032					
	***	8. 5	·1034					
11. 2	44. 10	8. 41	·1037					
12. 15	44. 20	9. 27	·1039					
	***	10. 10	·1041					
14. 0	45. 0	11. 45	·1043					
15. 13	43. 45	12. 30	·1047					
15. 43	44. 0	12. 50	·1050					
16. 27	43. 25	13. 1	·1049					
16. 53	43. 40	13. 5	·1049					
17. 45	43. 40	13. 37	·1051					
	(†)	13. 50	·1049					
19. 10	42. 0	17. 23	·1054					
	***	17. 36	·1051					
19. 42	39. 30	18. 0	·1055					
19. 46	41. 15	18. 22	·1045					
	***		***					
20. 28	40. 0	19. 33	·1061					
21. 36	40. 40	19. 50	·1058					
21. 57	42. 40	20. 15	·1057					
22. 27	42. 30	20. 44	·1051					
22. 46	43. 10	21. 14	·1045					
23. 13	43. 0	21. 27	·1045					
23. 22	43. 55	21. 32	·1046					
23. 46	47. 5	22. 10	·1036					
		22. 25	·1034					
		22. 52	·1028					
		23. 0	·1024					
		23. 12	·1023					
		23. 17	·1021					
		23. 47	·1027					
		23. 58	·1020					
Apr.18		Apr.18		Apr.18		Apr.18		
0. 24	21. 48. 0	0. 12	·1026	0. 10	·02440	1. 40	54 ·5	55 ·5
1. 17	51. 10	0. 20	·1025	1. 27	·02428	3. 40	57 ·0	59 ·0
1. 41:	51. 30	0. 40	·1033	2. 47	·02317	9. 40	62 ·5	64 ·0
3. 35	48. 0	1. 10	·1040	4. 30	·02010	21. 40	56 ·0	55 ·0
3. 50	48. 0	1. 22	·1037	5. 48	·02010			
5. 15	46. 10	1. 42	·1022	7. 3	·01978			
5. 31	46. 10	2. 6	·1027	7. 16	·02024			
7. 5	44. 10	2. 12	·1033	8. 38	·02100			
7. 43	43. 40	2. 30	·1035	10. 32	·02124			
7. 47	44. 0	2. 37	·1034	14. 30	·02353			
8. 6	43. 20	2. 52	·1037	16. 32	·02502			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.18		Apr.18		Apr.18				
h m	° ′ ″	h m		h m		h m	°	°
8. 16	21. 43. 40	3. 0	·1039		·02749			
8. 44	43. 35	3. 20	·1036	19. 10	·02676			
8. 48	42. 10	3. 45	·1037	23. 57	·02678			
9. 7	41. 30	3. 52	·1035					
9. 14	42. 0	4. 22	·1036					
10. 3	41. 35	4. 34	·1034					
10. 17	39. 30	4. 39	·1035					
10. 48	40. 15	4. 47	·1035					
11. 2	41. 25	5. 4	·1038					
11. 20	41. 0	5. 6	·1039					
12. 20	43. 50	5. 9	·1036					
12. 47	42. 40	5. 17	·1035					
14. 2	43. 30	5. 45	·1030					
15. 10	42. 50	6. 0	·1031					
15. 17	43. 10	6. 18	·1032					
16. 3	42. 10	6. 50	·1034					
16. 32	42. 15	6. 53	·1033					
16. 57	42. 30	7. 10	·1036					
17. 15	43. 5	7. 41	·1031					
	***	7. 57	·1034					
18. 57	42. 0	8. 53	·1032					
	***	9. 18	·1035					
19. 6	42. 10	9. 25	·1033					
	***	9. 57	·1035					
19. 29	41. 20	10. 15	·1033					
	***	10. 21	·1036					
20. 0	41. 30	10. 57	·1037					
	***	11. 16	·1036					
20. 37	40. 15	11. 36	·1047					
	***	12. 16	·1040					
22. 17:	41. 40	12. 28	·1044					
23. 7	44. 15	12. 52	·1045					
23. 59	47. 40	13. 20	·1042					
		14. 37	·1043					
		15. 7	·1045					
		15. 16	·1047					
		17. 13	·1048					
		17. 20	·1047					
		18. 6	·1048					
		18. 30	·1048					
		18. 47	·1050					
		20. 30	·1048					
		22. 5	·1035					
		22. 52	·1027					
		23. 30	·1009					
		23. 59	·1011					
Apr.19		Apr.19		Apr.19		Apr.19		
0. 0	21. 47. 40	0. 0	·1011	0. 9	·02672	1. 40	56 ·0	57 ·0
1. 0	50. 50	0. 23	·1012	2. 16	·02641	3. 40	57 ·0	58 ·0
1. 30	51. 30	1. 6	·1017	4. 30	·02557	9. 40	57 ·0	59 ·0
2. 51	49. 10	1. 21	·1021	6. 30	·02406	23. 20	50 ·0	51 ·0
3. 6	48. 20	2. 15	·1028	7. 29	·02377			
4. 18	46. 30	2. 40	·1032	10. 2	·02386			
5. 28	45. 30	2. 45	·1031	11. 2	·02430			
6. 58	45. 55	2. 54	·1033	14. 42	·02720			
7. 12	45. 10	3. 52	·1035		·02663			

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. 19	° ′ ″	Apr. 19		Apr. 19		h m	°	°
h m		h m		h m				
8. 30	21. 45. 10	4. 20	·1034	16. 30	{·02660			
8. 45	43. 50	4. 36	·1036		{·02593			
9. 0	44. 0	4. 45	·1033	17. 28	·02663			
9. 12	43. 40	4. 50	·1034	22. 48	·02650			
	***	5. 35	·1032	23. 43	·02628			
10. 17	42. 20	6. 47	·1036					
	***	7. 30	·1032					
10. 47	41. 30	7. 52	·1034					
	***	8. 39	·1032					
12. 18	43. 0	9. 51	·1032					
	***	10. 15	·1029					
12. 38	45. 30	10. 28	·1032					
	***	10. 45	·1029					
12. 48	46. 0	11. 34	·1031					
	***	12. 6	·1031					
13. 29	43. 40	12. 46	·1039					
	***	13. 33	·1045					
15. 10	43. 0	13. 50	·1042					
	***	15. 0	·1042					
15. 27	43. 20	15. 50	·1043					
	***	16. 20	·1045					
17. 24	42. 40	16. 52	·1045					
	***	18. 15	·1046					
18. 9	44. 20	18. 51	·1047					
	***	20. 17	·1044					
19. 25	41. 30	21. 23	·1037					
	***	22. 15	·1028					
20. 40	41. 15	23. 40	·1023					
21. 29	40. 30	23. 59	·1021					
21. 57	41. 55							
22. 7	41. 25							
22. 20	42. 20							
22. 40	42. 30							
23. 46	44. 45							
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 1	21. 45. 50	0. 0	·1021	0. 0	·02596	9. 32	60 ·0	62 ·5
0. 58	48. 50	1. 6	·1029	2. 10	·02547	21. 40	50 ·3	51 ·9
2. 5	51. 0	1. 37	·1032	3. 57	·02380			
2. 46	51. 15	2. 15	·1032	4. 34	·02262			
3. 45	49. 30	2. 21	·1030	6. 12	{·01918			
4. 4	48. 10		***		{·01980			
6. 15	44. 10	3. 23	·1031	8. 12	·01920			
9. 17	43. 30	3. 32	·1029	10. 21	·01949			
9. 30	43. 0	4. 0	·1028	13. 42	·02160			
	***	4. 20	·1029	17. 49	{·02700			
13. 10	45. 15	4. 36	·1029		{·02618			
	***	5. 7	·1027	22. 0	·02618			
15. 50	44. 55	5. 21	·1025	23. 4	·02637			
	***	5. 47	·1028	23. 59	·02597			
17. 14	46. 20	6. 5	·1023					
	***	6. 43	·1026					
17. 58	44. 30	8. 5	·1025					
	***	9. 16	·1025					
18. 25	44. 30	9. 25	·1023					
	(†)	10. 13	·1022					
19. 15	41. 20	10. 24	·1020					
	***	11. 12	·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.
Apr. 20	° ′ ″	Apr. 20		h m		h m	°	°
h m		h m						
20. 22	21. 40. 40	12. 0	·1021					
21. 40	40. 55	12. 32	·1034					
22. 15	41. 40	13. 0	·1032					
23. 59	47. 30	13. 43	·1035					
		14. 34	·1034					
		15. 45	·1036					
		16. 5	·1037					
		16. 45	·1035					
		17. 14	·1039					
		19. 15	·1041					
		19. 34	·1044					
		20. 40	·1036					
		21. 26	·1026					
		22. 0	·1023					
		22. 51	·1026					
		22. 54	·1025					
		23. 21	·1027					
		23. 27	·1029					
		23. 36	·1027					
		23. 59	·1030					
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 0	21. 47. 30	0. 0	·1030	0. 54	·02557	1. 40	55 ·0	55 ·5
1. 18	51. 40	0. 47	·1023	1. 51	·02463	3. 40	59 ·5	60 ·0
2. 17	51. 45	1. 22	·1028	3. 15	·02220	9. 40	64 ·0	65 ·5
2. 26	51. 10	2. 7	·1029	4. 17	{·01943	21. 40	53 ·8	55 ·0
2. 32	51. 40	2. 54	·1031		{·01993			
3. 57	48. 55	3. 0	·1028	6. 58	·01970			
5. 30	45. 55	3. 25	·1031	11. 54	·02168			
6. 14	44. 30	4. 7	·1031	14. 25	·02406			
6. 28	44. 10	4. 39	·1027	17. 29	{·02786			
7. 55	43. 40	4. 43	·1029		{·02700			
8. 50	44. 10	5. 30	·1026	19. 10	·02710			
10. 8	44. 30	5. 37	·1028	23. 6	{·02678			
10. 14	43. 50	5. 50	·1015		{·02360			
10. 23	44. 55	6. 5	·1026	23. 56	·02370			
10. 47	43. 30	6. 15	·1025					
11. 14	43. 15	6. 22	·1035					
	***	6. 36	·1023					
12. 36	39. 0	6. 51	·1022					
	***	7. 20	·1026					
12. 57	35. 35	7. 34	·1025					
	***	7. 48	·1019					
13. 14	36. 5	8. 12	·1016					
	***	8. 30	·1020					
13. 25	34. 35	9. 0	·1018					
	***	10. 6	·1025					
13. 57	41. 20	10. 13	·1021					
14. 2	40. 15	10. 22	·1025					
14. 27	42. 0	10. 33	·1023					
14. 47	41. 0	11. 10	·1028					
15. 3	42. 10	11. 30	·1028					
	***	11. 39	·1027					
15. 39	43. 15	11. 53	·1035					
	***	12. 13	·1037					
17. 12	42. 5	12. 35	·1035					
19. 47	40. 5	13. 5	·1041					
20. 2	38. 50	13. 30	·1024					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.21		Apr.21						
h m	° ′ ″	h m		h m		h m	°	°
20. 22	21. 38. 50	13. 45	·1022					
20. 47	39. 55	14. 0	·1026					
20. 57	39. 30	14. 5	·1021					
22. 5	41. 5	14. 22	·1025					
22. 32	43. 0	14. 29	·1028					
23. 29	45. 20	16. 30	·1031					
23. 57	46. 0	18. 33	·1037					
		19. 7	·1039					
		19. 18	·1036					
		20. 21	·1036					
		20. 53	·1034					
		22. 0	·1020					
		23. 15	·1017					
		23. 58	·1019					
Apr.22		Apr.22		Apr.22		Apr.22		
0. 0	21. 46. 55	0. 0	·1019	0. 0	·02357	1. 40	57 ·0	57 ·5
1. 0	49. 30	0. 22	·1022	1. 15	·02330	3. 40	59 ·8	60 ·0
1. 52	51. 5	0. 30	·1026	3. 50	·02050	9. 40	61 ·0	61 ·0
3. 48	50. 15	1. 12	·1030	5. 4	·01953	21. 40	51 ·1	52 ·3
4. 2	50. 30	2. 33	·1029	9. 15	·01967			
4. 32	49. 0	2. 47	·1029	12. 51	·02090			
4. 49	49. 10	2. 51	·1033	13. 26	·02147			
5. 12	48. 0	3. 14	·1030	13. 48	·02150			
5. 55	47. 55	3. 40	·1039	14. 25	·02214			
6. 12	47. 20	3. 53	·1034	15. 14	·02223			
6. 38	45. 55	3. 59	·1034	15. 45	·02264			
6. 58	45. 20	4. 5	·1031	17. 41	{·02630			
7. 42	46. 55	4. 15	·1029		{·02558			
8. 7	44. 5	4. 30	·1035	19. 13	·02597			
8. 31	45. 0	4. 54	·1031	23. 22	·02637			
8. 43	43. 30	5. 6	·1036	23. 45	·02614			
8. 50	43. 20	5. 45	·1024					
9. 12	38. 50	6. 33	·1022					
9. 50	39. 10	6. 50	·1026					
10. 21:	37. 30	7. 5	·1026					
11. 23	42. 40	7. 21	·1030					
12. 16	26. 0	7. 36	·1028					
12. 28	26. 45	7. 47	·1022					
12. 50	25. 50	8. 23	·1028					
13. 13	23. 50	8. 35	·1024					
13. 58	30. 35	8. 53	·1027					
14. 15	30. 50	9. 7	·1027					
14. 27	32. 30	9. 16	·1031					
15. 1	16. 25	9. 50	·1031					
	***	10. 48	·1020					
15. 16	18. 0	11. 10	·1025					
	***	11. 21	·1037					
15. 32	23. 0	11. 31	·1034					
	***	11. 48	·1043					
15. 47	22. 25	11. 50	·1048					
16. 10	25. 45	12. 11	·1045					
17. 0	39. 40	12. 40	·1015					
	***	12. 54	·1015					
17. 33	39. 0	13. 21	·1024					
	***	13. 36	·1017					
18. 47	41. 5	13. 51	·1020					
18. 52	39. 40	14. 4	·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.
Apr.22		Apr.22						
h m	° ′ ″	h m		h m		h m	°	°
19. 1	21. 40. 55	14. 20	·1060					
19. 8	39. 0	14. 36	·1066					
19. 34	42. 10	14. 48	·1062					
19. 43	41. 5	14. 55	·1050					
	***	15. 9	·1041					
21. 5	42. 50	15. 22	·1051					
21. 45	42. 30	15. 56	·1030					
22. 20	43. 50	16. 10	·1026					
23. 15	47. 0	16. 27	·1035					
23. 59	50. 0	16. 54	·1031					
		17. 5	·1035					
		17. 26	·1034					
		18. 8	·1036					
		18. 37	·1030					
		19. 0	·1032					
		19. 6	·1027					
		19. 28	·1030					
		19. 39	·1022					
		20. 0	·1022					
		20. 15	·1019					
		21. 16	·1018					
		22. 21	·1015					
		23. 0	·1014					
		23. 59	·1007					
Apr.23		Apr.23		Apr.23		Apr.23		
0. 0	21. 50. 0	0. 0	·1007	0. 0	·02607	1. 40	56 ·0	57 ·0
0. 6	49. 0	0. 38	·1010	0. 44	·02590	3. 40	60 ·0	61 ·0
1. 25	50. 0	0. 46	·1010	2. 31	·02372	9. 40	62 ·5	63 ·0
3. 16	48. 0	0. 52	·1012	4. 24	·01983	21. 40	54 ·5	56 ·0
5. 0	46. 0	2. 20	·1008	5. 20	·02016			
6. 50	45. 45	3. 6	·1009	7. 25	·01990			
7. 27	43. 30	3. 15	·1008	8. 17	·02018			
7. 40	40. 40	3. 30	·1010	11. 18	·02010			
8. 31	44. 0	3. 38	·1007	14. 15	·02148			
8. 51	41. 40	4. 15	·1008	17. 4	·02429			
9. 49	44. 30	4. 21	·1005	19. 13	·02650			
10. 14	43. 10	4. 30	·1009	20. 30	·02708			
11. 19	44. 30	4. 53	·1007	23. 28	·02696			
14. 31:	44. 5	5. 6	·1008					
14. 41	44. 30	5. 15	·1006					
15. 24	44. 40	6. 15	·1007					
16. 14	44. 0	6. 40	·1014					
16. 44	44. 30	6. 55	·1009					
17. 9	44. 10	7. 7	·1005					
17. 46	44. 35	7. 12	·1008					
19. 0	45. 20	7. 26	·1006					
20. 8	43. 10	7. 50	·1014					
20. 27	42. 0	8. 27	·1013					
21. 12	41. 30	8. 35	·1011					
23. 14	45. 20	9. 0	·1016					
23. 25	46. 30	9. 15	·1013					
23. 59	47. 55	9. 45	·1014					
		9. 51	·1017					
		10. 30	·1016					
		10. 40	·1018					
		11. 5	·1017					
		12. 0	·1019					

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	° ′ ″	Apr.23 h m		h m		h m	°	°
		12. 9	·1018					
		13. 5	·1020					
		14. 41	·1021					
		14. 50	·1022					
		15. 0	·1022					
		15. 20	·1023					
		15. 23	·1025					
		16. 2	·1027					
		18. 29	·1030					
		18. 37	·1025					
		18. 46	·1027					
		18. 54	·1024					
		19. 34:	·1031					
		21. 27	·1022					
		22. 6	·1020					
		23. 5	·1010					
		23. 38	·1012					
		23. 59	·1013					
Apr.24		Apr.24		Apr.24		Apr.24		
0. 0	21. 47. 55	0. 0	·1013	0. 0	·02678	1. 40	57 ·3	57 ·6
0. 33	48. 20	1. 20	·1012	0. 30	·02683	3. 40	61 ·3	62 ·0
1. 45	48. 30	2. 30	·1007	1. 15	·02660	9. 40	64 ·5	65 ·0
2. 27	47. 30	2. 54	·1007	2. 32	·02559	21. 40	55 ·1	56 ·3
3. 17	46. 0	3. 27	·1021	3. 12	·02480			
4. 25	45. 20	4. 54	·1023	5. 39	{·02012			
5. 17	43. 55	5. 21	·1024		{·02037			
8. 13	42. 45	6. 7	·1027	7. 45	·01970			
8. 33	43. 10	7. 27	·1024	11. 22	·02097			
8. 58	42. 15	7. 46	·1027	14. 4	·02347			
9. 16	42. 45	8. 0	·1025	17. 17	{·02781			
9. 31	42. 5	8. 23	·1028		{·02720			
10. 32	43. 45	8. 40	·1024	22. 22	·02730			
10. 57	43. 35	9. 52	·1027	23. 36	·02632			
11. 25	44. 0	10. 0	·1029					
12. 31	43. 50	10. 7	·1028					
13. 18	44. 25	10. 30	·1033					
14. 25	43. 50	11. 30	·1034					
15. 45	43. 45	13. 0	·1036					
16. 16	43. 0	14. 33	·1040					
17. 15	43. 5	14. 45	·1038					
17. 43	42. 20	15. 8	·1041					
19. 43	41. 5	15. 45	·1040					
20. 30	41. 20	16. 30	·1043					
21. 0	40. 30	18. 18	·1043					
21. 40	41. 0	18. 50	·1045					
22. 1	40. 30	20. 0:	·1047					
23. 40	44. 55	21. 25	·1042					
		23. 35	·1024					
		23. 59	·1025					
Apr.25		Apr.25		Apr.25		Apr.25		
	(†)	0. 0	·1025	0. 0	·02587	1. 40	61 ·0	62 ·5
2. 45	21. 46. 30	0. 7	·1023	1. 0	·02450	3. 40	65 ·0	66 ·0
3. 19	46. 30	0. 37	·1020	2. 58	{·02048	9. 40	66 ·0	68 ·0
3. 30	46. 40 ***	1. 15	·1019 ***		{·02093	21. 40	57 ·4	59 ·0
				4. 48	·02017			
6. 43	43. 30 ***	1. 52	·1016 ***	6. 58	·01950			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.25 h m	° ′ ″	Apr.25 h m		Apr.25 h m		h m	°	°
9. 40	21. 42. 40 ***	2. 45	·1018 ***	8. 30	·01958			
				11. 22	·02076			
11. 10	44. 20 ***	3. 22	·1012 ***	14. 21	·02283			
				17. 4	·02558			
12. 20	42. 20 ***	3. 45	·1012	18. 10	{·02737			
		4. 22	·1020		{·02646			
13. 15	42. 40 ***	6. 15	·1019	23. 36	·02671			
		6. 52	·1021					
14. 25	41. 30 ***	7. 15	·1023					
		8. 4	·1025					
15. 21	42. 25	8. 32	·1024					
	(†)	9. 20	·1028					
17. 46	42. 40 ***	10. 15	·1026					
		10. 58	·1029					
20. 17	42. 0 ***	11. 34	·1031					
		12. 23	·1034					
21. 28	40. 40 ***	12. 37	·1036					
		12. 52	·1035					
22. 1	41. 20 ***	15. 0	·1042					
		16. 15	·1047					
22. 15	42. 0 ***	18. 53:	·1052					
		20. 33	·1050					
23. 10	42. 45 ***	21. 8	·1045					
		22. 50	·1038					
23. 59	44. 30	23. 12	·1035					
Apr26		Apr.26		Apr.26		Apr.26		
0. 0	21. 44. 35	0. 15	·1030	0. 0	·02643	1. 40	59 ·0	60 ·0
1. 1	45. 55	1. 10	·1029	2. 27	·02610	3. 40	62 ·6	63 ·2
1. 40	45. 20	2. 0	·1024	3. 0	·02529	9. 40	66 ·0	66 ·0
2. 25	46. 0	3. 51	·1025	6. 3	·02013	23. 15	57 ·0	58·
3. 55	44. 50	3. 55	·1020	7. 8	·01908			
4. 17	45. 5	4. 8	·1024	7. 58	·01876			
4. 29	44. 55	5. 7	·1032	14. 2	·02033			
5. 13	45. 10	5. 16	·1038	16. 10	·02229			
5. 24	44. 30	5. 45	·1036	19. 46	{·02691			
7. 16	44. 0	6. 4	·1040		{·02658			
7. 50	43. 30	7. 45	·1038	22. 4	·02663			
8. 7	43. 40	9. 0	·1036	23. 17	·02640			
8. 18:	43. 0	9. 55	·1038					
9. 30	43. 20	10. 22	·1036					
10. 23	42. 30	10. 36	·1037					
10. 41	43. 5	12. 26	·1038					
11. 40	42. 15	12. 37	·1036					
11. 47	42. 40	13. 0	·1040					
12. 40	43. 10	13. 44	·1040					
12. 47	42. 50	14. 3	·1038					
13. 16	43. 5	14. 21	·1043					
14. 13	42. 10	15. 30	·1045					
14. 18	42. 45	15. 58	·1041					
14. 47	41. 40	17. 8	·1043					
15. 18	42. 40 ***	18. 22	·1048					
		19. 50	·1048					
15. 43	42. 30 ***	21. 47	·1038					
		22. 20	·1036					
16. 10	43. 35 ***	22. 30	·1034					
		23. 9	·1033					

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.26		Apr.26						
h m	° ′ ″	h m		h m		h m	°	°
16. 45	21. 42. 40	23. 18	·1029					
	***							
19. 30	40. 0							
20. 45	40. 30							
21. 48	41. 30							
23. 59	46. 25							
Apr.27		Apr.27		Apr.27		Apr.27		
0. 0	21. 46. 35	0. 6	·1029	0. 0	·02597	9. 25	54 ·5	55 ·0
	***	0. 13	·1031	2. 6	·02604	21. 40	49 ·0	51 ·0
1. 45	47. 40	0. 18	·1031	3. 49	·02638			
3. 14	47. 15	0. 25	·1033	9. 0	·02650			
	***	0. 35	·1030	16. 35	·02578			
5. 50	43. 10	1. 40	·1038	19. 6	·02546			
	***	1. 49	·1037	20. 6	·02560			
8. 22	43. 30	2. 2	·1042	23. 59	·02459			
	***	2. 22	·1043					
9. 7	44. 30	3. 9	·1048					
	***	3. 45	·1051					
11. 20	43. 40	4. 7	·1054					
	***	4. 21	·1053					
12. 45	42. 35	4. 30	·1054					
	***	4. 49	·1052					
13. 15	42. 55	4. 52	·1053					
	***	5. 4	·1053					
14. 0	42. 25	5. 14	·1055					
	***	6. 0	·1055					
16. 41	42. 50	6. 20	·1056					
	***	6. 28	·1055					
18. 35	42. 10	6. 37	·1056					
	***	7. 0	·1058					
20. 45	43. 15	7. 37	·1061					
20. 55	43. 0	9. 50	·1060					
21. 15	44. 0	13. 28	·1067					
22. 5	42. 55	13. 41	·1064					
22. 53	45. 0	13. 56	·1067					
23. 14	45. 15	15. 22	·1066					
23. 30	46. 20	15. 30	·1065					
		15. 50	·1066					
		17. 7	·1065					
		17. 53	·1066					
		18. 54	·1065					
		18. 58	·1066					
		19. 5	·1065					
		19. 15	·1066					
		19. 20	·1066					
		19. 30	·1068					
		20. 37	·1065					
		21. 22	·1060					
		22. 14	·1052					
		22. 42	·1046					
		23. 3	·1046					
		23. 15	·1045					
		23. 59	·1044					
Apr.28		Apr.28		Apr.28		Apr.28		
0. 30	21. 46. 0	0. 0	·1044	0. 38	·02412	1. 40	54 ·0	55 ·0
0. 57	47. 0	1. 7	·1042	2. 47	·02110	3. 40	56 ·0	57 ·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.28		Apr.28		Apr.28		Apr.28		
h m	° ′ ″	h m		h m		h m	°	°
1. 20	21. 46. 50	1. 22	·1039			9. 40	57 ·6	58 ·8
2. 13	47. 35	1. 57	·1041	4. 30	·01736	21. 40	50 ·0	51 ·0
3. 5	46. 30	2. 8	·1036		·01776			
4. 25	45. 45	2. 46	·1038	7. 54	·01765			
4. 41	46. 0	3. 7	·1037	8. 46	·01782			
4. 55	45. 50	3. 58	·1039	10. 43	·01770			
5. 40	46. 0	4. 33	·1039	14. 12	·01958			
5. 46	45. 45	4. 47	·1044	19. 29	·02570			
6. 17	46. 0	5. 4	·1037		·02506			
6. 45	47. 20	5. 18	·1045	21. 8	·02524			
7. 14	46. 0	5. 30	·1042	22. 10	·02510			
7. 31	45. 55	5. 37	·1044	23. 51	·02540			
7. 43	45. 0	5. 47	·1040					
7. 47	45. 0	5. 52	·1042					
8. 38	42. 30	6. 2	·1047					
8. 48	43. 30	6. 22	·1047					
8. 57	42. 55	6. 37	·1038					
9. 9	44. 30	6. 43	·1029					
9. 25	41. 30	7. 0	·1037					
10. 0	41. 0	7. 52	·1033					
11. 49	43. 35	8. 18	·1038					
12. 0	43. 20	8. 39	·1037					
12. 10	43. 30	8. 47	·1046					
12. 32	42. 30	8. 53	·1043					
14. 54	41. 30	9. 20	·1043					
	***	9. 31	·1039					
16. 24	42. 15	10. 45	·1040					
	***	11. 8	·1039					
18. 2	39. 50	11. 15	·1044					
	***	11. 30	·1043					
19. 43	41. 0	11. 37	·1045					
19. 54	40. 15	11. 46	·1044					
20. 25	40. 0	11. 52	·1046					
20. 33	40. 50	12. 15	·1044					
20. 54	40. 20	13. 0	·1046					
21. 17	41. 10	13. 18	·1047					
21. 49	41. 10	13. 24	·1046					
22. 0	40. 40	13. 58	·1049					
23. 14	42. 30	14. 7	·1048					
23. 20	43. 30	14. 22	·1051					
23. 30	43. 20	14. 27	·1049					
23. 59	44. 50	16. 35	·1051					
		18. 15	·1051					
		18. 40	·1050					
		18. 52	·1047					
		19. 22	·1052					
		21. 27	·1049					
		22. 19	·1043					
		22. 42	·1038					
		23. 0	·1037					
		23. 7	·1035					
		23. 12	·1035					
		23. 24	·1031					
		23. 52	·1031					
Apr.29		Apr.29		Apr.29		Apr.29		
0. 0	21. 44. 45	0. 37	·1035	0. 7	·02520	1. 40	52 ·1	53 ·4
0. 59	47. 15	1. 0	·1035	1. 34	·02492	3. 40	53 ·7	54 ·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.
Apr.29	° ′ ″	Apr.29		Apr.29		Apr.29	°	°
h m		h m		h m		h m		
1. 25	21. 46. 20	1. 7	·1037	4. 2	·02326	9. 40	55 ·0	56 ·0
2. 51	47. 0	1. 20	·1034	6. 53	·02053	21. 40	50 ·9	52 ·0
3. 10	46. 55	2. 45	·1038	9. 40	·01920			
3. 17	47. 25	2. 52	·1043	11. 27	·01885			
3. 34	46. 30	3. 13	·1041	13. 58	·01930			
	***	3. 21	·1045	16. 33	·02090			
4. 0	46. 15	3. 45	·1032	21. 52	·02554			
4. 31	45. 50	4. 7	·1037	22. 13	·02510			
5. 9	46. 15	4. 13	·1036	22. 46	{·02530			
5. 17	46. 5	5. 6	·1046		{·02307			
5. 39	45. 55	5. 17	·1051	23. 52	·02330			
6. 22	45. 45	5. 21	·1049					
6. 32	46. 15	5. 32	·1051					
7. 2	46. 5	5. 41	·1046					
7. 23	45. 0	6. 0	·1057					
7. 50	44. 30	6. 7	·1057					
7. 59	45. 5		***					
8. 18	44. 15	7. 15	·1053					
8. 43	44. 50	7. 37	·1058					
8. 55	43. 30	8. 5	·1055					
9. 13	44. 50	8. 27	·1057					
9. 38	43. 20	8. 39	·1054					
10. 17	42. 35	8. 50	·1062					
	***	9. 12	·1054					
11. 10	44. 0	9. 31	·1056					
11. 17	42. 45	9. 41	·1061					
	***	9. 56	·1059					
11. 40	42. 20	10. 3	·1054					
12. 5	40. 20	10. 10	·1056					
12. 25	37. 35	10. 30	·1055					
	***	11. 0	·1062					
12. 58	39. 55	11. 7	·1065					
13. 45	40. 30	11. 12	·1062					
14. 0	42. 0	11. 16	·1063					
14. 15	40. 15	11. 25	·1058					
	***	11. 35	·1061					
14. 31	41. 15	12. 5	·1062					
	***	12. 30	·1066					
15. 45	41. 25	12. 37	·1057					
	***	12. 45	·1060					
16. 40	40. 15	13. 8	·1060					
16. 48	38. 40	13. 39	·1053					
	***	14. 7	·1057					
17. 2	39. 30	14. 16	·1054					
	***	15. 22	·1058					
17. 33	38. 15	15. 33	·1057					
	***	15. 57	·1060					
18. 20	40. 30	16. 17	·1057					
18. 32	38. 0	16. 33	·1058					
18. 35	42. 30	17. 16	·1053					
	***	17. 40	·1053					
19. 0	42. 20	17. 56	·1050					
	***	18. 15	·1043					
19. 35	43. 50	18. 39	·1047					
20. 8	43. 5	18. 50	·1046					
20. 16	41. 0	19. 35	·1053					
20. 28	43. 30	19. 39	·1052					
21. 0	45. 55	20. 5	·1054					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.29	° ′ ″	Apr.29		h m		h m	°	°
h m		h m						
21. 25	21. 50. 0	20. 40	·1033					
21. 30	49. 30	21. 28	·1034					
21. 36	50. 15	21. 33	·1038					
21. 55	47. 20	21. 51	·1036					
22. 43	47. 20	22. 0	·1041					
22. 54	46. 20		***					
23. 14	46. 20	22. 30	·1035					
23. 47	47. 40		***					
		22. 55	·1030					
			***					
		23. 5	·1037					
			***					
		23. 59	·1036					
Apr.30		Apr.30		Apr.30		Apr.30		
0. 28	21. 50. 0		(†)	0. 9	·02320	1. 40	53 ·0	54 ·0
0. 48	50. 35	1. 30	·1043	1. 53	·02290	3. 40	55 ·0	56 ·0
1. 38	48. 50	2. 15	·1040	3. 13	·02213	9. 40	56 ·0	57 ·0
1. 45	49. 30	2. 21	·1045	5. 29	·01829	21. 40	49 ·0	50 ·0
1. 56	47. 30	2. 40	·1038	6. 17	·01759			
2. 5	47. 5	2. 55	·1040	7. 46	·01843			
2. 20	48. 5		***	9. 3	·01722			
2. 45	47. 0	3. 15	·1025	14. 19	·01973			
2. 55	47. 20	3. 24	·1022	17. 20	·02358			
3. 2	46. 10	3. 35	·1032	18. 8	{·02433			
	***	3. 37	·1027		{·02361			
3. 13	47. 0	3. 39	·1030	19. 52	·02380			
3. 16	45. 55	3. 42	·1027	23. 59	·02263			
3. 37	46. 30	3. 45	·1035					
3. 44	45. 40	3. 50	·1028					
4. 23	45. 10	4. 0	·1028					
5. 13	45. 0	4. 6	·1031					
7. 4	44. 0	4. 9	·1025					
7. 33	42. 45	4. 12	·1035					
7. 40	43. 40	4. 22	·1034					
7. 53	42. 45	4. 40	·1039					
8. 0	43. 10	5. 25	·1042					
8. 15	42. 30	5. 36	·1045					
8. 45	44. 55	5. 50	·1044					
9. 3	44. 45	6. 6	·1051					
	***	6. 30	·1048					
10. 28	41. 50	6. 47	·1050					
10. 43	42. 15	6. 55	·1047					
11. 12	44. 0	7. 12	·1052					
	***	7. 50	·1038					
11. 28	44. 0	7. 58	·1043					
11. 34	42. 10	8. 15	·1041					
	***	9. 25	·1045					
12. 25	40. 25	9. 32	·1047					
	***	9. 50	·1046					
12. 51	46. 0	10. 5	·1048					
	***	11. 15	·1048					
13. 26	43. 30	11. 25	·1052					
	***	11. 31	·1051					
13. 30	44. 30	11. 37	·1056					
	***	12. 34	·1055					
14. 16	42. 0	12. 53	·1048					
	***	13. 30	·1047					

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. 30		Apr. 30						
h m	° ′ ″	h m		h m		h m	°	°
15. 15	21. 42. 40	14. 7	·1038					
	***	14. 29	·1056					
21. 27	41. 40	14. 40	·1050					
	***	15. 30	·1050					
22. 47	45. 15	18. 21	·1056					
	***	20. 22	·1055					
23. 59	48. 0	21. 30	·1051					
		22. 21	·1043					
		22. 34	·1038					
		22. 53	·1038					
		23. 16	·1035					
		23. 59	·1041					
May 1		May 1		May 1		May 1		
0. 0	21. 48. 0		(†)	0. 20	·02249	1. 40	51 ·4	51 ·8
1. 49	50. 25	2. 51	·1027	0. 53	·02250	3. 40	54 ·0	54 ·0
3. 12:	46. 50	3. 3	·1027	2. 12	·02210	9. 40	54 ·5	55 ·5
5. 17	45. 15	3. 51	·1041	5. 54	·01937	21. 40	49 ·1	49 ·6
7. 30	44. 0	4. 17	·1044	6. 47	·01877			
8. 46	43. 45	4. 20	·1038	8. 6	·01836			
	***	5. 4	·1040	11. 48	·1902			
11. 43	45. 5	5. 21	·1043	14. 53	·02140			
12. 12	44. 30	5. 51	·1040	18. 13	·02440			
13. 12	45. 50	6. 45	·1050	18. 29	·02408			
13. 35	45. 0	7. 5	·1050	21. 44	·02447			
14. 15	45. 15	7. 20	·1047	23. 30	·02408			
14. 36	47. 15	7. 25	·1048	23. 59	·02376			
16. 20	43. 30	7. 36	·1045					
16. 44	40. 30	7. 58	·1047					
17. 13	41. 5	8. 30	·1045					
17. 29	43. 15	9. 40	·1045					
18. 47	43. 0	10. 30	·1046					
19. 59	42. 20	11. 8	·1047					
20. 16	41. 45	11. 16	·1049					
20. 45	41. 15	11. 30	·1048					
21. 17	41. 55	13. 6	·1051					
21. 25	41. 25	13. 24	·1050					
23. 59	46. 0	13. 40	·1052					
		14. 7	·1050					
		14. 21	·1051					
		14. 32	·1048					
		16. 15:	·1057					
		16. 40	·1053					
		17. 3	·1047					
		17. 39	·1049					
		19. 32	·1051					
		20. 37	·1045					
		22. 0	·1037					
		22. 34	·1037					
		23. 59	·1027					
May 2		May 2		May 2		May 2		
0. 0	21. 46. 5	0. 0	·1027	0. 42	·02326	1. 40	54 ·0	54 ·0
0. 40	48. 20	1. 15	·1032	3. 21	·01960	3. 40	56 ·0	56 ·0
1. 38	48. 15	1. 30	·1029	4. 12	·01803	9. 40	57 ·0	57 ·0
3. 55	44. 15	2. 6	·1031	4. 30	{·01768	21. 40	49 ·5	50 ·3
4. 54	43. 5	2. 17	·1033		{·01805			
5. 47	42. 15	2. 22	·1031	7. 7	·01765			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 2		May 2		May 2				
h m	° ′ ″	h m		h m		h m	°	°
7. 46	21. 43. 20	2. 40	·1032	8. 12	·01738			
8. 24	42. 10	2. 50	·1029	9. 12	·01745			
8. 44	40. 40	3. 9	·1031	10. 28	·01730			
9. 15	41. 15	3. 33	·1028	12. 19	·01792			
9. 18	40. 45	3. 45	·1032	13. 44	·01840			
9. 55	43. 5	4. 22	·1033	15. 52	·02006			
10. 54	44. 40	4. 36	·1035	20. 14	·02519			
11. 1	44. 0	5. 31	·1034	20. 30	{·02534			
12. 46	44. 20	5. 40	·1036		{·02467			
13. 25	44. 55	6. 2	·1035	23. 23	·02470			
13. 40	43. 55	6. 18	·1033	23. 59	·02486			
14. 15	44. 50	6. 45	·1035					
15. 0	44. 0	7. 7	·1033					
15. 23	44. 30	7. 50	·1037					
	***	8. 40	·1033					
15. 44	46. 40	9. 3	·1040					
16. 45	44. 30	10. 28	·1036					
17. 41	44. 35	10. 47	·1041					
18. 0	43. 25	11. 15	·1038					
20. 31	41. 30	11. 55	·1038					
21. 35	42. 15	12. 6	·1039					
22. 57	44. 45	13. 9	·1043					
23. 18	46. 35	13. 20	·1047					
23. 59	47. 0	13. 45	·1046					
		14. 6	·1045					
		14. 48	·1046					
		15. 30	·1043					
		16. 22	·1046					
		17. 15	·1042					
		17. 40	·1047					
		18. 30	·1047					
		19. 13	·1049					
		19. 20	·1047					
		19. 25	·1048					
		21. 6	·1040					
		22. 15	·1035					
		22. 50	·1030					
		23. 42	·1032					
		23. 50	·1030					
		23. 59	·1031					
May 3		May 3		May 3		May 3		
0. 0	21. 47. 5	0. 0	·1031	0. 55	·02485	1. 40	51 ·8	52 ·1
0. 45	47. 50	0. 45	·1033	2. 7	·02473	3. 40	54 ·7	55 ·0
1. 5	48. 15	1. 50	·1040	4. 18	·02220	9. 40	57 ·0	58 ·0
2. 17	47. 10	2. 33	·1039	7. 37	·01765	23. 20	50 ·0	50 ·3
4. 17	44. 0	3. 0	·1044	10. 24	·01732			
5. 0	44. 5	3. 44	·1047	11. 23	·01740			
5. 41	43. 40	4. 0	·1045	16. 11	·02044			
6. 25	42. 15	4. 26	·1048	18. 18	·02253			
6. 36	42. 35	4. 51	·1039	21. 45	·02510			
7. 27	43. 0	5. 49	·1044	21. 50	·02489			
7. 50	42. 50	6. 20	·1037	23. 30	·02510			
8. 10	43. 10	6. 45	·1039					
10. 30	43. 10	7. 20	·1037					
10. 51	42. 45	7. 33	·1039					
11. 54	43. 15	8. 30:	·1035					
14. 6	43. 55	10. 26	·1043					
	***							

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 3		May 3						
h m	° ′ ″	h m		h m		h m	°	°
15. 47	21. 43. 10	11. 50	·1044					
16. 25	42. 55	12. 20	·1043					
17. 0	43. 10	12. 32	·1046					
19. 17	41. 10	12. 36	·1045					
19. 33	40. 30	14. 45	·1049					
20. 14	40. 55	15. 22	·1047					
20. 30	40. 30	15. 58	·1050					
20. 43	41. 10	16. 30	·1048					
21. 15	40. 50	17. 35	·1049					
21. 32	40. 15	18. 15	·1047					
22. 17	41. 40	19. 22	·1049					
23. 59	48. 15	20. 5	·1043					
		22. 0	·1033					
		22. 51	·1026					
		23. 28	·1029					
		23. 59	·1035					
May 4		May 4		May 4		May 4		
0. 0	21. 48. 15	0. 0	·1035	0. 0	·02495	7. 54	56 ·0	56 ·0
0. 30	50. 0	0. 54	·1038	1. 19	·02490	21. 40	48 ·2	49 ·1
	***	1. 2	·1037	7. 9	·02120			
1. 57	50. 35	1. 7	·1040	7. 52	·02030			
2. 18	48. 50		***	8. 41	·01963			
2. 43	48. 50	1. 30	·1037	10. 14	·01872			
2. 58	48. 0	1. 36	·1033	11. 15	·01858			
3. 5	48. 5	1. 40	·1039	13. 32	·01957			
3. 36	47. 20	1. 45	·1037	15. 17	·02133			
4. 30	46. 50	2. 28	·1045	18. 4	·02514			
5. 8	45. 45	2. 41	·1044		·02486			
6. 59	44. 20	3. 0	·1045	20. 40	·02480			
7. 14	43. 55	3. 7	·1043	20. 44	·02440			
7. 25	44. 10	3. 47	·1045	23. 34	·02452			
7. 41	43. 0	4. 6	·1042					
8. 3	39. 30	4. 33	·1043					
8. 50	43. 0	4. 45	·1038					
9. 44	44. 0	5. 9	·1047					
10. 40	44. 30	5. 21	·1042					
14. 15	43. 50	5. 32	·1040					
15. 5	44. 20	5. 55	·1043					
15. 44	43. 45	6. 0	·1042					
16. 37	44. 30	6. 12	·1046					
17. 31	43. 5	6. 20	·1044					
17. 36	42. 30	6. 40	·1045					
17. 44	42. 55	7. 9	·1040					
17. 55	41. 50	7. 29	·1042					
18. 6	43. 0	7. 52	·1031					
18. 30	42. 50	8. 12	·1037					
19. 21	42. 45	8. 35	·1042					
19. 30	41. 30	8. 58	·1038					
19. 40	42. 0	9. 30	·1039					
19. 45	41. 30	9. 39	·1041					
19. 58	42. 15	11. 15	·1041					
20. 25	42. 0	11. 37	·1045					
20. 30	42. 55	11. 50	·1043					
20. 43	41. 30	12. 18	·1047					
20. 55	42. 0	12. 32	·1045					
	***	13. 3	·1048					
22. 18	42. 5	13. 20	·1052					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 4		May 4						
h m	° ′ ″	h m		h m		h m	°	°
22. 47	21. 43. 5	14. 40	·1051					
23. 5	44. 10	15. 10	·1053					
23. 17	44. 40	15. 45	·1051					
23. 30	45. 40	15. 55	·1050					
23. 41	45. 55	16. 45	·1053					
23. 59	47. 0	18. 19	·1056					
		19. 30	·1058					
		19. 50	·1053					
		20. 37	·1050					
		21. 15	·1046					
		21. 55	·1045					
			***					
		22. 45	·1033					
		23. 45	·1036					
May 5		May 5		May 5		May 5		
0. 0	21. 47. 10		(†)	1. 8	·02351	1. 40	52 ·8	53 ·0
0. 17	47. 30	1. 52	·1032	2. 20	·02196	3. 40	56 ·0	56 ·0
0. 32	48. 15	3. 7	·1036	4. 39	·01758	9. 40	58 ·2	58 ·0
0. 53	48. 20	3. 35	·1031	5. 43	·01791	21. 40	51 ·0	52 ·0
1. 0	50. 50	3. 50	·1035	7. 9	·01746			
1. 36	50. 50	4. 2	·1032	12. 5	·01743			
4. 0	47. 30	4. 12	·1033	15. 2	·01922			
4. 25	46. 50	4. 20	·1035	21. 5	·02502			
5. 4	46. 15	4. 30	·1035	22. 16	·02538			
5. 41	45. 10	4. 52	·1037	22. 26	·02508			
7. 32	42. 0	5. 30	·1035	23. 21	·02530			
8. 15	39. 40	5. 50	·1036	23. 59	·02508			
8. 44	42. 0	6. 2	·1034					
10. 0	43. 50	6. 12	·1037					
10. 49	44. 30	6. 50	·1037					
12. 13	43. 50	7. 27	·1041					
12. 37	44. 20	7. 33	·1039					
13. 14	44. 10	7. 35	·1039					
13. 30	43. 35	8. 25	·1034					
14. 1	44. 0	8. 40	·1030					
14. 31	43. 15	9. 15	·1037					
15. 0	43. 35	10. 0	·1039					
15. 19	44. 30	10. 15	·1041					
15. 57	43. 50	10. 38	·1042					
17. 29	42. 15	11. 5	·1045					
17. 36	42. 45	11. 25	·1046					
17. 47	42. 5	11. 36	·1048					
17. 57	42. 20	11. 57	·1046					
18. 14	41. 15	12. 51	·1045					
18. 55	40. 40	13. 22	·1040					
19. 16	38. 50	14. 52	·1047					
20. 14	39. 30	15. 15	·1046					
20. 46	41. 45	15. 33	·1047					
21. 32	42. 40	15. 45	·1046					
22. 24	47. 0	16. 18	·1048					
22. 47	47. 30	17. 15	·1051					
22. 57	46. 30	17. 51	·1053					
23. 2	46. 40	18. 37	·1052					
	(†)	18. 45	·1050					
		19. 44	·1051					
		20. 0	·1044					
		20. 39	·1045					

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 5 h m		h m		h m	°	°
		21. 15	·1040					
		21. 45	·1033					
		22. 15	·1036					
		22. 30	·1032					
		22. 54	·1031					
			(†)					
May 6		May 6		May 6		May 6		
	(†)	1. 40	·1038*		(†)	1. 40	56 ·0	55 ·0
2. 20	21. 48. 20	3. 40	·1038*	3. 5	·02221	3. 40	57 ·3	56 ·8
3. 25	47. 5	9. 40	·1049*	4. 8	·02138	9. 40	58 ·0	56 ·8
3. 55	46. 10	21. 40	·1030*	5. 44	·01903	21. 40	51 ·0	52 ·1
4. 8	46. 10			6. 24	·01828			
5. 34	44. 20				(†)			
	(†)			9. 16	·01686			
8. 36	43. 30			10. 37	·01832			
10. 30	43. 40			13. 47	·01984			
11. 32	42. 30			15. 15	·02102			
12. 1	44. 15 ***			20. 13	·02552 ·02504			
12. 20	42. 25 ***			23. 45	·02498			
12. 56	43. 25 ***							
13. 26	42. 40 ***							
14. 31	43. 10 ***							
15. 21	42. 35 ***							
15. 54	43. 15 ***							
16. 44	42. 10 ***							
17. 25	42. 30							
19. 20	40. 15							
22. 10	42. 50							
22. 57	45. 15							
	(†)							
May 7		May 7		May 7		May 7		
1. 40	21. 48. 30*	1. 40	·1048*	0. 47	·02510	1. 40	52 ·0	53 ·0
3. 40	48. 29*	3. 40	·1044*	3. 29	·02498	3. 40	54 ·0	55 ·0
9. 40	44. 13*	9. 40	·1055*	5. 45	·02418	9. 40	53 ·0	54 ·0
21. 40	38. 58*	21. 40	·1051*	6. 9	·02410	21. 40	50 ·0	51 ·0
				6. 52	·02382			
				8. 15	·02398			
				10. 34	·02490			
				11. 46	·02490			
				17. 23	·02518			
				22. 11	·02458			
				23. 50	·02412			
May 8		May 8		May 8		May 8		
0. 29	21. 47. 15	0. 25	·1054	0. 40	·02410	1. 40	52 ·1	52 ·4
1. 6	48. 20	1. 0	·1057	3. 15	·02278	3. 40	54 ·7	55 ·0
1. 30	48 30	1. 13	·1065	6. 33	·01910	9. 40	56 ·0	56 ·5
1. 47	47. 55	1. 29	·1066	7. 39	·01844	21. 40	51 ·7	52 ·8

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 8 h m	° ′ ″	May 8 h m		May 8 h m		h m	°	°
2. 10	21. 48. 55	2. 18	·1066	10. 49	·01770			
	***	2. 36	·1064	12. 0	·01808			
2. 55	47. 50	4. 15	·1066	15. 0	·01929			
	***	5. 40	·1068	16. 13	·02018			
3. 44	48. 30	6. 0	·1067	20. 45	·02273			
3. 54	48. 0	7. 15	·1070	23. 12	·02271			
4. 13	48. 30	9. 0	·1064					
	***	9. 44	·1065					
6. 10	46. 25	10. 19	·1067					
8. 14	44. 10	10. 25	·1065					
10. 20	44. 30	10. 36	·1067					
13. 1	43. 50	10. 42	·1066					
13. 22	44. 15	10. 50	·1067					
14. 12	43. 15	11. 15	·1065					
15. 10	44. 5	12. 11	·1066					
16. 28	43. 50	12. 18	·1066					
17. 32	42. 35	12. 24	·1063					
19. 12	41. 30	12. 36	·1055					
	***	13. 4	·1058					
19. 30	41. 45	13. 17	·1052					
19. 34	40. 35	13. 28	·1054					
	***	13. 40	·1049					
19. 43	41. 5	14. 30	·1054					
20. 43	41. 0	14. 52	·1051					
21. 12	42. 15	15. 7	·1060					
	***	15. 12	·1054					
21. 32	41. 50	15. 17	·1059					
21. 37	42. 40	15. 20	·1055					
21. 42	42. 15	15. 23	·1059					
21. 45	43. 10	15. 30	·1058					
21. 49	42. 35	15. 36	·1062					
	***	15. 39	·1058					
23. 0	42. 30	16. 7	·1055					
	***	16. 13	·1063					
23. 59	46. 30	16. 36	·1051					
		16. 43	·1059					
		17. 0	·1062					
		17. 15	·1060					
		17. 30	·1061					
		17. 33	·1056					
		17. 42	·1058					
		17. 52	·1069					
		18. 4	·1063					
		18. 15	·1060					
		19. 12	·1065					
		19. 19	·1070					
		19. 50	·1066					
		20. 15	·1067					
		21. 52	·1058					
		23. 7	·1049					
		23. 59	·1044					
May 9		May 9		ay 9		May 9		
0. 0	21. 46. 45	0. 0	·1044	0. 0	·02256	1. 40	54 ·2	55 ·0
0. 24	48. 5	0. 50	·1047	1. 28	·02210	3. 40	57 ·0	58 ·3
0. 51	49. 30	1. 39	·1045	3. 40	·01998	9. 40	58 ·0	57 ·5
1. 27	49. 40	1. 57	·1056	6. 35	·01738	21. 40	54 ·0	55 ·0
1. 43	50. 50	2. 45	·1052	6. 43	·01750			

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 9		May 9		May 9		h m	°	°
h m	° ′ ″	h m		h m				
2. 15	21. 50. 55	3. 0	·1057	12. 7	·01750			
2. 36	50. 0	3. 28	·1055	14. 0	·01837			
2. 45	50. 15	3. 50	·1054	17. 45	·02122			
2. 55	49. 45	4. 11	·1059	20. 41	·02290			
3. 25	49. 15	4. 21	·1056	21. 0	·02300			
4. 20	48. 5	4. 28	·1056	21. 10	·02278			
5. 10	47. 55	4. 39	·1055	23. 51	·02218			
5. 15	46. 55	4. 46	·1058					
5. 21	47. 15	5. 9	·1057					
6. 0	46. 30	5. 18	·1061					
6. 14	46. 0	5. 22	·1057					
6. 35	46. 0	6. 7	·1058					
7. 36	44. 50	6. 21	·1054					
8. 29	44. 30	6. 42	·1060					
8. 39	45. 0	7. 6	·1058					
8. 46	44. 0	7. 10	·1061					
9. 36	44. 45	8. 13	·1060					
9. 54	43. 45	8. 30	·1057					
10. 2	44. 10	9. 2	·1055					
10. 54	42. 30	9. 40	·1059					
11. 9	44. 10	10. 3	·1057					
11. 32	42. 45	10. 14	·1053					
12. 17	42. 0	12. 0	·1057					
12. 44	42. 20	12. 16	·1059					
13. 18	43. 50	12. 47	·1056					
13. 32	42. 50	13. 15	·1058					
13. 47	42. 30	13. 33	·1062					
14. 25	43. 45	14. 10	·1061					
15. 2	44. 15	14. 22	·1059					
15. 46	44. 30	15. 30	·1059					
16. 5	43. 45	16. 10	·1062					
16. 28	44. 0	17. 52	·1061					
17. 25	43. 10	18. 57	·1058					
17. 32	43. 30	19. 45	·1053					
18. 25	42. 55	20. 15	·1050					
18. 32	43. 15	21. 21	·1050					
18. 42	42. 45	22. 26	·1039					
19. 34	41. 30		***					
20. 24	41. 30	23. 59	·1044					
20. 45	41. 55							
21. 14	41. 45							
21. 45	42. 55							
22. 53	43. 25							
23. 32	45. 15							
23. 44	45. 0							
23. 59	45. 10							
May 10		May 10		May 10		May 10		
0. 0	21. 45. 15	0. 0	·1044	0. 0	·02200	1. 40	57 ·0	58 ·3
0. 20	46. 20	1. 27	·1057	1. 19	·02077	3. 40	62 ·0	63 ·0
1. 31	48. 50	2. 0	·1049	2. 32	·01893	9. 40	67 ·0	68 ·0
2. 3	47. 50	2. 37	·1051	3. 56	·01922	23. 40	59 ·0	60 ·5
2. 25	48. 5		(†)	4. 43	·01990			
3. 30	46. 0	5. 37	·1044	6. 3	·01938			
4. 5	45. 55	6. 50	·1043	7. 43	·01930			
4. 40	46. 30	7. 37	·1045	9. 42	·01890			
5. 0	45. 40	9. 0	·1045	11. 36	·01984			
5. 43	45. 45	9. 52	·1048	13. 55	·02193			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 10		May 10		May 10		h m	°	°
h m	° ′ ″	h m		h m				
5. 47	21. 45. 10	11. 22	·1043	17. 37	·02708			
6. 34	45. 0	12. 34	·1045		·02630			
7. 7	45. 0	13. 4	·1047	19. 43	·02666			
7. 32	43. 45	13. 12	·1045	23. 42	·02614			
7. 46	43. 50	13. 50	·1045					
8. 16	42. 55	14. 45	·1046					
8. 24	43. 10	15. 12	·1046					
9. 5	41. 0	15. 20	·1044					
9. 20	42. 0	16. 6	·1049					
9. 52	40. 30	16. 18	·1047					
10. 23	42. 20	16. 27	·1051					
	***	16. 50	·1046					
12. 10	43. 0	17. 20	·1047					
13. 11	43. 30	17. 38	·1052					
13. 50	43. 0	17. 58	·1049					
14. 21	43. 0	19. 0	·1049					
14. 45	42. 50	19. 22	·1047					
15. 30	44. 50	19. 36	·1044					
15. 43	45. 15	19. 53	·1044					
15. 59	46. 55	20. 30	·1038					
16. 12	46. 55	21. 0	·1045					
16. 41	42. 50	21. 9	·1042					
16. 57	42. 15	21. 21	·1043					
17. 38	42. 15	21. 32	·1038					
18. 12	40. 30	21. 39	·1040					
18. 31	41. 0	21. 52	·1036					
18. 45	41. 40	22. 14	·1039					
19. 2	41. 50	22. 30	·1040					
19. 15	42. 10	22. 42	·1039					
20. 13	41. 20	23. 2	·1041					
20. 38	41. 30	23. 59	·1042					
21. 2	41. 10							
21. 20	42. 5							
21. 54	42. 10							
22. 10	42. 45							
22. 19	42. 30							
22. 45	44. 0							
23. 15	45. 10							
23. 59	47. 10							
May 11		May 11		May 11		May 11		
0. 0	21. 47. 15	0. 0	·1042	0. 0	·02604	9. 25	69 ·5	70 ·5
0. 29	47. 40	0. 20	·1039	0. 20	·02600	21. 40	60 ·0	60 ·0
2. 0	47. 30	0. 40	·1045	1. 48	·02493			
2. 21	46. 50	1. 50	·1049	3. 3	·02278			
3. 54	45. 15	2. 4	·1047	4. 33	·01878			
4. 20	45. 10	2. 13	·1049		·01943			
5. 0	43. 30	3. 0	·1047	6. 55	·01960			
5. 24	43. 35	4. 35	·1050	9. 13	·01898			
7. 30:	43. 5	5. 47	·1048	11. 21	·01960			
8. 48	42. 25	6. 30	·1048	12. 47	·02090			
9. 4	41. 10	7. 13	·1049	14. 22	·02290			
9. 34	40. 5	7. 21	·1047	17. 9	·02738			
9. 48:	42. 15	8. 25	·1046		·02658			
10. 13	41. 50	8. 52	·1049	18. 28	·02694			
11. 2	41. 15	9. 29	·1038	21. 41	·02633			
11. 25	39. 30	10. 24	·1038	23. 57	·02638			
11. 33	39. 55	11. 37	·1037					

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

May 7. The Photographic Registers of the Declination and the Horizontal Force failed.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 11		May 11						
h m	° ′ ″	h m		h m		h m	°	°
11. 49	21. 41. 40	12. 0	·1036					
12. 4	42. 15	12. 52	·1043					
12. 24	41. 45	13. 21	·1043					
12. 40	41. 50	14. 0	·1040					
13. 0	41. 15	15. 25	·1044					
13. 44	40. 55	16. 0	·1046					
14. 19	42. 15	16. 37	·1050					
14. 40	42. 10	18. 33	·1049					
15. 55	43. 50	20. 0	·1047					
16. 18	43. 10	22. 0:	·1049					
17. 48	40. 10	22. 40	·1039					
19. 47	40. 0	23. 59	·1051					
21. 40	41. 50							
22. 12	42. 50							
22. 47	43. 30							
23. 11	44. 55							
23. 59	45. 50							
May 12		May 12		May 12		May 12		
0. 0	21. 45. 50	0. 0	·1052	0. 49	·02613	1. 40	60 ·0	60 ·0
1. 2	47. 55	1. 7	·1047	2. 15	·02650	3. 40	62 ·0	62 ·0
1. 40	47. 5	1. 59	·1039	3. 12	·02610	9. 40	64 ·0	64 ·5
1. 45	47. 20	2. 10	·1038	5. 30	·02348	21. 40	61 ·0	61 ·0
1. 54	46. 30	3. 30	·1046	7. 8	·02205			
2. 15	45. 50	5. 0	·1048	10. 15	·02070			
3. 5	45. 50	5. 12	·1054	11. 57	·02070			
4. 4	45. 0	5. 17	·1049	14. 56	·02210			
7. 12	44. 45	5. 28	·1047	18. 10	·02400			
7. 28	44. 20	5. 41	·1053	18. 22	·02372			
8. 2	43. 15	6. 22	·1054	19. 28	·02430			
8. 43	43. 55	6. 37	·1056	22. 32	·02470			
9. 0	44. 0	6. 46	·1047	23. 17	·02470			
9. 15	43. 35	7. 10	·1047					
9. 30	44. 5	7. 22	·1051					
11. 20	43. 30	7. 33	·1046					
12. 32	44. 15	8. 0	·1049					
14. 49	43. 35	8. 41	·1043					
15. 5	44. 10	9. 7	·1048					
16. 17	43. 35	10. 30	·1047					
16. 52	44. 15	14. 0	·1049					
17. 43	43. 0	16. 7	·1047					
18. 32	41. 55	17. 33	·1048					
18. 45	41. 20	19. 30	·1047					
19. 17	40. 20	21. 25	·1047					
20. 10	40. 40	22. 12	·1048					
21. 15	40. 40	22. 45	·1047					
23. 59	45. 55	23. 59	·1043					
May 13		May 13		May 13		May 13		
0. 0	21. 46. 0	0. 0	·1043	0. 0	·02440	1. 40	62 ·0	62 ·0
0. 40:	47. 10	0. 28	·1046	2. 6	·02440	3. 40	64 ·0	64 ·0
1. 24	47. 15	1. 18	·1045	4. 2	·02334	9. 40	65 ·0	65 ·0
2. 25	46. 30	1. 30	·1043	6. 59	·02059	21. 40	56 ·8	56 ·8
3. 25	45. 20	1. 59	·1045	8. 58	·01928			
3. 33	45. 20	2. 15	·1044	10. 52	·01980			
3. 51	44. 30	2. 37	·1046	16. 16	{·02660			
4. 46	43. 55	3. 3	·1045		{·02618			
6. 16	43. 15	3. 15	·1047	17. 41	·02622			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 13		May 13		May 13				
h m	° ′ ″	h m		h m		h m	°	°
7. 10	21. 44. 15	3. 40	·1045	17. 53	·02592			
8. 41	44. 0	3. 51	·1036	18. 32	·02623			
9. 35	44. 30	4. 10	·1044	22. 18	·02589			
9. 45	43. 55	4. 54	·1047	23. 30	·02570			
10. 56	44. 55		***					
11. 14	44. 30	6. 20	·1050					
11. 48	44. 45	6. 45	·1047					
12. 0	44. 20	7. 7	·1050					
12. 24	44. 45	7. 36	·1049					
12. 47	44. 0	7. 47	·1051					
13. 16	44. 10	8. 23	·1048					
14. 28	43. 0	8. 30	·1049					
14. 38	43. 45	9. 19	·1048					
15. 15	43. 30	9. 26	·1049					
	(†)	9. 40	·1048					
17. 40	41. 50	10. 15	·1051					
17. 55	41. 55	10. 23	·1053					
21. 46	41. 25	10. 29	·1051					
22. 15	42. 30	11. 15	·1053					
22. 36	42. 45	12. 30	·1055					
23. 34	46. 15	12. 52	·1058					
		13. 45	·1055					
		14. 7	·1058					
		14. 15	·1055					
		14. 37	·1057					
		16. 0	·1058					
		17. 5	·1061					
		17. 22	·1063					
		17. 27	·1061					
		17. 37	·1063					
		19. 5	·1063					
		19. 12	·1059					
		19. 33	·1059					
		20. 0	·1056					
		20. 40	·1057					
		22. 0	·1053					
		23. 6	·1047					
		23. 59	·1045					
May 14		May 14		May 14		May 14		
1. 40	21. 48. 45*	0. 0	·1045	0. 0	·02549	1. 40	59 ·0	59 ·0
3. 40	45. 32*	1. 30	·1052	1. 5	·02503	3. 40	59 ·0	60 ·0
9. 40	36. 19*	2. 4	·1056	2. 12	·02421	9. 40	59 ·0	59 ·0
21. 40	44. 34*	2. 18	·1062	5. 7	·02058	21. 40	55 ·0	55 ·0
		2. 30	·1061	5. 22	·02040			
		2. 39	·1063	5. 50	·01958			
		3. 0	·1057	6. 5	·01950			
		3. 24	·1058	6. 31	·01895			
		3. 45	·1055	7. 48	·01813			
		3. 52	·1056	9. 58	·01770			
		4. 12	·1049	10. 13	·01740			
		4. 47	·1046	11. 20	·01881			
		5. 30	·1053	12. 40	·01973			
		5. 40	·1051	13. 22	·02006			
		6. 4	·1051	14. 0	·02073			
		6. 11	·1055	15. 10	·02290			
		6. 37	·1054	16. 7	·02406			
		6. 49	·1049	17. 41	{·02558			
					{·02492			

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	° ′ ″	May 14 h m		May 14 h m		h m	°	°
		7. 6	·1059	19. 35	·02539			
		7. 14	·1078	20. 28	·02517			
		7. 20	·1072	21. 39	·02543			
		7. 26	·1068	22. 42	·02540			
		7. 36	·1072	23. 33	·02496			
		7. 51	·1058					
		7. 55	·1061					
		8. 2	·1056					
		8. 11	·1066					
		8. 17	·1057					
		8. 21	·1064					
		8. 27	·1059					
		8. 42	·1068					
		8. 51	·1083					
		9. 3	·1080					
		9. 6	·1087					
		9. 24	·1061					
		9. 33	·1076					
		9. 36	·1076					
		9. 54	·1111					
		10. 7	·1102					
		10. 18	·1071					
		10. 32	·1054					
		10. 55	·1044					
		11. 2	·1052					
		11. 11	·1044					
		11. 20	·1059					
		11. 22	·1061					
		11. 28	·1055					
		11. 39	·1049					
		11. 46	·1050					
		11. 50	·1049					
		12. 12	·1074					
		12. 27	·1069					
		12. 35	·1073					
		13. 3	·1064					
		13. 36	·1067					
		13. 40	·1063					
		14. 34	·1056					
		14. 48	·1058					
		15. 4	·1053					
		15. 28	·1057					
		15. 45	·1056					
		15. 52	·1060					
		16. 45	·1054					
		17. 18	·1060					
		17. 24	·1077					
		17. 32	·1073					
		17. 45	·1073					
		17. 56	·1061					
		18. 2	·1068					
		18. 6	·1067					
		18. 15	·1081					
		18. 21	·1079					
		18. 36	·1065					
		18. 38	·1065					
		18. 48	·1075					
		18. 52	·1072					
		18. 54	·1073					
		19. 11	·1054					
		20. 7	·1051					
		20. 20	·1055					
		20. 32	·1050					
		22. 2	·1047					
		23. 59	·1040					
		May 15		May 15		May 15		
		0. 24	21. 47. 20	0. 0	·1040	0. 15	·02460	1. 40 57 ·7 58 ·0
		0. 45	47. 15	0. 30	·1041	1. 10	·02412	3. 40 59 ·0 59 ·0
		1. 16	48. 25	0. 37	·1040	2. 13	·02282	9. 40 57 ·8 58 ·0
		1. 30	47. 50	0. 39	·1037	5. 10	·01712	21. 40 55 ·0 55 ·0
		1. 47	48. 50	1. 0	·1036		·01740	
		2. 9	47. 50	1. 7	·1040	6. 6	·01694	
		2. 13	48. 45	1. 38	·1039	7. 11	·01688	
		2. 21	47. 30	1. 45	·1044	8. 6	·01727	
			***	1. 48	·1042	10. 21	·01950	
		3. 13	44. 45	1. 55	·1045	10. 45	·02023	
		3. 41	44. 55	2. 0	·1041	13. 30	·02280	
		4. 6	43. 30	2. 7	·1045	15. 48	·02424	
		4. 30	41. 20	2. 20	·1038	17. 23	·02460	
		4. 54	41. 0	2. 45	·1035	20. 9	·02582	
		5. 10	39. 30	2. 55	·1040	20. 24	·02536	
		5. 15	39. 30	3. 0	·1037	22. 11	·02566	
		5. 27	38. 50	3. 5	·1039	23. 6	·02549	
		5. 50	38. 55	3. 11	·1028			
		6. 12	37. 30	3. 19	·1033			
		7. 29	39. 5	3. 23	·1028			
		7. 48	38. 55	3. 27	·1032			
		8. 33	39. 50	3. 37	·1026			
		8. 49	38. 30	3. 50	·1033			
		9. 13	39. 50	4. 10	·1032			
		9. 42	40. 10	4. 22	·1027			
		10. 10	42. 0	4. 33	·1037			
		10. 24	41. 20	4. 40	·1041			
		10. 45	42. 0	5. 0	·1038			
		11. 17	38. 50	5. 8	·1046			
		11. 32	39. 55	5. 22	·1049			
		11. 52	38. 20	5. 30	·1046			
		12. 12	39. 0	5. 49	·1053			
		12. 19	39. 35	6. 6	·1052			
		12. 28	39. 20	6. 17	·1059			
		12. 33	38. 15	7. 37	·1058			
		12. 43	38. 25	7. 45	·1056			
		12. 52	38. 0	8. 5	·1058			
		13. 4	39. 30	8. 20	·1072			
		13. 8	39. 30	8. 37	·1072			
		13. 13	40. 30	8. 49	·1064			
		13. 31	41. 5	9. 12	·1058			
		13. 42	40. 15	10. 57	·1060			
		15. 11	39. 40	11. 20	·1066			
		15. 32	40. 20	11. 30	·1068			
			(†)	12. 15	·1074			
		21. 40	41. 6*	12. 30	·1069			
		23. 29	47. 0	12. 47	·1059			
		23. 59	47. 5	13. 21	·1062			
				13. 25	·1060			

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

May 14. The Photographic Register of the Declination was lost through failure of the gaslight.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 15 h m		h m		h m	°	°
		15. 52	·1060					
		16. 6	·1064					
		16. 17	·1063					
		17. 15	·1065					
		17. 28	·1066					
		17. 45	·1060					
		17. 55	·1062					
		19. 23	·1057					
		20. 15	·1053					
		21. 0	·1053					
		21. 18	·1054					
		21. 47	·1051 ***					
		23. 52	·1057					
		23. 59	·1054					
May 16		May 16		May 16		May 16		
0. 0	21. 47. 15	0. 0	·1054	0. 0	·02507	1. 40	57 ·8	58 ·5
0. 14	47. 40	1. 10	·1059	0. 21	·02490	3. 40	59 ·0	59 ·0
1. 32	47. 55	2. 15	·1052	1. 53	·02312	9. 40	62 ·0	62 ·3
1. 58	48. 50	2. 37	·1059	4. 43	·01790	21. 40	57 ·0	57 ·0
2. 17	47. 45	3. 3	·1061		·01830			
2. 45	48. 15	3. 16	·1057	8. 58	·01800			
2. 54	47. 40	3. 34	·1056	11. 2	·01748			
3. 6	48. 0	3. 39	·1050	13. 16	·01840			
3. 21	47. 30	3. 45	·1052	14. 57	·02121			
4. 0	47. 30	3. 51	·1049	19. 8	·02638			
4. 15	47. 15	3. 53	·1052		·02560			
4. 28	46. 40	4. 30	·1040	23. 47	·02520			
4. 45	46. 20	4. 43	·1044					
4. 48	46. 55	4. 51	·1050					
4. 58	46. 10	5. 2	·1056					
5. 7	46. 15	5. 5	·1052					
5. 21	45. 50	5. 19	·1054					
5. 40	46. 0	5. 32	·1050					
5. 46	45. 30	6. 32	·1061					
6. 0	45. 55	6. 39	·1059					
6. 10	45. 15	7. 30	·1069					
6. 17	45. 20	7. 52	·1064					
6. 40	42. 30	8. 4	·1068					
7. 10	42. 0	8. 24	·1066					
	(†)	8. 52	·1072					
9. 40	38. 18*	9. 25	·1067					
21. 40	43. 48*	9. 55	·1067					
		10. 15	·1066					
		10. 45	·1069					
		11. 44	·1066					
		12. 5	·1068					
		12. 22	·1068					
		12. 40	·1072					
		12. 53	·1070					
		13. 14	·1071					
		13. 35	·1072					
		15. 0	·1072					
		17. 15	·1074					
		18. 37	·1071					
		19. 15	·1067					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 16 h m		h m		h m	°	°
		19. 35	·1068					
		19. 52	·1066					
		20. 3	·1068					
		20. 45	·1061					
		21. 42	·1062					
		22. 0	·1066					
		23. 7	·1072					
		23. 45	·1082					
May 17		May 17		May 17		May 17		
1. 40	21. 46. 59*	1. 40	·1070*		(†)	1. 40	58 ·5	58 ·0
3. 40	47. 38*	3. 40	·1072*	2. 42	·02540	3. 40	60 ·0	60 ·4
9. 40	44. 11*	9. 40	·1069*	3. 1	·02508	9. 40	60 ·0	60 ·0
23. 35	44. 43*	23. 35	·1073*		(†)	23. 35	52 ·0	53 ·0
				3. 57	·02392			
				5. 27	·02204			
				7. 45	·01990			
				9. 45	·01990			
				10. 45	·02043			
				14. 40	·02616			
					·02557			
				18. 30	·02570			
				20. 27	·02510			
				23. 0	·02438			
				23. 59	·02367			
May 18		May 18		May 18		May 18		
	(†)	9. 5	·1082*	0. 28	·02341	9. 5	57 ·0	58 ·0
1. 43	21. 50. 0	21. 40	·1074*	1. 27	·02270	21. 40	54 ·2	55 ·0
2. 18	48. 30			2. 52	·02097			
3. 5	49. 5			5. 47	·01647			
3. 41	48. 5				·01680			
4. 49	47. 15			8. 11	·01637			
	(†)			11. 32	·01763			
11. 26	43. 50			16. 0	·02103			
14. 43	43. 50			20. 28	·02524			
15. 13	45. 55			21. 26	·02550			
15. 35	45. 45			23. 2	·02455			
15. 46	43. 25			23. 59	·02339			
16. 32	42. 20							
17. 15	42. 45							
19. 0	38. 20							
20. 21	38. 10							
21. 1:	38. 25							
21. 36	40. 10							
22. 26	41. 45							
23. 24	45. 30							
23. 59	47. 0							
May 19		May 19		May 19		May 19		
0. 0	21. 47. 10		(†)	0. 46	·02212	1. 40	58 ·3	58· 6
2. 2	45. 5	0. 24	·1072	1. 45	·02103	3. 40	61 ·0	61 ·4
2. 50	46. 0	0. 58	·1069	2. 13	·02011	9. 40	62 ·0	62 ·4
3. 15	45. 20	1. 5	·1052	3. 0	·01790	21. 40	56 ·0	56 ·3
3. 30	46. 10	1. 20	·1056		·01805			
3. 54	45. 30	1. 45	·1052	3. 30	·01797			
4. 16	45. 20	1. 51	·1047		·01810			

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 19	° ′ ″	May 19		May 19		h m	°	°
h m		h m		h m				
4. 43	21. 43. 0	2. 10	·1048	4. 21	·01812			
4. 48	42. 40	2. 40	·1052		·01870			
	(†)	3. 5	·1054	6. 16	·01857			
6. 2	36. 30	3. 10	·1056	7. 54	·01812			
6. 48	35. 30	3. 18	·1052	8. 23	·01800			
8. 18	36. 10	3. 27	·1056	9. 9	·01776			
9. 40	38. 40	3. 34	·1054	11. 2	·01822			
11. 17	45. 0	3. 44	·1065	12. 15	·01923			
	(†)	4. 0	·1059	13. 17	·02090			
18. 0	40. 20		***	15. 28	·02467			
19. 0	39. 30	4. 40	·1061	16. 0	·02633			
19. 41	39. 30	4. 46	·1055		·02572			
	(†)	4. 53	·1057	20. 17	·02570			
21. 40	39. 39*	5. 0	·1054	21. 10	·02596			
		5. 19	·1060	22. 6	·02590			
		5. 41	·1058	22. 27	·02546			
		5. 51	·1066	22. 53	·02513			
		6. 0	·1062	23. 59	·02370			
		6. 13	·1061					
		6. 22	·1065					
		6. 41	·1062					
		7. 39	·1077					
		8. 2	·1071					
		8. 24	·1074					
		8. 40	·1065					
		9. 3	·1071					
		9. 10	·1078					
		9. 45	·1068					
		10. 36	·1073					
		10. 57	·1070					
		11. 20	·1077					
		13. 3	·1080					
		14. 28	·1086					
		14. 50	·1082					
		15. 9	·1084					
		15. 30	·1083					
		17. 42	·1084					
		17. 51	·1086					
		17. 54	·1084					
		18. 10	·1083					
		18. 14	·1086					
			***					
		19. 12	·1082					
		19. 20	·1079					
		19. 38	·1082					
		20. 40	·1071					
		21. 36	·1065					
		22. 21	·1062					
		22. 27	·1063					
		22. 40	·1060					
		22. 54	·1060					
		23. 44	·1055					
May 20		May 20		May 20		May 20		
	(†)	0. 0	·1058	0. 11	·02332	1. 40	61 ·2	61 ·4
1. 31	21. 50. 30		***	1. 4	·02123	3. 40	65 ·0	65 ·3
3. 32	48. 20	1. 28	·1056	2. 21	·01810	10. 5	65 ·5	66 ·0
4. 13	46. 50	1. 51	·1045		·01860	21. 40	56 ·0	56 ·3

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 20	° ′ ″	May 20		May 20		h m	°	°
h m		h m		h m				
5. 10	21. 45. 50	2. 9	·1048	3. 43	·01899			
6. 22	44. 0	2. 40	·1044	6. 30	·01890			
	(†)	2. 50	·1045	7. 13	·01870			
		3. 2	·1040	7. 24	·01878			
		3. 30	·1040	7. 55	·01853			
		3. 40	·1042	9. 0	·01844			
		3. 55	·1041	10. 36	·01945			
		4. 29	·1051	13. 42	·02480			
		4. 44	·1047	14. 43	·02700			
		4. 52	·1049		·02626			
		5. 0	·1046	17. 8	·02632			
		5. 21	·1044	19. 20	·02610			
		5. 33	·1045	21. 38	·02657			
		5. 50	·1042	22. 55	·02578			
		7. 5	·1047	23. 8	·02557			
		7. 22	·1050		·02522			
		7. 50	·1051	23. 53	·02458			
		8. 15	·1055					
		8. 30	·1056					
		8. 36	·1053					
		8. 54	·1059					
		9. 9	·1057					
		9. 20	·1062					
			***					
		10. 25	·1065					
		10. 53	·1068					
		12. 35	·1073					
		14. 0	·1081					
			***					
		15. 33	·1082					
			***					
		17. 18	·1085					
		18. 0	·1084					
		18. 15	·1087					
			***					
		19. 5	·1085					
			***					
		19. 26	·1089					
			***					
		20. 0	·1086					
			***					
		20. 50	·1084					
			***					
		22. 0	·1075					
		22. 50	·1073					
		23. 59	·1070					
May 21		May 21		May 21		May 21		
1. 40	21. 48. 52*	1. 40	·1054*	0. 6	·02430	1. 40	62 ·3	63 ·0
3. 40	50. 8*	3. 40	·1044*	1. 10	·02212	3. 40	66 ·0	66 ·0
9. 40	43. 7*	9. 40	·1042*	2. 36	·01843	9. 40	65 ·0	67 ·0
21. 40	43. 11*	21. 40	·1041*		·01908	21. 40	62 ·0	63 ·0
				4. 43	·01908			
				6. 14	·01930			
				7. 5	·01912			
				8. 20	·01867			
				11 30	·01897			

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

May 17, 20, 21. The Photographic Register of the Declination failed.

May 17, 18, 21. The Photographic Register of the Horizontal Force failed.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		May 21 h m		h m	°	°
				14. 11	·02043			
				15. 38	·02163			
				17. 50	·02410			
				18. 55	·02496			
				20. 27	·02640			
				21. 38	·02728 / ·02204			
				23. 59	·02290			
May 22		May 22		May 22		May 22		
0. 28	21. 51. 30	0. 11	·1046	0. 19	·02300	1. 40	61 ·8	62 ·5
1. 0	51. 15	1. 15	·1049	1. 28	·02346	3. 40	62 ·1	63 ·0
1. 12	50. 50	1. 27	·1053	4. 54	·02449	9. 40	62 ·0	64 ·0
2. 12	49. 15	1. 40	·1052	6. 50	·02410	21. 40	57 ·8	58 ·0
4. 7	47. 30	3. 0	·1060	8. 16	·02318			
4. 47	46. 30	3. 9	·1040	9. 8	·02283			
6. 0	45. 30	3. 33	·1040	10. 22	·02310			
6. 55	44. 30	3. 52	·1037	11. 49	·02483			
7. 47	44. 15	4. 21	·1041	13. 0	·02510			
8. 32	43. 45	6. 0	·1038	13. 23	·02514			
9. 2	44. 45	6. 28	·1036	13. 35	·02486			
9. 56	44. 5	6. 35	·1038	13. 51	·02512			
10. 24	45. 10	7. 10	·1036	16. 24	·02568			
11. 0	45. 15	7. 15	·1035	19. 24	·02548			
11. 18	44. 50	7. 42	·1033	20. 44	·02573			
11. 57	45. 10	8. 10	·1035	22. 10	·02530			
12. 12	45. 50	9. 25	·1029	23. 43	·02360			
12. 20	45. 5	9. 50	·1026					
13. 17	44. 30	10. 51	·1034					
13. 28	44. 50	11. 46	·1035					
13. 41	44. 30	11. 59	·1045					
15. 13	44. 5	12. 30	·1042					
15. 21	43. 50	12. 56	·1045					
16. 0	44. 0	13. 40	·1046					
16. 15	42. 40	14. 30	·1040					
16. 48	43. 20	15. 50	·1050					
17. 48	42. 0	15. 52	·1046					
18. 29	44. 10	16. 6	·1049					
19. 30	47. 50	16. 13	·1047					
20. 1	41. 50	16. 50	·1053					
20. 18	42. 5	17. 30	·1047					
20. 30	41. 20	18. 16	·1053					
20. 55	43. 15	18. 30	·1049 ***					
21. 16	43. 20							
21. 35	44. 30 (†)	19. 5	·1051					
		19. 9	·1047 ***					
		19. 14	·1049 ***					
		19. 28	·1049 ***					
		19. 51	·1042 ***					
		20. 22	·1038					
		20. 45	·1040					
		21. 14	·1028					
		21. 45	·1026					
		22. 44	·1020					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F Magnet.
h m	° ′ ″	May 22 h m		h m		h m	°	°
		23. 30	·1013					
		23. 59	·1024					
May 23		May 23		May 23		May 23		
0. 23	21. 48. 0	0. 0	·1025	0. 8	·02328	1. 40	60 ·8	61 ·0
0. 45	48. 20	0. 20	·1026	1. 32	·02110	3. 40	63 ·8	64 ·0
1. 5	49. 0	0. 30	·1021	3. 30	·01754	9. 40	60 ·0	60 ·5
1. 21	48. 20	0. 54	·1027	3. 53	·01970	21. 40	56 ·0	56 ·4
1. 30	47. 45	1. 15	·1023	4. 33	·01893			
2. 43	48. 45	1. 23	·1022	5. 43	·01865 / ·01898			
3. 17	47. 20	1. 45	·1028					
3. 32	47. 20		***	6. 4	·01860 / ·01920			
4. 17	45. 45	2. 40	·1028					
4. 31	44. 30	2. 51	·1018	7. 11	·01818			
4. 51	44. 15	2. 57	·1025	8. 2	·01805			
5. 4	44. 45	3. 0	·1023	8. 54	·01870			
5. 37	45. 20	3. 15	·1032	11. 32	·02202			
5. 50	43. 55	3. 31	·1036	13. 47	·02568			
6. 14	44. 40	3. 37	·1046	15. 29	·02560			
6. 30	43. 35	3. 40	·1041	19. 29	·02548			
7. 36	43. 20	3. 55	·1050	20. 51	·02558			
8. 0	36. 55	4. 35	·1040	21. 58	·02523 / ·02480			
8. 47	41. 35	4. 56	·1049					
9. 51	43. 55	5. 36	·1049	23. 15	·02400			
10. 10	43. 30	5. 42	·1055	23. 53	·02313			
10. 21	44. 0	5. 50	·1055					
10. 38	44. 0	6. 2	·1047					
11. 20	43. 0	6. 20	·1052					
11. 45	43. 45	7. 10	·1054					
12. 13	43. 10 ***	7. 50	·1045					
		8. 12	·1055					
13. 24	43. 30	9. 0	·1048					
13. 41	43. 0	12. 50:	·1058					
14. 31	43. 30	15. 0	·1064					
15. 46	43. 55	15. 51	·1068					
16. 32	42. 30	16. 22	·1068					
16. 49	42. 45	16. 40	·1065					
18. 0	42. 20	17. 44	·1068					
18. 22	40. 30 ***	18. 55	·1063 (†)					
19. 2	40. 30	21. 40	·1027					
19. 16	41. 20							
20. 32	41. 10 ***							
22. 50	47. 0							
23. 4	47. 0							
23. 43	48. 45							
23. 59	49. 55							
May 24		May 24		May 24		May 24		
0. 0	21. 49. 50		(†)	0. 22	·02241	1. 40	58 ·9	59 ·7
0. 7	49. 30	1. 10	·1029	1. 20	·02170	3. 40	61 ·1	61 ·4
0. 55	51. 20	1. 21	·1027	2. 50	·01908	9. 40	60 ·5	61 ·0
1. 30:	52. 15	1. 33	·1027	3. 38	·01744	22. 25	57 ·1	57 ·4
3. 0	49. 30	1. 46	·1026	3. 49	·01740 / ·01771			
3. 30	47. 50	2. 25	·1032					
4. 25	46. 50	2. 35	·1031	4. 48	·01770			
6. 43	44. 30	2. 50	·1036	8. 15	·01690			

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 h m	° ′ ″	May 24 h m		May 24 h m		h m	°	°
7. 39	21. 43. 40	3. 52	·1035	10. 18	·01722			
7. 56	43. 15	4. 20	·1030	18. 13	·02457			
9. 0	43. 20	4. 36	·1031	19. 46	·02584			
9. 47	44. 0		***	20. 7	·02588			
10. 14	43. 30	5. 52	·1032	20. 12	·02558			
11. 22	43. 40		***	23. 2	·02556			
11. 53	43. 20	7. 30	·1039					
12. 40:	44. 0	8. 25	·1036					
13. 16	44. 0	10. 54	·1034					
13. 38	44. 20	12. 37	·1033					
15. 6	43. 10	14. 20	·1034					
15. 57	43. 10	16. 10	·1037					
16. 42	42. 50	16. 47	·1039					
18. 35	40. 30	18. 15	·1038					
19. 36	39. 35	18. 30	·1038					
19. 51	40. 0	19. 45	·1037					
20. 17	39. 30	21. 20	·1026					
20. 52	40. 30	22. 0	·1023					
21. 4	40. 20	22. 54	·1020					
21. 40	41. 10	23. 37	·1016					
23. 59	45. 55	23. 59	·1014					
May 25		May 25		May 25		May 25		
0. 0	21. 46. 0	0. 0	·1014	0. 23	·02500	8. 42	64 ·0	64 ·7
0. 25	46. 40	0. 19	·1012	2. 8	·02397	21. 40	59 ·8	60 ·0
1. 25	46. 55	1. 0	·1013	4. 43	·02037			
2. 0	46. 30	1. 34	·1014	6. 15	·01767			
2. 17	47. 0	1. 39	·1013	9. 43	·01747			
2. 24	46. 45	2. 10	·1014	10. 29	·01728			
3. 10	47. 30	2. 15	·1017	12. 30	·01744			
4. 30	46. 30	2. 35	·1015	13. 58	·01808			
4. 52	45. 50	2. 39	·1017	14. 58	·01990			
5. 32	45. 30	3. 7	·1017	19. 22	·02430			
5. 48	45. 40	3. 15	·1015	20. 57	·02530			
5. 59	45. 5	3. 44	·1019	21. 31	·02528			
6. 3	45. 55	4. 39	·1020		(†)			
6. 12	45. 5	4. 42	·1022	22. 29	·02481			
7. 27	44. 40	4. 51	·1020	22. 52	·02470			
9. 0	43. 25	4. 53	·1023		(†)			
9. 8	42. 50	4. 59	·1021					
9. 24	43. 50	6. 0	·1026					
9. 30	43. 10	6. 30	·1023					
13. 46	43. 10	6. 40	·1026					
14. 48	42. 50	6. 59	·1026					
15. 13	43. 0	7. 30	·1022					
16. 5	42. 30	8. 28	·1020					
16. 15	42. 40	8. 55	·1021					
16. 28	42. 0	9. 6	·1015					
16. 36	42. 15	9. 30	·1012					
16. 54	41. 45	11. 4	·1006					
17. 0	42. 0	11. 22	·1013					
	***	11. 50	·1014					
20. 15	47. 40	12. 19	·1017					
	***	12. 30	·1017					
21. 28	39. 30	13. 13	·1019					
22. 7	41. 15	15. 58	·1023					
22. 27	43. 0	16. 10	·1025					
23. 59	45. 55	16. 52	·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 25 h m						
h m	° ′ ″	18. 44	·1023	h m		h m	°	°
		19. 37	·1023					
		20. 25	·1016					
		21. 0	·1015					
		21. 40	·1017					
		22. 54	·1014					
		23. 59	·1005					
May 26		May 26		May 26		May 26		
0. 0	21. 46. 0	0. 0	·1005		(†)	1. 40	63 ·0	64 ·0
1. 35	46. 15	0. 22	·1007	1. 32	·02103	3. 40	65 ·3	66 ·0
2. 0	45. 20	0. 37	·1013	3. 6	·01800	9. 40	63 ·0	64 ·0
3. 30	44. 30	1. 12	·1015		·01870	21. 40	61 ·9	61 ·5
4. 56	43. 45	1. 26	·1016	3. 43	·01842			
5. 43	44. 30	1. 37	·1024		(†)			
6. 46	41. 5		***	4. 15	·01898			
6. 56	40. 10	1. 59	·1024	5. 24	·01840			
7. 12	40. 30		***	9. 0	·01803			
7. 23:	41. 50	2. 30	·1025	11. 27	·01850			
7. 36	41. 0		***	18. 43	·02650			
7. 43	41. 10	3. 3	·1025	18. 47	·02618			
7. 54	40. 30	3. 10	·1019	20. 47	·02624			
8. 10	40. 50	3. 52	·1024	21. 24	·02638			
8. 18	40. 15	4. 43	·1029	22. 53	·02584			
8. 34	40. 10	4. 52	·1040	23. 59	·02450			
9. 20	41. 5	6. 0	·1034					
9. 32	41. 0	6. 25	·1036					
9. 47	41. 20	6. 45	·1033					
9. 58	41. 15	7. 6	·1035					
10. 16	42. 30	7. 30	·1032					
10. 30	44. 0	9. 40	·1034					
10. 42	44. 50	10. 2	1030					
11. 45	44. 5	10. 26	·1037					
12. 0	44. 20	10. 57	·1035					
12. 28	43. 50	11. 22	·1037					
12. 36	43. 5	11. 32	·1036					
16. 13	42. 45	11. 39	·1037					
16. 18	42. 30	11. 48	·1036					
17. 23	42. 30	11. 57	·1040					
17. 54	43. 10	14. 10	·1039					
18. 7	41. 30	14. 16	·1034					
19. 21	43. 40	14. 23	·1036					
19. 52	44. 20	16. 0	·1043					
21. 15	43. 50	17. 10	·1044					
21. 24	43. 0	17. 52	·1046					
21. 54	43. 0	18. 22	·1048					
22. 20	42. 30	19. 12	·1040					
22. 45	43. 15	19. 20	·1040					
23. 6	43. 30	19. 44	·1034					
23. 35	45. 10	20. 22	·1031					
23. 44	45. 15	20. 43	·1027					
23. 59	46. 5	21. 39	·1027					
		22. 19	·1019					
		22. 35	·1023					
		23. 7	·1014					
		23. 12	·1022					
		23. 25	·1023					
		23. 48	·1015					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 26 h m		h m		h m	°	°
		23. 52	·1018					
		23. 59	·1012					
May 27		May 27		May 27		May 27		
0. 0	21. 46. 15	0. 0	·1012	0. 20	·02381	1. 40	65 ·0	65 ·0
1. 10	46. 45	0. 6	·1006	1. 19	·02240	3. 40	67 ·0	67 ·0
1. 24	46. 25		(†)	2. 52	·01870	9. 40	65 ·0	65 ·5
2. 15	47. 30	2. 32	·1007	3. 23	·01908	21. 40	60 ·5	61 ·0
5. 34	43. 15		***	4. 42	·01896			
5. 52	43. 30	2. 51	·1002	6. 0	·01873			
6. 18	43. 0		***	8. 34	·01860			
7. 8	43. 10	3. 10	·1003	12. 5	·02012			
7. 21	42. 20		***	15. 24	·02290			
7. 43	41. 45	3. 23	·1010	18. 3	{·02710			
9. 55	42. 10		***		{·02652			
10. 21	42. 55	3. 40	·1009	20. 9	·02615			
10. 33	42. 45		***	21. 36	·02637			
10. 46	43. 10	5. 0	·1016	22. 28	·02670			
12. 13	42. 30		***	23. 47	·02630			
12. 17	43. 30	5. 22	·1019					
12. 42	42. 15		***					
12. 48	43. 0	6. 51	·1017					
12. 54	42. 45		***					
13. 14	44. 0	6. 58	·1028					
13. 34	41. 30		***					
13. 45	41. 20	7. 12	·1026					
14. 15	45. 0		***					
14. 48	42. 0	7. 24	·1028					
15. 54	39. 0	7. 40	·1018					
16. 11	39. 20	8. 12	·1012					
16. 23	40. 15	8. 30	·1013					
16. 37	39. 20	9. 2	·1010					
17. 30	39. 0	9. 15	·1014					
	***	9. 52	·1014					
17. 39	38. 30	10. 33	·1016					
	***	10. 42	·1018					
19. 45	40. 25	11. 55	·1019					
19. 57	38. 35	12. 12	·1017					
	***	12. 22	·1021					
20. 30	41. 5	12. 35	·1022					
20. 35	39. 30	12. 38	·1020					
20. 40	42. 40	13. 7	·1025					
	***	13. 10	·1028					
21. 15	43. 55	14. 10	·1023					
21. 24	45. 15	14. 39	·1033					
21. 50	45. 0	15. 21	·1032					
22. 30	48. 30	17. 0	·1036					
22. 37	47. 40	18. 10	·1038					
22. 45	49. 35	19. 33	·1039					
	***	21. 30	·1017					
23. 54	46. 40	22. 0	·1014					
		23. 54	·1014					
May 28		May 28		May 28		May 28		
0. 11	21. 46. 10	0. 0	·1020	0. 12	·02616	1. 40	62 ·0	63 ·0
0. 21	46. 20	0. 15	·1021	1. 13	·02572	3. 40	61 ·0	62 ·0
0. 40	47. 20	0. 55	·1013	2. 39	·02410	9. 40	66 ·0	67 ·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.
May 28 h m	° ′ ″	May 28 h m		May 28 h m		May 28 h m	°	°
1. 2	21. 47. 0	1. 14	·1019	5. 23	{·01910	21. 50	57 ·0	59 ·0
3. 2	47. 5	2. 11	·1015		{·01947			
3. 41	46. 30	2. 45	·1017	7. 59	·01848			
	(†)	2. 55	·1021	8. 40	·01847			
5. 39	40. 30	3. 14	·1000	10. 58	·01932			
6. 6	40. 10	3. 28	·1005	13. 28	·02204			
6. 31	41. 15	3. 36	·1007	15. 24	·02497			
7. 49	41. 20	3. 44	·1012	16. 30	·02700			
8. 45	42. 30	4. 12	·1001	16. 49	·02649			
9. 41	43. 50	4. 23	·1000	19. 25	·02675			
10. 12	44. 10	4. 37	·1003	23. 57	·02638			
10. 30	43. 30	4. 48	·1013					
12. 6:	43. 5	4. 53	·1013					
13. 42	43. 10	5. 17	·1024					
16. 16	42. 10	5. 28	·1023					
18. 17	44. 5	5. 36	·1019					
18. 54	44. 30	5. 49	·1008					
19. 36	43. 50	6. 15	·1015					
20. 30	44. 10	6. 28	·1020					
20. 45	43. 50	6. 47	·1018					
21. 30	44. 40	7. 6	·1023					
22. 50	47. 50	7. 42	·1023					
23. 54	48. 30	7. 59	·1021					
23. 59	48. 50	8. 15	·1022					
		8. 54	·1021					
		9. 18	·1022					
		9. 37	·1020					
		9. 55	·1021					
		10. 12	·1024					
		10. 30	·1022					
		10. 41	·1025					
		11. 58	·1024					
		17. 42:	·1035					
		19. 30	·1030					
		21. 10	·1032					
		23. 9	·1030					
May 29		May 29		May 29		May 29		
0. 0	21. 48. 55	0. 28	·1014	0. 32	·02450	1. 40	60 ·0	61 ·0
0. 28	50. 30	0. 51	·1016	1. 20	·02408	3. 40	63 ·0	64 ·0
1. 13	51. 0	1. 14	·1021	1. 47	·02360	8. 0	61 ·0	62 ·0
1. 27	50. 45	2. 3	·1020	5. 32	·01888	21. 40	55 ·0	56 ·0
1. 42	51. 20	3. 22	·1026	6. 45	·01806			
2. 12	50. 25	3. 30	·1023	8. 43	·01786			
2. 25	50. 30	3. 53	·1029	9. 45	·01810			
3. 33	47. 15	4. 3	·1026	11. 30	·01902			
3. 45	47. 30	4. 19	·1029	14. 9	·02194			
4. 2	46. 30	4. 58	·1029	16. 39	{·02610			
4. 9	46. 50	5. 45	·1025		{·02562			
6. 41	43. 30	6. 11	·1029	18. 55	{·02582			
6. 52	43. 40	6. 31	·1046		{·02540			
7. 1	43. 10		***	19. 30	·02587			
7. 15	43. 45	7. 22	·1032	23. 8	·02600			
7. 18	43. 15	7. 39	·1029	23. 41	·02596			
7. 31	42. 50	7. 58	·1032					
8. 20	43. 40	9. 2	·1028					
9. 10	43. 35	10. 3	·1032					
9. 30	42. 30	10. 28	·1027					

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 29		May 29						
h m	° ′ ″	h m		h m		h m	°	°
9. 55	21. 42. 50	11. 24	·1025					
10. 10	42. 15	12. 30	·1027					
10. 40	42. 30	12. 48	·1025					
11. 6	43. 30	13. 14	·1029					
11. 40	42. 40	13. 44	·1027					
12. 45	42. 35	17. 32	·1038					
13. 17	43. 30	19. 13	·1038					
13. 34	42. 40	19. 40	·1035					
13. 47	43. 10	20. 7	·1031					
14. 13	42. 30		***					
15. 54	42. 40	21. 25	·1027					
16. 12	42. 45		***					
16. 18	42. 15	23. 28	·1026					
16. 45	42. 25		***					
18. 35	41. 30	23. 48	·1028					
20. 0	39. 55	23. 59	·1022					
20. 35	40. 15							
20. 47	39. 30							
21. 0	40. 30							
21. 30	40. 55							
21. 42	41. 30							
21. 52	41. 15							
22. 11	42. 45							
22. 31	43. 0							
22. 58	45. 0							
23. 59	46. 30							
May 30		May 30		May 30		May 30		
0. 0	21. 46. 30	0. 0	·1022	0. 18	·02560	1. 40	57 ·2	58 ·5
0. 6	46. 35	1. 25	·1014	1. 7	·02547	3. 40	58 ·8	60 ·0
0. 30	46. 10	2. 3	·1011	2. 5	·02490	9. 40	60 ·0	61 ·4
2. 56	47. 30	3. 5	·1009	5. 26	·02000	21. 40	53 ·6	55 ·0
6. 3	44. 15	4. 20	·1012	6. 53	·01852			
6. 27	43. 20		***	8. 8	·01799			
7. 1	43. 20	6. 10	·1023	10. 44	·01808			
7. 22	42. 45	6. 19	·1027	14. 57	·02218			
8. 0	43. 10	6. 23	·1025	15. 32	·02310			
8. 17	42. 30		***	17. 47	{·02577 ·02538			
9. 2	42. 25	7. 28	·1028					
9. 25	43. 0	7. 51	·1026	21. 9	·02530			
10. 16	43. 0	8. 0	·1031	21. 13	·02487			
10. 50	42. 30	8. 12	·1031	23. 8	·02512			
11. 19	42. 55	9. 14	·1028	23. 18	·02480			
14. 17	43. 30	13. 30	·1034	23. 43	·02488			
14. 48	43. 0	14. 7	·1031					
15. 9	43. 10	15. 52	·1035					
15. 24	42. 40	17. 45:	·1039					
16. 43	42. 30	18. 20	·1039					
18. 20	39. 30	18. 50	·1040					
18. 30	39. 50	20. 20	·1038					
	***	22. 0	·1029					
19. 40	39. 0	23. 7	·1022					
19. 46	38. 15	23. 51	·1020					
19. 55	38. 30							
20. 7	37. 50							
20. 25	38. 50							
20. 45	38. 10							
21. 13	39. 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.
May 30								
h m	° ′ ″	h m		h m		h m	°	°
21. 25	21. 39. 25							
21. 45	41. 5							
21. 49	40. 30							
23. 16	46. 10							
23. 23	46. 0							
23. 45	47. 30							
23. 59	48. 30							
May 31		May 31		May 31		May 31		
0. 0	21. 48. 30			0. 47	·02448	1. 40	54 ·0	55 ·0
0. 11	48. 35	2. 37	·1023	2. 45	·02370	3. 40	56 ·0	56 ·8
	(†)	3. 30	·1027	6. 9	·02024	9. 40	58 ·0	59 ·0
3. 13	47. 15	3. 50	·1029	7. 43	·01877	23. 25	56 ·5	58 ·0
3. 32	47. 15	4. 7	·1029	11. 30	·01712			
4. 41	46. 10	4. 21	·1031	14. 45	·01660			
6. 5	43. 0	5. 0	·1031	16. 17	·01680			
6. 37	42. 30	5. 20	·1037	19. 53	·01773			
9. 15	43. 0	5. 48	·1037	22. 11	·01870			
9. 45	44. 0	6. 12	·1039	22. 45	·01861			
12. 50	43. 0	6. 43	·1040	23. 59	·01858			
13. 15	43. 20	7. 7	·1043					
15. 16	42. 55	7. 26	·1043					
15. 21	42. 30	7. 37	·1040					
15. 44	43. 40	9. 24	·1038					
16. 15	42. 15	9. 54	·1039					
16. 32	42. 10	10 12	·1037					
16. 55	42. 5	11. 30	·1035					
17. 2	42. 5	12. 35	·1037					
17. 32	40. 25	12. 39	·1035					
17. 58	39. 30	12. 49	·1037					
19. 0	39. 0	14. 10	·1036					
19. 16	38. 15	15. 42	·1039					
20. 15:	37. 50	15. 52	·1041					
21. 7	38. 30	16. 10	·1039					
22. 15	42. 5	18. 5	·1040					
22. 44	42. 45	19. 22	·1036					
23. 13	44. 30	21. 30	·1021					
23. 59	46. 50	22. 0	·1020					
		23. 22	·1021					
June 1		June 1		June 1		June 1		
0. 0	21. 46. 55	0. 15	·1031	0. 44	·01850	11. 40	60 ·0	61 ·0
1. 42	48. 50	0. 58	·1032	3. 38	·01837	21. 40	58 ·0	58 ·5
2. 27	47. 25	1. 37	·1036	6. 10	·01660			
3. 0	47. 30	2. 30	·1035	6. 15	·01690			
4. 40	45. 50	3. 44	·1038	8. 13	·01712			
6. 9	44. 30	4. 20	·1037	8. 30	·01716			
6. 44	43. 45	6. 22	·1040	10. 9	·01757			
8. 24	43. 25	6. 55	·1039	11. 47	·01700			
9. 4	43. 35	7. 15	·1040	14. 9	·01728			
11. 15	42. 20	7. 22	·1042	14. 40	·01757			
12. 32	43. 10	7. 50	·1038	18. 14	·02148			
12. 43	42. 50	8. 22	·1037	20. 28	·02330			
13. 47	43. 55	9. 22	·1037	21. 12	·02360			
14. 23	43. 15	9. 40	·1034	22. 10	·02312			
14. 47	43. 35	10. 25	·1031	23. 27	·02159			
15. 20	42. 40	12. 33	·1034	23. 59	·02069			
15. 48	42. 20	13. 21	·1037					

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 1		June 1						
h m	° ′ ″	h m		h m		h m	°	°
16. 33	21. 42. 25	13. 40	·1039					
17. 9	41. 55	14. 34	·1038					
18. 21	40. 20	15. 44	·1041					
19. 6	38. 45	16. 7	·1041					
19. 32	39. 10	16. 25	·1043					
20. 44:	40. 10	17. 20	·1044					
21. 40	42. 15	18. 55	·1039					
22. 2	43. 30	20. 12	·1025					
22. 48	45. 40	20. 52	·1021					
23. 4	46. 30	21. 25	·1017					
23. 12	46. 40	21. 52	·1010					
		23. 10	·1011					
June 2		June 2		June 2		June 2		
0. 1	21. 49. 5	0. 6	·1018	0. 24	·01990	1. 40	63 ·8	64 ·0
2. 32	49. 0	0. 50	·1017	1. 21	·01768	3. 40	66 ·4	67 ·0
3. 17:	47. 55	1. 10	·1019	2. 1	·01840	9. 40	70 ·0	70 ·8
3. 50	46. 50	1. 18	·1018	2. 13	·01892	21. 40	62 ·9	63 ·2
4. 57	43. 45	1. 24	·1022	3. 5	·01903			
5. 10	43. 30		***		·01924			
5. 31	42. 15	2. 7	·1017	3. 44	·01922			
6. 12	42. 20	2. 15	·1017		·01944			
6. 32	43. 0	2. 51	·1008	5. 12	·01937			
6. 42	42. 30	3. 42	·1006	6. 24	·01970			
7. 2	42. 55	3. 52	·1009	8. 58	·01890			
7. 41	42. 20	4. 17	·1007	11. 19	·01932			
7. 52	42. 40	4. 25	·1004	11. 57	·01977			
8. 49	42. 10	4. 52	·1005	14. 17	·02230			
9. 11	42. 15	5. 3	·1009	16. 17	·02590			
9. 46	41. 20	5. 24	·1008	16. 48	·02709			
9. 57	42. 0	5. 30	·1013	17. 8	·02717			
10. 32	42. 0	5. 48	·1014		·02646			
10. 47	40. 10	5. 55	·1017	22. 20	·02658			
11. 1	41. 40	6. 7	·1015	23. 25	·02590			
11. 24	39. 45	6. 30	·1019					
11. 45	40. 50	6. 37	·1015					
12. 50	41. 45	7. 27	·1013					
14. 26	41. 50	7. 32	·1009					
15. 10	42. 20	7. 55	·1017					
15. 21	41. 25	8. 12	·1013					
16. 7	41. 30	8. 27	·1018					
16. 54	40. 50	8. 52	·1013					
17. 25	40. 0	10. 39	·1016					
17. 51	39. 35	11. 2	·1029					
18. 12	39. 35	11. 28	·1022					
19. 10	38. 30	11. 40	·1019					
20. 25	37. 45	12. 0	·1020					
22. 2	40. 0	12. 4	·1022					
22. 35	42. 50	12. 12	·1020					
23. 59	49. 55	12. 32	·1025					
		13. 29	·1024					
		14. 22	·1027					
		14. 31	·1028					
		14. 41	·1028					
		14. 58	·1031					
		15. 13	·1030					
		15. 31	·1031					
		15. 57	·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.
		June 2						
h m	° ′ ″	h m		h m		h m	°	°
		16. 16	·1033					
		16. 22	·1032					
		16. 41	·1033					
		17. 37	·1037					
		17. 45	·1036					
		18. 7	·1037					
		18. 46	·1033					
		19. 10	·1030					
		19. 24	·1036					
		20. 12	·1030					
		22. 41	·1009					
		23. 12	·1008					
		23. 29	·1008					
June 3		June 3		June 3		June 3		
0. 0	21. 50. 0	0. 0	·1012	0. 15	·02550	1. 40	67 ·3	68 ·0
0. 47:	51. 50	0. 30	·1007	1. 36	·02316	3. 40	70 ·1	71 ·0
2. 12	51. 0	0. 43	·1005	1. 58	·02219	9. 40	74 ·0	74 ·0
4. 2	47. 15	0. 54	·1010		(†)	21. 40	65 ·0	65 ·0
6. 32	42. 50	1. 30	·1014	3. 40	·01947*			
9. 4	41. 45	1. 43	·1012		(†)			
11. 12	42. 45	1. 58	·1015	6. 3	·01942			
12. 20	42. 40	2. 17	·1014	7. 32	·01897			
14. 27	43. 15		(†)	8. 13	·01856			
15. 15	43. 10	3. 40	·1017*	8. 43	·01837			
15. 52	42. 50		(†)	11. 9	·01900			
17. 9	41. 55	5. 5	·1013	14. 17	·02240			
17. 48	41. 25	6. 8	·1017	16. 26	·02670			
18. 21	41. 0	6. 14	·1015	16. 51	·02610			
	***	7. 4	·1019	18. 8	·02610			
20. 9	40. 30	8. 0	·1020	19. 0	·02590			
20. 58	38. 45	8. 15	·1023	20. 56	·02604			
22. 7	40. 30	8. 27	·1026	21. 46	·02630			
22. 41	43. 20	8. 30	·1024	22. 43	·02604			
23. 30	47. 0	8. 35	·1026	23. 30	·02496			
		8. 58	·1025					
		9. 48	·1028					
		10. 0	·1026					
		10. 15	·1029					
		11. 44	·1032					
		12. 0	·1031					
		12. 29	·1034					
		13. 16	·1034					
		14. 27	·1037					
		14. 31	·1039					
		15. 32	·1041					
		17. 25	·1046					
		18. 31	·1050					
			***					
		19. 4	·1046					
		19. 17	·1049					
		19. 22	·1051					
		19. 44	·1046					
		20. 6	·1038					
		20. 53	·1030					
		21. 22	·1029					
		22. 24	·1034					
			(†)					

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 4	° ′ ″	June 4		June 4		June 4	°	°
h m		h m		h m		h m		
1. 40	21. 51. 2*	0. 15	·1025	0. 33	·02421	1. 40	69 ·5	69 ·5
3. 40	49. 24*	0. 38	·1023	2. 36	·01960	3. 40	71 ·0	71 ·0
9. 40	38. 43*	0. 47	·1027	3. 15	·01790	9. 40	71 ·0	71 ·5
21. 40	39. 33*	1. 35	·1019	3. 46	·01896	21. 40	61 ·7	62 ·0
			***	7. 39	·01903			
		2. 55	·1026	8. 52	·01888			
		3. 51	·1030	10. 39	·01960			
		4. 14	·1038	11. 42	·02057			
		5. 2	·1037	13. 28	·02258			
		5. 27	·1043		·02280			
		5. 45	·1042	14. 40	·02490			
		6. 14	·1054	15. 17	·02606			
		6. 42	·1052	17. 17	·02604			
		6. 53	·1057	20. 11	·02577			
		7. 3	·1053	20. 52	·02581			
		7. 45	·1056	22. 55	·02572			
		8. 12	·1052	23. 36	·02593			
		9. 10	·1053					
		9. 24	·1051					
		9. 41	·1054					
		11. 8	·1056					
		11. 28	·1062					
		12. 7	·1061					
		13. 25	·1055					
		13. 53	·1058					
		15. 14	·1062					
			(†)					
		21. 40	·1053*					
			(†)					
June 5		June 5		June 5		June 5		
1. 40	21. 47. 25*	0. 0	·1061	0. 0	·02574	1. 40	64 ·3	65 ·0
3. 40	48. 34*	1. 40	·1062	1. 58	·02457	3. 40	66 ·6	67 ·3
9. 40	43. 20*	2. 37	·1058	4. 45	·02110	9. 40	66 ·4	66 ·5
21. 40	40. 49*	3. 22	·1063	6. 38	·01939	21. 40	58 ·0	58 ·3
		4. 5	·1061	8. 38	·01864			
		5. 19	·1070	10. 35	·01924			
		6. 34	·1072	11. 21	·01998			
		7. 15	·1075	15. 7	·02570			
		8. 51	·1077	15. 17	·02490			
		9. 6	·1074	16. 55	·02522			
		9. 43	·1078	17. 14	·02480			
		11. 6	·1079	17. 46	·02492			
		11. 35	·1082	22. 23	·02539			
		11. 52	·1086	23. 24	·02472			
		12. 28	·1080					
		12. 53	·1084					
		13. 24	·1085					
		13. 35	·1089					
		16. 40	·1091					
		17. 30	·1093					
		19. 5	·1094					
		19. 30	·1090					
		20. 27	·1083					
		21. 6	·1074					
			(†)					
		23. 59	·1069					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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		
0. 41	21. 45. 0	0. 0	·1069	0. 0	·02432	1. 40	63 ·0	63 ·5
1. 13	45. 55	0. 22	·1073	0. 59	·02377	3. 40	65 ·8	66 ·0
1. 31	46. 55	1. 2	·1074	1. 56	·02270	9. 40	67 ·3	68 ·0
1. 41	46. 45	1. 22	·1073	3. 14	·02057	21. 40	62 ·0	61 ·3
1. 51	47. 10	1. 53	·1077	5. 17	·01660			
1. 58	47. 10	2. 5	·1079	5. 32	·01721			
3. 0	49. 20	2. 19	·1079	8. 10	·01711			
3. 8	49. 10	5. 0	·1083	10. 7	·01690			
3. 17	49. 50	5. 45	·1084	11. 13	·01710			
3. 30	49. 30	6. 17	·1085	13. 45	·01828			
3. 41	49. 30	6. 32	·1085	15. 9	·01980			
3. 54	48. 20	6. 37	·1083	17. 0	·02250			
4. 16	47. 55	7. 0	·1086	19. 24	·02620			
4. 57	48. 50	7. 55	·1083	19. 47	·02518			
5. 27	47. 45	8. 6	·1081	21. 11	·02530			
7. 45	46. 0	8. 33	·1080	21. 54	·02557			
10. 13	44. 5	8. 37	·1082	22. 28	·02542			
11. 38	42. 10	9. 6	·1079	23. 45	·02461			
12. 55	42. 45	9. 32	·1079					
13. 21	42. 30	9. 41	·1081					
14. 43	42. 45	10. 52	·1079					
15. 49	42. 15	11. 0	·1077					
17. 6	42. 15	12. 22	·1080					
18. 46	41. 50	13. 45	·1078					
18. 59	41. 15	14. 6	·1080					
19. 11	41. 40	15. 5	·1079					
20. 43	39. 10	15. 12	·1078					
22. 21	39. 40	15. 18	·1083					
22. 45	40. 30	15. 22	·1081					
23. 26	41. 15	16. 35	·1080					
23. 59	42. 40	16. 48	·1077					
		17. 0	·1080					
		17. 13	·1080					
		17. 21	·1082					
		17. 34	·1077					
		17. 51	·1080					
		18. 36	·1075					
		18. 41	·1081					
		19. 9	·1079					
		19. 17	·1085					
		19. 21	·1082					
		19. 30	·1083					
		21. 25	·1075					
		21. 56	·1071					
		22. 18	·1071					
		22. 58	·1066					
		23. 14	·1063					
		23. 40	·1064					
June 7		June 7		June 7		June 7		
0. 0	21. 42. 40		(†)		(†)	1. 40	65 ·0	66 ·0
0. 45	43. 20	1. 40	·1065*	1. 40	·02154*	3. 40	67 ·0	68 ·0
	(†)	3. 40	·1052*	3. 40	·01785*	9. 40	70 ·5	71 ·0
1. 40	49. 23*		(†)		(†)	22. 55	62 ·5	63 ·0
3. 40	51. 0*	7. 47	·1080	5. 57	·01812			
5. 52	45. 15	9. 7	·1076	8. 45	·01775			
6. 40	44. 15	9. 32	·1078	10. 59	·01792			
7. 17	44. 0	10. 35	·1078	11. 46	·01824			
7. 40	43. 35	10. 52	·1068	12. 27	·01857			

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

June 4 and 5. Western Declination. The Photographic Trace was faint on both these days.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 7		June 7		June 7				
h m	° ′ ″	h m		h m		h m	°	°
9. 48	21. 43. 50	11. 28	·1080	13. 0	·01910			
10. 32	42. 55	12. 0	·1080	14. 31	·02124			
10. 50	43. 50	12. 52	·1075	15. 32	·02335			
11. 13	40. 0	13. 37	·1074	16. 48	{ ·02610			
11. 29	42. 10		***		{ ·02550			
11. 56	41. 10	17. 50	·1088	19. 13	·02551			
13. 7	41. 30		***	20. 10	·02564			
13. 30	40. 40	21. 15	·1080	21. 32	·02596			
14. 3	40. 55		(†)	22. 21	·02555			
14. 28	40. 40	22. 55	·1074*	23. 27	·02506			
15. 46	41. 45	23. 59	·1053					
16. 15	42. 15							
18. 25	39. 30							
19. 45	39. 30							
20. 13	40. 25							
20. 17	39. 0							
20. 47	40. 30							
21. 10	40. 0							
22. 9	42. 0							
23. 59	45. 50							
June 8		June 8		June 8		June 8		
0. 0	21. 46. 0	0. 0	·1053	0. 0	·02484	9. 40	71 ·5	72 ·0
0. 30	47. 25	0. 20	·1051	2. 31	·02390	21. 40	67 ·0	67 ·4
1. 21	47. 0	1. 12	·1052	4. 17	·02224			
1. 40	47. 30	1. 25	·1057	5. 26	·02040			
2. 44	48. 0	1. 34	·1057	7. 15	·01770			
3. 0	47. 45	1. 40	·1058	7. 22	·01840			
3. 27	47. 40	2. 51	·1053	13. 59	·01770			
7. 26	44. 0	3. 6	·1057	14. 58	·01828			
7. 46	44. 15	5. 30	·1061	17. 10	·02037			
8. 17	43. 55	6. 26	·1066	20. 22	·02410			
8. 28	43. 30	7. 14	·1062	22. 25	·02552			
8. 42	43. 40	7. 25	·1064	23. 30	·02570			
9. 17	43. 20	8. 24	·1059					
9. 48	44. 0	8. 37	·1062					
10. 0	43. 30	8. 55	·1059					
11. 0	43. 20	9. 1	·1061					
11. 49	42. 30	9. 7	·1057					
12. 29	42. 40	9. 16	·1059					
12. 34	43. 30	9. 32	·1056					
12. 45	42. 50	9. 45	·1063					
13. 2	44. 45	10. 0	·1053					
13. 15	43. 45	10. 37	·1053					
13. 25	43. 30	10. 50	·1051					
13. 44	41. 50	12. 0	·1062					
14. 13	41. 40	12. 20	·1057					
14. 39	42. 30	13. 10	·1063					
15. 55	42. 30	14. 0	·1063					
19. 26	38. 30	14. 7	·1064					
19. 40	37. 40	14. 37	·1066					
20. 17	39. 0	15. 7	·1070					
21. 54	41. 20	16. 10	·1070					
22. 41	43. 15	16. 22	·1068					
23. 45	47. 20	16. 32	·1065					
23. 59	47. 45	17. 10	·1065					
		17. 23	·1063					
		17. 37	·1064					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		June 8						
h m	° ′ ″	h m		h m		h m	°	°
		17. 46	·1063					
		18. 10	·1065					
		18. 17	·1063					
		18. 33	·1064					
		18. 36	·1063					
		19. 5	·1063					
		19. 40	·1058					
		19. 55	·1059					
		21. 33	·1054					
			***					
		22. 50	·1057					
		23. 36	·1057					
		23. 59	·1056					
June 9		June 9		June 9		June 9		
0. 0	21. 47. 50	0. 0	·1056	1. 7	·02572	1. 40	69 ·1	69 ·4
1. 29	49. 20	0. 25	·1055	1. 44	·02567	3. 40	69 ·5	70 ·0
2. 28	49. 5	0. 45	·1050	2. 42	·02499	9. 40	71 ·5	71 ·5
3. 13	48. 5	0. 55	·1051	3. 19	·02424	21. 40	67 ·0	67 ·0
4. 17	46. 30	1. 12	·1049	5. 13	·02057			
4. 40	46. 15	1. 30	·1056	6. 44	{ ·01810			
5. 17	45. 30		(†)		{ ·01892			
6. 11	44. 35	3. 40	·1056	8. 43	·01818			
7. 50	43. 45	6. 2	·1058	9. 32	·01818			
9. 33	44. 50	7. 13	·1064	11. 30	·01890			
10. 4	42. 15	9. 0	·1062	14. 35	·02130			
10. 25	44. 30	9. 16	·1070	16. 0	·02308			
10. 49	43. 20	9. 40	·1060	16. 58	·02470			
11. 0	42. 45	10. 12	·1062	18. 27	·02679			
11. 8	42. 45	10. 22	·1068	18. 40	·02610			
11. 28	41. 5	10. 55	·1063	20. 55	·02650			
11. 41	41. 45	11. 2	·1065	22. 41	·02707			
11. 47	41. 30	11. 12	·1058	23. 33	·02668			
12. 18	42. 20	11. 32	·1053	23. 57	·02613			
12. 37	42. 0		(†)					
13. 32	43. 50	21. 40	·1041*					
13. 58	42. 30							
14. 11	42. 50							
14. 29	42. 10							
15. 2	47. 20							
15. 23	45. 10							
16. 10	42. 10							
16. 43	41. 55							
17. 9	42. 20							
17. 30	42. 30							
18. 6	40. 20							
19. 17	39. 10							
20. 25:	39. 30							
21. 55	40. 15							
22. 46	43. 20							
23. 1	44. 50							
23. 59	46. 50							
June 10		June 10		June 10		June 10		
0. 0	21. 46. 50	1. 40	·1034*	0. 28	·02696	1. 40	70 ·2	70 ·3
0. 8	46. 40		(†)	3. 28	·02090	3. 40	72 ·0	72 ·3
	(†)	2. 2	·1026	5. 44	·01824	9. 40	70 ·0	71 ·0
1. 58	48. 20	2. 55	·1034	5. 53	·01831	21. 40	62 ·0	62 ·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.
June 10		June 10		June 10				
h m	° ′ ″	h m		h m		h m	°	°
3. 3	21. 49. 35	3. 18	·1038	6. 9	·01790			
4. 5	48. 0	3. 37	·1041	6. 21	{·01790			
4. 17	47. 0	3. 55	·1036		{·01894			
5. 13	45. 45	4. 3	·1038	9. 10	·01856			
5. 31	46. 50		(†)	10. 37	·01910			
5. 47	46. 45	9. 40	·1048*	11. 32	·01992			
5. 53	45. 45	21. 40	·1030*	13. 33	·02297			
6. 5	46. 55			14. 52	·02556			
6. 13	46. 0			15. 40	·02528			
6. 39	46. 55			17. 56	·02544			
7. 43	44. 10			20. 28	·02510			
8. 13	43. 40			22. 12	·02546			
8. 41	44. 30			23. 55	·02424			
8. 50	43. 55							
9. 43	43. 55							
10. 10	45. 10							
10. 48	39. 30							
11. 5	39. 30							
11. 15	41. 10							
11. 28	44. 30							
11. 42	44. 30							
12. 3	37. 30							
12. 54	36. 50							
13. 27	38. 55							
	***							
14. 2	37. 0							
14. 47	40. 40							
14. 55	40. 0							
15. 9	42. 10							
15. 17	41. 30							
15. 40	43. 15							
16. 5	42. 10							
16. 13	42. 10							
17. 7	40. 30							
17. 17	42. 0							
17. 57	40. 55							
18. 19	43. 40							
19. 15	42. 15							
19. 21	43. 40							
19. 32	41. 30							
19. 40	41. 10							
19. 46	43. 10							
19. 48	42. 30							
19. 59	43. 40							
21. 27	42. 45							
22. 16	46. 0							
22. 32	45. 50							
23. 13	48. 40							
23. 43	49. 5							
June 11		June 11		June 11		June 11		
0. 7	21. 49. 40	1. 40	·1034*	0. 14	·02383	1. 40	66 ·0	67 ·0
0. 15	48. 45	3. 40	·1034*	1. 44	·02196	3. 40	71 ·0	71 ·2
0. 45	50. 45	9. 40	·1012*	3. 16	{·01744	9. 40	71 ·0	71 ·2
0. 58	50. 10	21. 40	·1006*		{·01823	21. 40	63 ·0	63 ·2
1. 47	51. 45			4. 43	·01809			
2. 29	50. 40			5. 28	·01829			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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	°	°
2. 52	21. 48. 15			6. 53	{·01799			
3. 4	49. 0				{·01822			
4. 12	48. 40			8. 30	·01770			
4. 49	43. 40			9. 8	·01777			
5. 17	43. 10			10. 48	·01898			
5. 39	44. 30			11. 45	·02015			
6. 30	45. 50			14. 47	·02632			
8. 30	43. 30			14. 55	·02566			
8. 43	44. 0			19. 12	·02570			
9. 2	43. 30			20. 23	·02600			
9. 29	44. 20			22. 30	·02549			
9. 47	37. 40			23. 39	·02470			
9. 55	39. 30			23. 59	·02411			
10. 9	38. 30							
10. 19	40. 25							
10. 30	39. 20							
11. 2	44. 0							
11. 29	43. 0							
12. 1	44. 40							
12. 28	41. 55							
12. 45	42. 5							
12. 56	42. 40							
13. 48	42. 20							
14. 0	43. 35							
14. 11	42. 20							
14. 48	43. 45							
15. 1	43. 10							
15. 7	44. 5							
15. 24	43. 40							
15. 40	44. 0							
15. 48	43. 35							
15. 56	44. 0							
16. 11	43. 0							
16. 38	42. 10							
17. 41	44. 20							
18. 31	42. 55							
18. 57	43. 30							
19. 34	41. 10							
21. 18	41. 30							
21. 40	42. 30							
21. 56	41. 35							
23. 10	45. 10							
23. 44	45. 20							
23. 59	46. 20							
June 12		June 12		June 12		June 12		
1. 40	21. 49. 14*		(†)	0. 20	·02344	1. 40	67 ·0	67 ·0
3. 40	47. 18*	1. 40	·1028	2. 13	·02132	3. 40	67 ·2	67 ·6
9. 40	42. 35*	4. 5	·1021	4. 14	·01784	9. 40	67 ·0	68 ·0
21. 40	41. 47*	4. 25	·1018	4. 48	·01920	21. 40	65 ·1	66 ·0
		5. 30	·1019	8. 19	·01808			
		6. 12	·1023	14. 30	·01949			
		6. 20	·1020	16. 12	·02078			
		8. 25	·1033	20. 15	·02440			
		8. 54	·1033	20. 22	·02404			
		9. 12	·1031	22. 0	·02446			
		10. 23	·1033	22. 42	·02440			
		10. 55	·1030	23. 59	·02390			

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

June 12. Western Declination. The Photographic Trace 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	° ′ ″	June12 h m		h m		h m	°	°
		12. 12	·1030					
		15. 20	·1032					
		17. 50	·1034					
		18. 21	·1033					
		18. 37	·1030					
		20. 13	·1033					
		20. 40	·1037					
		21. 14	·1036					
		23. 22	·1040					
		23. 59	·1038					
June13		June13		June13		June13		
0. 0	21. 46. 10	0. 0	·1038	0. 25	·02364	1. 40	65 ·8	66 ·3
0. 43	48. 5	0. 16	·1036	1. 20	·02358	3. 40	66 ·0	66 ·8
1. 17	48. 55	0. 30	·1037	6. 10	·02240	9. 40	66 ·5	67 ·0
4. 21	50. 0	0. 40	·1036	6. 24	·02218	21. 40	60 ·5	60 ·0
5. 12	48. 20	0. 45	·1037	8. 0	·02230			
5. 18	50. 30	1. 15	·1037	8. 47	·02225			
5. 41	50. 10		(†)	14. 30	·02280			
5. 55	47. 15	3. 40	·1038*	19. 24	·02490			
7. 16	46. 50	9. 40	·1038*	21. 33	·02556			
7. 35	44. 55	21. 40	·1011*	23. 13	·02558			
8. 0	45. 50			23. 43	·02577			
8. 20	44. 40			23. 59	·02572			
8. 47	45. 30							
10. 2	46. 5							
10. 25	46. 40							
11. 3	45. 55							
12. 0	46. 15							
12. 43	45. 30							
13. 30	47. 30							
14. 46	46. 0							
15. 37	43. 55							
16. 20	45. 5							
16. 34	44. 30							
18. 21	41. 50							
20. 45	41. 5							
21. 53	43. 40							
22. 11	43. 5							
	(†)							
June14		June14		June14		June14		
0. 39	21. 50. 30	1. 40	·1025*	0. 43	·02498	1. 40	66 ·0	66 ·4
0. 48	49. 40	3. 40	·1020*	1. 55	·02450	3. 40	66 ·5	67 ·1
1. 48	50. 30	9. 40	·1025*	4. 47	·02164	9. 40	66 ·0	66 ·0
3. 30	47. 30	21. 40	·1024*	6. 6	·02109	23. 19	60 ·0	60 ·4
4. 9	47. 0			6. 44	·02118			
4. 36	46. 10			8. 40	·02200			
6. 45	44. 30			11. 43	·02458			
8. 48	45. 15			14. 13	{·02648			
9. 7	44. 55				{·02587			
9. 43	45. 30			15. 59	·02597			
10. 15	45. 5			16. 11	·02554			
10. 47	45. 50			16. 40	·02590			
12. 0	46. 0			22. 0	·02587			
13. 2	45. 15			23. 46	·02540			
13. 30	46. 30							
14. 16	45. 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.
June14 h m	° ′ ″	h m		h m		h m	°	°
15. 0	21. 45. 10							
17. 40	44. 0							
18. 0	43. 15							
18. 50	44. 0							
19. 55:	43. 0							
21. 15:	43. 40							
22. 22	46. 20							
23. 15	50. 0							
23. 59	52. 0							
June15		June15		June15		June15		
7. 35	21. 44. 40*	7. 35	·1032*	0. 0	·02492	7. 35	65 ·0	66 ·0
21. 40	42. 49*	21. 40	·1013*	0. 24	·02470	21. 40	59 ·8	60 ·0
				4. 22	·01876			
				5. 21	·01684			
				5. 46	·01728			
				10. 44	·01678			
				13. 30	·01877			
				13. 46	·01930			
				14. 16	·01970			
				15. 12	·02107			
				16. 13	·02313			
				17. 39	·02587			
				18. 7	·02492			
				20. 30	·02512			
				21. 44	·02550			
				23. 10	·02450			
				23. 59	·02336			
June16		June16		June16		June16		
0. 22	21. 49. 55	1. 40	·1012*		(†)	1. 40	65 ·9	66 ·0
0. 41	49. 5	3. 40	·1018*	1. 27	·02128	3. 40	67 ·4	68 ·2
2. 39	48. 30	9. 40	·1029*	2. 53	·01730	9. 40	68 ·0	69 ·0
3. 27	47. 45	21. 40	·1024*	3. 17	·01770	21. 40	62 ·9	63 ·0
3. 40	48. 0			4. 6	·01790			
4. 13	46. 35				(†)			
5. 57	44. 40			5. 10	·02210			
6. 14	44. 10			5. 21	·02178			
6. 29	43. 5			5. 48	·02168			
8. 29	43. 40			7. 44	·01970			
8. 47	43. 15			8. 43	·01938			
8. 55	43. 40			10. 58	·02040			
9. 33	43. 20			15. 3	·02350			
10. 11	43. 30			16. 17	·02547			
10. 32	47. 30			16. 43	·02610			
11. 7	43. 20			17. 26	·02650			
11. 25	43. 10			17. 33	·02598			
11. 32	42. 40			19. 28:	·02592			
12. 27	43. 40			21. 0	·02627			
13. 23	43. 0			23. 30	·02580			
14. 23	44. 40			23. 59	·02546			
15. 6	44. 35							
15. 18	46. 5							
15. 38	44. 30							
16. 0	43. 30							
16. 24	44. 20							
17. 0	43. 40							
17. 17	45. 10							
18. 39	41. 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.

June 15. The Photographic Trace for the Declination Magnet was too faint to use; the Western Declination varied during the day from 21°.42′ to 21°.52′.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
June 16								
h m	° ′ ″	h m		h m		h m	°	°
18. 48	21. 42. 0							
21. 25	43. 20							
22. 45	45. 20							
23. 0	46. 20							
23. 59	48. 5							
June 17		June 17		June 17		June 17		
1. 40	21. 50. 19*	1. 40	·1031*	0. 45	·02492	1. 40	64 ·0	65 ·0
3. 40	48. 54*	3. 40	·1032*	4. 7	·02170	3. 40	66 ·0	67 ·0
9. 40	42. 28*	9. 40	·1027*	7. 44	·01770	9. 40	68 ·0	69 ·0
21. 40	42. 19*	21. 40	·1030*		·01850	21. 40	63 ·0	63 ·3
				13. 55	·01788			
				15. 23	·01970			
				16. 6	·02060			
				18. 54	·02604			
				19. 35	·02557			
				21. 24	·02603			
					(†)			
June 18		June 18		June 18		June 18		
0. 17	21. 49. 55		(†)	0. 24	·02337	1. 40	65 ·0	66 ·4
1. 28	50. 20	1. 40	·1004*	1. 45	·02190	3. 40	66 ·0	66 ·0
1. 59	51. 40	3. 40	·1018*	2. 48	·02012	9. 40	66 ·0	66 ·0
4. 41	46. 25	5. 14	·1012	4. 3	·01866	21. 40	58 ·8	60 ·0
5. 42	45. 0	5. 23	·1007	4. 54	·01800			
	***		***	6. 23	·01770			
6. 54	44. 0	6. 25	·1015	7. 27	·01800			
7. 45	40. 30		***	7. 50	·01773			
9. 16	44. 30	7. 36	·1013	8. 20	·01770			
9. 30	43. 55	8. 3	·1019	9. 0	·01804			
10. 33	45. 20	8. 22	·1018	9. 45	·01797			
14. 29	46. 0	8. 35	·1015	11. 59	·01984			
14. 48	46. 30	8. 40	·1016	13. 0	·02120			
15. 30	44. 30	9. 7	·1016	14. 15	·02291			
16. 9	44. 45	9. 22	·1013	15. 18	·02462			
16. 31	42. 40	9. 55	·1017	16. 6	·02596			
17. 33	41. 30	10. 4	·1014	16. 43	·02548			
17. 43	40. 50	10. 22	·1017	17. 0	·02548			
18. 33	40. 55	11. 54	·1022	17. 15	·02570			
18. 54	40. 0	12. 7	·1024	20. 8	·02570			
19. 24	40. 30	14. 10	·1034	20. 32	·02552			
19. 43	41. 30	14. 28	·1032	22. 39	·02557			
20. 27	40. 50	15. 5	·1037		(†)			
20. 44	41. 50	16. 37	·1039					
21. 0	41. 20	17. 5	·1037					
21. 38	42. 0	17. 45	·1038					
22. 39	45. 50	18. 16	·1039					
23. 59	45. 50	19. 22	·1036					
			(†)					
		21. 40	·1028*					
June 19		June 19		June 19		June 19		
	(†)		(†)		(†)	1. 40	60 ·4	61 ·0
3. 15	21. 47. 20	1. 40	·1034*	1. 27	·02570	3. 40	61 ·1	61 ·0
6. 45	43. 45	3. 34	·1040	2. 25	·02548	9. 40	63 ·0	63 ·5
7. 2	43. 0	3. 54	·1042	2. 40	·02460	21. 40	61 ·0	61 ·3
8. 30	42. 30	4. 20	·1038	6. 13	·02268			
	***	4. 52	·1044	8. 13	·02142			
12. 15	43. 10	4. 55	·1041	10. 14	·02066			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar 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		June 19		June 19				
h m	° ′ ″	h m		h m		h m	°	°
13. 58	21. 42. 20	6. 30	·1044	10. 34	·02069			
14. 10	43. 0	6. 36	·1047	11. 15	·02030			
14. 36	42. 15	6. 51	·1047	12. 43	·02016			
15. 15	42. 45	6. 56	·1049	16. 0	·02104			
15. 45	41. 35	7. 5	·1045	17. 22	·02192			
15. 51	42. 20	7. 25	·1045	19. 16	·02277			
16. 12	41. 30	7. 48	·1050	21. 38	·02277			
17. 7	41. 0	8. 5	·1048	22. 26	·02257			
18. 18	38. 20	8. 18	·1047	23. 33	·02196			
19. 2	38. 30	8. 34	·1044	23. 57	·02148			
19. 9	38. 0	9. 30	·1044					
19. 17	38. 55	9. 50	·1041					
20. 13	39. 20	11. 50	·1042					
20. 20	41. 20	12. 6	·1045					
	***	12. 28	·1042					
20. 39	40. 10	12. 55	·1041					
	***	13. 5	·1043					
21. 45	44. 5		***					
22. 15	44. 30	14. 9	·1044					
	***	14. 37	·1047					
23. 43	47. 50	14. 45	·1043					
		14. 51	·1045					
		15. 0	·1040					
		15. 7	·1043					
		15. 9	·1041					
		15. 34	·1046					
		16. 0	·1044					
		16. 10	·1046					
		16. 37	·1045					
		16. 52	·1046					
		17. 45	·1043					
		20. 12	·1028					
		20. 45	·1019					
		21. 30	·1018					
		23. 35	·1025					
		23. 59	·1027					
June 20		June 20		June 20		June 20		
0. 56	21. 49. 30	0. 0	·1027	0. 20	·02130	1. 40	63 ·8	64 ·8
2. 17	50. 0	1. 5	·1023	1. 38	·02038	3. 40	66 ·0	67 ·0
4. 0	49. 0	1. 7	·1019	3. 0	·01840	9. 40	65 ·5	66 ·0
5. 2	47. 50	1. 32	·1017	3. 40	·01703	21. 40	60 ·8	62 ·0
6. 25	45. 5	1. 42	·1020	3. 48	·01682			
7. 40	43. 50	2. 18	·1019	3. 55	·01903			
10. 25	44. 0	2. 30	·1022	4. 23	·01790			
10. 48	43. 45	2. 37	·1021	4. 58	·01738			
14. 38	43. 30	2. 47	·1023	5. 40	·01717			
15. 13	42. 20	2. 54	·1022	7. 45	·01690			
15. 27	43. 50	3. 10	·1023	11. 15	·01830			
15. 44	43. 0	3. 27	·1021	14. 40	·02130			
16. 47	42. 20	4. 7	·1021	18. 15	·02597			
18. 2	42. 20	4. 22	·1027		·02558			
18. 46	43. 0	4. 35	·1021	19. 28	·02570			
19. 0	41. 40	4. 42	·1027	19. 43	·02544			
	***	4. 49	·1024	20. 0	·02562			
20. 17	40. 40	4. 52	·1027	22. 48	·02516			
	***	4. 58	·1023	23. 59	·02472			
23. 10	43. 0	5. 13	·1029					

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

June 14, 15, 16, and 17. Horizontal Force. The Photographic Trace 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.
June 20	° ′ ″	June 20						
h m		h m		h m		h m	°	°
23. 59	21. 46. 0	5. 30	·1030					
		5. 51	·1027					
		6. 0	·1024					
		6. 12	·1025					
		6. 17	·1025					
		6. 21	·1026					
		6. 25	·1025					
		6. 36	·1026					
		6. 50	·1025					
		7. 7	·1028					
		7. 22	·1027					
		7. 39	·1029					
		8. 20	·1025					
		10. 21	·1023					
		10. 36	·1026					
		10. 57	·1023					
		12. 20	·1028					
		12. 30	·1025					
		13. 37	·1030					
		14. 35	·1034					
		14. 52	·1033					
		15. 5	·1030					
		16. 30	·1034					
		16. 37	·1032					
		16. 57	·1031					
		18. 4	·1033					
		19. 30	·1028					
		20. 49	·1019					
		22. 8	·1013					
			***					
		23. 15	·1010					
June 21		June 21		June 21		June 21		
0. 0	21. 46. 5	0. 39	·1012	0. 22	·02390	1. 40	62 ·2	63 ·0
2. 7	51. 20	0. 52	·1009	0. 47	·02363	3. 40	65 ·0	65 ·0
6. 54	42. 55	1. 38	·1014	2. 52	·01992	9. 40	63 ·0	63 ·0
10. 0	45. 0		***	3. 30	·01917	23. 19	62 ·0	63 ·0
11. 40	44. 25	3. 55	·1024	4. 46	·01710			
12. 0	45. 30		***	4. 57	·01738			
12. 18	43. 30	4. 18	·1021	6. 22	·01700			
12. 32	43. 30		***	8. 15	·01657			
13. 2	46. 15	4. 53	·1028	10. 4	·01729			
13. 40	44. 55		***	14. 41	·01986			
14. 2	46. 20	6. 0	·1032	16. 51	·02138			
14. 45	41. 30	6. 40	·1026	19. 54	·02238			
15. 12	41. 35	7. 10	·1026	21. 30	·02218			
16. 2	39. 0	8. 25	·1032	23. 59	·02086			
16. 17	42. 10	8. 50	·1036					
16. 48	40. 30		***					
17. 3	41. 30	9. 32	·1033					
17. 47	39. 30	10. 5	·1031					
18. 23	40. 40	10. 22	·1030					
18. 40	38. 45	11. 0	·1033					
18. 49	40. 0	11. 7	·1031					
19. 4	40. 15	11. 51	·1039					
19. 12	38. 40	12. 5	·1044					
19. 25	40. 0	12. 25	·1038					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 21	° ′ ″	June 21						
h m		h m		h m		h m	°	°
21. 9	21. 42. 0	12. 54:	·1037					
22. 47	46. 0	13. 39	·1044					
23. 59	47. 25	13. 54	·1039					
		14. 21	·1044					
		14. 44	·1043					
		14. 46	·1040					
		15. 20	·1038					
		15. 51	·1039					
		16. 0	·1037					
		16. 16	·1039					
		16. 35	·1038					
		17. 7	·1044					
		17. 34	·1043					
		18. 2	·1038					
		19. 3	·1041					
		20. 19	·1030					
		21. 5	·1023					
		21. 37	·1018					
		22. 20	·1017					
		22. 35	·1021					
		22. 55	·1018					
		23. 36	·1023					
		23. 48	·1020					
		23. 59	·1020					
June 22		June 22		June 22		June 22		
0. 0	21. 47. 30	0. 0	·1020	0. 33	·02078	10. 59	64 ·0	65 ·0
	***	0. 8	·1015	2. 32	·01987	21. 40	61 ·0	61 ·3
1. 2	48. 5	1. 16	·1015	4. 28	·01772			
	***	2. 20	·1018	5. 6	·01673			
1. 30	47. 30	2. 49	·1016	5. 10	·01733			
	***	3. 34	·1018	6. 2	·01704			
3. 20	48. 20	3. 45	·1016	7. 39	·01728			
	***	4. 17	·1020	7. 58	·01710			
6. 0	46. 0	4. 24	·1027	10. 30	·01718			
	***	4. 40	·1021	11. 36	·01710			
8. 11	47. 10	5. 0	·1022	14. 2	·01884			
	***	5. 19	·1020	14. 36	·01953			
10. 2	42. 50	5. 28	·1035	18. 28	·02562			
	***	5. 35	·1026	19. 11	{·02637			
12. 1	45. 5	5. 45	·1022		{·02568			
12. 33	42. 0	5. 55	·1032	21. 11	·02583			
13. 58	45. 10	6. 3	·1043	23. 28	·02555			
15. 36	43. 45	6. 15	·1024	23. 59	·02537			
15. 45	44. 10	6. 55	·1026					
16. 15	42. 25	7. 5	·1030					
18. 10	42. 55	7. 19	·1026					
18. 16	44. 30	7. 25	·1039					
18. 40	43. 5	7. 43	·1032					
18. 57	44. 5	8. 7	·1034					
	***	8. 16	·1032					
20. 40	41. 30	8. 24	·1036					
	***	8. 40	·1028					
22. 43	46. 0	9. 48	·1030					
	***	9. 55	·1018					
23. 59	47. 0	10. 10	·1028					
		10. 21	·1024					

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	° ′ ″	June22 h m		h m		h m	°	°
		10. 29	·1029					
		11. 50	·1026					
		12. 22	·1026					
		12. 42	·1032					
		12. 55	·1029					
		14. 30	·1031					
		15. 10	·1031					
		17. 30	·1035					
		18. 18	·1030					
		18. 22	·1032					
		18. 28	·1031					
		19. 15	·1034					
		20. 12	·1029					
		21. 19	·1028					
		22. 15	·1021					
		22. 30	·1016					
		23. 14	·1023					
		23. 24	·1021					
June23		June23		June23		June23		
0. 0	21. 47. 0	0. 4	·1022	1. 3	·02493	1. 40	62 ·4	64 ·6
1. 18	47. 50		***	3. 4	·02338	3. 40	64 ·0	65 ·0
1. 47	49. 30	1. 21	·1022	6. 11	·02056	9. 40	65 ·5	67 ·0
2. 37	49. 30	1. 32	·1028	6. 45	·01978	21. 40	61 ·0	61 ·3
3. 2	48. 15	1. 48	·1027	8. 43	·01822			
4. 40	48. 50	2. 0	·1019	10. 45	·01748			
	(†)	2. 15	·1022	11. 27	·01748			
5. 50	47. 30	2. 34	·1022	12. 18	·01778			
7. 11	45. 30	2. 45	·1026	14. 38	·01990			
8. 15	45. 30	3. 15	·1020	15. 40	·02130			
9. 14	42. 20	3. 33	·1026	18. 28	·02530			
9. 54	44. 25	3. 54	·1027	18. 30	·02475			
10. 27	42. 45	4. 22	·1031	19. 27	·02563			
11. 22	44. 30	4. 30	·1028	19. 34	·02537			
12. 40	44. 0	4. 37	·1037	21. 49	·02570			
12. 54	45. 0	4. 50	·1032	22. 4	·02539			
13. 30	45. 15	5. 51	·1033	22. 42	·02150			
13. 45	43. 30	5. 59	·1036	23. 28	·02110			
14. 47	43. 20	6. 4	·1035	23. 59	·02037			
15. 0	41. 50	6. 41	·1037					
15. 27	42. 0	6. 51	·1033					
15. 42	44. 0	7. 7	·1032					
16. 5	45. 0	7. 28	·1035					
16. 47	42. 35	7. 45	·1034					
	(†)	8. 5	·1037					
17. 53	43. 30	8. 35	·1035					
18. 38	43. 50	9. 11	·1023					
18. 58	42. 45	9. 45	·1028					
20. 27	42. 35	10. 46	·1031					
20. 39	42. 10	10. 57	·1028					
21. 7	42. 30	12. 51	·1031					
22. 40	46. 30	12. 55	·1034					
23. 59	47. 40	13. 11	·1035					
		13. 20	·1037					
		14. 54	·1037					
		15. 5	·1039					
		15. 44	·1035					
		16. 24	·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.
h m	° ′ ″	June23 h m		h m		h m	°	°
		17. 37	·1039					
		17. 51	·1038					
		18. 17	·1041					
		18. 50	·1039					
		19. 30	·1044					
		21. 25	·1038					
		22. 30	·1030					
			(†)					
June24		June24		June24		June24		
0. 0	21. 47. 25	0. 30	·1024	0. 54	·01904	1. 40	64 ·0	65 ·0
	***	0. 48	·1023	1. 58	·01707	3. 40	67 ·0	67 ·0
3. 15	50. 50	1. 6	·1025	5. 54	·01801	9. 40	68 ·0	71 ·0
	***	3. 2	·1025	6. 15	·01790	21. 40	65 ·0	66 ·0
4. 50	50. 0	3. 21	·1028	7. 14	·01813			
	***	3. 27	·1031	8. 16	·01790			
8. 27	45. 0	3. 45	·1031	9. 57	·01804			
10. 15	45. 25	3. 51	·1028	11. 15	·01777			
12. 16	43. 30		***	13. 10	·01767			
12. 32	44. 30	4. 45	·1030	14. 6	·01820			
13. 0	44. 30		***	14. 41	·01870			
13. 17	45. 10	5. 40	·1023	16. 49	·02107			
16. 44	44. 55		***	19. 15	·02400			
19. 2	41. 40	10. 0	·1026	20. 39	·02507			
19. 45	41. 0		***	21. 44	·02550			
21. 10	41. 15	10. 16	·1030	23. 13	·02496			
	***		***	23. 53	·02452			
23. 59	47. 20	13. 25	·1032					
			***					
		14. 55	·1032					
			***					
		17. 22	·1039					
			***					
		19. 36	·1044					
		20. 52	·1034					
		21. 40	·1031					
		22. 45	·1022					
			***					
		23. 59	·1021					
June25		June25		June25		June25		
0. 0	21. 47. 20	0. 0	·1022	0. 0	·02421	1. 40	70 ·0	70 ·0
	***	0. 35	·1017	1. 47	·02127	3. 40	72 ·0	72 ·5
2. 0	50. 0	1. 0	·1019	3. 3	·01825	9. 40	73 ·0	74 ·0
	***	1. 10	·1014	3. 13	·01890	21. 40	69 ·0	70 ·0
4. 17	50. 0	1. 37	·1013	8. 0	·01873			
	***	2. 45	·1016	10. 54	·01849			
8. 5	46. 0	3. 7	·1019	12. 43	·01848			
8. 40	44. 30		***	14. 9	·01930			
	***	3. 49	·1014	15. 30	·02123			
13. 44	44. 30	4. 12	·1016	16. 36	·02310			
	***	4. 37	·1013	18. 17	·02706			
14. 11	45. 0		***	18. 27	·02652			
	***	5. 20	·1017	21. 46	·02731			
15. 8	44. 30	5. 35	·1014	23. 17	·02650			
	***	6. 0	·1014	23. 59	·02556			
15. 17	45. 20	6. 20	·1021					
	***		***					

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 25		June 25						
h m	° ′ ″	h m		h m		h m	°	°
16. 43	21. 43. 0	7. 40	·1021					
17. 3	44. 0	8. 3	·1023					
18. 0	42. 30	9. 3	·1019					
	***	10. 8	·1021					
21. 22	42. 10	11. 10	·1021					
	***	12. 7	·1023					
22. 15	43. 0	12. 23	·1026					
	***	12. 55	·1022					
23. 31	47. 50	13. 5	·1025					
23. 38	57. 20	14. 0	·1023					
23. 46	57. 40	15. 58	·1030					
23. 50	48. 10	17. 27	·1032					
23. 59	48. 30	17. 47	·1033					
		18. 37	·1037					
		18. 42	·1034					
		18. 50	·1035					
		19. 52	·1028					
		20. 12	·1028					
		20. 47	·1023					
		21. 41	·1021					
		22. 35	·1020					
		22. 50	·1021					
		23. 59	·1014					
June 26		June 26		June 26		June 26		
0. 0	21. 48. 35	0. 0	·1014		(†)	1. 40	73 ·0	73 ·3
2. 15	51. 5	0. 7	·1015	1. 28	·02282	3. 40	75 ·6	77 ·0
4. 32	47. 35	0. 47	·1012	3. 13	·01845	9. 40	78 ·0	79 ·0
5. 2	47. 30	2. 7	·1013	3. 17	{·01881	21. 40	74 ·0	75 ·0
5. 54	45. 50	2. 22	·1011		{·01920			
6. 4	47. 10	2. 55	·1009	3. 46	·01916			
8. 15	44. 45	3. 28	·1005	3. 54	·01829			
8. 28	45. 50	4. 5	·1004	5. 33	·01717			
8. 40	44. 0	4. 33	·1006	5. 49	·01726			
9. 2	44. 35	4. 44	·1008	6. 0	{·01718			
10. 11	43. 0	5. 52	·1004		{·01534			
10. 57	43. 0	5. 57	·1021	7. 8	·01460			
11. 25	44. 35	6. 9	·1017	7. 17	·01474			
11. 52	44. 20	7. 10	·1025	7. 47	{·01440			
12. 45	38. 45	7. 20	·1034		{·01469			
12. 53	38. 45	7. 49	·1042	8. 7	·01430			
13. 2	40. 50		(†)	8. 18	·01457			
13. 37	38. 50	9. 40	·1034*	9. 50	·01494			
13. 47	40. 50	21. 40	·0997*	11. 26	·01564			
14. 13	40. 30			14. 38	·01952			
14. 29	38. 15			16. 10	·02261			
14. 47	39. 0			16. 34	·02218			
15. 0	41. 5			17. 26	·02237			
15. 19	41. 5			19. 18	·02213			
16. 1	43. 40			20. 15	·02230			
17. 15	42. 35			20. 56	·02255			
18. 25	41. 0			21. 11	·02259			
18. 32	39. 30			22. 20	·02137			
18. 47	40. 35			23. 21	·01940			
19. 59	38. 0							
20. 28	38. 30							
21. 29:	42. 50							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 26								
h m	° ′ ″	h m		h m		h m	°	°
23. 2:	21. 46. 35							
23. 59	47. 25							
June 27		June 27		June 27		June 27		
0. 0	21. 47. 30	0. 0	·1000	0. 10	·01953	1. 40	77 ·5	78 ·0
	***		***	2. 24	·01436	3. 40	79 ·4	79 ·4
1. 5	48. 40	1. 11	·0998	2. 30	·01472	9. 40	81 ·0	81 ·0
	***		***	3. 26	·01477	21. 40	69 ·0	70 ·5
1. 34	51. 0	2. 7	·1005	4. 10	·01496			
	***		***	6. 11	·01436			
2. 10	51. 30	6. 0	·1014	6. 17	·01492			
	***		***	6. 41	·01470			
3. 23	49. 55	6. 39	·1010	7. 0	·01469			
	***		***	7. 31	·01430			
6. 11	43. 35	7. 15	·1016	8. 7	·01410			
6. 32	38. 20		***	9. 31	·01430			
6. 49	37. 15	8. 19	·1010	10. 35	·01491			
7. 15	40. 10		***	11. 18	·01562			
	***	10. 5	·1018	13. 18	·01800			
11. 14	42. 30		***	15. 0	{·02178			
	***	11. 33	·1016		{·02110			
12. 47	37. 0		***	16. 21	·02130			
	***	12. 45	·1034	16. 45	·02122			
13. 27	42. 15		***	17. 16	·02120			
13. 53	38. 45	12. 50	·1026	17. 39	·02094			
	***		***	19. 58	·02068			
14. 27	41. 5	14. 0	·1030	21. 30	·02061			
	***		***	22. 29	·02086			
15. 22	40. 10	15. 55	·1027	23. 22	·02050			
	***		***	23. 36	·02026			
16. 15	43. 0	16. 37	·1030					
	***	18. 5	·1031					
17. 2	43. 10	18. 10	·1034					
	***	18. 25	·1030					
18. 39	40. 30	19. 0	·1039					
18. 48	41. 50	19. 28	·1036					
19. 2	40. 30	22. 50	·1017					
	***	23. 59	·1025					
22. 28	44. 0							
23. 59	46. 45							
June 28		June 28		June 28		June 28		
0. 0	21. 46. 45	0. 0	·1025	0. 3	·02000	1. 40	71 ·3	72 ·5
1. 36	48. 0		***	1. 30	·01837	3. 40	75 ·0	75 ·0
	***	1. 20	·1026	3. 22	·01593	9. 40	71 ·5	72 ·0
3. 50	43. 10		***	3. 48	·01500	23. 5	65 ·0	66 ·5
6. 45	39. 50	2. 16	·1021	5. 0	·01283			
	***		***	5. 31	{·01196			
9. 2	42. 30	3. 30	·1023		{·01237			
	***		***	7. 49	·01164			
12. 56	43. 30	5. 37	·1031	8. 25	·01190			
	***		***	9. 40	·01349			
15. 47	42. 15	6. 5	·1031	11. 6	·01584			
17. 27	38. 40		***	11. 52	·01764			
20. 40	36. 40	6. 37	·1037	12. 40	{·02080			
21. 17	37. 15		***		{·01970			
22. 2	41. 5	7. 19	·1032	13. 52	·02010			
22. 14	40. 55		***	15. 14	·01979			

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 28		June 28		June 28				
h m	° ′ ″	h m		h m		h m	°	°
22. 33	21. 41. 55	7. 22	·1029 ***	18. 30	·01972			
23. 59	44. 0			18. 52	·01956			
		7. 35	·1028 ***	21. 24	·01951			
				22. 30	·01989			
		8. 30	·1021 ***	23. 38	·01958			
		9. 5	·1022 ***					
		9. 35	·1019 ***					
		9. 48	·1021 ***					
		11. 54	·1029 ***					
		13. 21	·1025 ***					
		14. 10	·1017 ***					
		15. 5	·1021 ***					
		16. 55	·1024 ***					
		17. 30	·1027 ***					
		18. 35	·1026 ***					
		19. 52	·1021 ***					
		20. 25	·1019 ***					
		20. 44	·1014 ***					
		22. 13	·1009 ***					
		22. 18	·1013 ***					
		22. 25	·1009 ***					
		23. 0	·1007 ***					
		23. 32	·1013 ***					
		23. 59	·1014					
June 29		June 29		June 29		June 29		
0. 0	21. 44. 15	0. 0	·1014 ***	0. 0	·01851	9. 10	70·3	72·0
1. 0	43. 45			0. 30	·01764	21. 40	62·0	63·0
1. 30	44. 20 ***	3. 5	·1013 ***	1. 47	·01517			
				3. 29	·01104			
4. 16	43. 30 ***	4. 22	·1013 ***		·01150			
				6. 18	·01148			
6. 24	39. 30 ***	5. 21	·1008 ***	7. 14	·01130			
					·01148			
6. 53	40. 0 ***	5. 52	·1012	8. 12	·01128			
		6. 25	·1008		·01157			
9. 46	39. 30 ***	7. 0	·1012	9. 36	·01106			
		8. 12	·1012	10. 28	·01122			
10. 13	40. 20 ***	8. 24	·1016	10. 55	·01152			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 29		June 29		June 29				
h m	° ′ ″	h m		h m		h m	°	°
10. 46	21. 39. 30 ***	8. 30	·1012 ***	12. 37	·01473			
				14. 15	·01804			
11. 17	40. 30 ***	11. 50	·1023 ***	15. 22	·02042			
				15. 30	·01941			
12. 44	37. 50 ***	12. 39	·1038 ***	18. 33	·01937			
				20. 10	·01952			
13. 15	39. 0 ***	13. 3	·1035 ***	20. 43	·01972			
				21. 22	·01970			
13. 45	38. 0 ***	14. 45	·1034 ***	23. 0	·01862			
				23. 45	·01707			
14. 54	39. 20 ***	18. 20	·1038 ***					
16. 11	39. 0 ***	20. 47	·1033 ***					
18. 12	36. 30 ***	22. 54	·1016 ***					
19. 48	38. 0 ***	23. 59	·1020					
20. 18	37. 30							
21. 32	41. 5							
23. 57	44. 20							
June 30		June 30		June 30		June 30		
0. 13	21. 47. 35	0. 0	·1020	0. 12	·01592	1. 40	69·0	69·3
1. 0	47. 10	1. 14	·1020	2. 4	·01106	3. 40	71·0	71·4
2. 18	47. 30	1. 53	·1011 ***	2. 11	·01171	9. 40	69·0	70·5
2. 55	46. 35			2. 38	·01160	21. 40	61·7	62·0
4. 0	46. 35 ***	3. 4	·1013 ***	3. 20	·01210			
					·01248			
5. 43	43. 40 ***	3. 40	·1018 ***	4. 24	·01233			
				5. 17	·01194			
7. 35	43. 10 ***	4. 5	·1011 ***	5. 44	·01163			
				8. 2	·01133			
11. 27	45. 50 ***	5. 21	·1017 ***	8. 39	·01137			
				9. 10	·01159			
11. 56	44. 30 ***	5. 47	·1013 ***	10. 17	·01260			
				11. 11	·01356			
12. 55	44. 10 ***	7. 52	·1024 ***	14. 9	·01821			
				15. 13	·02043			
13. 18	45. 5 ***	12. 48	·1028 ***	15. 16	·01950			
				17. 22	·01958			
15. 37	44. 30 ***	13. 7	·1034 ***	18. 51	·01938			
				19. 47	·01906			
16. 49	44. 55 ***	15. 9	·1029	20. 48	·01907			
		16. 10	·1029	22. 29	·01969			
17. 46	41. 20 ***	17. 22	·1031	23. 4	·01970			
		19. 15	·1025	23. 41	·01939			
20. 12	42. 5	20. 0	·1019					
21. 28	40. 40	21. 52	·1014					
23. 27	46. 20	23. 24	·1013					
July 1		July 1		July 1		July 1		
1. 40	21. 45. 20*	1. 40	·1018*	0. 3	·01890	1. 40	66·0	66·2
3. 40	42. 42*	3. 40	·1017*	1. 24	·01737	3. 40	69·0	69·4
9. 40	39. 30*	9. 40	·1014*	3. 49	·01273	9. 40	67·0	69·0
21. 40	35. 44*	21. 40	·1021*	4. 48	·01112	21. 40	60·0	60·7
				5. 36	·01050			

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

July 1, 2, and 3. The time-piece which drives the Declination and Horizontal Force cylinder was under repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		July 1 h m		h m	°	°
				6. 0	·01120			
				7. 15	·01100			
				8. 43	·01024			
				9. 15	·01030			
				10. 19	·01102			
				13. 47	·01644 (†)			
				15. 46	·01829			
				16. 48	·01849			
				18. 19	·01833			
				19. 50	·01830			
				22. 0	·01892			
				23. 0	·01868			
				23. 36	·01803			
July 2		July 2		July 2		July 2		
1. 40	21. 45. 8*	1. 40	·1016*	0. 0	·01772	1. 40	63·9	65·2
3. 40	43. 9*	3. 40	·1039*	1. 50	·01452	3. 40	67·0	67·4
9. 40	38. 22*	9. 40	·1024*	3. 7	·01190	9. 40	66·0	69·0
21. 40	37. 44*	21. 40	·1016*	3. 49	·01040	21. 40	60·0	60·0
				4. 12	·00993			
				4. 15	·01080			
				6. 16	·01069			
				7. 29	·01038			
				9. 2	·00980			
				10. 6	·01050			
				11. 7	·01180			
				15. 43	·01884			
				15. 52	{·01893 ·01820			
				18. 32	·01827			
				19. 43	·01818			
				20. 13	·01818			
				22. 11	·01870			
				22. 52	·01858			
				23. 31	·01773			
July 3		July 3		July 3		July 3		
1. 40	21. 46. 59*	1. 40	·1016*	0. 0	·01746	1. 40	63·8	64·2
3. 40	49. 27*	3. 40	·1018*	1. 0	·01637	3. 40	66·0	66·0
9. 40	44. 30*	9. 40	·1020*	2. 9	·01435	9. 40	67·0	68·0
21. 40	41. 13*	21. 40	·1024*	4. 12	·00957	21. 40	59·0	59·0
				7. 15	·01050			
				9. 45	·00976			
				10. 40	·01030			
				12. 36	·01286			
				13. 19	·01427			
				15. 28	{·01870 ·01810			
				22. 59	·01747			
				23. 59	·01628			
July 4		July 4		July 4		July 4		
0. 27	21. 46. 30	0. 37	·1015	0. 24	·01570	1. 40	64·0	65·0
1. 45:	48. 20 ***	1. 7	·1015	1. 32	·01367	3. 40	67·0	68·0
		1. 52	·1014	3. 13	{·00952 ·01020	9. 40	69·0	70·0
4. 15	47. 30	1. 56	·1012			21. 40	62·5	63·0
6. 28	43. 0	3. 55	·1016	5. 15	·01067			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 4 h m	° ′ ″	July 4 h m		July 4 h m		h m	°	°
8. 41	21. 42. 30	4. 10	·1016	6. 25	·01028			
9. 0	41. 45	4. 40	·1014	8. 14	·01013			
9. 58	42. 30	5. 30	·1016	8. 36	·01030			
10. 18	41. 0	6. 52	·1019	9. 9	·01012			
10. 54	42. 15	9. 12	·1012	10. 43	·01014			
12. 40	43. 5 ***	10. 55	·1010	11. 32	·01040			
		12. 23	·1015	13. 41	·01270			
16. 17	43. 10 ***	14. 4	·1022	18. 28	{·01930 ·01842			
		16. 22	·1028					
16. 45	43. 0 ***	17. 12	·1027	21. 13	·01856			
		18. 53:	·1031	23. 0	·01873			
17. 33	44. 0	20. 30	·1026	23. 59	·01837			
21. 10	38. 40	22. 3	·1018					
23. 2:	44. 10	23. 59	·1015					
23. 59	45. 0							
July 5		July 5		July 5		July 5		
0. 0	21. 45. 0	0. 0	·1015	0. 24	·01773	1. 40	66·0	66·5
1. 52	48. 15	2. 20	·1021	3. 9	·01510	3. 40	68·0	68·0
3. 47	47. 55	4. 0	·1022	5. 15	·01206	9. 40	69·5	70·0
7. 40	42. 15	4. 58	·1018	6. 47	{·01023 ·01104	22. 15	65·0	66·0
9. 25	42. 40 ***	5. 9	·1016					
		5. 20	·1018 ***	10. 30	·01056			
11. 8	44. 5 ***	7. 0	·1020 ***	11. 24	·01072			
				14. 15	·01382			
11. 45	43. 0 ***	7. 32	·1024 ***	15. 22	·01828			
				18. 13	{·01900 ·01872			
12. 27	44. 0							
16. 8	42. 55	8. 30	·1022	19. 27	·01856			
17. 47	41. 30	9. 7	·1023	20. 41	·01882			
19. 2	41. 40	10. 40	·1021	23. 22	·01860			
21. 35	42. 15	10. 52	·1025					
23. 29	44. 30	11. 12	·1020					
		14. 10	·1020					
		15. 7	·1027					
		15. 50	·1030					
		16. 25	·1032					
		16. 55	·1037					
		19. 25	·1041 (†)					
		21. 52	·1022					
		22. 7	·1020					
		22. 22	·1015					
		23. 59	·1016					
July 6		July 6		July 6		July 6		
0. 2	21. 46. 45	0. 0	·1016	0. 0	·01798	9. 40	71·5	73·0
0. 54	48. 35		***	0. 59	·01707	21. 40	63·0	64·3
1. 18	48. 55	4. 0	·1000	1. 34	·01604			
2. 46	47. 55		***	3. 47	{·01122 ·01190			
3. 44	46. 25	7. 35	·1009					
4. 15	46. 20 ***	8. 27:	·1011	5. 43	·01142			
		10. 0	·1018 ***	6. 26	·01136			
6. 48	43. 40 ***			7. 32	·01086			
		14. 27	·1031	9. 0	·01073			
8. 30	43. 0 ***	14. 33	·1024	10. 4	·01116			
		14. 37	·1032	11. 18	·01210			
11. 43	44. 30 ***	17. 30	·1040	12. 12	·01311			

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 6	° ′ ″	July 6		July 6		h m	°	°
h m		h m		h m				
14. 36	21. 44. 35	19. 40	·1042	13. 12	·01457			
15. 26	44. 20	20. 6	·1040	14. 44	·01730			
16. 5	44. 20		(†)	15. 40	{ ·01912			
16. 39	42. 40	21. 40	·1020*		{ ·01850			
17. 12	42. 40			17. 57	·01866			
17. 41	41. 15			18. 29	·01857			
18. 0	41. 20			20. 8	·01860			
18. 30	40. 0			21. 30	·01872			
19. 17	38. 55			23. 59	·01840			
21. 31	41. 40							
23. 59	47. 5							
July 7		July 7		July 7		July 7		
0. 0	21. 47. 15		(†)		(†)	1. 40	64 ·6	65 ·0
0. 35	50. 50	1. 47	·1018	1. 1	·01847	3. 40	64 ·6	65 ·0
1. 35	53. 40		***	2. 18	·01866	9. 40	64 ·5	66 ·0
	***	3. 8	·1037		{ ·01898	21. 40	57 ·4	59 ·0
4. 33	52. 15	3. 20	·1033	2. 49	{ ·01843			
8. 2	46. 45	3. 31	·1035	5. 13	·01870			
8. 30	47. 30	3. 54	·1027	6. 7	·01860			
9. 6	45. 30	4. 36	·1046	7. 55	·01857			
9. 39	43. 20	5. 4	·1034	8. 30	·01840			
10. 2	42. 50	5. 19	·1044	9. 17	·01864			
10. 17	44. 30	5. 47	·1036	14. 9	·01837			
10. 47	43. 25	6. 33	·1048	14. 55	·01816			
11. 10	45. 5	7. 10	·1045	17. 20	·01820			
	***	8. 52	·1047	19. 28	·01747			
13. 16	44. 30	9. 40	·1046	21. 52	·01740			
	***	9. 57	·1050	22. 7	·01637			
13. 49	46. 0	10. 51	·1042	22. 54	·01670			
14. 7	44. 20	11. 3	·1047	23. 13	·01660			
	***	11. 18	·1041	23. 46	·01700			
14. 16	45. 45	13. 47	·1045					
	***	14. 30	·1041					
15. 15	45. 25	15. 45	·1039					
	***	16. 52	·1044					
15. 37	45. 50	17. 28	·1033					
	***	18. 33	·1044					
16. 43	44. 30	20. 15	·1040					
	***	22. 30	·1031					
17. 13	45. 15	23. 17	·1028					
	***	23. 59	·1036					
18. 11	52. 10							
	***							
18. 40	51. 0							
	***							
19. 43	43. 30							
	***							
20. 12	43. 0							
	***							
20. 40	45. 10							
	***							
21. 16	43. 50							
	***							
22. 55	47. 0							
	***							
23. 59	46. 15							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 8	° ′ ″	July 8		July 8		July 8	°	°
h m		h m		h m		h m		
0. 0	21. 46. 15	0. 0	·1036	0. 7	·01690	1. 40	58 ·0	59 ·0
2. 4	51. 0	0. 12	·1034	3. 55	·01755	3. 40	58 ·0	58 ·0
4. 5	49. 5	0. 28	·1037	6. 18	·01737	9. 40	59 ·0	59 ·7
4. 22	50. 0	0. 50	·1030	10. 43	·01650	21. 40	56 ·0	56 ·6
4. 42	48. 50	3. 5	·1044	11. 40	·01642			
5. 43	47. 10	3. 30	·1042	12. 28	·01550			
8. 13	45. 0	3. 45	·1050	12. 53	·01556			
8. 47	45. 45	3. 57	·1051	14. 24	·01620			
9. 18	41. 0	4. 12	·1045	15. 29	·01670			
9. 47	40. 20	4. 47	·1043	16. 38	·01691			
10. 3	42. 15	5. 19	·1046		{ ·01737			
10. 34	41. 20	5. 26	·1042	17. 41	{ ·01662			
11. 15	42. 30	5. 38	·1044	19. 0	·01691			
11. 31	43. 50	5. 47	·1038		{ ·01678			
11. 37	47. 0	6. 6	·1038	19. 21	{ ·01470			
11. 46	46. 20	6. 16	·1042	20. 55	·01567			
11. 56	49. 35	6. 28	·1043	21. 35	·01580			
12. 37	41. 10	6. 34	·1046	22. 32	·01621			
12. 57	41. 35	6. 49	·1046	23. 33	·01599			
13. 36	38. 35	6. 58	·1050	23. 59	·01560			
15. 6	43. 40	7. 27	·1042					
16. 45	44. 45	7. 54	·1048					
	***	8. 20	·1042					
18. 6	40. 0	8. 25	·1046					
18. 16	41. 0	8. 44	·1044					
18. 35	39. 10	8. 52	·1048					
	***	9. 7	·1038					
19. 32	39. 30	10. 5	·1044					
	***	10. 21	·1042					
20. 35	42. 0	10. 36	·1037					
20. 48	41. 0	10. 52	·1040					
	***	11. 0	·1040					
22. 20	41. 20	11. 25	·1046					
22. 30	43. 30	11. 34	·1038					
23. 59	45. 30	11. 51	·1060					
		12. 17	·1049					
		12. 28	·1050					
		13. 22	·1036					
		15. 26	·1038					
		15. 52	·1035					
		16. 28	·1037					
		16. 52	·1036					
		17. 20	·1040					
		17. 28	·1036					
		17. 46	·1036					
		18. 30	·1034					
		18. 52	·1037					
		21. 0	·1023					
		21. 37	·1028					
		21. 45	·1026					
		22. 27	·1028					
		22. 45	·1024					
		23. 27	·1021					
		23. 55	·1020					
July 9		July 9		July 9		July 9		
0. 0	21. 45. 30	0. 12	·1024	0. 48	·01521	1. 40	60 ·0	60 ·0
0. 43	47. 5	0. 43	·1025	2. 0	·01390	3. 40	62 ·0	62 ·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.
July 9		July 9		July 9		July 9		
h m	° ′ ″	h m		h m		h m	°	°
1. 3	21. 48. 0	0. 52	·1028	2. 56	·01220	9. 40	63 ·0	64 ·0
3. 53	47. 30	1. 30	·1019	3. 40	·00920*	21. 40	60 ·8	59 ·8
4. 32	46. 20	2. 55	·1025	9. 40	·00722*			
	(†)		(†)	9. 52	·00737			
8. 43	44. 45	3. 40	·1026*	10. 57	·00772			
10. 6	43. 40	9. 50	·1034	11. 0	·00790			
11. 15	45. 0	10. 51	·1031	13. 56	·00797			
12. 15	44. 0	14. 16	·1042	15. 22	·00868			
13. 15	44. 15	14. 52	·1038	16. 25	·00972			
13. 42	46. 0	15. 50	·1040	18. 25	·01240			
14. 20	43. 10	16. 12	·1040	20. 21	·01510			
15. 28	43. 0	16. 24	·1044	20. 56	·01566			
16. 17	44. 5	17. 27	·1037	21. 43	·01606			
17. 7	42. 0	17. 52	·1039	23. 5	·01569			
17. 20	43. 0	18. 44	·1030	23. 43	·01500			
17. 54	41. 30	19. 7	·1035					
18. 21	40. 45	19. 45	·1032					
18. 37	41. 30	20. 0	·1033					
19. 25	42. 50	20. 33	·1023					
19. 48	41. 10	21. 30	·1016					
20. 5	42. 25	21. 49	·1016					
20. 47	42. 30	21. 52	·1019					
21. 3	43. 10	21. 57	·1018					
21. 25	41. 50	22. 52	·1018					
21. 45	44. 15	23. 30	·1012					
	***	23. 59	·1011					
23. 59	46. 40							
July 10		July 10		uly 10		July 10		
0. 0	21. 46. 45	0. 0	·1011	0. 18	·01476	1. 40	64 ·0	64 ·0
0. 36	47. 50	0. 39	·1014	1. 40	·01252	3. 40	61 ·7	62 ·0
0. 47	47. 15	0. 52	·1018	2. 59	·00912	9. 40	70 ·0	70 ·0
1. 18	48. 0	1. 33	·1013	3. 19	·00982	21. 40	64 ·4	65 ·0
1. 34	47. 30	1. 52	·1025	5. 21	·01057			
1. 57	48. 30	2. 26	·1015	5. 53	·01057			
	***	3. 22	·1024	8. 4	·01080			
4. 8	47. 30	3. 49	·1020	9. 8	·01067			
4. 24	46. 5	4. 14	·1010	11. 12	·01038			
4. 42	47. 10		***	14. 0	·01113			
5. 40	45. 30	4. 28	·1020	14. 55	·01207			
7. 5	45. 0		***	18. 45	·01650			
8. 0	43. 30	4. 43	·1013	20. 15	·01828			
8. 10	43. 40	5. 9	·1016	21. 17	·01896			
8. 42	41. 5	5. 28	·1012	22. 16	·01928			
9. 43	43. 0	5. 56	·1013	23. 32	·01890			
10. 40	38. 35	6. 5	·1016					
11. 14	41. 20	6. 27	·1014					
11. 40	39. 20	6. 42	·1018					
12. 29	43. 0	7. 35	·1014					
13. 20	41. 50	7. 51	·1019					
14. 13	43. 30	8. 26	·1015					
14. 32	43. 0	8. 52	·1018					
14. 48	45. 20	9. 45	·1016					
15. 53	42. 0	10. 7	·1018					
16. 0	42. 50	10. 27	·1011					
16. 23	41. 5	11. 5	·1018					
16. 35	43. 40	11. 30	·1009					
16. 47	42. 30	12. 40	·1015					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V.F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H.F. Magnet.	Of V.F. Magnet.
July 10		July 10						
h m	° ′ ″	h m		h m		h m	°	°
18. 27	21. 39. 30	12. 52	·1018					
18. 58	41. 0	13. 22	·1017					
19. 20	42. 50	14. 0	·1021					
	***	14. 23	·1023					
20. 10	42. 30	14. 52	·1020					
	***	15. 55	·1024					
20. 51	37. 55	16. 12	·1023					
21. 10	41. 5	16. 24	·1025					
	***	16. 44	·1021					
21. 40	40. 30	17. 35	·1034					
23. 59	46. 55	18. 7	·1034					
		18. 37	·1029					
		19. 7	·1028					
		19. 45	·1015					
			***					
		20. 27	·1015					
			***					
		20. 52	·1016					
		21. 7	·1020					
		21. 54	·1018					
		22. 12	·1018					
			***					
		23. 0	·1018					
		23. 55	·1016					
		23. 59	·1017					
July 11		July 11		July 11		July 11		
0. 0	21. 47. 0	0. 0	·1017	0. 0	·01878	1. 40	66 ·0	66 ·4
	***	0. 6	·1016	0. 32	·01857	3. 40	68 ·0	68 ·0
1. 7	48. 50	0. 25	·1016	2. 28	·01699	9. 40	69 ·8	70 ·4
	***		***	5. 6	·01333	21. 40	65 ·2	66 ·0
3. 32	48. 40	1. 13	·1021	6. 18	{·01103			
4. 55	45. 10	1. 51	·1021		{·01170			
10. 39	45. 0	2. 4	·1024	9. 0	·01092			
11. 47	44. 30	2. 14	·1030	9. 8	·01109			
12. 0	43. 30	2. 28	·1027	10. 44	·01090			
12. 57	43. 35	3. 15	·1023	11. 18	·01093			
13. 12	42. 25	3. 36	·1028	13. 26	·01250			
13. 31	42. 30	3. 43	·1019	14. 43	·01390			
13. 57	44. 20		***	16. 18	·01580			
14. 40	42. 40	4. 40	·1019	17. 0	·01702			
15. 20	45. 15		***	19. 44	{·02030			
	***	5. 0	·1023		{·01903			
17. 0	43. 10		***	23. 17	·01936			
	***	5. 12	·1023	23. 48	·01910			
20. 38	42. 15		***					
	***	5. 52	·1018					
22. 33	44. 5		***					
	***	6. 7	·1022					
23. 59	47. 45		***					
		6. 30	·1018					
			***					
		6. 52	·1021					
			***					
		7. 30	·1022					
			***					
		7. 43	·1030					
			***					

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	° ′ ″	July 11 h m		h m		h m	°	°
		7. 52	·1026 ***					
		11. 21	·1020 ***					
		11. 30	·1027 ***					
		14. 30	·1027 ***					
		15. 44	·1026 ***					
		17. 52	·1032 ***					
		20. 37	·1027 ***					
		23. 59	·1014					
July 12		July 12		July 12		July 12		
0. 0	21. 47. 45	0. 0	·1014 ***	0. 12	·01902	1. 40	67 ·0	67 ·4
1. 2:	50. 20			1. 13	·01881	3. 40	68 ·0	68 ·4
2. 30	47. 0	0. 57	·1017 ***	3. 56	·01673	9. 40	68 ·5	69 ·0
4. 0	46. 50			4. 4	·01560	23. 13	63 ·0	64 ·0
4. 31	46. 5	3. 13	·1030 ***	4. 22	·01543			
5. 16	46. 45				·01496			
5. 47	45. 40	4. 22	·1026 ***	5. 41	·01437			
6. 5	46. 40			7. 10	·01357			
6. 55	46. 45	5. 26	·1014 ***	9. 9	·01331			
9. 46	44. 50			9. 55	·01337			
10. 16:	42. 20	5. 40	·1018 ***	10. 58	·01328			
10. 45	45. 0			14. 16	·01437			
11. 0	44. 30	5. 52	·1016 ***	15. 32	·01526			
11. 16	45. 30			17. 9	·01718			
11. 33	44. 10 ***	7. 15	·1023 ***	17. 22	·01724			
				18. 9	·01822			
13. 55	44. 10	9. 50	·1022 ***	18. 55	·01866			
14. 17	43. 45				·01837			
16. 30	44. 55	10. 0	·1020 ***	21. 35	·01837			
16. 47	43. 30			23. 33	·01847			
17. 30	42. 40	10. 22	·1026 ***					
17. 42	43. 10 ***							
		12. 15	·1022					
18. 47	42. 20 ***	12. 30	·1025					
		15. 12:	·1028					
19. 17	40. 45 ***	16. 15	·1026					
		17. 0	·1027					
20. 13	40. 50	18. 5	·1024					
20. 39	39. 30	18. 45	·1026					
21. 18	40. 55	20. 0	·1022					
22. 55	43. 30	20. 58	·1021					
23. 59	48. 0	22. 44	·1013					
		23. 59	·1011					
July 13		July 13		July 13		July 13		
0. 0	21. 48. 0	0. 0	·1011	0. 0	·01820	8. 0	68 ·0	68 ·5
0. 10	48. 0	0. 22	·1015	0. 56	·01762	21. 40	64 ·0	64 ·2
0. 20	49. 30 ***	0. 45	·1009	1. 15	·01732			
		1. 28	·1015	2. 0	·01692			
1. 18	49. 30 ***	1. 51	·1015	3. 7	·01590			
		2. 10	·1022	3. 46	·01512			
1. 45	48. 5	2. 30	·1025	4. 43	·01383			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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	° ′ ″	July 13 h m		July 13 h m		h ′ m	°	°
2. 17	21. 47. 50	3. 7	·1030	5. 45	·01193			
2. 58	48. 50	3. 14	·1038	6. 56	·01006			
3. 9	50. 0	4. 0	·1015	7. 41	·00940			
3. 23	48. 40	4. 9	·1018		·01010			
4. 42	47. 35	4. 44	·1015	9. 43	·00957			
7. 26	46. 15	5. 10	·1016	12. 13	·01010			
8. 11	43. 0	5. 50	·1015	14. 2	·01136			
8. 24	43. 55	6. 30	·1023	17. 12	·01426			
8. 32	42. 20	6. 40	·1028	19. 43	·01662			
8. 40	43. 5	7. 10	·1023	21. 43	·01750			
12. 4	44. 40	7. 21	·1023	22. 27	·01748			
12. 38	43. 30	7. 30	·1018	23. 55	·01672			
12. 54	45. 0	8. 14	·1034					
13. 28	44. 30	8. 34	·1032					
13. 40	46. 30	8. 37	·1036					
13. 49	46. 30	8. 59	·1030					
14. 15	44. 20	10. 18	·1022					
14. 36	45. 30	12. 57	·1028					
14. 59	45. 30	13. 30	·1027					
15. 31	48. 20	13. 58	·1035					
16. 33	47. 20	14. 52	·1030					
16. 52	44. 20	15. 35	·1031					
17. 41	40. 40 ***	16. 5	·1032					
		16. 24	·1034					
20. 3	41. 20	16. 37	·1037					
21. 47	43. 20	17. 7	·1034					
23. 59	50. 20	19. 0	·1031					
		20. 30	·1022					
		21. 59	·1021					
		23. 59	·1011					
July 14		July 14		July 14		July 14		
0. 0	21. 50. 30	0. 0	·1011	1. 46	·01645	1. 40	66 ·0	66 ·2
1. 15	51. 40	0. 12	·1009	2. 51	·01522	3. 40	66 ·5	67 ·0
3. 10	47. 50	0. 36	·1021	3. 48	·01416	9. 40	69 ·0	69 ·0
3. 48	48. 0	1. 10	·1028	6. 22	·01056	21. 40	66 ·0	66 ·5
4. 0	46. 50	1. 34	·1024	6. 58	·01198			
5. 0	44. 50	2. 52	·1046		·01356			
5. 31	44. 50	3. 2	·1042	8. 3	·01018			
5. 52	44. 20	3. 9	·1050	9. 35	·01016			
8. 40	45. 30	3. 19	·1033	10. 2	·01034			
9. 33	44. 15	3. 40	·1040	11. 26	·01018			
10. 56	45. 20	3. 51	·1025	14. 52	·01086			
12. 20	44. 0	4. 12	·1031	17. 7	·01256			
12. 41	44. 55	4. 57	·1026	18. 40	·01397			
13. 10	43. 30	5. 30	·1032	19. 50	·01510			
13. 40	46. 10	5. 50	·1032	21. 11	·01598			
13. 55	42. 55	6. 14	·1025	22. 43	·01576			
14. 30	44. 30	6. 45	·1024	23. 48	·01527			
14. 58	41. 10	6. 54	·1028					
15. 13	42. 20	7. 11	·1024					
16. 6	42. 30	7. 29	·1028					
16. 13	40. 30	7. 40	·1027					
16. 38	42. 20	8. 28	·1024					
16. 44	44. 0	10. 36	·1028					
17. 2	40. 20	10. 52	·1033					
17. 18	42. 20	12. 28	·1030					
18. 29	43. 30	12. 37	·1033					

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 14		July 14						
h m	° ′ ″	h m		h m		h m	°	°
18. 49	21. 45. 20	12. 45	·1029					
19. 14	45. 30	13. 10	·1032					
20. 18	42. 15	13. 22	·1039					
21. 15	41. 30	14. 17	·1031					
22. 35	42. 35	14. 44	·1037					
23. 36	46. 5	14. 52	·1032					
23. 59	48. 30	15. 52	·1034					
		16. 0	·1038					
		16. 7	·1032					
		16. 30	·1032					
		16. 36	·1037					
		16. 54	·1029					
		17. 4	·1032					
		18. 14	·1022					
		18. 30	·1019					
		19. 15	·1024					
		19. 52	·1026					
		23. 25	·1021					
		23. 45	·1019					
July 15		July 15		July 15		July 15		
0. 0	21. 48. 30	0. 33	·1016	0. 10	·01492	1. 40	67 ·0	67 ·0
0. 17	50. 15	2. 30	·1027	2. 0	·01439	3. 40	69 ·0	69 ·3
2. 29	53. 30	2. 51	·1020	2. 51	·01362	9. 40	73 ·0	73 ·0
3. 9	52. 30	3. 15	·1019	3. 28	·01284	21. 40	66 ·2	67 ·0
3. 20	50. 20	3. 36	·1028	4. 24	·01078			
4. 0	50. 20	4. 22	·1018	4. 32	·01180			
5. 40	46. 15	5. 16	·1027	4. 45	·01151			
7. 10	46. 0	5. 38	·1022	5. 17	·01141			
7. 27	46. 15	5. 52	·1024	5. 23	·01250			
8. 0:	45. 55	6. 4	·1018	5. 46	·01177			
12. 30	45. 55	6. 34	·1022	6. 15	·01152			
12. 43	44. 45	7. 0	·1020	8. 24	·01116			
13. 13	46. 0	7. 22	·1022	10. 36	·01118			
14. 18	43. 50	8. 12	·1020	11. 27	·01096			
16. 0	44. 30	8. 40	·1022	14. 26	·01175			
16. 15	45. 55	9. 20	·1020	15. 14	·01268			
16. 27	45. 0	12. 15	·1022	17. 3	·01480			
16. 42	46. 30	12. 40	·1030	18. 55	·01748			
17. 0	44. 30	15. 19	·1028	19. 45	·01882			
18. 47	42. 0	16. 37	·1032	20. 26	·01950			
20. 20	42. 45	17. 5	·1037	20. 32	·01896			
20. 47	44. 30	21. 0	·1030	23. 59	·01868			
21. 30	44. 0	21. 45	·1026					
	***	22. 25	·1026					
23. 59	49. 55	23. 45	·1020					
		23. 52	·1024					
		23. 59	·1021					
July 16		July 16		July 16		July 16		
0. 0	21. 45. 5	0. 0	·1021	0. 27	·01860	1. 40	65 ·4	66 ·2
1. 13	51. 30	0. 20	·1028	2. 22	·01892	3. 40	67 ·0	67 ·5
3. 0	51. 30	0. 39	·1024	2. 59	·01918	9. 40	65 ·8	66 ·6
3. 42	48. 45	0. 52	·1027	4. 10	·01877	21. 40	60 ·4	61 ·2
4. 59	46. 30		***	4. 53	·01820			
9. 52	45. 30	2. 9	·1034	6. 58	·01702			
10. 24	43. 30	2. 15	·1023	8. 9	·01662			
10. 43	44. 40		***	9. 0	·01650			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 16		July 16		July 16				
h m	° ′ ″	h m		h m		h m	°	°
12. 36	21. 43. 25	2. 35	·1041	10. 15	·01672			
13. 25	44. 30		***	11. 6	·01713			
13. 57	44. 10	2. 50	·1039	13. 18	·01929			
14. 24	44. 30		***	13. 23	·01830			
	***	2. 55	·1049	15. 17	·01837			
17. 40	43. 0	3. 7	·1035	16. 43	·01843			
	***	3. 22	·1036	19. 54	·01800			
20. 1	39. 25	3. 34	·1029	21. 25	·01828			
21. 23	41. 25	3. 49	·1036	21. 41	·01844			
	***	3. 55	·1032	22. 30	·01849			
23. 10	47. 5	4. 6	·1036	23. 28	·01756			
23. 43	47. 30	4. 21	·1036	23. 59	·01680			
23. 50	49. 0	4. 35	·1039					
23. 59	48. 0	5. 19	·1032					
		5. 52	·1031					
		6. 2	·1036					
		6. 7	·1034					
		6. 15	·1036					
		6. 20	·1032					
		6. 37	·1036					
		7. 10	·1031					
		7. 36	·1036					
		8. 0	·1032					
		8. 22	·1039					
		8. 34	·1036					
		8. 40	·1040					
		8. 45	·1037					
		9. 12	·1031					
		9. 17	·1034					
		9. 52	·1036					
		10. 7	·1032					
		10. 45	·1036					
		11. 42	·1040					
		11. 52	·1044					
		12. 15	·1038					
		13. 9	·1036					
		13. 24	·1040					
		13. 30	·1037					
		14. 0	·1037					
		15. 55	·1040					
		16. 25	·1038					
		17. 7	·1040					
		18. 0	·1036					
		19. 7	·1036					
		19. 52	·1028					
		20. 17	·1032					
		21. 52	·1018					
		23. 16	·1019					
July 17		July 17		July 17		July 17		
0. 0	21. 48. 0	0. 15	·1032	0. 26	·01632	1. 40	64 ·0	64 ·2
1. 46	51. 50	1. 37	·1026	1. 40	·01422	3. 40	65 ·3	66 ·3
5. 54	44. 50	1. 40	·1026	3. 46	·00918	9. 40	68 ·0	69 ·0
	***	1. 57	·1024	3. 47	·00950	21. 40	62 ·5	63 ·0
6. 28	45. 50	2. 50	·1026	5. 59	·01005			
	***	3. 8	·1030	7. 31	·01008			
7. 36	43. 30	3. 37	·1026	9. 41	·00968			
8. 30	43. 55	4. 10	·1032	10. 26	·00932			

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 17		July 17		July 17		h m	°	°
h m	° ′ ″	h m		h m				
8. 47	21. 42. 15	4. 35	·1026	11. 18	·00955			
9. 31	43. 0	4. 58	·1032	12. 3	·01030			
9. 56	36. 0	5. 22	·1030	14. 28	·01396			
10. 32	37. 0	5. 42	·1032	15. 32	·01610			
11. 0	40. 55	5. 54	·1027	17. 7	{·01880			
11. 14	40. 0	5. 59	·1013		{·01793			
11. 40	42. 50	7. 4	·1023	19. 46	·01803			
	***	7. 22	·1017	20. 48	·01810			
12. 50	44. 10	8. 7	·1023	21. 39	·01833			
13. 2	43. 30	8. 44	·1019	23. 28	·01790			
	***	9. 7	·1024					
13. 46	45. 20	9. 16	·1022					
14. 47	42. 50	9. 37	·1028					
15. 15	45. 25	9. 46	·1027					
15. 44	44. 30	10. 10	·1036					
16. 15	42. 0	11. 7	·1020					
	***	11. 15	·1023					
17. 27	42. 0	11. 23	·1020					
	***	11. 50	·1026					
17. 58:	43. 10	12. 6	·1022					
	***	13. 12	·1030					
19. 32	41. 15	13. 44	·1034					
19. 52	42. 35	14. 3	·1037					
21. 18	41. 55	14. 13	·1034					
	***	14. 27	·1038					
23. 59	47. 30	14. 41	·1032					
		15. 15	·1035					
		15. 35	·1042					
		17. 30	·1046					
		18. 3	·1044					
		18. 51	·1049					
		19. 9	·1048					
		19. 33	·1049					
		20. 22	·1044					
		21. 12	·1036					
		23. 59	·1037					
July 18		July 18		July 18		July 18		
0. 0	21. 47. 30	0. 0	·1037	0. 0	·01766	1. 40	63·0	64·0
1. 36:	50. 30	2. 20	·1050	2. 32	·01638	3. 40	64·5	64·9
2. 55	51. 15	3. 27	·1052	5. 40	·01392	9. 40	66·3	68·0
5. 0	47. 20	5. 30	·1040	8. 14	·01121	21. 40	62·0	62·0
7. 25	45. 5	7. 35	·1041	9. 0	·01021			
10. 50	44. 55	7. 45	·1044	10. 0	{·00936			
11. 10	44. 0	8. 28	·1046		{·00990			
12. 17	45. 10	8. 56	·1044	12. 27	·00930			
	***	9. 8	·1046	13. 15	·00971			
15. 52	43. 30	10. 25	·1042	13. 58	·01000			
	***	10. 40	·1044	16. 22	·01297			
16. 44	45. 0	10. 52	·1043	18. 18	·01562			
18. 7	40. 40	11. 10	·1045	19. 40	·01700			
18. 44	41. 30	13. 54	·1044	19. 45	·01661			
19. 28	39. 20	14. 7	·1046	21. 27	·01737			
	***	14. 32	·1042	22. 46	·01670			
22. 47	43. 30	15. 7	·1045	23. 47	·01556			
23. 59	47. 30	15. 50	·1044					
		16. 58	·1048					
		18. 10	·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.
h m	° ′ ″	July 18 h m		h m		July 19 h m	°	°
		18. 25	·1046					
		21. 5	·1041					
		22. 40	·1032					
		23. 59	·1028					
July 19		July 19		July 19		July 19		
0. 0	21. 47. 30	0. 8	·1027	0. 52	·01446	1. 40	66·7	68·0
1. 10	50. 30	1. 13	·1026	2. 13	·01110	3. 40	70·5	71·0
1. 43	50. 0	1. 26	·1024	2. 59	·01110	9. 40	64·0	65·0
	(†)	2. 20	·1028	3. 12	·01112	23. 13	67·0	68·0
2. 47	48. 55	2. 30	·1030	3. 32	·01138			
3. 42	47. 45	5. 12	·1032	3. 45	·01139			
4. 27	47. 35	5. 40	·1029	4. 22	·01200			
5. 31	46. 50	5. 55	·1032	12. 2	·01142			
5. 50	47. 0	6. 25	·1028	12. 52	·01420			
9. 39	44. 40	6. 30	·1031	14. 28	·01193			
10. 32	44. 35	6. 40	·1029	15. 44	·01288			
11. 18	45. 10	7. 25	·1029	20. 10	·01728			
11. 26	44. 45	7. 35	·1032	22. 10	·01910			
13. 17:	44. 40	8. 7	·1028	23. 25	·02000			
15. 40	45. 10	8. 22	·1032					
16. 22	44. 40	8. 53	·1028					
17. 34	44. 30	9. 5	·1030					
20. 46	42. 10	9. 25	·1028					
	(†)	9. 40	·1028					
23. 13	43. 57*	9. 50	·1031					
		10. 8	·1028					
		10. 14	·1029					
		10. 30	·1026					
		11. 30	·1027					
		14. 15	·1030					
		15. 3	·1038					
		15. 12	·1036					
		17. 30	·1034					
		17. 55	·1032					
		18. 58	·1034					
		20. 0	·1030					
		20. 22	·1027					
		20. 36	·1027					
		21. 30	·1025					
		22. 25	·1024					
		23. 22	·1027					
		23. 59	·1030					
July 20		July 20		July 20		July 20		
0. 0	21. 47. 20	0. 0	·1030	0. 0	·01936	7. 0	70·0	70·4
2. 13	51. 45	1. 35	·1029	3. 25	·01920	21. 40	65·0	66·3
4. 44	48. 30	1. 50	·1031	3. 55	·01902			
7. 36	47. 10	3. 37	·1029	4. 34	·01915			
8. 6	46. 50	4. 45	·1034	6. 5	·01920			
9. 16	46. 50	5. 18	·1040	7. 57	·01879			
10. 30	47. 45	5. 25	·1037	8. 22	·01889			
10. 51	46. 20	5. 37	·1038	9. 0	·01882			
11. 0	47. 30	5. 52	·1038	10. 35	·01890			
12. 10	44. 50	7. 0	·1042	11. 34	·01856			
14. 53	45. 30	7. 33	·1038		(†)			
15. 22	46. 0	7. 55	·1042	16. 6	·01902			
20. 17	42. 50	10. 0	·1037	17. 5	·01859			

July 20. The Register for the Declination Magnet was faint, and the interruptions for determining the time-scale were indistinct; the times therefore are approximate only.

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 20 h m	° ′ ″	July 20 h m		July 20 h m		h m	°	°
22. 56	21. 43. 45	10. 12	·1036	18. 6	·01843			
		10. 22	·1038	19. 5	·01815			
		10. 43	·1037	20. 40	·01843			
		10. 54	·1041	22. 45	·01982			
		13. 15	·1035		(†)			
		15. 37	·1039					
		17. 12	·1043					
		18. 54:	·1045					
		20. 5	·1041					
			(†)					
		21. 40	·1031*					
July 21		July 21		July 21		July 21		
0. 25	21. 48. 35	0. 15	·1027	0. 24	·01828	1. 40	66 ·0	67 ·0
0. 57	50. 20	0. 23	·1023	2. 20	·01690	3. 40	67 ·0	68 ·0
1. 46	51. 30	0. 50	·1025	3. 26	·01560	9. 40	69 ·0	70 ·0
2. 52	51. 20	1. 21	·1030	6. 13	{·01030	21. 40	67 ·5	67 ·8
	***	1. 26	·1028		{·01082			
4. 48	49. 15	1. 40	·1030	8. 46	·01057			
6. 50	46. 20	2. 14	·1026	9. 14	·01068			
8. 50:	46. 0	3. 29	·1029	13. 15	·01033			
9. 55	46. 30	3. 37	·1034	15. 30	·01056			
11. 47	45. 55	3. 43	·1030	18. 8	·01206			
13. 0	45. 15	4. 0	·1028	19. 15	·01310			
	***	4. 15	·1034	21. 10	·01412			
15. 43	45. 0	4. 18	·1030	22. 48	·01412			
15. 49	45. 50	4. 30	·1035	23. 58	·01367			
16. 20	44. 35	4. 48	·1033					
18. 24	44. 0	4. 58	·1035					
18. 54	41. 55	5. 7	·1030					
19. 1	42. 20	5. 22	·1036					
19. 43	41. 30	5. 46	·1033					
19. 50	42. 10	6. 15	·1036					
20. 3	41. 5	6. 24	·1036					
20. 25	43. 0	6. 40	·1037					
20. 41	42. 40	7. 20	·1036					
21. 24	43. 30	8. 22	·1035					
21. 53	44. 5	8. 43	·1032					
22. 30	47. 30	9. 59	·1036					
23. 3	47. 50	10. 12	·1033					
23. 31	49. 20	10. 21	·1034					
23. 53	49. 0	11. 50	·1037					
		12. 18	·1037					
		13. 25	·1041					
		14. 15	·1040					
		14. 35	·1042					
		14. 40	·1042					
		15. 15	·1040					
		15. 27	·1041					
		16. 25	·1038					
		17. 45	·1041					
		18. 3	·1039					
		18. 10	·1041					
		18. 40	·1040					
		18. 58	·1042					
		20. 52	·1032					
		22. 5	·1023					
		22. 47	·1022					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 21 h m		h m		July 22 h m		
		22. 58	·1018					
		23. 59	·1017					
July 22		July 22		July 22		July 22		
0. 10	21. 48. 45	0. 0	·1017	0. 14	·01360	1. 40	71 ·0	71 ·3
1. 0	49. 30	2. 15	·1013	1. 14	·01272	3. 40	73 ·0	73 ·0
1. 49	51. 20	2. 31	·1015	2. 13	·01128	9. 40	72 ·0	73 ·0
2. 20	51. 15	2. 44	·1013	3. 49	{·01160	21. 40	67 ·0	68 ·0
3. 0	51. 10	3. 30	·1017		{·01287			
4. 35	49. 0	3. 57	·1026	4. 21	·01208			
5. 40	48. 50	4. 37	·1016	8. 57	·01137			
5. 52	49. 30	5. 36	·1018	10. 38	·01228			
6. 47	49. 20	5. 50	·1028	11. 40	·01350			
7. 57	48. 0	7. 0	·1018	14. 42	{·01952			
8. 54	48. 30	7. 22	·1027		{·01904			
10. 36	45. 10	7. 32	·1018	18. 10	·01878			
	***	7. 54	·1026	18. 38	·01860			
10. 55	42. 20	9. 26	·1029	19. 28	·01864			
	***	9. 51	·1037	21. 13	·01910			
14. 8	44. 50	10. 27	·1036	21. 44	·01897			
	***	10. 50	·1033	22. 44	·01752			
14. 36	42. 10	11. 15	·1036	23. 30	·01590			
14. 52	44. 55	13. 25	·1037	23. 53	·01452			
	***	13. 40	·1042					
15. 27	45. 10	14. 0	·1037					
	***	14. 9	·1040					
15. 48	42. 15	14. 24	·1034					
16. 38	40. 5	14. 43	·1036					
17. 43	41. 10	14. 55	·1041					
18. 16	45. 10	15. 24	·1043					
18. 20	45. 10	15. 50	·1034					
18. 36	46. 30	16. 52	·1042					
19. 1	46. 30	18. 7	·1036					
19. 14	47. 40	18. 37	·1043					
19. 39	48. 10	19. 24	·1032					
19. 58	46. 30	20. 22	·1032					
20. 13	46. 30	20. 54	·1033					
20. 28	47. 30	21. 18	·1024					
20. 40	46. 35	22. 45	·1011					
21. 48	44. 30	22. 55	·1012					
23. 22	47. 0	23. 59	·1000					
23. 59	47. 20							
July 23		July 23		July 23		July 23		
0. 0	21. 47. 30	0. 0	·0998	0. 43	·01270	1. 40	71 ·5	72 ·0
1. 6	47. 50		(†)	1. 13	{·01097	3. 40	74 ·0	75 ·0
1. 17	48. 30	1. 40	·1001*		{·01150	9. 40	77 ·0	78 ·2
3. 11	48. 0	3. 37	·1000	1. 45	·01155	21. 40	70 ·0	71 ·0
4. 6	46. 10		***	2. 6	·01243			
7. 17	44. 30	5. 10	·1004	3. 40	{·01274			
8. 6	43. 20	5. 52	·1002		{·01346			
8. 32	42. 0	7. 19	·1011	4. 10	·01290			
8. 53	42. 55	7. 30	·1015	5. 14	·01273			
9. 47	42. 30	8. 30	·1010		***			
10. 1	41. 30	8. 44	·1014	10. 52	·01248			
10. 13	42. 45	9. 52	·1008	11. 41	·01258			
10. 37	42. 0	10. 2	·1012	13. 59	·01420			

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 23 h m	° ′ ″	July 23 h m		July 23 h m		h m	°	°
11. 43	21. 42. 30	10. 34	·1010	16. 0	·01677			
15. 42	43. 50	10. 39	·1013	16. 42	·01787			
19. 56	41. 0	11. 38	·1011	17. 27	·01920			
20. 47	41. 30	12. 15	·1019	18. 19	·02050			
21. 45	41. 0	16. 30	·1030		·01995			
22. 17	44. 0	18. 34	·1036	20. 17	·02008			
23. 15	45. 50	18. 50	·1033		***			
23. 59	47. 30	19. 0	·1035	21. 0	·01983			
		20. 4	·1030		***			
		20. 57	·1028	22. 46	·01980			
		21. 55	·1022	23. 34	·01993			
			***	23. 39	·01976			
		23. 59	·1020	23. 59	·01972			
July 24		July 24		July 24		July 24		
0. 0	21. 47. 30		(†)		(†)	1. 40	71 ·0	71 ·5
2. 41	49. 30	1. 40	·1008*	1. 7	·01958	3. 40	72 ·0	72 ·3
3. 44	47. 55	2. 54	·1020	2. 33	·01952	9. 40	72 ·0	72 ·5
5. 28	47. 30	3. 27	·1018	4. 10	·01838	21. 40	64 ·0	65 ·3
6. 12	46. 50	4. 15	·1028	4. 49	·01758			
7. 14	47. 0	4. 32	·1026	6. 0	·01693			
7. 54	45. 35	4. 50	·1031	8. 24	·01693			
8. 27	46. 30	5. 15	·1030	10. 14	·01756			
9. 42	45. 50	5. 41	·1034	10. 55	·01811			
9. 57	46. 30	6. 0	·1027	11. 44	·01890			
11. 17	44. 35	6. 17	·1031	14. 11	·01928			
12. 10	44. 20	7. 10	·1029	14. 47	·01910			
12. 43	45. 35	8. 0	·1038	16. 44	·01907			
13. 14	44. 40	8. 20	·1037	18. 39	·01908			
13. 31	42. 50	8. 25	·1042	19. 11	·01913			
14. 27	43. 15	9. 0	·1040	19. 48	·01899			
14. 39	42. 50	9. 42	·1044	21. 43	·01890			
14. 57	43. 50	9. 52	·1049	22. 6	·01872			
15. 5	43. 10	10. 2	·1039	22. 24	·01828			
15. 30	43. 50	10. 10	·1045	23. 9	·01837			
15. 44	42. 55	10. 20	·1040	23. 59	·01810			
15. 52	43. 50	10. 39	·1046					
16. 7	43. 0	11. 8	·1044					
16. 24	44. 50	11. 19	·1049					
16. 35	44. 30	12. 10	·1041					
16. 59	46. 10	12. 15	·1049					
18. 0	43. 15	12. 21	·1046					
18. 10	43. 20	12. 36	·1045					
18. 36	42. 0	12. 52	·1046					
19. 45	42. 15	13. 10	·1042					
20. 2	41. 0	13. 45	·1046					
20. 43	41. 55	14. 4	·1044					
20. 55	41. 30	14. 50	·1045					
	***	15. 50	·1037					
21. 50	42. 30	16. 44	·1036					
23. 54	47. 55	16. 57	·1038					
23. 59	47. 50	17. 30	·1034					
		18. 22	·1032					
		18. 52	·1034					
		19. 20	·1031					
		21. 0	·1025					
		21. 43	·1022					
		22. 30	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	July 24 h m		h m		h m	°	°
		22. 45	·1021					
		23. 7	·1022					
		23. 26	·1019					
		23. 59	·1018					
July 25		July 25		July 25		July 25		
0. 0	21. 47. 50	0. 0	·1018		(†)	1. 40	65 ·0	66 ·0
1. 6	48. 20		***	1. 47	·01250	3. 40	68 ·0	69 ·0
	***	0. 20	·1016	2. 21	·01169	9. 40	69 ·0	69 ·3
1. 51	50. 0		***	5. 41	·01230	21. 40	62 ·0	63 ·0
	***	0. 52	·1022	7. 27	·01170			
5. 29	45. 15		***	8. 13	·01159			
	***	1. 20	·1017	9. 16	·01172			
8. 6	45. 0		***	10. 46	·01254			
	***	1. 32	·1017	11. 43	·01350			
10. 47	44. 30		***	13. 53	·01640			
	***	1. 53	·1019	15. 10	·01599			
11. 54	40. 30		***	18. 30	·01547			
	***	2. 12	·1017	22. 31	·01569			
12. 42	42. 35		***	23. 17	·01506			
	***	2. 40	·1018	23. 52	·01420			
14. 33	42. 10		***	23. 59	·01392			
	***	2. 51	·1020					
15. 20	43. 45		***					
	***	3. 6	·1019					
15. 58	48. 0		***					
	***	3. 18	·1022					
17. 3	42. 20		***					
	***	4. 9	·1025					
17. 45	41. 20		***					
18. 5	42. 0	4. 20	·1020					
19. 10	41. 10		***					
19. 23	42. 0	4. 30	·1024					
19. 46	41. 20		***					
20. 46	41. 45	4. 55	·1025					
21. 10	41. 15		***					
23. 1	43. 30	5. 30	·1022					
23. 23	44. 40		***					
23. 59	45. 20	6. 51	·1032					
			***					
		7. 40	·1034					
			***					
		9. 0	·1042					
			***					
		9. 41	·1043					
			***					
		10. 4	·1042					
			***					
		10. 15	·1044					
			***					
		10. 37	·1045					
			***					
		10. 51	·1049					
			***					
		11. 21	·1050					
			***					
		11. 39	·1051					
			***					

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 25 h m		h m		h m	°	°
		11. 52	·1049					
		12. 5	·1050					
		12. 49	·1048					
		13. 35	·1054 ***					
		15. 40	·1053 ***					
		15. 54	·1059 ***					
		16. 55	·1065 ***					
		17. 10	·1064 ***					
		17. 30	·1062 ***					
		18. 15	·1060 ***					
		18. 37	·1062 ***					
		18. 47	·1056 ***					
		19. 0	·1056 ***					
		19. 7	·1051 ***					
		19. 14	·1052 ***					
		19. 21	·1051 ***					
		19. 37	·1053 ***					
		19. 51	·1051 ***					
		20. 18	·1049 ***					
		20. 37	·1048 ***					
		21. 55	·1031 ***					
		22. 7	·1030 ***					
		22. 12	·1030 ***					
		22. 22	·1027 ***					
		22. 31	·1027 ***					
		22. 52	·1024 ***					
		23. 20	·1023 ***					
		23. 29	·1026 ***					
		23. 40	·1026 ***					
		23. 59	·1025					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 26 h m	° ′ ″	July 26 h m		July 26 h m		July 26 h m	°	°
0. 0	21. 45. 20	0. 0	·1026	0. 31	·01290	1. 40	66 ·8	67 ·3
1. 0	47. 0		***	1. 14	·01131	3. 40	69 ·0	69 ·4
1. 15	46. 50	0. 25	·1024	1. 41	·01119	9. 40	70 ·5	72 ·0
1. 47	48. 5		***	1. 55	·01138	23. 14	63 ·0	64 ·0
2. 39	48. 50	0. 45	·1014	1. 58	·01181			
2. 47	47. 45	1. 30	·1023	2. 5	·01166			
2. 58	48. 10	2. 0	·1037	3. 30	·01227			
3. 5	47. 50	2. 18	·1035	3. 48	·01230			
3. 31	48. 45	2. 27	·1030	4. 41	·01284			
3. 45	47. 55	2. 39	·1034	6. 9	·01296			
3. 58	45. 45	2. 48	·1032	6. 54	·01257			
4. 44	45. 30	3. 0	·1037	9. 58	·01241			
4. 59	46. 20	3. 25	·1036	12. 0	·01330			
5. 12	45. 10	3. 37	·1006	13. 20	·01437			
5. 37	44. 30	3. 52	·1008	13. 48	·01496			
6. 47	45. 35	4. 24	·1027	15. 7	·01710			
7. 15	44. 30	4. 38	·1029	19. 15	·01627			
7. 44	44. 50	4. 51	·1021	19. 45	·01612			
8. 16	42. 50	5. 25	·1022	21. 10	·01633			
8. 24	43. 25	5. 37	·1030	21. 58	·01608			
8. 39	43. 0	5. 51	·1032	23. 13	·01608			
8. 56	43. 30	5. 53	·1036	23. 41	·01570			
9. 42	42. 20	7. 10	·1040					
9. 50	43. 10	7. 30	·1045					
10. 2	42. 40	8. 20	·1046					
10. 11	43. 0	8. 32	·1042					
10. 41	41. 40	8. 52	·1045					
11. 10	44. 55	9. 20	·1043					
11. 16	43. 0	9. 35	·1045					
11. 21	44. 20	9. 54	·1044					
11. 45	42. 0	10. 3	·1047					
12. 2	44. 0	10. 34:	·1036					
12. 16	41. 30	11. 9	·1040					
12. 44	44. 30	11. 20	·1046					
13. 12	43. 30	11. 53	·1042					
13. 30	39. 10	12. 0	·1050					
14. 22	39. 0	12. 47	·1045					
14. 47	41. 30	13. 21	·1047					
15. 7	42. 0	13. 50	·1038					
15. 14	40. 30	14. 20	·1039					
15. 17	41. 55	14. 37	·1037					
15. 38	40. 30	15. 0	·1037					
15. 47	42. 30	15. 22	·1042					
16. 14	41. 25	15. 32	·1040					
16. 35	44. 15	15. 55	·1038					
16. 43	44. 5	16. 21	·1030					
16. 53	45. 10	16. 33	·1038					
17. 31	41. 55	17. 22	·1044					
17. 36	42. 50	17. 26	·1041					
17. 47	40. 50	18. 37	·1046					
18. 14	40. 0	19. 12	·1041					
18. 27	41. 20	19. 35	·1041					
18. 46	40. 30	20. 22	·1034					
19. 0	41. 5	20. 30	·1035					
19. 32	38. 45	21. 0	·1033					
19. 40	39. 30	21. 57	·1031					
19. 47	38. 10	22. 7	·1028					
19. 55	39. 0	22. 12	·1030					

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 26 h m	° ′ ″	July 26 h m		h m		h m	°	°
20. 5	21. 37. 40	22. 42	·1027					
20. 33	40. 40	23. 0	·1028					
20. 44	40. 30	23. 59	·1022					
22. 1	44. 30							
22. 40	44. 35							
23. 40	46. 0							
July 27		July 27		July 27		July 27		
0. 3	21. 45. 45	0. 0	·1022	0. 0	·01517	7. 44	67 ·0	68 ·0
1. 20	47. 50	0. 32	·1024	0. 43	·01410	21. 40	62 ·0	63 ·0
2. 14	47. 20	0. 55	·1017	2. 14	·01072			
2. 36	48. 0	1. 36	·1019	2. 51	·01127			
3. 0	47. 20	2. 15	·1031	8. 7	·01127			
3. 10	47. 30	2. 30	·1027	10. 16	·01250			
3. 20	47. 0	2. 54	·1032	13. 58	·01640			
3. 40	47. 10	3. 0	·1030	15. 45	·01629			
3. 59	46. 30	3. 9	·1030	18. 47	·01617			
4. 30	47. 0	3. 22	·1039	20. 19	·01639			
4. 39	46. 30	3. 30	·1037	20. 39	·01616			
5. 7	46. 30	3. 37	·1032	21. 17	·01629			
5. 40	45. 20	3. 52	·1032	23. 6	·01552			
7. 2	44. 30	4. 7	·1037	23. 59	·01412			
8. 34	42. 20	4. 18	·1035					
10. 55	43. 5	4. 50	·1042					
11. 18	39. 35	5. 10	·1042					
11. 30	41. 20	5. 22	·1036					
11. 44	40. 0	5. 35	·1032					
11. 59	33. 10	5. 46	·1035					
	***	6. 2	·1032					
12. 10	34. 40	6. 12	·1040					
12. 16	33. 40	6. 22	·1043					
	***	6. 55	·1044					
12. 40	38. 30	7. 20	·1045					
	***	8. 4	·1042					
13. 4	40. 5	8. 25	·1048					
13. 17	38. 40	8. 50	·1036					
14. 40	42. 15		***					
16. 25	42. 35	10. 7	·1045					
16. 48	43. 0	11. 0	·1041					
17. 9	42. 15	11. 15	·1048					
18. 10	42. 10	11. 40	·1044					
	***	11. 46	·1039					
19. 0	44. 20	11. 58	·1053					
20. 24	42. 30	12. 7	·1044					
21. 51	43. 0	12. 15	·1050					
23. 11	46. 15	12. 42	·1044					
23. 21	45. 55	12. 50	·1047					
23. 59	47. 20	12. 55	·1043					
		13. 22	·1046					
		13. 48	·1047					
		14. 7	·1043					
		15. 15	·1044					
		16. 37	·1046					
		16. 50	·1048					
		18. 7	·1043					
		19. 25	·1045					
		20. 4	·1041					
		22. 14	·1039					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 27 h m		h m		h m	°	°
		22. 30	·1042					
		22. 44	·1037					
		23. 15	·1030					
		23. 43	·1036					
		23. 59	·1036					
July 28		July 28		July 28		July 28		
0. 0	21. 47. 20	0. 0	·1035		(†)	1. 40	65 ·0	66 ·5
3. 6	51. 0	0. 45	·1038	1. 2	·01350	3. 40	68 ·5	69 ·0
4. 28	47. 0	2. 0	·1030	2. 19	·01127	9. 40	70 ·0	71 ·0
5. 58	47. 25	2. 34	·1024	2. 37	·01100	21. 40	65 ·5	66 ·0
7. 32	44. 30	3. 0	·1024	4. 22	·01218			
9. 31	44. 30	4. 7	·1022	6. 54	·01273			
10. 12	40. 50	4. 30	·1024	8. 27	·01267			
10. 58	44. 30	4. 52	·1020	9. 29	·01272			
11. 6	43. 10	5. 43	·1021	10. 32	·01249			
11. 55	45. 30	5. 55	·1017	11. 16	·01257			
16. 12	44. 45	6. 6	·1018		·01238			
19. 41	39. 50	6. 20	·1016	16. 13	·01778			
21. 36	41. 30	6. 45	·1019	20. 0	·01737			
23. 28	46. 30	7. 28	·1018	23. 15	·01722			
23. 59	48. 30	7. 40	·1022	23. 59	·01602			
		8. 50	·1024					
		9. 0	·1023					
		9. 7	·1026					
		9. 26	·1024					
		9. 47	·1027					
		9. 59	·1030					
		10. 15	·1037					
		10. 30	·1034					
		11. 12	·1037					
		11. 42	·1034					
		13. 0	·1034					
		17. 30	·1040					
		17. 45	·1038					
		18. 35	·1040					
		19. 52	·1031					
			***					
		21. 10	·1032					
			***					
		22. 52	·1018					
			***					
		23. 22	·1020					
		23. 30	·1016					
			***					
		23. 59	·1016					
July 29		July 29		July 29		July 29		
0. 0	21. 48. 45	0. 0	·1016		(†)	1. 40	70 ·0	70 ·3
1. 44	53. 30	0. 50	·1014	1. 0	·01450	3. 40	72 ·8	73 ·5
4. 46	45. 0	1. 20	·1015	2. 15	·01232	9. 40	75 ·0	75 ·8
7. 54	44. 0	1. 33	·1023	3. 18	·01296	21. 40	66 ·0	67 ·0
8. 11	42. 40	2. 15	·1014		·01460			
8. 39	44. 45	2. 38	·1012	3. 40	·01362			
9. 24	44. 35	2. 51	·1013		·01380			
10. 14	43. 0	3. 5	·1009	6. 43	·01350			
10. 21	43. 30	3. 36	·1014	10. 15	·01288			
10. 47	41. 25	3. 52	·1011	12. 2	·01371			

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 29 h m	° ′ ″	July 29 h m		July 29 h m		h m	°	°
11. 7	21. 43. 40	4. 15	·1011	15. 14	·01828			
11. 18	43. 40	4. 28	·1015	18. 0	·01810			
	***	4. 40	·1012	20. 1	·01763			
11. 41	41. 30	4. 52	·1012	21. 54	·01762			
	***	5. 20	·1022	22. 0	·01730			
12. 28	44. 30	5. 39	·1018	23. 59	·01773			
	***	5. 55	·1023					
13. 47	44. 0	6. 52	·1021					
14. 25	50. 0	7. 0	·1018					
15. 38	42. 30	7. 16	·1025					
16. 30	42. 50	7. 34	·1019					
17. 35	41. 20	7. 40	·1025					
19. 16	43. 50	8. 0	·1019					
19. 52	41. 10	8. 10	·1029					
20. 0	41. 55	9. 55	·1021					
20. 8	40. 20	10. 21	·1031					
20. 17	42. 0	10. 51	·1023					
20. 24	40. 30	11. 12	·1037					
20. 43	42. 30	12. 13	·1028					
21. 6	42. 10	12. 48	·1023					
22. 45	42. 5	12. 52	·1026					
22. 51	46. 55	13. 4	·1025					
23. 59	51. 5	13. 14	·1030					
		13. 40	·1029					
		13. 49	·1031					
		13. 54	·1026					
		14. 20	·1033					
		14. 38	·1037					
		15. 0	·1036					
		15. 20	·1038					
		15. 58	·1036					
		16. 37	·1040					
		16. 52	·1039					
		17. 21	·1041					
		18. 15	·1037					
		18. 35	·1037					
		18. 48	·1035					
		19. 26	·1045					
		20. 5	·1041					
		20. 11	·1044					
		20. 21	·1040					
		20. 30	·1044					
		21. 5	·1041					
		21. 21	·1040					
		21. 52	·1041					
		22. 25	·1039					
		22. 37	·1041					
		22. 51	·1037					
		23. 5	·1040					
		23. 59	·1032					
July 30		July 30		July 30		July 30		
0. 20	21. 50. 30	0. 0	·1032	0. 46	·01732	1. 40	69 ·0	70 ·4
2. 28:	52. 10	0. 22	·1030	1. 31	·01690	3. 40	73 ·5	74 ·0
3. 40	50. 30	0. 42	·1026	2. 22	·01556	9. 40	77 ·0	78 ·0
5. 0	46. 45	1. 5	·1028	3. 19	{·01277	21. 40	70 ·0	71 ·0
7. 48	43. 50	2. 7	·1021		{·01312			
8. 1	42. 50	2. 22	·1022	5. 35	·01409			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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 30 h m	° ′ ″	July 30 h m		July 30 h m		h m	°	°
8. 41	21. 44. 0	2. 44	·1018	8. 5	·01370			
8. 56	42. 10	3. 5	·1019	8. 15	·01412			
9. 10	43. 0	3. 37	·1014	8. 28	·01357			
10. 41	44. 10	4. 5	·1015	11. 29	·01379			
10. 55	44. 0	4. 52	·1012	13. 49	·01530			
11. 27	44. 30	5. 25	·1014	15. 13	·01716			
11. 59	43. 30		***	16. 7	·01910			
13. 40	44. 30	5. 55	·1013	17. 47	·01876			
14. 17	43. 15		***	20. 47	·01846			
16. 35	45. 30	7. 14	·1016	22. 13	·01869			
17. 44	44. 0		***	23. 15	·01776			
19. 0	42. 40	8. 0	·1016	23. 52	·01645			
19. 26	41. 30		***					
19. 52	40. 50	8. 22	·1018					
20. 10	41. 30		***					
20. 30	40. 15	8. 50	·1016					
20. 52	41. 0		***					
21. 0	40. 40	9. 30	·1024					
22. 28	47. 5	10. 0	·1022					
22. 37	47. 10	10. 25	·1024					
23. 47	51. 20	10. 37	·1027					
		10. 54	·1026					
		11. 15	·1032					
		13. 15	·1029					
		13. 37	·1031					
		13. 55	·1030					
		14. 22	·1031					
		14. 37	·1030					
		14. 50	·1033					
		15. 20	·1032					
		17. 47	·1042					
		18. 7	·1038					
		18. 22	·1039					
		19. 35	·1034					
		20. 15	·1030					
		20. 48	·1028					
		21. 7	·1022					
		21. 25	·1019					
		22. 2	·1014					
		22. 7	·1007					
		22. 15	·1008					
		22. 57	·0996					
		23. 59	·0996					
July 31		July 31		July 31		July 31		
0. 0	21. 51. 50	0. 0	·0996	0. 16	·01632	1. 40	76 ·0	76 ·5
0. 20	52. 55	0. 15	·0989	1. 44	·01296	3. 40	78 ·0	79 ·0
0. 30	52. 5	0. 25	·0982	3. 50	·01405	9. 40	79 ·5	80 ·0
1. 10	55. 0	1. 0	·0987	3. 58	·01480	21. 40	69 ·0	69 ·5
1. 48	55. 0	1. 7	·0988	4. 15	·01397			
4. 5	50. 0	1. 56	·0980	5. 29	·01410			
4. 15	49. 0	3. 4	·0974	5. 32	·01424			
4. 39	47. 55	3. 25	·0976	6. 22	·01390			
4. 50	47. 35	3. 37	·0975	6. 29	·01426			
5. 1	45. 30	3. 44	·0979	7. 13	·01364			
7. 0	41. 20	4. 22	·0981	7. 56	·01328			
7. 12	41. 50	4. 38	·0979	9. 51	·01330			
8. 17	40. 55	5. 15	·0983	10. 24	·01364			

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 31		July 31		July 31				
h m	° ′ ″	h m		h m		h m	°	°
8. 35	21. 42. 30	5. 45	·0982	11. 3	·01444			
8. 47	39. 50	7. 50	·0991	11. 59	·01624			
9. 28	44. 0	8. 4	·0991	13. 5	·01870			
14. 13	43. 0	8. 20	·0993	15. 15	·01817			
15. 59	42. 15	8. 40	·0994	15. 54	·01776			
16. 31	42. 20	8. 50	·1001	19. 24	·01752			
16. 52	41. 50	9. 48	·1001	21. 30	·01773			
17. 1	42. 0	10. 0	·1003	22. 1	·01764			
19. 2	39. 30	10. 7	·1003	23. 3	·01653			
20. 16	38. 55	10. 17	·1006	23. 22	·01592			
21. 27	40. 55	10. 48	·1005	23. 30	·01530			
23. 13	44. 30	11. 10	·1010	23. 47	·01468			
23. 59	46. 20	12. 25	·1016	23. 59	·01410			
		12. 43	·1020					
		13. 0	·1020					
		13. 40	·1023					
		13. 51	·1023					
		18. 0	·1046					
		18. 34	·1046					
		19. 6	·1039					
		19. 15	·1042					
		19. 42	·1043					
		19. 50	·1039					
		19. 55	·1043					
		20. 5	·1037					
		20. 30:	·1037					
		20. 52	·1035					
		21. 26	·1024					
		22. 43	·1005					
		23. 7	·1011					
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 0	21. 46. 20	0. 6	·1002	0. 18	·01260	1. 40	77 ·0	77 ·8
	***	0. 21	·1000	0. 31	·01156	3. 40	80 ·6	81 ·6
2. 32	48. 45	0. 30	·1002	1. 12	·01230	9. 40	78 ·9	79 ·4
	***	0. 45	·0996	3. 16	·01330	21. 40	71 ·1	72 ·0
4. 20	45. 40		***	4. 44	{·01322			
5. 17	44. 50	3. 45	·0996		{·01420			
5. 38	43. 40		***	5. 16	·01350			
5. 52	43. 40	3. 51	·0986	8. 9	·01260			
	***		***	9. 13	·01263			
7. 17	43. 0	4. 6	·0995	10. 18	·01348			
	***		***	10. 54	·01410			
12. 28	45. 0	4. 34	·0996	11. 44	·01540			
	***		***	11. 58	·01598			
13. 35	44. 20	5. 55	·1001	13. 12	·01890			
	***		***	16. 28	·01830			
14. 11	45. 30	9. 37	·1013	19. 11	·01806			
	***		***	21. 13	·01802			
16. 40	44. 5	9. 56	·1011	22. 14	·01753			
19. 28	41. 15		***	23. 7	·01610			
20. 14	41. 30	10. 10	·1014	23. 51	·01428			
21. 39	42. 30	10. 51	·1016					
23. 59	50. 0	11. 7	·1022					
		11. 36	·1021					
		11. 50	·1026					
		12. 22	·1027					
		14. 4	·1036					
		14. 15	·1038					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 1						
h m	° ′ ″	h m		h m		h m	°	°
		15. 3	·1040					
		15. 17	·1044					
		18. 30	·1045					
		19. 6	·1040					
		19. 22	·1044					
		20. 7	·1038					
		20. 30:	·1037					
		21. 22	·1023					
		21. 45	·1018					
		23. 30	·0989					
		23. 40	·0990					
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 0	21. 50. 5	0. 0	·0994	0. 19	·01321	1. 40	78 ·0	79 ·0
0. 28	51. 40		***	0. 51	·01193	3. 40	81 ·0	82 ·5
1. 40	51. 50	2. 47	·0972	2. 18	·01314	9. 40	80 ·8	82 ·0
2. 5	49. 30	3. 0	·0983	3. 40	{·01366	23. 28	73 ·0	74 ·0
4. 15	45. 0		***		{·01423			
6. 52	42. 5	4. 28	·0986	5. 11	·01295			
	***	4. 52	·0988	6. 30	·01375			
9. 30	44. 30	5. 32	·0986	7. 24	·01350			
	***	6. 12	·0988	8. 32	·01349			
13. 47:	43. 50	6. 52	·1002	9. 44	·01392			
14. 47	43. 10	7. 10	·1003	10. 46	·01512			
16. 2	45. 0	7. 52	·1012	11. 45	·01690			
20. 5	41. 0	8. 13	·1013	12. 18	·01818			
20. 36	43. 0	8. 45	·1020	17. 9	·01723			
21. 39	43. 40	10. 0	·1022	18. 45	·01701			
22. 15	46. 30	10. 7	·1025	19. 52	·01710			
22. 45	47. 5	10. 21	·1022	21. 30	·01721			
23. 0	46. 30	10. 41	·1026	22. 36	·01673			
23. 14	47. 50	10. 48	·1019	23. 10	·01578			
23	48. 0	11. 6	·1023	23. 48	·01410			
		13. 20	·1033					
		14. 15	·1035					
		14. 37	·1036					
		14. 52	·1036					
		15. 42	·1031					
		16. 5	·1045					
		16. 11	·1044					
		16. 21	·1045					
		16. 25	·1042					
		17. 25	·1051					
		18. 24	·1051					
		18. 49	·1046					
		19. 20	·1045					
		19. 34	·1048					
		20. 6	·1047					
		20. 21	·1048					
		21. 6	·1039					
		21. 52	·1022					
		22. 53	·1013					
		23. 50	·1014					
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 13	21. 49. 5	0. 0	·0996	0. 15	·01230	9. 3	80 ·0	81 ·0
1. 0:	51. 55	0. 7	·0994	0. 49	{·00983	21. 40	67 ·0	68 ·0
	***	0. 15	·0998		{·01043			
			***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 3		Aug. 3		Aug. 3		h m	°	°
h m	° ′ ″	h m		h m				
2. 42	21. 51. 30 ***	0. 54	·0987 ***	2. 52	·01183			
				4. 14	·01210 ***			
3. 28	50. 40 ***	2. 30	·0996 ***					
				6. 10	·01180			
5. 7	47. 15 ***	2. 35	·0974 ***	7. 11	·01203			
				7. 39	·01170			
5. 28	45. 0 ***	3. 15	·0976 ***	9. 1	·01162			
				9. 47	·01210			
6. 28	43. 40 ***	3. 21	·0966 ***	10. 28	·01310			
				10. 47	·01328			
6. 54	45. 30 ***	3. 26	·0982 ***	12. 41	·01822			
				14. 1	·01748			
7. 39	43. 0 ***	3. 35	·0982 ***	17. 13	·01692			
				20. 17	·01693			
7. 56	45. 30 ***	3. 37	·1001 ***	21. 18	·01672			
				21. 55	·01696			
10. 2	41. 40	3. 46	·0986 ***	23. 15	·01677			
10. 16	36. 30			23. 59	·01647			
10. 30	39. 20	4. 26	·0986 ***					
10. 57	32. 0 ***							
		4. 40	·0994 ***					
12. 13	42. 40 ***							
		5. 10	·0984 ***					
15. 43	43. 30							
15. 58	44. 45	5. 30	·0987 ***					
16. 52	45. 0							
18. 14	42. 0	5. 58	·0984 ***					
18. 40	39. 45							
19. 14	40. 0	6. 5	·0995 ***					
19. 32	38. 30							
20. 24	42. 5	6. 7	·0988 ***					
21. 1	42. 0							
21. 49	45. 35	6. 24	·0986 ***					
22. 1	44. 30							
22. 30	47. 40	6. 52	·0992 ***					
22. 44	47. 50							
23. 30	50. 30	7. 6	·1003 ***					
23. 38	50. 15							
23. 59	52. 0	7. 12	·1000 ***					
		7. 19	·1004 ***					
		7. 23	·1002 ***					
		7. 33	·0988 ***					
		8. 0	·0987 ***					
		8. 49	·0991 ***					
		9. 30	·1007 ***					
		10. 5	·1005					
		10. 22	·1026					
		10. 25	·1026					
		10. 40	·1004					
		11. 5	·1004					
		11. 15	·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.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Aug. 3 h m		h m		h m	°	°
		11. 25	·1011					
		11. 34	·1000					
		13. 22	·1016					
		13. 35	·1016					
		14. 55	·1023					
		17. 52	·1028					
		18. 0	·1026					
		18. 7	·1030					
		18. 11	·1028					
		19. 6	·1032					
		21. 0	·1031					
		22. 21	·1035					
			(†)					
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 0	21. 52. 15	0. 15	·1024 ***	0. 41	·01536	1. 40	71 ·0	72 ·4
0. 36	53. 50			1. 41	·01440	3. 40	76 ·0	77 ·0
1. 12	52. 50	0. 52	·1024 ***	2. 16	·01300	9. 40	74 ·0	75 ·0
1. 15	54. 0			2. 54	{·01110 ·01073	21. 40	63 ·0	64 ·0
1. 28	52. 50	1. 6	·1019 ***					
1. 47	53. 0			3. 18	{·00912 ·00981			
1. 55	54. 30	1. 12	·1022 ***					
2. 9	53. 0			3. 38	{·00990 ·01032			
3. 4	51. 45	1. 25	·1017 ***					
3. 13	52. 15			5. 43	·01033			
3. 27	51. 15	1. 56	·1024 ***	7. 46	·00965			
3. 43	51. 40			9. 2	·01014			
4. 3	50. 50	2. 9	·1016 ***	10. 18	·01165			
4. 27	52. 0			10. 43	·01429			
4. 38	50. 50	2. 33	·1010 ***	12. 28	·01650			
4. 55	50. 30			13. 15	{·01622 ·01568			
5. 13	48. 15 ***	3. 10	·1023 ***					
				15. 15	·01554			
5. 45	48. 35 ***	3. 26	·1018 ***	16. 43	·01532			
				17. 1	·01539			
6. 5	41. 50 ***	3. 49	·1023 ***	18. 14	·01529			
				20. 7	·01517			
6. 25	41. 50 ***	3. 58	·1019 ***	22. 4	·01554			
				22. 27	·01538			
7. 15	44. 30 ***	4. 22	·1031 ***	23. 20	·01436			
8. 12	41. 50 ***	4. 37	·1020 ***					
8. 47	43. 30	4. 57	·1020 ***					
9. 17	41. 5							
9. 31	35. 0	5. 7	·1013 ***					
9. 42	39. 0 ***							
		5. 30	·1010 ***					
10. 28	41. 0 ***							
		5. 45	·1028 ***					
11. 1	38. 45 ***							
		6. 30	·1016 ***					
11. 44	41. 30							
12. 15	40. 15 ***	7. 0	·1010 ***					
13. 2	47. 20 ***	7. 12	·1017 ***					
13. 47	44. 0 ***	7. 20	·1009 ***					

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. 4	° ′ ″	Aug. 4		h m		h m	°	°
h m		h m						
15. 57	21. 43. 15	7. 37	·1007					
	***		***					
16. 40	42. 0	7. 45	·1001					
	***		***					
17. 43	45. 0	8. 6	·1003					
	***		***					
18. 0	46. 30	8. 15	·1007					
18. 24	41. 30		***					
	***	8. 30	·1004					
19. 32	39. 20	8. 51	·1012					
	***	9. 0	·1011					
20. 30	40. 20	9. 30	·1021					
22. 5	46. 30	9. 43	·1052					
23. 59	51. 30	9. 52	·1052					
		10. 12	·1031					
		10. 22	·1032					
		10. 42	·1020					
		11. 30	·1016					
		11. 40	·1024					
		11. 49	·1021					
		12. 0	·1024					
		12. 15	·1030					
		12. 22	·1034					
		13. 0	·1022					
		13. 22	·1048					
		14. 10	·1034					
		14. 19	·1036					
		14. 35	·1031					
		15. 29	·1031					
		15. 34	·1038					
		15. 40	·1034					
		16. 0	·1036					
		16. 4	·1042					
		16. 22	·1035					
		16. 58	·1032					
		17. 7	·1036					
		17. 37	·1036					
		18. 0	·1042					
		18. 55	·1040					
		19. 7	·1037					
		19. 21	·1040					
		20. 0	·1036					
		20. 13	·1029					
		20. 22	·1030					
		21. 10	·1021					
		21. 30	·1020					
		21. 52	·1013					
		22. 10	·1012					
		22. 28	·1010					
		22. 37	·1012					
		22. 51	·1007					
		23. 59	·1007					
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
0. 0	21. 51. 30	0. 0	·1007	0. 0	·01378	1. 40	70 ·7	72 ·3
0. 11	52. 15	1. 0	·0998	0. 56	·01167	3. 40	74 ·5	75 ·5
1. 54	54. 5	2. 22	·1006	1. 44	·00840	9. 40	72 ·0	73 ·0
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 5	° ′ ″	Aug. 5		Aug. 5		Aug. 5	°	°
h m		h m		h m		h m		
4. 52	21. 45. 10	2. 45	·1004			21. 40	62 ·0	63 ·0
	***	3. 15	·1005	1. 47	·00836			
6. 40	43. 30	3. 27	·1010		·00903			
	***		***	3. 44	·01064			
7. 10	35. 45	4. 15	·1006	4. 41	·01088			
	***		***	5. 45	·01076			
8. 3	41. 30	4. 45	·1009	7. 39	·00980			
	***		***	8. 27	·00977			
9. 10	45. 0	4. 51	·1012	9. 7	·01030			
	***		***	10. 14	·01267			
10. 9	45. 0	5. 5	·1007	10. 48	·01420			
	***	5. 15	·1004	11. 44	·01730			
10. 47	41. 0		***	12. 2	·01700			
	***	5. 55	·1014	13. 10	·01700			
11. 47	45. 30	6. 6	·1012	15. 9	·01621			
	***		***	16. 42	·01609			
12. 36	44. 20	6. 30	·1017	18. 42	·01602			
	***		***	20. 16	·01615			
13. 32	44. 30	6. 50	·1009	21. 5	·01660			
	***	7. 5	·1016	22. 0	·01663			
13. 49	43. 0	7. 15	·1030	23. 59	·01438			
	***	8. 13	·1017					
14. 36	48. 10	9. 18	·1023					
	***	10. 25	·1025					
15. 8	44. 35	10. 30	·1029					
	***	11. 15	·1023					
16. 55	41. 50	12. 20	·1037					
	***	12. 37	·1037					
17. 58	44. 30	13. 21	·1033					
18. 28	42. 15	13. 50	·1030					
19. 5	44. 0	14. 5	·1034					
19. 31	43. 10	14. 21	·1033					
19. 43	44. 50	14. 51	·1052					
20. 0	43. 5	15. 20	·1048					
21. 41	43. 35	17. 21	·1054					
22. 23	44. 55	17. 25	·1053					
22. 33	46. 0	18. 6	·1057					
23. 24	46. 10	18. 37	·1055					
23. 59	48. 40	19. 7	·1048					
		19. 15	·1053					
		19. 55	·1056					
		20. 50	·1050					
		21. 8	·1051					
		21. 30	·1048					
		21. 45	·1048					
		23. 0	·1037					
		23. 50	·1032					
		23. 59	·1028					
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
0. 0	21. 48. 50	0. 0	·1028		(†)	1. 40	67 ·0	68 ·0
0. 8	49. 20	0. 15	·1024	1. 2	·01286	3. 40	70 ·0	71 ·0
0. 21	48. 20	0. 26	·1023	1. 40	·01120	9. 40	71 ·0	72 ·5
0. 54	49. 30	0. 56	·1020	2. 33	·00839	21. 40	63 ·0	64 ·0
1. 5	50. 55	2. 0	·1002	2. 50	·00870			
1. 37	51. 25	2. 33	·1012	5. 24	·00983			
2. 25	51. 0	3. 37	·1002	6. 3	·00978			
2. 36	51. 20	3. 45	·1007	7. 17	·00958			
			***					

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. 6		Aug. 6		Aug. 6				
h m	° ′ ″	h m		h m		h m	°	°
3. 11	21. 49. 55	5. 10	·1006	9. 4	·00875			
3. 41	47. 10	5. 15	·0995	10. 3	·00917			
4. 11	45. 20	5. 22	·0991	11. 22	·01126			
5. 51	43. 10	5. 23	·0996	14. 9	·01700			
9. 11	43. 30		***	15. 42	·01673			
9. 44	42. 30	6. 30	·1000	16. 30	·01679			
10. 0	43. 30		***	17. 44	·01660			
10. 21	43. 0	6. 37	·1008	20. 51	·01637			
	***		***	21. 58	·01650			
11. 15	44. 35	8. 22	·1030	22. 35	·01635			
	***	8. 49	·1028	23. 42	·01525			
12. 0	44. 30	9. 27	·1032	23. 59	·01470			
12. 17	48. 15	11. 59	·1031					
12. 44	48. 5	12. 10	·1037					
13. 33	44. 40	13. 0	·1042					
14. 9	44. 10	14. 15	·1039					
14. 45	45. 0	15. 22	·1047					
15. 25	44. 30	16. 8	·1046					
15. 58	43. 30	17. 30	·1048					
17. 2	43. 45	17. 52	·1051					
18. 34	43. 20	18. 40	·1053					
19. 19	41. 10	19. 15	·1049					
19. 47	41. 0	19. 30	·1050					
20. 50	42. 5	20. 4	·1049					
21. 10	43. 0	20. 22	·1046					
21. 45	44. 5	20. 45	·1042					
23. 3	47. 50	22. 25	·1033					
23. 10	47. 45	23. 15	·1026					
23. 19	49. 5	23. 59	·1018					
23. 31	48. 55							
23. 42	50. 30							
23. 51	50. 25							
23. 59	51. 5							
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
0. 0	21. 51. 0	0. 0	·1018		(†)	1. 40	69 ·0	70 ·0
0. 12	51. 40	1. 0	·1000	0. 44	·01390	3. 40	73 ·0	74 ·0
	***	1. 55	·1007	1. 13	·01310	9. 40	74 ·6	76 ·0
2. 29	47. 20	2. 40	·1009	2. 15	·01012	21. 40	62 ·5	64 ·0
	***	2. 48	·1012	2. 47	·00804			
2. 47	47. 30	3. 7	·1001		·00883			
3. 13	45. 40	3. 25	·1007	3. 17	·00907			
	***	3. 35	·1004		·00928			
4. 36	44. 0	3. 45	·1008	4. 44	·01010			
	***	4. 32	·1008	6. 11	·01054			
4. 52	44. 20	4. 50	·1018	7. 32	·01018			
5. 4	43. 0	5. 0	·1008	8. 47	·00950			
5. 43	42. 45	5. 12	·1006	9. 59	·00980			
6. 0	43. 10	5. 45	·1016	11. 26	·01132			
7. 17	38. 35	5. 55	·1022	12. 3	·01230			
7. 29	37. 20	6. 25	·1010	14. 32	·01729			
7. 38	39. 30	6. 40	·1027	16. 22	·01668			
7. 45	37. 30	7. 30	·1016	19. 15	·01637			
	***	8. 45	·1022	22. 15	·01660			
8. 41	38. 50	9. 13	·1013	23. 0	·01686			
9. 10	40. 40	9. 45	·1022	23. 59	·01663			
	***	10. 6	·1018					
10. 7	38. 40	10. 22	·1022					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 7		Aug. 7						
h m	° ′ ″	h m		h m		h m	°	°
11. 10	21. 42. 50	10. 30	·1013					
	***	11. 30	·1017					
11. 43	42. 0	11. 43	·1023					
	***	13. 53	·1031					
12. 2	44. 0	14. 15	·1026					
	***	14. 45	·1030					
12. 46	42. 10	15. 52	·1036					
	***	16. 5	·1034					
13. 17	45. 20	16. 14	·1038					
	***	16. 22	·1033					
14. 19	41. 20	16. 53	·1034					
	***	17. 0	·1039					
15. 40	44. 30	17. 45	·1037					
	***	18. 40	·1040					
16. 17	40. 0	19. 21	·1038					
	***	19. 32	·1043					
17. 17	40. 0	19. 38	·1039					
	***	21. 57	·1038					
17. 36	38. 5	22. 15	·1030					
	***	23. 30	·1028					
18. 7	37. 50	23. 51	·1032					
	***	23. 59	·1028					
19. 46	42. 20							
	***							
21. 39	41. 10							
	***							
23. 30	45. 50							
23. 59	47. 35							
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
0. 0	21. 47. 35	0. 0	·1028	0. 24	·01649	1. 40	65 ·0	66 ·4
1. 17	48. 15	1. 22	·1040	3. 10	·01432	3. 40	67 ·0	68 ·0
1. 44	47. 50	1. 46	·1039	6. 43	·00860	9. 40	70 ·0	70 ·5
2. 47	47. 50		***	7. 45	·00712	21. 40	65 ·5	67 ·0
2. 55	47. 0	2. 51	·1048		·00820			
5. 33	44. 20	2. 55	·1046	10. 28	·00799			
6. 0	43. 55	3. 21	·1045	11. 12	·00780			
7. 24	45. 50	3. 41	·1050	13. 38	·00842			
7. 54	42. 35	4. 18	·1038	14. 17	·00918			
8. 40	41. 40	4. 33	·1042	17. 47	·01404			
9. 4	42. 45	4. 47	·1037	17. 57	·01373			
9. 17	44. 30	5. 22	·1034	19. 46	·01512			
10. 3	43. 40	5. 35	·1039	21. 40	·01600			
11. 7	45. 45	6. 7	·1031	23. 28	·01600			
12. 2	45. 10	6. 13	·1034	23. 59	·01569			
12. 15	45. 55	6. 28	·1031					
12. 57	42. 15	6. 50	·1036					
13. 25	46. 30	7. 10	·1031					
14. 13	39. 50	8. 0	·1040					
	***	8. 45	·1039					
16. 43	42. 10	9. 0	·1037					
17. 11	41. 35	9. 15	·1042					
17. 57	42. 40	9. 26	·1040					
18. 10	42. 10	9. 50	·1046					
19. 47	40. 55	10. 10	·1039					
20. 25	42. 35	10. 50	·1042					
20. 43	42. 0	11. 4	·1046					
21. 6	42. 45	13. 27	·1048					

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. 8		Aug. 8						
h m	° ′ ″	h m		h m		h m	°	°
22. 4	21. 44. 0	13. 29	·1054					
22. 13	45. 0	16. 25	·1053					
23. 19	46. 30	20. 10	·1053					
23. 59	47. 55	21. 30	·1051					
		21. 37	·1054					
		21. 51	·1056					
		23. 2	·1069					
		23. 9	·1075					
		23. 59	·1074					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 0	21. 48. 0	0. 0	·1074		(†)	1. 40	67 ·0	68 ·0
0. 40	47. 20	0. 56	·1044	0. 57	·01517	3. 40	69 ·0	69 ·5
0. 53	47. 30	1. 7	·1047	2. 15	·01520	9. 40	72 ·0	72 ·5
1. 2	48. 35	1. 17	·1046	4. 0	·01443	22. 30	68 ·0	69 ·5
1. 17	47. 50		(†)	5. 5	·01280			
2. 13	49. 0	4. 33	·1051	7. 10	·00830			
2. 25	48. 10	4. 57	·1038		·00897			
3. 39	47. 20	5. 22	·1035	9. 25	·00864			
4. 6	40. 0	5. 33	·1030	10. 29	·00837			
4. 36	43. 50	6. 12	·1031	11. 17	·00830			
5. 33	44. 10	6. 35	·1034	13. 15	·00880			
6. 18	42. 55	7. 15	·1031	14. 58	·01102			
11. 14	44. 5		***	16. 30	·01336			
12. 51	44. 15	9. 12	·1034	18. 51	·01712			
13. 59	43. 0	9. 48	·1030	19. 2	·01730			
15. 16	41. 35	9. 58	·1032	19. 7	·01706			
15. 38	42. 50	10. 52	·1032	19. 27	·01710			
17. 13	42. 0	11. 55	·1031	19. 33	·01650			
19. 46	38. 50	12. 7	·1032	20. 28	·01792			
19. 52	39. 40	12. 30	·1030	21. 47	·01668			
19. 56	39. 5	13. 30	·1034	22. 22	·01620			
20. 7	40. 30	13. 48	·1034		(†)			
20. 16	39. 20	14. 26	·1037	23. 43	·01522			
20. 25	41. 0	14. 28	·1032	23. 58	·01510			
20. 45	40. 10	14. 53	·1037					
21. 17	42. 30	15. 0	·1035					
21. 40	42. 30	15. 45	·1034					
22. 48	45. 20	16. 30	·1040					
23. 59	46. 0	18. 56	·1036					
		19. 27	·1039					
		22. 36	·1023					
		22. 42	·1024					
		23. 59	·1021					
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
0. 0	21. 46. 0	0. 0	·1021	0. 0	·01576	9. 10	77 ·5	79 ·0
0. 13	45. 55	0. 20	·1021	0. 30	·01510	21. 40	71 ·0	72 ·0
0. 42	46. 30	0. 25	·1020	2. 32	·01172			
1. 40	46. 10	0. 54	·1024	3. 24	·00953			
1. 54	45. 30	2. 45	·1027		·01038			
2. 18	45. 20	2. 53	·1026	7. 28	·01090			
4. 23	43. 15	3. 39	·1031	8. 32	·01059			
5. 59	40. 40	3. 45	·1028	10. 32	·01018			
7. 17	42. 10	4. 52	·1032	13. 5	·01107			
9. 17	43. 15	6. 22	·1032	14. 13	·01192			
11. 10	43. 10	6. 29	·1027	15. 10	·01296			
11. 30	44. 0	7. 17	·1025	18. 58	·01850			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 10		Aug. 10		Aug. 10				
h m	° ′ ″	h m		h m		h m	°	°
11. 36	21. 43. 45	7. 45	·1024	20. 9	·01812			
11. 54	44. 10	8. 20	·1025	21. 40	·01810			
12. 32	43. 40	8. 45	·1020		·01786			
14. 47	42. 20	9. 56	·1022	23. 59	·01773			
15. 0	42. 45	10. 30	·1019					
15. 17	42. 5	10. 45	·1020					
15. 39	42. 15	11. 0	·1022					
15. 50	41. 20	12. 21	·1018					
16. 30	41. 30	12. 37	·1019					
17. 29	39. 30		***					
17. 39	40. 0	14. 30	·1016					
17. 47	39. 40		***					
19. 32	39. 30	15. 30	·1010					
20. 2	39. 0		***					
21. 9	40. 30	16. 7	·1011					
21. 57	42. 50		***					
23. 17	49. 30	16. 30	·1010					
23. 59	51. 0		***					
		18. 0	·1011					
			***					
		20. 32	·1021					
		21. 22	·1018					
			***					
		21. 37	·1009					
		22. 37	·1002					
		22. 40	·1006					
		23. 0	·1001					
		23. 8	·1003					
		23. 22	·1001					
		23. 30	·1004					
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 0	21. 51. 5	0. 35	·1010		(†)	1. 40	74 ·5	75 ·0
1. 0	53. 0	1. 7	·1015	0. 46	·01721	3. 40	77 ·5	78 ·0
2. 15	52. 35	1. 17	·1013	1. 32	·01630	9. 40	77 ·0	78 ·5
2. 18	51. 0	1. 30	·1004	2. 50	·01372	21. 40	69 ·0	70 ·0
2. 40	53. 0	1. 45	·0996	3. 49	·01050			
3. 48	47. 50	1. 51	·1007		·01152			
3. 59	49. 30	2. 40	·0980	4. 39	·01143			
4. 29	47. 50	2. 50	·0982		·01169			
4. 44	48. 0	3. 9	·0999	5. 46	·01170			
5. 6	44. 15	3. 34	·0996	5. 55	·01188			
6. 10	42. 0	3. 44	·0993	6. 14	·01150			
6. 15	44. 50	3. 51	·1005		·01166			
	***	3. 55	·1006	6. 51	·01137			
7. 10	43. 40	4. 5	·0995	7. 5	·01137			
7. 40	40. 30	4. 10	·1004	7. 26	·01129			
7. 57	42. 0	4. 22	·0994	7. 40	·01130			
8. 17	41. 0	4. 37	·0997	7. 56	·01103			
9. 33	40. 30	4. 39	·1008	9. 26	·01104			
10. 16	41. 30	4. 53	·0997	11. 28	·01227			
10. 46	37. 30	5. 15	·1002	13. 43	·01500			
11. 7	41. 35	5. 19	·1009	14. 32	·01629			
11. 29	40. 0	5. 36	·1028	15. 32	·01819			
11. 58	43. 30	6. 11	·1043	16. 2	·01788			
12. 16	41. 35	6. 22	·1055	18. 17	·01760			
	***	6. 36	·1040	22. 15	·01767			
13. 26	40. 10	7. 9	·1033	22. 50	·01780			

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.11		Aug.11		Aug.11				
h m	° ′ ″	h m		h m		h m	°	°
13. 42	21. 42. 15	7. 19	·1038	23. 54	·01756			
	***	7. 22	·1030					
15. 10	39. 50	7. 32	·1042					
	***	7. 39	·1037					
15. 51	43. 5	7. 52	·1043					
	***	8. 11	·1037					
16. 45	41. 0	8. 21	·1042					
	***	9. 0	·1034					
17. 16	41. 5	9. 50	·1041					
	***	10. 0	·1037					
20. 2	40. 30	10. 20	·1044					
22. 0	44. 10	10. 29	·1045					
23. 15	48. 15	10. 49	·1059					
23. 47	49. 30	10. 55	·1058					
		11. 12	·1045					
		11. 30	·1044					
		11. 39	·1049					
		11. 50	·1046					
		13. 20	·1045					
		13. 37	·1049					
		13. 49	·1048					
		14. 7	·1051					
		15. 52	·1050					
		16. 30	·1051					
		18. 21	·1052					
		20. 0	·1043					
		20. 34	·1044					
		21. 23	·1039					
		22. 30	·1032					
		22. 54	·1030					
		23. 45	·1029					
Aug.12		Aug.12		Aug.12		Aug.12		
0. 2	21. 50. 55	0. 34	·1027	0. 0	·01746	1. 40	72 ·5	73 ·0
0. 58	51. 20	1. 0	·1029	1. 10	·01670	3. 40	75 ·0	75 ·0
	***	1. 52	·1037	2. 44	·01462	9. 40	73 ·0	74 ·0
1. 57	50. 30	2. 24	·1038	3. 55	·01217	21. 40	67 ·5	68 ·0
	***	2. 45	·1031	4. 29	·01047			
3. 40	45. 35	3. 4	·1036	4. 57	{·00946			
	***	3. 30	·1032		{·01036			
5. 42	43. 45	4. 15	·1030	8. 6	·00918			
	***	4. 30	·1033	9. 17	·00940			
9. 59	44. 30	4. 45	·1028	10. 52	·01066			
10. 46	42. 0	4. 52	·1031	15. 42	·01762			
	***	5. 4	·1028	16. 0	·01740			
11. 47	44. 30	6. 20	·1034	20. 5	·01737			
	***	6. 38	·1030	22. 17	·01756			
13. 59	44. 0	6. 50	·1034	23. 11	·01728			
14. 12	44. 50	7. 5	·1034	23. 59	·01749			
14. 16	43. 30	7. 22	·1042					
	***	8. 5	·1043					
16. 14	44. 10	8. 35	·1050					
	(†)	10. 0	·1054					
18. 58	42. 10	10. 19	·1069					
20. 40	41. 55	10. 45	·1055					
21. 17	42. 30	11. 15	·1052					
23. 27	48. 30	13. 30	·1058					
23. 59	49. 15	14. 7	·1061					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.12 h m		h m		h m	°	°
		16. 34	·1062					
		17. 50	·1059					
		18. 37	·1062					
		21. 0	·1048					
		23. 0	·1032					
		23. 40	·1034					
		23. 59	·1037					
Aug.13		Aug.13		Aug.13		Aug.13		
0. 0	21. 49. 25	0. 0	·1037	0. 19	·01560	1. 40	73 ·0	73 ·0
1. 0	50. 0	0. 24	·1036	1. 20	·01412	3. 40	76 ·0	77 ·0
2. 45	47. 15	0. 52	·1037	2. 0	·01240	9. 40	75 ·5	76 ·0
4. 36	42. 10	1. 0	·1029	2. 39	·01040	21. 40	68 ·0	69 ·0
5. 35	40. 25	3. 30	·1018	5. 32	·01045			
8. 15	43. 15	3. 54	·0984	7. 44	·00997			
9. 44	42. 40	4. 41	·0983	8. 47	·01003			
10. 29	44. 15	4. 46	·0979	11. 13	·01157			
11. 11	43. 35	5. 20	·0980	13. 40	·01430			
12. 11	44. 10	5. 24	·0974	15. 59	·01786			
12. 57	44. 10	5. 30	·0975	19. 9	·01746			
13. 31	43. 20	5. 34	·0982	20. 48	·01747			
15. 7	42. 45	5. 55	·0981	22. 30	·01749			
15. 55	44. 0	6. 22	·0984	22. 54	·01759			
16. 55	42. 0		(†)	23. 56	·01754			
17. 31	44. 0	7. 40	·0992					
18. 49	41. 50	7. 56	·0998					
19. 2	40. 15	8. 15	·0996					
19. 28	41. 0	8. 37	·0997					
19. 44	39. 10	8. 51	·1002					
20. 1	41. 10	8. 57	·1001					
20. 16	40. 30	9. 4	·1004					
21. 30	44. 30	9. 21	·1000					
21. 55	43. 10	11. 0	·1009					
23. 42	51. 10	13. 30	·1019					
23. 59	51. 40	13. 58	·1019					
		15. 10	·1022					
		16. 0	·1024					
		16. 35	·1028					
		17. 5	·1024					
		18. 37	·1035					
		19. 0	·1034					
		19. 30	·1039					
		20. 13	·1033					
		20. 27	·1036					
		21. 37	·1036					
		22. 6	·1030					
		22. 21	·1029					
		23. 15	·1015					
		23. 32	·1010					
Aug.14		Aug.14		Aug.14		Aug.14		
0. 0	21. 51. 40	0. 7	·1014	0. 28	·01729	1. 40	71 ·0	72 ·0
0. 41	52. 30	0. 39	·1013	1. 6	·01690	3. 40	73 ·0	73 ·5
3. 28	47. 0	1. 0	·1007	1. 50	·01612	9. 40	69 ·0	70 ·0
4. 53	43. 25	3. 7	·1010	2. 34	·01498	21. 40	66 ·0	67 ·0
	***	3. 45	·1016	3. 57	·01169			
6. 46	45. 30	4. 10	·1016	5. 19	{·00909			
	***	4. 30	·1010		{·01000			

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. 14	° ′ ″	Aug. 14		Aug. 14		h m	°	°
h m		h m		h m				
9. 16	21. 45. 30	5. 7	·1009	6. 39	·00898			
	***	5. 32	·1020	8. 21	·00912			
9. 32	42. 30	6. 52	·1019	9. 43	·01002			
	***	7. 5	·1024	10. 30	·01087			
9. 46	44. 20	7. 22	·1021	14. 43	·01687			
	***	7. 40	·1024	21. 9	{·01697			
9. 55	42. 0	7. 52	·1028		{·01677			
	***	9. 22	·1029	22. 27	·01686			
10. 0	42. 30	9. 36	·1035	23. 47	·01623			
	***	10. 0	·1033					
10. 7	45. 30	10. 22	·1037					
	***	11. 7	·1034					
10. 44	44. 0	13. 24	·1037					
	***	13. 50	·1043					
13. 21	45. 30	15. 15	·1038					
13. 43	48. 30	16. 2	·1044					
	***	19. 30	·1042					
14. 32	43. 30	19. 56	·1031					
	***	20. 15	·1032					
15. 40	43. 0	20. 37	·1026					
	***	21. 15	·1030					
16. 44	41. 15	23. 36	·1014					
	***							
18. 40	40. 30							
19. 21	39. 0							
19. 51	39. 35							
	***							
22. 15	47. 0							
23. 40	49. 30							
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
	(†)		(†)	0. 0	·01583	1. 40	70 ·0	70 ·0
1. 40	21. 52. 43*	1. 40	·1012*	1. 3	·01460	3. 40	72 ·0	73 ·0
1. 56	53. 30	1. 54	·1007	1. 47	·01326	9. 40	72 ·0	73 ·0
	***		***	3. 46	{·00817	21. 40	63 ·0	64 ·0
5. 42	43. 30	3. 48	·1008		{·00916			
6. 45	42. 50		***	6. 12	·00909			
	(†)	4. 47	·1005	7. 28	·00877			
9. 2	43. 55		***	10. 6	·00860			
	***	4. 36	·1010	10. 48	·00892			
12. 0:	45. 30		***	13. 7	·01189			
	***	5. 29	·1010	14. 13	·01378			
15. 35	43. 10		***	15. 47	·01709			
	***	6. 9	·1015	16. 35	·01670			
16. 6	45. 30		***	21. 43	·01617			
	***	6. 33	·1014	22. 11	·01636			
16. 52	41. 55		***	22. 29	·01629			
	***	6. 44	·1015	22. 48	·01648			
18. 55	42. 0		(†)	23. 59	·01606			
	***	9. 2	·1019					
19. 7	43. 10	10. 4	·1019					
	***	11. 33	·1024					
19. 28	41. 40		***					
	***	16. 0	·1046					
20. 44	41. 40	16. 32	·1051					
	***	16. 54	·1050					
20. 57	42. 30		***					
	***	18. 33	·1054					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 15	° ′ ″	Aug. 15		h m		h m	°	°
h m		h m						
21. 4	21. 41. 55	21. 38	·1046					
	***		***					
21. 30	44. 0	21. 48	·1038					
	***		***					
21. 45	49. 35	21. 58	·1040					
	***		***					
21. 57	48. 10	22. 13	·1019					
	***		***					
22. 32	53. 35	23. 2	·1028					
	***	23. 14	·1032					
23. 15	54. 30		***					
	***	23. 46	·1033					
23. 59	53. 15	23. 59	·1037					
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 41	21. 52. 5	0. 35	·1025	0. 28	·01542	1. 40	68 ·0	69 ·0
1. 28	54. 30	1. 17	·1025	1. 21	·01430	3. 40	70 ·0	71 ·0
2. 40	50. 30	1. 37	·1021	2. 14	·01240	9. 40	71 ·0	72 ·0
2. 54	52. 0	2. 6	·1026	3. 30	·00841	23. 22	64 ·0	65 ·0
3. 12	50. 50	2. 25	·1022	3. 34	·00912			
3. 39	51. 10	2. 39	·1030	5. 18	·00939			
4. 0	49. 55	2. 49	·1039	6. 55	·00886			
4. 17	46. 55	2. 58	·1039	7. 21	·00877			
4. 36	46. 20	3. 9	·1026	8. 20	·00846			
5. 20	43. 45	3. 34	·1022	9. 47	·00844			
5. 44	44. 15	3. 45	·1014	11. 16	·00921			
7. 2	43. 45	4. 11	·1022	15. 9	·01296			
9. 22	45. 30	4. 37	·1012	16. 51	·01512			
10. 1	43. 10	5. 32	·1027	18. 56	·01740			
	***		***	19. 10	·01723			
12. 20	44. 0	8. 0	·1029	21. 10	·01737			
12. 41	46. 20	8. 53	·1032	22. 39	·01710			
13. 6	44. 30	9. 4	·1037	23. 59	·01708			
	***	9. 36	·1039					
13. 42	45. 0	9. 42	·1037					
	***	11. 6	·1042					
14. 12	46. 10	11. 37	·1046					
14. 32	48. 50	11. 50	·1040					
15. 5	45. 0	12. 0	·1044					
15. 50	42. 50	13. 36	·1052					
16. 18	43. 20	13. 57	·1043					
17. 1	41. 35	14. 6	·1050					
18. 0	42. 25	14. 15	·1047					
19. 25	42. 15	14. 20	·1056					
22. 20	46. 25	14. 25	·1055					
23. 54	50. 30	14. 30	·1050					
		15. 52	·1053					
		18. 0:	·1054					
		21. 40	·1050					
		21. 54	·1054					
		23. 22	·1053					
		23. 24	·1056					
		23. 32	·1056					
		Aug. 17		Aug. 17		Aug. 17		
		0. 27	·1025	0. 13	·01692	9. 15	68 ·0	69 ·0
		0. 57	·1023	3. 5	·01747	21. 40	63 ·9	65 ·0
		1. 10	·1020	4. 1	·01709			

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

August 17. At the end of this day the Declination Magnet was found resting against the surrounding copper bar, and the magnetic trace was a straight line.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 17 h m		Aug. 17 h m		h m	°	°
		1. 47	·1017	5. 34	·01550			
		2. 0	·1015	8. 28	·01330			
		2. 13	·1010	10. 46	·01259			
		2. 40	·1009	14. 0	·01378			
		3. 5	·1005	16. 29	·01619			
		3. 10	·1005	17. 32	·01738			
		3. 32	·1002		·01695			
		3. 47	·1001	17. 56	·01690			
		4. 33	·0995	17. 58	·01628			
		4. 45	·1001	18. 44	·01703			
		5. 7	·1002	18. 46	·01694			
		5. 15	·1001	23. 1	·01656			
		6. 30	·1011	23. 59	·01666			
		6. 40	·1012					
		6. 55	·1015					
		8. 7	·1022					
		10. 6	·1024					
		10. 34	·1028					
		11. 0	·1034					
		11. 8	·1036					
		11. 30	·1031					
		15. 0	·1021					
		17. 35	·1024					
		19. 30	·1022					
		20. 10	·1023					
		20. 30	·1028					
		21. 2	·1030					
		21. 13	·1029					
		21. 37	·1034					
		22. 22	·1033					
		22. 37	·1036					
		22. 55	·1033					
		23. 7	·1034					
		23. 30	·1031					
		23. 59	·1028					
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 40	21. 48. 45	0. 0	·1028		(†)	1. 40	64 ·6	65 ·4
1. 17	48. 10	0. 50	·1038	1. 2	·01690	3. 40	65 ·0	66 ·0
2. 25	49. 0	1. 6	·1037	1. 30	·01677	9. 40	65 ·0	66 ·0
3. 32	47. 20	1. 38	·1040	3. 22	·01727	21. 40	62 ·5	64 ·0
6. 11	42. 30	2. 10	·1036	5. 29	·01609			
9. 55	43. 15	2. 22	·1038	7. 31	·01537			
	***	2. 40	·1034	8. 44	·01530			
12. 47	42. 0		***	10. 52	·01550			
	***	4. 5	·1039	14. 3	·01712			
14. 14	42. 30		***		·01650			
	***	5. 0	·1036	15. 30	·01652			
17. 55	38. 35		***	15. 39	·01617			
18. 14	39. 30	5. 22	·1034	16. 43	·01664			
19. 3	39. 30		***		·01638			
19. 36	41. 20	7. 0	·1038	17. 56	·01670			
20. 5	38. 30		***	17. 59	·01658			
21. 0	39. 30	7. 15	·1042	18. 43	·01672			
21. 27	42. 30		***	18. 46	·01656			
22. 3	42. 0	9. 21	·1044	19. 14	·01665			
23. 41	46. 20		***	19. 46	·01659			
23. 59	46. 30	10. 27	·1044	19. 50	·01643			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 18 h m		Aug. 18 h m		h m	°	°
		10. 32	·1042	23. 59	·01590			
			***					
		13. 30	·1051					
			***					
		13. 37	·1050					
			***					
		13. 43	·1056					
			***					
		14. 0	·1053					
			***					
		15. 30	·1054					
			***					
		15. 40	·1058					
			***					
		17. 45	·1059					
			***					
		18. 15	·1054					
			***					
		18. 42	·1054					
			***					
		19. 7	·1050					
			***					
		20. 0	·1050					
			***					
		20. 20	·1052					
			***					
		22. 0	·1044					
			***					
		23. 30	·1040					
			***					
		23. 59	·1035					
Aug. 19		Aug. 19		Aug. 19		Aug. 19		
0. 0	21. 46. 30	0. 0	·1035		(†)	1. 40	64 ·0	65 ·0
1. 31	49. 10	1. 8	·1038	1. 1	·01549	3. 40	65 ·0	66 ·0
	***	1. 30	·1042	2. 31	·01509	9. 40	65 ·5	66 ·2
3. 6	48. 30	1. 51	·1038	4. 54	·01320	21. 40	62 ·5	64 ·0
5. 12	46. 0	2. 20	·1042	6. 13	·01256			
5. 44	44. 40	2. 30	·1039	6. 25	·01233			
6. 10	45. 10	2. 37	·1045	7. 14	·01190			
7. 0	45. 20	2. 41	·1042	10. 45	·01117			
8. 32	44. 30	2. 48	·1043	17. 54	·01460			
9. 10	40. 5	2. 52	·1040	18. 14	·01436			
10. 10	42. 40	3. 16	·1044	19. 39	·01502			
10. 32	42. 10	3. 40	·1038	21. 22	·01529			
10. 46	43. 0	3. 54	·1044	23. 37	·01496			
11. 27	42. 20	4. 2	·1040	23. 59	·01450			
11. 36	42. 55	4. 32	·1043					
13. 48	42. 0	4. 47	·1038					
14. 30	42. 45	5. 10	·1042					
14. 50	41. 30	5. 45	·1040					
15. 52	42. 20	5. 52	·1043					
16. 28	41. 15	5. 57	·1041					
17. 15	43. 25	6. 8	·1046					
20. 17	40. 30	6. 22	·1040					
21. 21	42. 30	7. 2	·1054					
22. 29	45. 30	7. 22	·1050					
22. 46	47. 10	7. 35	·1050					
23. 59	49. 30	7. 55	·1052					

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	° ′ ″	Aug. 19 h m		h m		h m	°	°
		8. 24	·1050					
		8. 30	·1053					
		8. 47	·1048					
		9. 0	·1057					
		9. 31	·1052					
		10. 6	·1051					
		10. 34	·1046					
		10. 54	·1047					
		11. 45	·1045					
		13. 25	·1048					
		13. 45	·1046					
		14. 11	·1047					
		14. 26	·1050					
		15. 32	·1047					
		16. 0	·1051					
		16. 45	·1052					
		17. 24	·1050					
		17. 52	·1053					
		20. 0	·1051					
		21. 13	·1044					
		21. 25	·1046 ***					
		22. 24	·1039 ***					
		22. 37	·1030 ***					
		23. 14	·1036 ***					
		23. 45	·1030 ***					
		23. 59	·1028					
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
0. 0	21. 49. 30	0. 0	·1028		(†)	1. 40	65 ·0	65 ·0
0. 48	49. 30	1. 53	·1030	1. 1	·01432	3. 40	65 ·0	66 ·0
1. 33	47. 55 ***	2. 30	·1034	1. 43	·01412	9. 40	64 ·0	65 ·5
		2. 35	·1045	5. 3	·01150	21. 40	63 ·0	63 ·5
4. 15	46. 20 ***	2. 37	·1033	6. 45	·01067			
		2. 40	·1042	7. 42	·01043			
10. 7	43. 30	2. 44	·1033	8. 46	·01060			
10. 55	41. 20	2. 49	·1043	11. 16	·01150			
11. 24	41. 20	2. 51	·1034	15. 4	·01163			
11. 31	40. 30	2. 57	·1049	16. 30	·01258			
11. 47	41. 30	3. 3	·1037	17. 1	·01270			
12. 1	43. 30	3. 7	·1049	17. 15	·01250			
12. 16	43. 0	3. 13	·1039	19. 28	·01339			
12. 34	41. 50	3. 21	·1047	21. 54	·01359			
12. 56	41. 0	3. 26	·1042 ***	23. 31	·01338			
13. 11	42. 10							
13. 32	42. 15	4. 0	·1036 ***					
13. 46	40. 30							
13. 54	41. 40	4. 37	·1044 ***					
14. 25	42. 0							
15. 5	39. 50	5. 30	·1045 ***					
15. 17	41. 5							
15. 30	39. 5	5. 54	·1050 ***					
15. 41	40. 30							
16. 32	41. 0	6. 22	·1053 ***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 20 h m	° ′ ″	Aug. 20 h m		h m		h m	°	°
16. 57	21. 40. 35	9. 18	·1057 ***					
17. 13	41. 0							
17. 42	39. 30	10. 35	·1054					
18. 1	40. 0	10. 42	·1056					
18. 17	39. 0	11. 9	·1053					
18. 30	40. 30	11. 20	·1055					
18. 33	40. 30	12. 0	·1050					
18. 58	42. 55 ***	12. 22	·1054					
		13. 52	·1060					
20. 17	39. 50	14. 7	·1056					
20. 29	40. 50	14. 25	·1059 ***					
20. 35	40. 10							
22. 33	47. 0 (†)	15. 33	·1054 ***					
23. 43	46. 10	15. 52	·1057 ***					
23. 59	46. 55							
		19. 30	·1044 ***					
		20. 43	·1045 ***					
		22. 30	·1032					
		23. 59	·1036					
Aug. 21		Aug. 21		Aug. 21		Aug. 21		
0. 0	21. 47. 0	0. 0	·1036	0. 0	·01118	1. 40	63 ·0	64 ·0
1. 3	49. 40	0. 18	·1043	0. 58	·01097	3. 40	64 ·0	65 ·0
1. 22	48. 50	0. 45	·1042	2. 26	·01058	9. 40	65 ·0	66 ·2
2. 12	49. 30	1. 2	·1044	3. 22	·00986	21. 40	63 ·0	64 ·0
2. 16	48. 15	1. 21	·1038	5. 18	·00767			
2. 25	50. 0 ***	1. 30	·1044	7. 50	·00524			
		1. 53	·1042	9. 40	·00365			
3. 26	47. 0	2. 9	·1042	10. 35	·00390			
3. 32	45. 50	2. 15	·1038	10. 54	·00282			
4. 13	44. 15	2. 25	·1047	12. 42	·00338			
5. 24	45. 5	2. 40	·1049	13. 57	·00361			
5. 33	44. 0	2. 55	·1034	16. 7	·00444			
5. 43	44. 20	3. 13	·1042	16. 55	·00523			
5. 45	43. 10	3. 17	·1039	18. 50	·00650			
6. 0	41. 10	3. 27	·1044	20. 20	·00748			
7. 4	43. 10	3. 35	·1042	22. 27	·00809			
8. 0	44. 0	3. 45	·1047	23. 14	·00801			
8. 16	43. 10	4. 7	·1043					
8. 57	42. 45	4. 20	·1044					
9. 6	41. 50	4. 25	·1040					
9. 14	42. 10	4. 33	·1043					
9. 17	41. 30	4. 40	·1040					
10. 36	44. 10	5. 10	·1044					
11. 15	43. 45	5. 16	·1040					
11. 46	43. 0	5. 28	·1045					
12. 13	45. 0	5. 35	·1038					
12. 47	40. 35	5. 37	·1043					
13. 29	42. 0	5. 55	·1035					
14. 31	39. 50	6. 21	·1037					
14. 52	43. 0	6. 39	·1045					
15. 0	42. 35	6. 52	·1042					
15. 17	45. 15	7. 40	·1050					
15. 53	43. 30	8. 28	·1047					
16. 13	40. 0	8. 51	·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.
Aug.21		Aug.21						
h m	° ′ ″	h m		h m		h m	°	°
16. 40	21. 40. 15	9. 8	·1045					
16. 47	41. 40	9. 17	·1047					
17. 0	41. 20	9. 40	·1045					
17. 14	42. 0	10. 7	·1044					
17. 17	41. 20	11. 0	·1037					
17. 32	41. 55	12. 6	·1055					
19. 43	39. 45	12. 52	·1059					
19. 47	41. 50	13. 20	·1051					
19. 57	39. 40	13. 37	·1050					
21. 13	40. 40	13. 43	·1048					
22. 38	45. 15	14. 4	·1048					
23. 1	46. 0	14. 15	·1054					
23. 13	46. 55	14. 39	·1052					
23. 59	48. 0	14. 56	·1053					
		15. 13	·1047					
		15. 54	·1056					
		16. 5	·1054					
		16. 11	·1055					
		16. 30	·1051					
		19. 3	·1051					
		19. 26	·1050					
		20. 37	·1052					
		21. 30	·1048					
		22. 37	·1042					
		23. 0	·1044					
		23. 48	·1036					
Aug.22		Aug.22		Aug.22		Aug.22		
0. 0	21. 48. 5	0. 35	·1028	0. 43	·00438	1. 40	65 ·0	66 ·0
1. 27	49. 0	0. 52	·1037	1. 0	·00423	3. 40	66 ·0	67 ·0
2. 4	49. 30	1. 30	·1043	1. 25	·00349	9. 40	65 ·0	66 ·0
4. 30	45. 30		***	1. 43	·00381	21. 40	57 ·0	58 ·5
4. 47	45. 30	3. 39	·1043	3. 1	·00386			
5. 0	44. 10	3. 57	·1039	4. 27	·00382			
5. 20	43. 5	4. 5	·1042	7. 7	·00443			
6. 0	43. 0	4. 22	·1040	9. 18	·00417			
6. 20	43. 30	4. 32	·1042	9. 40	·00371			
6. 30	36. 30	4. 40	·1040	9. 50	·00385			
6. 57	36. 30	4. 50	·1044	10. 13	·00390			
7. 16	34. 50	5. 7	·1037	10. 28	·00415			
7. 30	37. 10	5. 22	·1042	11. 12	·00427			
7. 45	38. 45	5. 35	·1037	13. 5	·00493			
8. 13	37. 0	5. 50	·1042	13. 22	·00584			
8. 21	39. 30	6. 4	·1038	13. 37	·00628			
8. 42	35. 40	6. 35	·1042	14. 15	·00695			
9. 2	42. 20	6. 49	·1032	15. 27	·00877			
9. 24	35. 45	7. 7	·1047	17. 18	·01284			
9. 42	37. 45	7. 17	·1044		·01265			
9. 57	37. 30	7. 30	·1043	18. 11	·01258			
10. 12	42. 5	7. 51	·1035	18. 54	·01283			
10. 43	37. 30	7. 55	·1028	19. 52	·01271			
11. 3	32. 50	8. 10	·1033	21. 10	·01334			
11. 21	34. 0	8. 21	·1030	21. 51	·01343			
11. 28	36. 50	8. 33	·1041		·01195			
11. 40	34. 40	8. 55	·1038	23. 14	·01297			
11. 48	35. 50	9. 10	·1050	23. 45	·01290			
11. 55	35. 30	9. 35	·1028	23. 59	·01296			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.22		Aug.22						
h m	° ′ ″	h m		h m		h m	°	°
12. 28	21. 41. 30	9. 42	·1032					
12. 55	36. 45	9. 54	·1021					
13. 20	44. 35	10. 0	·1022					
13. 32	42. 25	10. 6	·1017					
13. 52	42. 35	10. 20	·1021					
14. 15	39. 30	10. 33	·1038					
	***	10. 37	·1037					
14. 42	44. 10	10. 45	·1017					
	***	11. 9	·1030					
15. 13	41. 40	11. 20	·1029					
15. 26	42. 50	11. 25	·1026					
	***	11. 30	·1018					
15. 47	41. 30	11. 40	·1024					
16. 18	44. 40	11. 54	·1021					
16. 36	47. 45	12. 40	·1036					
16. 47	47. 30	12. 43	·1032					
16. 52	48. 30	13. 6	·1032					
17. 15	45. 15	13. 48	·1066					
17. 35	46. 45	13. 54	·1056					
17. 54	44. 30	14. 5	·1060					
18. 15	45. 0	14. 11	·1055					
18. 24	52. 15	14. 24	·1055					
18. 28	52. 10	14. 37	·1050					
18. 40	54. 50	14. 49	·1050					
19. 24	46. 5	15. 0	·1056					
19. 40	38. 45	15. 10	·1058					
20. 26	39. 30	15. 22	·1055					
20. 43	41. 50	15. 40	·1057					
20. 47	40. 0	16. 27	·1043					
21. 20	41. 10	16. 50	·1049					
21. 31	39. 30	17. 5	·1042					
22. 3	41. 0	17. 22	·1050					
22. 15	42. 45	17. 30	·1049					
22. 52	44. 0	18. 32	·1007					
22. 57	42. 0	19. 2	·1037					
23. 3	45. 30	19. 10	·1032					
23. 10	44. 0	19. 32	·1039					
23. 16	45. 50	19. 51	·1035					
23. 22	48. 30	19. 55	·1024					
23. 36	48. 10	20. 11	·1034					
		20. 21	·1030					
			***					
		20. 34	·1040					
		20. 54	·1037					
		21. 3	·1030					
		21. 7	·1036					
		21. 15	·1036					
		21. 28	·1024					
		22. 7	·1026					
		22. 22	·1029					
		22. 30	·1025					
		23. 6	·1022					
		23. 10	·1034					
		23. 17	·1022					
		23. 30	·1044					
		23. 36	·1035					
		23. 43	·1029					

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. 23		Aug. 23		Aug. 23		Aug. 23		
h m	° ′ ″	h m		h m		h m	°	°
0. 20	21. 48. 10	0. 26	·1031	0. 42	·01297	1. 40	59 ·0	60 ·2
0. 39	46. 40	0. 30	·1029	0. 50	·01300	3. 40	61 ·0	62 ·0
	***	0. 40	·1038	1. 22	·01261	9. 40	63 ·5	64 ·0
1. 15	52. 55	0. 53	·1044	1. 50	·01258	22. 18	59 ·8	60 ·4
1. 29	47. 40	1. 2	·1054	2. 27	·01200			
1. 43	47. 25	1. 7	·1052	3. 0	·01084			
2. 5	54. 0	1. 24	·1013	3. 15	·01063			
2. 14	52. 20	1. 40	·1020	3. 22	·01024			
2. 18	55. 20	2. 7	·1058	4. 14	·00864			
2. 24	53. 55	2. 15	·1048	4. 28	·00838			
2. 30	56. 30	2. 22	·1066	5. 44	·00533			
2. 41	54. 40	2. 29	·1051	6. 18	·00414			
2. 46	56. 0	2. 37	·1058	6. 30	·00395			
2. 55	50. 40	2. 45	·1045	7. 3	·00426			
3. 18	51. 15	2. 51	·1046	7. 47	·00427			
3. 26	48. 15	3. 7	·0994	8. 2	·00403			
3. 30	49. 5	3. 9	·0995	8. 22	·00439			
4. 13	45. 0	3. 19	·1009	8. 35	·00420			
4. 30	47. 30	3. 25	·1000	8. 44	·00362			
4. 42	46. 30	3. 45	·1025	9. 40	·00379			
4. 46	46. 50	3. 58	·1022	10. 6	·00381			
5. 3	45. 0	4. 22	·1043	10. 13	·00397			
5. 10	43. 15	4. 34	·1044	11. 22	·00368			
5. 17	43. 0	4. 50	·1033	13. 37	·00436			
5. 33	44. 30	4. 57	·1035	14. 30	·00450			
5. 43	43. 40	5. 13	·1031	16. 5	·00538			
6. 12	45. 10	5. 21	·1032	17. 7	·00598			
6. 27	43. 10	5. 30	·1045	17. 52	·00684			
6. 44	44. 10	5. 40	·1034	20. 12	·00900			
6. 54	45. 40	6. 0	·1037	21. 0	·00958			
7. 15	45. 25	6. 7	·1034	22. 2	·00986			
7. 36	48. 30	6. 21	·1040		(†)			
8. 11	28. 20	6. 45	·1040					
8. 29	49. 0	7. 0	·1048					
8. 37	42. 10	7. 10	·1042					
8. 56	34. 30	7. 26	·1049					
9. 10	35. 10	7. 30	·1062					
9. 23	34. 5	7. 39	·1060					
9. 32	38. 0	7. 44	·1072					
10. 0	39. 30	7. 47	·1070					
10. 9	41. 50	7. 54	·1049					
11. 13	40. 50	8. 21	·1112					
11. 38	42. 10	8. 26	·1109					
11. 48	40. 50	8. 30	·1107					
12. 32	41. 10	8. 39	·1054					
12. 52	39. 20	8. 45	·1054					
14. 12	40. 40	8. 51	·1045					
16. 17	40. 35	9. 10	·1049					
16. 24	41. 50	9. 20	·1041					
16. 53	42. 20	9. 31	·1041					
17. 23	41. 30	9. 36	·1045					
18. 10	42. 20	9. 40	·1025					
18. 17	41. 30	10. 2	·1010					
19. 17	41. 5	10. 7	·1029					
19. 23	40. 0	10. 28	·1026					
20. 28	40. 30	10. 37	·1032					
20. 37	42. 35	10. 45	·1030					
20. 48	41. 30	11. 2	·1032					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 24		
h m	° ′ ″	h m		h m		h m	°	°
20. 58	21. 43. 0	11. 8	·1026			6. 54	66 ·0	66 ·0
21. 44	43. 45	11. 43	·1030			12. 40	65 ·8	66 ·5
	(†)	11. 54	·1036			13. 40	65 ·5	66 ·5
22. 18	43. 44*	12. 5	·1033			14. 40	65 ·3	66 ·0
		12. 33	·1042			15. 40	65 ·0	66 ·0
		12. 54	·1034			16. 40	64 ·8	65 ·7
		14. 16	·1041			17. 40	64 ·5	65 ·5
		14. 26	·1038			18. 40	64 ·4	65 ·5
		16. 7	·1041			19. 40	64 ·5	65 ·5
		16. 22	·1038			20. 40	64 ·4	65 ·5
		17. 9	·1043			21. 40	64 ·8	65 ·7
		17. 22	·1039			22. 40	65 ·1	65 ·9
		18. 6	·1041			23. 40	65 ·8	66 ·4
		19. 13	·1040					
		19. 30	·1044					
		20. 10	·1039					
		20. 24	·1040					
		20. 35	·1045					
		20. 45	·1042					
		21. 12	·1042					
		21. 21	·1040					
		21. 44	·1039					
		22. 0	·1018					
		22. 45	·1023					
		23. 21	·1023					
		23. 59	·1028					
Aug. 24		Aug. 24		Aug. 24				
0. 0	21. 45. 0	0. 0	·1028	0. 0	·00717			
0. 46	45. 55	0. 22	·1030	1. 2	·00658			
	(†)		(†)		(†)			
6. 44	43. 55	6. 44	·1029	6. 47	·00427			
7. 53	44. 45	7. 10	·1026	7. 28	·00456			
8. 55	42. 20	7. 22	·1026	8. 20	·00538			
	(†)	7. 37	·1022	12. 5	·00498			
11. 26	38. 40	8. 3	·1025	13. 0	·00494			
12. 22	39. 0	8. 21	·1022	13. 15	·00452			
12. 54	47. 55	8. 34	·1028	14. 8	·00465			
13. 44	41. 30	8. 57	·1020	14. 45	{·00485			
14. 11	43. 0	9. 7	·1024		{·00622			
14. 31	47. 0	10. 37	·1023	16. 51	·00664			
14. 40	46. 30	10. 57	·1036	18. 40	·00701			
14. 47	43. 30	11. 28	·1030	18. 48	·00770			
16. 12	42. 45	12. 0	·1034	20. 55	·00830			
16. 42	46. 0	12. 19	·1044	22. 9	·00807			
16. 58	42. 30	12. 27	·1051		(†)			
18. 16	39. 5	12. 47	·1036					
19. 49	41. 45	13. 15	·1034					
21. 14	45. 5	13. 37	·1045					
	(†)	14. 0	·1048					
21. 40	45. 27*	14. 35	·1056					
		14. 45	·1054					
		15. 3	·1059					
		15. 42	·1044					
		16. 6	·1028					
		16. 54	·1044					
		18. 0	·1028					
		18. 30	·1028					
		19. 25	·1020					

August 24. Declination. Parts of the Register were lost, and the times are inferred from the time-scale of the Horizontal Force Register, and are therefore approximate only.

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.24 h m		h m		h m	°	°
		19. 52	·1011					
		21. 24	·1015					
		21. 56	·1006					
		22. 32	·1015 (†)					
Aug.25		Aug.25		Aug.25		Aug.25		
1. 6	21. 46. 30		(†)		(†)	0. 40	66 ·2	66 ·5
1. 52	46. 30 (†)	1. 15	·1034 ***	1. 39	·00656	1. 40	66 ·6	67 ·1
				2. 41	·00624	2. 40	66 ·8	67 ·4
3. 40	44. 19* (†)	3. 0	·1030 ***	4. 25	·00638	3. 40	67 ·0	67 ·8
				5. 48	{·00438	4. 40	67 ·2	68 ·0
7. 30	42. 20	6. 30	·1028 ***		{·00517	5. 40	67 ·5	68 ·3
13. 58	40. 50 ***			7. 42	·00656	6. 40	67 ·8	68 ·5
		9. 0	·1032	9. 48	·00676	7. 40	67 ·6	68 ·5
15. 28	43. 0 ***	9. 30	·1028	11. 12	·00690	8. 40	67 ·5	68 ·0
		10. 0	·1030	13. 7	·00691	9. 40	67 ·5	68 ·0
21. 36	40. 30 ***	10. 30	·1028	12. 28	·00675	10. 40	68 ·0	68 ·5
		13. 37	·1034	13. 34	·00681	11. 40	68 ·0	69 ·0
23. 17	47. 30	14. 35	·1031	15. 47	·00634	21. 40	63 ·4	65 ·2
23. 59	48. 0	18. 0	·1030	17. 20	·00680			
		19. 6	·1026	18. 5	·00734			
		19. 43	·1022	19. 16	·00838			
		20. 15	·1018	20. 12	·00941			
		22. 20	·1012	21. 2	·01003			
		23. 59	·1022	21. 13	{·01024			
					{·01113			
				22. 30	·01256			
				23. 25	·01336			
				23. 59	·01354			
Aug.26		Aug.26		Aug.26		Aug.26		
0. 37	21. 48. 0	0. 0	·1022	0. 30	·01357	1. 40	64 ·0	65 ·4
1. 47	48. 30	0. 55	·1026	1. 47	·01395	3. 40	66 ·0	67 ·0
5. 25	39. 30	3. 30	·1042	2. 59	·01341	9. 40	66 ·0	67 ·0
6. 50	40. 0	3. 41	·1028	3. 43	·01270	21. 40	64 ·2	65 ·3
7. 0	40. 50	4. 20	·1027	3. 46	·01293			
10. 29	41. 30	4. 29	·1021	6. 12	·01037			
10. 56	38. 30 ***	5. 28	·1020	7. 10	·01025			
		5. 40	·1019	9. 26	·00782			
11. 24	41. 0 ***	7. 30	·1024	10. 58	·00757			
		7. 42	·1026	13. 22	·00835			
12. 33	42. 10 ***	7. 55	·1032	14. 54	·00906			
		9. 14	·1030	17. 10	·01238			
15. 24	40. 20 ***	9. 30	·1032	18. 32	·01377			
		9. 47	·1029	20. 5	·01481			
17. 2	39. 55	10. 52	·1037	21. 22	·01390			
17. 39	42. 0	11. 15	·1034	22. 35	·01448			
18. 10	41. 50	12. 24	·1038	23. 59	·01258			
18. 56	42. 10	12. 40	·1043					
19. 22	41. 0	14. 8	·1045					
21. 32	42. 10	16. 37	·1050					
22. 15	44. 0	17. 35	·1050					
22. 34	45. 30	18. 5	·1054					
23. 41	47. 0	18. 25	·1054					
		19. 15	·1055					
		19. 40	·1052					
		21. 56	·1046					
		22. 30	·1045					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.26 h m		h m		h m	°	°
		22. 50	·1048					
		23. 35	·1044					
		23. 50	·1044					
Aug.27		Aug.27		Aug.27		Aug.27		
0. 16	21. 46. 50	0. 5	·1044	0. 23	·01331	1. 40	67 ·0	67 ·5
1. 4	47. 40	1. 33	·1042	1. 10	·01516	3. 40	69 ·0	70 ·0
2. 17	46. 30	1. 45	·1044	2. 41	·01184	9. 40	70 ·5	72 ·0
3. 24	44. 0	3. 30	·1030 ***	3. 8	·01103	21. 40	63 ·0	65 ·0
6. 11	40. 30			4. 26	{·00745			
9. 52	42. 20 ***	3. 48	·1030 ***		{·00794			
				5. 25	·00795			
12. 40	40. 0 ***	5. 0	·1022 ***	7. 15	·00763			
				7. 19	·00840			
13. 26	42. 0 ***	5. 12	·1024 ***	8. 4	·00786			
				8. 18	·00808			
14. 40	40. 10 ***	5. 30	·1022 ***	9. 52	·00784			
				11. 27	·00803			
15. 54	41. 25 ***	8. 51	·1021	13. 10	·00902			
		8. 50	·1022	14. 8	·00996			
19. 1	38. 0	9. 0	·1025	16. 22	·01270			
21. 41	38. 45	10. 30	·1022	18. 10	·01603			
23. 59	48. 0	11. 30	·1024	18. 40	·01601			
		11. 55	·1027	23. 40	·01548			
		13. 9	·1030	23. 59	·01507			
		13. 18	·1033					
		14. 11	·1031					
		14. 27	·1032					
		15. 45	·1032					
		18. 35	·1042					
		19. 32	·1038					
		19. 52	·1038					
		21. 0	·1031					
		22. 7	·1024					
		23. 10	·1027					
		23. 30	·1030					
		23. 55	·1027					
Aug.28		Aug.28		Aug.28		Aug.28		
0. 0	21. 48. 5		(†)	1. 0	·01500	1. 40	65 ·0	65 ·6
	(†)	1. 39	·1034 ***	1. 47	·01516	3. 40	66 ·5	67 ·3
1. 39	49. 30 ***			2. 30	·01496	9. 40	68 ·5	70 ·0
		4. 30	·1043 ***	3. 55	·01285	21. 40	64 ·8	65 ·4
5. 0	41. 30 ***			4. 52	·01071			
		4. 54	·1048 ***	7. 5	·00729			
12. 20	42. 0 (†)	5. 10	·1044	8. 14	{·00622			
					{·00681			
15. 29	41. 30 ***	5. 14	·1049 ***	9. 32	·00683			
				10. 48	·00670			
15. 45	42. 30 ***	6. 6	·1049	14. 37	·00657			
		6. 13	·1043 ***	16. 50	·00748			
16. 22	40. 50 ***			18. 30	·00917			
		6. 46	·1051 ***	21. 5	·01263			
17. 3	41. 30 ***			22. 0	·01338			
		7. 11	·1049	22. 36	·01364			
19. 11	37. 35 ***	7. 47	·1054	23. 59	·01327			
		9. 22	·1049					
21. 4	39. 10 ***	10. 0	·1042					

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.28		Aug.28						
h m	° ′ ″	h m		h m		h m	°	°
23. 14	21. 46. 45	10. 20	·1045					
23. 59	48. 45	11. 21	·1042					
			(†)					
		16. 13	·1041					
		16. 42	·1038					
		18. 46	·1037					
		20. 15	·1029					
			***					
		23. 5	·1019					
		23. 40	·1022					
		23. 59	·1026					
Aug.29		Aug.29		Aug.29		Aug.29		
0. 0	21. 48. 50	0. 19	·1031	0. 0	·01356	1. 40	66 ·4	67 ·4
0. 23	49. 50	0. 37	·1034	1. 42	·01190	3. 40	68 ·0	68 ·5
1. 26	50. 50	2. 7	·1032	2. 34	·01082	9. 40	68 ·0	69 ·5
2. 51	47. 45	2. 32	·1029	3. 52	·00857	21. 40	60 ·5	62 ·0
4. 36	43. 0		***	6. 7	·00740			
5. 52	40. 50	4. 45	·1023	7. 10	·00726			
			***	8. 12	·00750			
10. 29	41. 10	7. 0	·1028	8. 50	·00760			
	***							
10. 48	40. 5	7. 30	·1026	9. 27	·00803			
11. 14	41. 45	8. 35	·1030	10. 10	·00806			
	***	10. 28	·1027	11. 26	·00918			
12. 2	42. 30	11. 23	·1032	13. 10	·01098			
	***	11. 37	·1029	14. 12	·01255			
15. 24	42. 10	11. 51	·1032	16. 0	·01576			
	***	11. 57	·1031	16. 12	·01550			
15. 43	42. 40	12. 5	·1034	19. 20	·01521			
	***	12. 30	·1033	21. 34	{·01460			
16. 32	39. 50	12. 40	·1046		{·01325			
	***	12. 50	·1038	22. 30	·01400			
17. 34	39. 55	15. 30	·1040	23. 3	·01425			
19. 33	38. 50	16. 3	·1043	23. 46	·01417			
20. 15	38. 30	17. 32	·1043					
22. 26	46. 0	17. 48	·1046					
	(†)	18. 20	·1043					
		18. 47	·1045					
		19. 20	·1040					
		19. 52	·1040					
		20. 54	·1037					
		21. 12	·1038					
		21. 45	·1035					
		22. 15	·1036					
		22. 38	·1034					
			(†)					
Aug.30		Aug.30		Aug.30		Aug.30		
0. 41	21. 51. 20	0. 38	·1032	0. 36	·01361	1. 40	65 ·0	66 ·0
2. 7	51. 5	1. 6	·1036	1. 28	·01258	3. 40	68 ·0	68 ·5
4. 12	45. 20	1. 35	·1035	2. 39	·01018	9. 40	69 ·5	70 ·5
4. 17	45. 25	1. 51	·1037	3. 48	·00670	22. 40	65 ·0	66 ·5
4. 28	44. 15	2. 22	·1037	5. 10	·00725			
5. 32	42. 30	2. 39	·1032	10. 27	·00687			
5. 47	42. 40	4. 2	·1023	11. 17	·00678			
6. 10	41. 50	4. 23	·1026	14. 12	·00898			
6. 55	43. 20	4. 34	·1019	15. 58	·01084			
9. 30	42. 30	4. 50	·1018	18. 7	·01291			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.30		Aug.30		Aug 30				
h m	° ′ ″	h m		h m		h m	°	°
10. 0	21. 38. 20	5. 24	·1025	20. 0	·01457			
10. 12	40. 0	5. 40	·1019	21. 58	·01556			
10. 20	38. 30		***	23. 9	·01541			
	***	7. 0	·1020					
10. 46	42. 0		***					
	***	8. 35	·1031					
11. 2	45. 30	9. 18	·1027					
	***	9. 40	·1026					
11. 32	42. 30	9. 55	·1024					
	***	10. 12	·1028					
13. 27	43. 10	10. 28	·1042					
	***	10. 32	·1042					
17. 7	42. 0	10. 52	·1032					
19. 10	41. 5	10. 56	·1036					
19. 25	41. 40	11. 22	·1027					
19. 37	40. 50	13. 32	·1039					
19. 45	41. 0	14. 13	·1040					
20. 7	40. 0	14. 24	·1044					
20. 15	41. 0	14. 50	·1044					
20. 30	40. 5	17. 6	·1052					
22. 16	47. 30	17. 28	·1050					
23. 36	48. 30	18. 10	·1053					
23. 43	51. 0	18. 27	·1051					
23. 48	50. 50	18. 44	·1056					
23. 57	52. 0	18. 55	·1050					
23. 59	51. 50	19. 7	·1052					
			***					
		20. 36	·1047					
		20. 47	·1043					
		21. 0	·1044					
		21. 10	·1042					
		21. 15	·1037					
		22. 0	·1034					
		22. 16	·1035					
		22. 50	·1031					
		23. 59	·1025					
Aug.31		Aug.31		Aug.31		Aug.31		
0. 0	21. 51. 30	0. 0	·1025	0. 0	·01517	8. 40	69 ·5	70 ·0
0. 10	50. 30	0. 22	·1026	1. 5	·01436	12. 40	67 ·0	68 ·2
0. 23	52. 0	0. 42	·1032	2. 12	·01298	13. 40	66 ·5	67 ·5
0. 26	51. 30	1. 18	·1034	3. 17	·01088	14. 40	65 ·5	66 ·9
0. 38	51. 50	1. 24	·1031	4. 12	{·00763	15. 40	64 ·6	66 ·0
0. 41	52. 55	1. 30	·1034		{·00881	16. 40	64 ·1	65 ·7
0. 47	51. 5	2. 18	·1027	4. 28	{·00794	17. 40	63 ·0	65 ·0
0. 54	53. 0	2. 36	·1031		{·00958	18. 40	62 ·5	64 ·0
1. 13	51. 5	2. 44	·1038	8. 2	·00881	19. 40	62 ·5	63 ·5
1. 17	52. 5	2. 57	·1020	8. 16	·00915	20. 40	61 ·0	62 ·5
	***	3. 11	·1032	10. 7	·00957	21. 40	61 ·8	63 ·5
1. 41	53. 0	3. 21	·1028	10. 59	·00997	22. 40	62 ·0	63 ·3
1. 46	52. 0	3. 26	·1018	12. 25	·01057	23. 40	63 ·0	64 ·0
	***	3. 32	·1026	15. 32	·01522			
2. 28	51. 40	3. 35	·1016	15. 55	·01556			
2. 32	53. 10	3. 39	·1019	16. 34	·01501			
2. 47	49. 0	3. 44	·1006	17. 10	·01518			
2. 59	50. 30	4. 5	·1022	17. 45	·01521			
3. 29	48. 10	5. 6	·1026	18. 14	·01539			

August 25. Declination. Parts of the Register were lost, and the times are inferred from the time-scale of the Horizontal Force Register, and are therefore only approximate.

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. 31		Aug. 31		Aug. 31		h m	°	°
h m	° ′ ″	h m		h m				
3. 38	21. 45. 20	5. 21	·1034	20. 40	·01523			
5. 21	42. 40	5. 34	·1023	23. 59	·01543			
6. 47	43. 0	5. 54	·1027					
7. 15	44. 10	6. 25	·1017					
7. 32	43. 0	6. 55	·1022					
7. 43	43. 30	7. 6	·1021					
7. 55	41. 50	7. 15	·1026					
8. 7	42. 50	7. 24	·1026					
8. 18	41. 15	7. 32	·1029					
	***	7. 37	·1024					
8. 44	40. 30	7. 54	·1028					
	***	8. 6	·1024					
9. 17	42. 40	8. 11	·1026					
9. 45	40. 25	8. 21	·1021					
	***	8. 30	·1021					
10. 10	42. 0	8. 41	·1016					
	***	9. 18	·1020					
10. 33	41. 0	9. 45	·1032					
	***	10. 0	·1040					
10. 48	37. 0	10. 6	·1035					
11. 8	36. 30	10. 17	·1033					
	***	10. 24	·1039					
11. 17	34. 0	10. 32	·1039					
	***	10. 45	·1059					
11. 38	36. 20	11. 0	·1065					
	***	12. 17	·1039					
12. 12	33. 50	13. 0	·1035					
	***	13. 34	·1043					
12. 45	38. 10	13. 46	·1037					
	***	14. 20	·1046					
13. 3	37. 15	14. 38	·1041					
	***	14. 55	·1045					
13. 12	38. 45	15. 7	·1042					
	***	15. 24	·1044					
13. 55	40. 5	15. 42	·1038					
	***	16. 7	·1054					
14. 18	36. 0	16. 40	·1038					
	***	16. 59	·1040					
14. 50	37. 30	17. 6	·1038					
14. 55	40. 0	17. 23	·1044					
15. 3	40. 30	17. 57	·1039					
15. 20	48. 10	18. 18	·1040					
15. 40	48. 30	18. 48	·1040					
16. 26	37. 5	18. 52	·1044					
16. 54	41. 30	19. 6	·1040					
	***	19. 13	·1043					
19. 39	36. 50	19. 22	·1035					
19. 46	39. 30	19. 44	·1037					
19. 54	38. 35	20. 20	·1022					
	***	20. 30	·1021					
20. 41	42. 10	20. 47	·1013					
21. 2	45. 0	21. 8	·1020					
21. 54	44. 5	21. 57	·1018					
22. 10	47. 0	22. 22	·1023					
23. 0	46. 45	22. 43	·1021					
23. 59	48. 30	23. 7	·1026					
		23. 27	·1025					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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		Sept. 1		Sept. 1		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 30		(†)		(†)	0. 40	64 ·0	65 ·0
1. 25	49. 30	1. 13	·1027	1. 3	·01447	1. 40	65 ·0	66 ·0
1. 40	48. 40	1. 30	·1028	2. 8	·01316	2. 40	66 ·0	67 ·0
2. 8	52. 30	2. 0	·1040	3. 0	·01141	3. 40	67 ·0	68 ·0
2. 26	51. 45	2. 24	·1018	3. 16	·01082	4. 40	67 ·3	68 ·5
2. 31	52. 20	2. 30	·1019	5. 4	·00705	5. 40	67 ·6	68 ·5
2. 47	49. 20	2. 44	·1006	5. 25	·00688	6. 40	67 ·7	68 ·5
2. 50	49. 30	2. 48	·1011		·00721	7. 40	67 ·5	68 ·0
2. 55	48. 40	2. 52	·1010	6. 0	·00738	8. 40	67 ·2	67 ·8
3. 5	50. 30	3. 0	·1018	6. 24	·00691	9. 40	67 ·0	68 ·0
3. 13	48. 40	3. 10	·1013	6. 33	·00706	10. 40	67 ·0	68 ·0
3. 17	50. 0	3. 15	·1019	7. 10	·00446	11. 40	66 ·5	68 ·0
3. 24	49. 0	3. 19	·1018	7. 19	·00662	21. 40	59 ·5	60 ·5
3. 32	51. 10	3. 35	·1037	8. 19	·00620			
3. 44	50. 15	3. 47	·1014	8. 50	·00636			
3. 47	48. 10	4. 9	·1022	9. 48	·00627			
4. 14	48. 0	4. 26	·1012	11. 13	·00698			
4. 28	46. 15	4. 35	·1021	13. 30	·00892			
4. 43	47. 5	4. 45	·1010	13. 46	·00938			
4. 59	44. 30	5. 0	·1005	14. 26	·00965			
5. 8	41. 10	5. 10	·1014	17. 15	·01508			
5. 15	42. 0	5. 35	·1009	17. 22	·01482			
5. 20	40. 0	5. 39	·1003	21. 38	·01283			
5. 40	44. 20	5. 46	·1003		·01343			
5. 48	42. 30	5. 56	·1028	22. 30	·01421			
6. 4	44. 30	6. 21	·1010	23. 32	·01456			
6. 20	41. 10	6. 32	·1028					
6. 36	46. 40	6. 45	·1016					
6. 55	43. 50	7. 0	·1013					
7. 7	44. 0	7. 9	·1001					
7. 17	34. 30	7. 16	·1021					
	***	7. 30	·1038					
8. 3	38. 30	7. 45	·1042					
8. 16	31. 15	8. 5	·1040					
8. 22	30. 10	8. 15	·1019					
8. 35	33. 10	8. 21	·1032					
8. 52	29. 30	8. 30	·1036					
9. 1	32. 30	8. 42	·1026					
9. 9	31. 30	9. 3	·1046					
	***	9. 9	·1038					
10. 10	38. 40	9. 20	·1043					
	***	9. 48	·1016					
10. 18	41. 30	11. 0	·1022					
	***	12. 58	·1029					
11. 10	42. 30	13. 14	·1037					
	***	13. 22	·1031					
12. 41	40. 5	13. 32	·1021					
	***	13. 45	·1028					
13. 8	42. 15	14. 3	·1044					
	***	14. 36	·1046					
13. 24	38. 40	15. 5	·1033					
	***	15. 43	·1035					
13. 45	52. 30	16. 0	·1037					
	***		***					
15. 15	36. 30	16. 35	·1035					
	***		***					
15. 25	38. 30	18. 0	·1037					
	***	20. 10	·1034					
		20. 30	·1036					

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.
Sept. 1		Sept. 1						
h m	° ′ ″	h m		h m		h m	°	°
16. 11	21. 36. 40	20. 47	·1032					
	***	21. 37	·1026					
17. 1	38. 45	22. 5	·1017					
	***	22. 18	·1022					
20. 15	41. 30	22. 35	·1018					
	***	23. 45	·1024					
20. 32	42. 20	23. 59	·1028					
	***							
20. 47	43. 30							
	***							
22. 8	45. 0							
22. 41	47. 40							
22. 54	47. 20							
23. 59	49. 5							
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 0	21. 49. 0	0. 0	·1028	0. 0	·01456	1. 40	63 ·0	63 ·5
0. 7	48. 40	0. 17	·1029	0. 51	·01443	3. 40	65 ·0	66 ·0
0. 45	51. 15	0. 24	·1028	2. 0	·01359	9. 40	65 ·0	66 ·0
1. 10	50. 0	0. 35	·1033	2. 38	·01250	21. 40	56 ·0	57 ·0
1. 17	51. 50	1. 9	·1025	3. 20	·01178			
1. 36	49. 30	1. 14	·1034	5. 46	·00522			
1. 41	50. 30	1. 30	·1028		·00593			
2. 29	50. 0	2. 21	·1037	8. 6	·00546			
2. 42	46. 20	2. 36	·1021	8. 29	·00577			
2. 59	44. 40	2. 56	·1028	9. 20	·00538			
3. 6	42. 5		***	10. 13	·00558			
3. 18	40. 20	3. 10	·1021	11. 7	·00617			
4. 16	42. 50		***	11. 38	·00683			
6. 47	43. 15	3. 28	·1028	13. 50	·00977			
7. 24	42. 0		***	16. 6	·01400			
	***	3. 37	·1020		·01441			
7. 54	32. 20		***	17. 52	·01392			
	***	3. 59	·1027	21. 6	·01413			
8. 50	41. 50		***		·01326			
	***	4. 40	·1020	22. 13	·01417			
10. 28	41. 10		***	23. 37	·01376			
	***	5. 0	·1024					
11. 10	44. 10		***					
	***	5. 34	·1024					
12. 18	42. 0	6. 15	·1030					
	***	6. 51	·1028					
12. 51	47. 30	7. 0	·1032					
	***	7. 32	·1026					
13. 36	41. 30	7. 50	·1034					
	***	8. 4	·1044					
14. 30	39. 50	9. 7	·1032					
	***	11. 44	·1035					
14. 58	41. 30	12. 43	·1042					
	***	13. 15	·1052					
19. 25	42. 0	15. 10	·1046					
	***	15. 40	·1047					
19. 40	39. 35	15. 48	·1050					
19. 48	40. 30	15. 55	·1048					
20. 15	39. 0	17. 30	·1050					
21. 57	46. 30	18. 0	·1046					
	***	18. 26	·1043					
23. 1	48. 0	18. 33	·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.
		Sept. 2						
h m	° ′ ″	h m		h m		h m	°	°
		18. 36	·1042					
		19. 0	·1048					
		19. 18	·1046					
		19. 39	·1050					
		19. 45	·1040					
		19. 50	·1046					
		22. 20	·1015					
		23. 2	·1026					
Sept. 3		Sept. 3		Sept. 3		Sept. 3		
	(†)		(†)	0. 0	·01341	1. 40	60 ·7	62 ·0
1. 6	21. 47. 30	1. 5	·1023	0. 48	·01262	3. 40	63 ·5	64 ·5
2. 59	50. 0		***	1. 59	·01018	9. 40	68 ·0	69 ·5
3. 7	48. 30	1. 45	·1030	3. 48	·00522	21. 40	58 ·0	59 ·0
3. 20	48. 45	3. 15	·1036		·00558			
3. 28	46. 20	3. 22	·1032	5. 32	·00601			
3. 43	44. 50	3. 26	·1026	6. 35	·00558			
	***	3. 36	·1023	7. 30	·00569			
5. 33	42. 50	3. 50	·1028	9. 37	·00517			
5. 56	41. 30	4. 7	·1030	10. 28	·00537			
6. 32	36. 10	4. 29	·1034	12. 30	·00696			
	***	4. 34	·1031	13. 35	·00779			
7. 26	36. 5	4. 54	·1036	15. 49	·01094			
	***	5. 11	·1026	18. 31	·01482			
8. 2	49. 30	5. 28	·1034		·01477			
	***	5. 53	·1022	20. 7	·01460			
10. 38	43. 40	6. 13	·1033	20. 44	·01446			
	***	8. 15	·1033	22. 2	·01485			
12. 7	42. 30	8. 35	·1034		·01340			
	***	10. 0	·1033	22. 50	·01341			
12. 30	47. 50	10. 40	·1035	23. 59	·01276			
12. 48	45. 5	11. 9	·1036					
	***	11. 35	·1040					
13. 17	44. 40	12. 30	·1038					
	***	12. 57	·1045					
13. 35	42. 50	13. 42	·1038					
	***	15. 4	·1036					
14. 0	44. 0	16. 45	·1046					
	***	16. 58	·1048					
14. 48	42. 40	17. 6	·1046					
	***	17. 57	·1045					
15. 22	44. 30	18. 30	·1046					
15. 46	42. 10	20. 11	·1038					
	***	20. 55	·1019					
17. 30	42. 15		***					
17. 46	41. 0	21. 19	·1024					
	***		***					
19. 40	40. 20	22. 37	·1017					
21. 15	45. 15		***					
21. 47	44. 40	23. 0	·1022					
22. 9	45. 30		***					
22. 14	47. 10	23. 43	·1019					
22. 24	48. 0							
22. 32	47. 30							
	***							
23. 20	52. 5							
23. 40	51. 35							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
h m	° ′ ″	h m		h m		h m	°	°
	(†)		(†)		(†)	1. 40	63 ·5	64 ·5
1. 14	21. 51. 45	1. 10	·1018	1. 3	·01158	3. 40	67 ·0	68 ·0
	***	1. 45	·1007	2. 9	·00917	9. 40	64 ·0	65 ·0
2. 20	50. 0	2. 15	·1019	3. 11	·00638	21. 40	58 ·5	59 ·0
2. 34	48. 5	2. 22	·1016	3. 28	·00677			
	***	2. 35	·1018	4. 30	·00692			
3. 2	48. 30	3. 2	·1012	6. 50	·00663			
	***	3. 30	·1016	8. 7	·00644			
6. 4	42. 30	4. 13	·1014	9. 29	·00680			
6. 48	42. 30	4. 37	·1008	10. 30	·00738			
7. 23	39. 30	5. 8	·1013	12. 16	·00886			
7. 46	42. 20	5. 35	·1008	16. 22	{ ·01516			
8. 30	44. 30	6. 5	·1012		{ ·01494			
8. 36	42. 50	6. 24	·1010	20. 15	·01477			
	***	6. 52	·1012	22. 13	·01465			
8. 56	43. 10	7. 25	·1020	23. 0	·01468			
	***	7. 36	·1018	23. 30	·01470			
9. 10	42. 0	7. 50	·1019	23. 59	·01432			
	***	9. 0	·1014					
11. 56	44. 30	9. 32	·1020					
	***	9. 44	·1018					
13. 24	43. 50	9. 59	·1021					
	***	10. 32	·1015					
13. 42	45. 10	10. 45	·1017					
	***	10. 54	·1017					
14. 3	43. 15	11. 48	·1025					
	***	12. 0	·1023					
14. 56	45. 30	12. 14	·1024					
	***	12. 17	·1023					
15. 12	43. 10	12. 37	·1023					
	***	13. 11	·1021					
16. 3	42. 5	13. 20	·1025					
	***	13. 31	·1027					
16. 47	46. 30	14. 15	·1028					
	***	15. 0	·1035					
17. 18	46. 0	16. 8	·1034					
	***	16. 30	·1026					
18. 52	40. 20	16. 44	·1028					
19. 32	38. 30	16. 50	·1024					
19. 45	39. 30	17. 45	·1036					
	***	19. 56	·1036					
21. 30	39. 30	20. 4	·1031					
	***	20. 11	·1031					
22. 18	43. 30	20. 16	·1029					
	***	20. 22	·1032					
22. 44	43. 10	21. 50	·1022					
	***	22. 17	·1026					
23. 59	46. 10	22. 49	·1021					
		23. 7	·1020					
		23. 22	·1017					
		23. 52	·1019					
		23. 59	·1021					
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
0. 0	21. 46. 20	0. 0	·1021	0. 30	·01322	1. 40	63 ·0	63 ·5
0. 10	46. 55	0. 15	·1016	1. 52	·01117	3. 40	65 ·0	66 ·0
0. 15	46. 15	0. 22	·1020	3. 16	·00838	9. 40	63 ·0	63 ·8
0. 30	48. 0	0. 32	·1019	4. 41	·00514	21. 40	60 ·0	61 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 5		Sept. 5		Sept. 5				
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 47. 25	0. 51	·1024	5. 0	·0c576			
3. 15	46. 0	0. 59	·1027	6. 42	{ ·00534			
3. 28	44. 40	1. 17	·1029		{ ·00604			
3. 35	46. 0	1. 27	·1027	7. 59	·00528			
3. 44	44. 55	2. 20	·1026	9. 3	·00536			
4. 18	43. 40	2. 43	·1030	10. 0	·00598			
	***	3. 11	·1025	18. 26	·01426			
8. 44	42. 20	3. 21	·1021	19. 25	·01481			
	***	3. 33	·1026	20. 43	·01472			
9. 21	38. 15	4. 0	·1028	22. 33	·01473			
	***	4. 24	·1027	23. 59	·01391			
10. 25	42. 10	4. 50	·1022					
	***	5. 6	·1026					
11. 26	42. 35	5. 35	·1022					
	***	5. 53	·1025					
11. 39	41. 55	6. 11	·1025					
	***	6. 45	·1026					
12. 15	43. 40	7. 20	·1024					
	***	8. 35	·1026					
12. 52	41. 50	9. 17	·1032					
	***	10. 2	·1032					
13. 22	43. 15	10. 28	·1035					
	***	10. 45	·1037					
16. 37	41. 50	10. 55	·1034					
	***	11. 5	·1034					
17. 26	42. 15	11. 29	·1032					
17. 45	40. 0	11. 39	·1036					
	***	11. 52	·1036					
19. 8	38. 35	12. 7	·1032					
	***	12. 15	·1036					
21. 15	38. 0	12. 35	·1031					
23. 6	44. 55	13. 6	·1030					
23. 14	46. 5	13. 15	·1032					
23. 59	46. 55	15. 50	·1036					
		16. 2	·1037					
		16. 44	·1036					
		17. 6	·1037					
		17. 57	·1034					
		18. 30	·1036					
			***					
		20. 31	·1031					
			***					
		22. 30	·1018					
			***					
		23. 32	·1012					
		23. 59	·1013					
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
0. 0	21. 46. 55	0. 0	·1013	0. 0	·01366	1. 40	63 ·8	65 ·0
0. 16	46. 55	0. 28	·1018	0. 57	·01261	3. 40	66 ·0	67 ·0
0. 30	48. 5	0. 46	·1014	1. 58	·01098	9. 40	67 ·0	68 ·5
1. 1	46. 50	1. 2	·1016	2. 29	·00761	23. 15	60 ·0	61 ·0
1. 15	47. 20	1. 8	·1019	3. 38	·00596			
2. 14	46. 30	1. 33	·1018	3. 52	{ ·00682			
3. 2	43. 55		***		{ ·00720			
3. 22	43. 40	1. 53	·1022	4. 35	·00684			
3. 41	44. 10		***	8. 22	{ ·00656			
3. 52	43. 10	2. 52	·1018		{ ·00762			

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.
Sept. 6		Sept. 6		Sept. 6				
h m	° ′ ″	h m		h m		h m	°	°
4. 14	21. 43. 0	3. 37	·1026	10. 28	·00691			
4. 36	43. 15	4. 12	·1020	13. 50	·00817			
4. 45	44. 0	4. 30	·1020	15. 52	·01024			
7. 17	43. 10	4. 42	·1026	17. 45	·01283			
	***	5. 19	·1026	19. 26	·01542			
8. 5	42. 10	5. 41	·1022	19. 31	·01521			
	***	5. 54	·1020	20. 55	·01525			
8. 36	42. 50	6. 25	·1026	21. 46	·01500			
	***	7. 15	·1029	23. 48	·01512			
9. 13	39. 50	7. 35	·1029					
	***	8. 0	·1025					
10. 18	43. 30	8. 17	·1027					
	***	9. 0	·1024					
12. 2	42. 30	9. 13	·1025					
	***	9. 51	·1028					
12. 18	44. 5	10. 37	·1025					
	***	11. 58	·1030					
12. 40	42. 20	12. 22	·1035					
	***	13. 5	·1033					
13. 19	43. 25	13. 27	·1037					
	***	14. 6	·1031					
13. 56	41. 30	14. 37	·1034					
	***	15. 26	·1032					
14. 25	43. 30	16. 44	·1034					
	***	18. 35	·1035					
15. 0	41. 0	19. 46	·1034					
	***	20. 20	·1028					
18. 38	42. 15	21. 35	·1020					
	***	22. 7	·1010					
19. 48	39. 30	22. 21	·1010					
	***	22. 39	·1006					
20. 11	40. 25	22. 49	·1008					
	***	23. 0	·1003					
20. 24	39. 5							
20. 57	42. 15							
21. 9	42. 10							
21. 55	44. 10							
22. 8	46. 0							
	***							
23. 10	50. 50							
	***							
23. 30	50. 0							
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
0. 4	21. 50. 0	0. 5	·1009	0. 38	·01517	7. 15	68 ·5	69 ·0
0. 31	49. 50	1. 11	·1016	1. 20	·01483	12. 40	66 ·5	66 ·5
0. 48	50. 10	1. 29	·1011	2. 25	·01387	13. 40	65 ·8	66 ·0
2. 6	48. 5		***	3. 0	·01278	14. 40	65 ·0	65 ·4
2. 53	44. 5	2. 15	·1018	5. 15	·00625	15. 40	64 ·5	65 ·0
4. 32	40. 50		***		·00783	16. 40	64 ·5	65 ·2
6. 2	39. 30	2. 47	·1021	10. 11	·00664	17. 40	63 ·0	63 ·8
7. 37	41. 30	4. 24	·1019		·00753	18. 40	63 ·0	63 ·0
	***	4. 30	·1026	11. 10	·00782	19. 40	62 ·9	63 ·0
13. 14	42. 30	4. 35	·1019	14. 48	·01101	20. 40	62 ·5	62 ·5
	***	4. 37	·1021	18. 44	·01536	21. 40	61 ·8	62 ·8
14. 1	42. 35	6. 39	·1017		·01557	22. 40	62 ·5	63 ·5
	***	6. 55	·1019	21. 52	·01501	23. 40	63 ·0	63 ·6
17. 0	42. 0	8. 18	·1022	22. 48	·01493			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 7		Sept. 7		Sept. 7				
h m	° ′ ″	h m		h m		h m	°	°
19. 0	21. 39. 55	8. 30	·1026	23. 51	·01508			
	***	10. 28	·1027					
21. 0	40. 5	11. 12	·1028					
23. 11	46. 5	11. 15	·1027					
		11. 56	·1030					
		12. 10	·1028					
		12. 54	·1032					
		13. 34	·1035					
		14. 6	·1033					
		15. 0	·1033					
		15. 6	·1040					
		15. 30	·1038					
		17. 6	·1042					
		17. 20	·1042					
		17. 24	·1039					
		17. 30	·1040					
		18. 42	·1035					
		19. 7	·1036					
		20. 9	·1029					
		20. 44	·1026					
		21. 30	·1024					
		23. 22	·1026					
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
	(†)		(†)		(†)	0. 40	63 ·0	63 ·8
1. 17	21. 45. 40	1. 17	·1028	1. 15	·01438	1. 40	63 ·8	64 ·7
2. 45	45. 20	1. 34	·1031	3. 52	·01156	2. 40	64 ·0	65 ·0
2. 52	44. 0	1. 43	·1029	5. 50	·00821	3. 40	65 ·0	66 ·0
3. 27	43. 40	2. 17	·1036	7. 0	·00690	4. 40	65 ·9	67 ·0
3. 47	42. 10	2. 30	·1030	9. 48	·00576	5. 40	66 ·0	66 ·8
4. 54	42. 5	2. 52	·1032	10. 13	·00561	6. 40	66 ·0	66 ·7
5. 31	41. 5	3. 2	·1024	11. 3	·00581	7. 40	66 ·5	67 ·3
6. 31	42. 55	3. 5	·1028	11. 29	·00550	8. 40	66 ·5	67 ·5
8. 16	44. 5	3. 8	·1024	12. 14	·00541	9. 40	66 ·5	67 ·3
8. 28	42. 40	3. 48	·1027	13. 15	·00620	10. 40	66 ·5	67 ·0
9. 10	42. 40	4. 0	·1023	14. 29	·00718	11. 40	66 ·0	67 ·0
9. 17	44. 20	5. 0	·1028	14. 52	·00723	21. 40	59 ·0	60 ·0
9. 48	38. 55	5. 44	·1027	15. 24	·00816			
10. 12	34. 30	6. 0	·1032	16. 5	·00897			
11. 4	40. 35	6. 10	·1030	17. 10	·01002			
11. 26	40. 30	6. 19	·1034	19. 20	·01445			
11. 43	37. 30	6. 36	·1030		·01408			
	***	6. 46	·1026	22. 22	·01446			
12. 2	41. 0	7. 38	·1034	23. 16	·01478			
	***	8. 21	·1037	23. 59	·01456			
12. 31	35. 55	8. 29	·1044					
	***	9. 25	·1028					
12. 55	34. 30	9. 52	·1040					
	***	10. 7	·1026					
13. 41	35. 30	10. 26	·1026					
	***	10. 56	·1035					
14. 10	44. 30	11. 10	·1042					
	***	11. 36	·1036					
14. 33	36. 30	11. 54	·1065					
	***	12. 4	·1066					
14. 49	39. 30	12. 14	·1046					
	***	13. 0	·1032					
15. 25	39. 30	13. 49	·1043					
	***	14. 0	·1034					

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. 8		Sept. 8						
h m	° ′ ″	h m		h m		h m	°	°
15. 38	21. 44. 0	14. 15	·1040					
	***	14. 30	·1056					
15. 52	45. 0	14. 54	·1035					
	***	15. 7	·1034					
16. 17	58. 0	15. 37	·1048					
	***	16. 7	·1047					
17. 12	37. 30	16. 15	·1040					
	***	16. 29	·1044					
18. 53	38. 30	17. 0	·1069					
	***	18. 6	·1050					
20. 48	44. 15	18. 54	·1054					
21. 28	47. 30	20. 36	·1037					
21. 58	48. 5	20. 58	·1030					
22. 15	47. 10	21. 30	·1030					
23. 18	51. 30	22. 5	·1022					
23. 59	51. 35	22. 10	·1018					
		23. 10	·1023					
		23. 37	·1019					
		23. 59	·1019					
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	21. 51. 35	0. 0	·1019		(†)	1. 40	63 ·5	64 ·0
0. 42	51. 30	0. 17	·1016	1. 30	·01317	3. 40	66 ·5	67 ·5
2. 44	53. 30	0. 36	·1014	2. 44	·01056	9. 40	67 ·0	68 ·0
2. 55	51. 20	0. 52	·1017	3. 16	·00903	21. 40	63 ·5	64 ·5
3. 12	53. 20		(†)	3. 59	·00710			
3. 17	51. 40	2. 14	·1020	4. 16	{·00620			
3. 33	52. 0	2. 27	·1021		{·00678			
3. 41	49. 55	2. 45	·1013	5. 58	·00686			
4. 8	45. 5	3. 24	·1016	8. 48	·00657			
5. 0	43. 15	3. 32	·1003	9. 22	·00630			
5. 18	42. 5	4. 2	·1017	10. 13	·00621			
5. 30	43. 10	4. 15	·1017	11. 23	·00630			
	***	4. 24	·1021	15. 47	·00944			
7. 24	43. 55	4. 51	·1021	18. 33	·01395			
	***	5. 0	·1018	21. 27	·01458			
7. 48	40. 30	5. 45	·1031	23. 10	·01481			
	***	5. 58	·1031	23. 59	·01464			
8. 32	43. 5	6. 9	·1037					
	***	6. 20	·1028					
9. 7	42. 20	6. 57	·1025					
9. 18	45. 20	7. 11	·1018					
9. 26	41. 40	7. 24	·1025					
9. 40	43. 40	8. 10	·1023					
	***	8. 45	·1037					
10. 20	43. 30	8. 58	·1030					
	***	9. 15	·1030					
10. 47:	47. 40	9. 25	·1037					
	***	10. 9	·1038					
11. 15	43. 20	10. 22	·1047					
	***	11. 35	·1043					
11. 44	42. 20	11. 50	·1046					
	***	12. 50	·1042					
12. 18	44. 30	13. 5	·1047					
	***	14. 49	·1051					
12. 56	43. 15	15. 52	·1055					
	***	17. 30	·1048					
13. 15	45. 0	18. 0	·1045					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 9		Sept. 9						
h m	° ′ ″	h m		h m		h m	°	°
13. 48	21. 43. 50	19. 0	·1048					
	***	19. 11	·1047					
14. 7	44. 30	19. 24	·1049					
	***	20. 8	·1038					
14. 17	43. 15	20. 34	·1034					
	***	20. 46	·1026					
14. 47	44. 5	20. 54	·1025					
	***	21. 0	·1022					
16. 53	43. 10	22. 10	·1030					
17. 0	41. 30	22. 30	·1028					
	***	22. 56	·1031					
19. 45	42. 10		(†)					
	***							
20. 3	43. 55							
20. 55	43. 25							
22. 45	47. 55							
	(†)							
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
0. 51	21. 48. 0	1. 0	·1034	0. 55	·01377	1. 40	66 ·0	67 ·0
1. 17	48. 50	1. 58	·1026	2. 7	·01226	3. 40	68 ·0	69 ·5
3. 21	47. 40	3. 0	·1024	2. 47	·01120	9. 40	69 ·0	69 ·5
3. 45	48. 30	3. 19	·1028	3. 50	·00864	21. 40	63 ·5	64 ·5
5. 53	44. 10	3. 42	·1024	4. 37	{·00691			
6. 12	44. 30	4. 28	·1034		{·00754			
6. 22	45. 35	5. 20	·1037	10. 14	·00700			
6. 33	44. 55	6. 45	·1034	10. 29	·00738			
7. 57	44. 30	8. 27	·1034	11. 0	·00741			
8. 7	43. 20	9. 36	·1030	16. 15	·01181			
8. 59	43. 35	9. 45	·1027	19. 44	·01540			
9. 16	42. 20	10. 36	·1025	21. 0	·01614			
9. 29	44. 50	10. 52	·1056	21. 26	·01601			
10. 27	44. 5	11. 6	·1049	21. 33	{·00844			
10. 49	35. 30	11. 20	·1036		{·01005			
	***	11. 30	·1036	23. 14	·01037			
11. 15	40. 40	11. 42	·1029					
11. 26	39. 30	11. 58	·1030					
11. 43	43. 10	12. 6	·1027					
12. 18	42. 0	13. 45	·1033					
12. 54	44. 55	14. 7	·1032					
13. 24	42. 40	15. 20	·1034					
	***	15. 45	·1026					
14. 38	43. 0	15. 58	·1027					
14. 52	41. 45	16. 2	·1026					
15. 15	42. 0	16. 30	·1021					
	***	17. 2	·1011					
16. 5	46. 30	17. 14	·1016					
17. 0	41. 50	17. 24	·1015					
20. 47	42. 0	17. 55	·1019					
21. 35	42. 50	18. 18	·1016					
22. 30:	43. 0	19. 10	·1017					
23. 40	46. 20	20. 8	·1025					
		20. 17	·1031					
		21. 7	·1027					
		21. 30	·1031					
		23. 35	·1016					

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.
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 47. 47*	1. 40	·1023*	0. 0	·00971	1. 40	66 ·5	67 ·5
3. 40	45. 40*	3. 40	·1020*	1. 15	·00864	3. 40	67 ·0	68 ·0
9. 40	43. 22*	9. 40	·1027*	2. 14	·00715	9. 40	67 ·2	68 ·8
21. 40	42. 33*	21. 40	·1024*	3. 1	·00578	21. 40	61 ·5	62 ·5
				3. 22	·00518			
				4. 43	·00537			
				6. 50	·00519			
				8. 51	·00467			
				10. 5	·00520			
				10. 52	·00598			
				11. 15	·00618			
				13. 50	·00917			
				16. 46	·01405			
					·01397			
				21. 3	·01362			
				23. 59	·01373			
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
1. 40	21. 48. 20*	1. 40	·1029*	0. 14	·01359	1. 40	64 ·5	65 ·0
3. 40	47. 3*	3. 40	·1032*	1. 13	·01261	3. 40	66 ·0	67 ·5
9. 40	43. 11*	9. 40	·1046*	2. 0	·01201	9. 40	66 ·0	67 ·0
21. 40	42. 1*	21. 40	·1043*	3. 12	·01016	21. 40	60 ·2	61 ·0
				4. 1	·00852			
				4. 43	·00661			
				5. 58	·00437			
				6. 14	·00402			
					·00456			
				10. 7	·00412			
				11. 50	·00476			
				14. 11	·00681			
				16. 43	·00980			
					(†)			
				21. 45	·01264			
				23. 59	·01318			
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
1. 40	21. 48. 10*	1. 40	·1042*	0. 15	·01317	1. 40	61 ·2	62 ·0
3. 40	44. 49*	3. 40	·1044*	0. 50	·01304	3. 40	62 ·8	63 ·4
9. 40	34. 39*	9. 40	·1054*	1. 22	·01360	9. 40	62 ·0	63 ·0
22. 50	44. 34*	22. 50	·1034*		·01233	22. 50	56 ·5	58 ·0
				2. 7	·01171			
				3. 44	·01096			
				6. 10	·00683			
				7. 0	·00602			
				8. 30	·00561			
				9. 25	·00557			
				11. 2	·00612			
				17. 18	·01123			
					·01212			
				18. 30	·01248			
				21. 37	·01267			
					(†)			
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
6. 50	21. 42. 4*	6. 50	·1046*	0. 0	·01124	6. 50	63 ·0	64 ·0
21. 40	39. 52*	21. 40	·1060*	0. 58	·01096	12. 40	58 ·8	61 ·0
				1. 55	·01063	13. 40	58 ·0	61 ·0
				2. 42	·00819	14. 40	57 ·0	59 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
				Sept. 14		Sept. 14		
h m	° ′ ″	h m		h m		h m	°	°
				3. 25	·00632	15. 40	56 ·3	58 ·5
				4. 46	·00262	16. 40	55 ·8	57 ·2
					·00303	17. 40	55 ·6	57 ·5
				6. 5	·00316	18. 40	55 ·7	57 ·3
				10. 10	·00291	19. 40	55 ·8	57 ·3
				13. 47	·00749	20. 40	56 ·5	57 ·8
				16. 31	·01283	21. 40	56 ·9	58 ·0
					·01222	22. 40	58 ·0	59 ·1
				21. 0	·01281	23. 40	59 ·5	60 ·4
				22. 5	·01261			
				23. 59	·00998			
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
1. 40	21. 48. 16*	1. 40	·1048*	1. 15	·00781	0. 40	60 ·7	61 ·1
3. 40	47. 14*	3. 40	·1038*	2. 6	·00617	1. 40	61 ·5	62 ·4
9. 40	42. 41*	9. 40	·1054*	2. 15	·00581	2. 40	63 ·0	63 ·5
21. 40	41. 3*	21. 40	·1043*	2. 50	·00465	3. 40	64 ·2	65 ·1
				3. 22	·00343	4. 40	65 ·5	66 ·4
					·00390	5. 40	65 ·9	66 ·3
				3. 37	·00394	6. 40	66 ·2	66 ·6
					·00421	7. 40	66 ·4	67 ·2
				3. 48	·00416	8. 40	66 ·5	66 ·8
				6. 58	·00428	9. 40	66 ·7	67 ·0
				9. 7	·00402	10. 40	65 ·5	66 ·0
					·00582	11. 40	64 ·6	65 ·0
				10. 54	·00543	21. 40	61 ·0	61 ·6
				19. 26	·01194			
				21. 5	·01278			
				22. 40	·01336			
				23. 59	·01303			
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
1. 40	21. 47. 38*	1. 40	·1045*	1. 17	·01289	1. 40	62 ·2	62 ·8
3. 40	48. 11*	3. 40	·1025*	2. 45	·01231	3. 40	64 ·0	65 ·0
9. 40	37. 48*	9. 40	·0944*	4. 39	·00924	9. 40	64 ·0	65 ·0
21. 40	42. 31*	21. 40	·1028*		·01043	21. 40	58 ·0	59 ·3
				5. 40	·00881			
				6. 7	·00838			
				7. 30	·00682			
				8. 50	·00616			
				9. 15	·00618			
				9. 32	·00596			
				10. 16	·00616			
				11. 33	·00672			
				14. 0	·00898			
				14. 58	·00951			
				15. 52	·01062			
				17. 9	·01321			
					·01228			
				18. 20	·01277			
				22. 13	·01294			
				23. 32	·01315			
				23. 59	·01297			
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
1. 40	21. 51. 43*	1. 40	·1033*	0. 41	·01281	1. 40	60 ·7	61 ·8
3. 40	47. 1*	3. 40	·1041*	1. 26	·01280	3. 40	63 ·0	64 ·3
9. 40	39. 17*	9. 40	·1049*	2. 14	·01157	9. 40	65 ·0	66 ·0

September 11. The time-piece, giving motion to the cylinder for register of the Declination and Horizontal Force, was with Mr. Dent from this date to October 13, for the purpose of altering it so that the cylinder should make one revolution in 24 hours instead of two revolutions as heretofore.

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.17 h m	° ′ ″	Sept.17 h m		Sept.17 h m		Sept.17 h m	°	°
21. 40	21. 43. 17*	21. 40	·1044*	3. 22	·00924	21. 40	61 ·0	61 ·5
				5. 41	{·00381 ·00497			
				6. 26	·00430			
				6. 49	·00458			
				11. 37	·00382			
				14. 15	·00469			
				17. 20	·00617			
				18. 41	·00716			
				21. 44	·01098			
				22. 50	·01262			
				23. 26	·01343			
				23. 50	·01376			
				23. 59	·01344			
Sept.18		Sept.18		Sept.18		Sept.18		
1. 40	21. 48. 7*	1. 40	·1045*	1. 0	·01374	1. 40	61 ·0	62 ·0
3. 40	45. 45*	3. 40	·1042*	2. 5	·01384	3. 40	62 ·0	63 ·3
9. 40	43. 32*	9. 40	·1049*	3. 25	·01306	9. 40	62 ·6	63 ·5
21. 40	39. 41*	21. 40	·1052*	5. 22	·00999	21. 40	55 ·0	55 ·5
				6. 50	·00830			
				8. 15	·00757			
				9. 56	·00737			
				11. 36	·00779			
				12. 30	·00838			
				14. 41	·01077			
				16. 43	{·01358 ·01255			
				18. 34	·01285			
				21. 5	·01270			
				22. 1	·01237			
				23. 59	·01287			
Sept.19		Sept.19		Sept.19		Sept.19		
1. 40	21. 46. 27*	1. 40	·1058*	1. 12	·01251	1. 40	57 ·0	57 ·0
3. 40	47. 0*	3. 40	·1056*	1. 54	·01217	3. 40	58 ·0	59 ·0
9. 40	41. 3*	9. 40	·1064*	2. 41	·01136	9. 40	60 ·0	60 ·5
21. 40	39. 36*	21. 40	·1059*	3. 37	·00976	21. 40	53 ·0	54 ·0
				6. 20	·00417			
				7. 55	·00206			
				8. 0	·00216			
				9. 43	·00205			
				11. 0	·00218			
				12. 10	·00259			
				14. 35	·00477			
				17. 43	·00896			
				20. 4	·01235			
				20. 15	·01227			
				21. 0	·01190			
				23. 25	·01282			
				23. 59	·01290			
Sept.20		Sept.20		Sept.20		Sept.20		
1. 40	21. 47. 4*	1. 40	·1054*	0. 24	·01301	1. 40	55 ·8	56 ·7
3. 40	46. 10*	3. 40	·1061*	1. 22	·01258	3. 40	57 ·5	58 ·0
9. 40	38. 35*	9. 40	·1078*	2. 45	·01120	9. 40	58 ·5	60 ·0
22. 40	43. 18*	22. 40	·1051*	4. 36	{·00998 ·00877	22. 40	53 ·6	54 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		Sept.20 h m		h m	°	°
				6. 8	·00618			
				7. 30	·00475			
				8. 37	·00398			
				9. 48	·00342			
				10. 16	·00318			
				14. 41	·00416			
				16. 10	·00525			
				18. 21	·00766			
				21. 39	·01179			
				22. 43	{·01285 ·01218			
				23. 0	·01228			
Sept.21		Sept.21		Sept.21		Sept.21		
8. 50	21. 41. 8*	8. 50	·1069*	0. 0	·01258	8. 50	59 ·5	60 ·4
21. 40	42. 20*	21. 40	·1048*	0. 50	·01271	12. 40	59 ·0	59 ·6
				1. 47	·01197	13. 40	59 ·0	59 ·7
				2. 37	·01118	14. 40	59 ·2	59 ·7
				3. 38	·00964	15. 40	59 ·5	59 ·9
				4. 40	·00698	16. 40	59 ·8	60 ·0
				6. 44	·00237	17. 40	59 ·8	60 ·1
				7. 12	·00256	18. 40	60 ·0	60 ·1
				10. 0	·00265	19. 40	60 ·2	60 ·2
				15. 22	·00256	20. 40	60 ·2	60 ·3
				16. 25	{·00241 ·00294	21. 40	61 ·0	61 ·5
						22. 40	61 ·3	62 ·0
				17. 43	·00258	23. 40	62 ·0	62 ·0
				20. 12	·00268			
				21. 33	·00250			
				22. 30	{·00304 ·00723			
				23. 59	·00741			
Sept.22		Sept.22		Sept.22		Sept.22		
1. 40	21. 47. 14*	1. 40	·1038*	1. 45	·00627	0. 40	62 ·7	63 ·0
3. 40	45. 22*	3. 40	·1049*	2. 3	{·00591 ·00763	1. 40	63 ·5	63 ·0
9. 40	42. 14*	9. 40	·1051*			2. 40	64 ·0	63 ·0
21. 40	42. 14*	21. 40	·1051*	2. 50	·00657	3. 40	64 ·5	64 ·2
				3. 30	·00601	4. 40	64 ·8	65 ·0
				4. 48	{·00560 ·01007	5. 40	65 ·0	65 ·0
						6. 40	64 ·8	65 ·0
				5. 48	·00857	7. 40	64 ·5	65 ·0
				6. 43	{·00792 ·00836	8. 40	64 ·5	64 ·8
						9. 40	63 ·0	63 ·5
				8. 7	·00735	10. 40	63 ·0	63 ·0
				8. 45	{·00716 ·00803	11. 40	63 ·0	62 ·8
						21. 40	57 ·0	58 ·0
				9. 13	{·00804 ·01034			
				9. 50	·01016			
				10. 40	·01048			
				11. 38	·01117			
				14. 42	·01358			
				16. 20	·01385			
				22. 26	·01387			
				22. 58	·01395			
				23. 28	·01384			
				23. 59	·01356			

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.
Sept.23	° ′ ″	Sept.23		Sept.23		Sept.23	°	°
h m		h m		h m		h m		
1. 40	21. 49. 47*	1. 40	·1039*	0. 42	·01315	1. 40	59 ·5	60 ·5
3. 40	46. 14*	3. 40	·1047*	2. 14	·01322	3. 40	61 ·0	62 ·0
9. 40	43. 20*	9. 40	·1055*	2. 57	·01139	9. 40	62 ·5	62 ·0
21. 40	42. 8*	21. 40	·1051*	3. 59	·00971	21. 40	57 ·0	58 ·0
				5. 20	·00782			
				6. 45	·00483			
				8. 25	·00418			
				9. 40	·00434			
				11. 5	·00466			
				16. 5	·00920			
				20. 36	·01363 ·01321			
				22. 45	·01357			
				23. 25	·01364			
				23. 59	·01357			
Sept.24		Sept.24		Sept.24		Sept.24		
1. 40	21. 47. 8*	1. 40	·1058*	0. 32	·01317	1. 40	60 ·0	61 ·0
3. 40	45. 35*	3. 40	·1048*	2. 20	·01126	3. 40	61 ·0	62 ·0
9. 40	41. 31*	9. 40	·1055*	4. 21	·00784	9. 40	62 ·0	63 ·0
21. 40	42. 54*	21. 40	·1059*	6. 13	·00483	21. 40	56 ·5	58 ·0
				7. 18	·00372			
				7. 20	·00400			
				10. 52	·00377			
				14. 7	·00568			
				16. 57	·00857			
				18. 28	·01317			
				20. 30	·01320			
				21. 7	·01289			
				23. 52	·01337			
Sept.25		Sept.25		Sept.25		Sept.25		
1. 40	21. 48. 33*	1. 40	·1051*	0. 8	·01340	1. 40	58 ·6	59 ·5
3. 40	46. 11*	3. 40	·1051*	1. 10	·01337	3. 40	61 ·0	61 ·5
9. 40	41. 24*	9. 40	·1054*	2. 0	·01297	9. 40	63 ·0	64 ·0
21. 40	42. 49*	21. 40	·1117*	2. 48	·01198	21. 40	56 ·0	57 ·0
				4. 54	·00817			
				6. 45	·00423			
				7. 12	·00365			
				7. 14	·00403			
				8. 15	·00414			
				9. 47	·00391			
				11. 17	·00408			
				12. 29	·00428			
				14. 6	·00525			
				15. 20	·00629			
				16. 5	·00721			
				17. 48	·00908			
				21. 25	·01316			
				21. 45	·01300			
				22. 12	·01278 ·01124			
				23. 32	·01262			
				23. 59	·01270			
Sept.26		Sept.26		Sept.26		Sept.26		
1. 40	21. 49. 34*	1. 40	·1104*	0. 24	·01162	1. 40	60 ·0	60 ·0
3. 40	50. 19*	3. 40	·1100*	2. 33	·01242	3. 40	63 ·0	63 ·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.26	° ′ ″	Sept.26		Sept.26		Sept.26	°	°
h m		h m		h m		h m		
9. 40	21. 31. 53*	9. 40	·1112*	4. 15	·01203	9. 40	63 ·5	63 ·0
21. 40	43. 18*	21. 40	·1086*	4. 52	·01181	21. 40	59 ·0	60 ·0
				5. 54	·01098			
				7. 15	·01076			
				8. 31	·01077			
				9. 8	·01098			
				9. 42	·01076			
				14. 13	·01221			
				16. 12	·01344			
				16. 52	·01323			
				18. 6	·01379			
				20. 43	01357			
				23. 10	·01377			
				23. 59	·01346			
Sept.27		Sept.27		Sept.27		Sept.27		
1. 40	21. 50. 8*	1. 40	·1090*	0. 56	·01216	1. 40	59 ·5	59 ·5
3. 40	46. 35*	3. 40	·1096*	2. 5	·01080	3. 40	61 ·0	61 ·0
9. 40	36. 38*	9. 40	·1088*		***	9. 40	59 ·5	60 ·5
23. 30	45. 29*	23. 30	·1101*	3. 0	·00925	23. 30	56 ·0	57 ·0
					***			
				3. 48	·00720			
				4. 10	·00625			
				4. 26	·00583			
				4. 58	·00475			
				5. 18	·00477			
				6. 12	·00537			
				6. 50	·00537			
				7. 3	·00517			
				7. 47	·00465			
				7. 54	·00475			
				8. 5	·00458			
				10. 0	·00397			
				10. 37	·00345			
				11. 48	·00390			
				16. 0	·00641			
				19. 5	·00898			
				23. 59	·01155			
Sept.28		Sept.28		Sept.28		Sept.28		
9. 33	21. 39. 15*	9. 33	·1121*	0. 25	·01337	9. 33	56 ·0	57 ·0
21. 40	42. 43*	21. 40	·1087*	3. 30	·01280	12. 40	57 ·0	58 ·0
				7. 12	·01277	13. 40	56 ·5	57 ·2
				7. 20	·01290	14. 40	56 ·0	57 ·0
				9. 27	·01313	15. 40	58 ·0	58 ·0
				10. 26	·01270	16. 40	58 ·1	58 ·5
				12. 6	·01338	17. 40	58 ·0	58 ·0
				12. 40	·01331	18. 40	58 ·0	58 ·0
				14. 0	·01380 ·01306	19. 40 20. 40	58 ·3 58 ·7	58 ·5 58 ·5
				14. 42	·01348	21. 40	59 ·0	59 ·0
				15. 6	·01342 ·01265	22. 40 23. 40	59 ·0 59 ·8	59 ·2 59 ·8
				16. 35	·01260			
				18. 30	·01196			
				19. 30	·01145			
				22. 36	·00983			
				23. 59	·00892			

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. 29		Sept. 29		Sept. 29		Sept. 29		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 47. 26*	1. 40	·1092*	0. 45	·00777	0. 40	60 ·3	60 ·4
3. 40	48. 17*	3. 40	·1092*	2. 58	·00524	1. 40	61 ·2	61 ·4
9. 40	41. 45*	9. 40	·1092*	3. 37	·00625	2. 40	62 ·0	61 ·4
21. 40	41. 26*	21. 40	·1058*	4. 28	·00501	3. 40	63 ·0	62 ·0
				6. 0	·00512	4. 40	63 ·5	63 ·0
				6. 38	·00562	5. 40	63 ·5	63 ·0
				7. 50	·00504	6. 40	64 ·0	64 ·0
				8. 14	·00512	7. 40	64 ·0	64 ·0
				8. 47	·00481	8. 40	64 ·0	64 ·0
				9. 0	·00742	9. 40	63 ·8	63 ·5
				11. 20	·00718	10. 40	63 ·3	63 ·2
				11. 37	·00751	11. 40	62 ·8	62 ·8
				12. 34	·00762	21. 40	59 ·0	60 ·0
				13. 58	·00815			
				19. 10	·01201			
				20. 47	·01297			
				22. 18	{ ·01363 ·01202			
				23. 5	·01224			
				23. 35	·01199			
Sept. 30		Sept. 30		Sept. 30		Sept. 30		
1. 40	21. 47. 27*	1. 40	·1076*	0. 0	·01170	1. 40	61 ·0	61 ·8
3. 40	48. 34*	3. 40	·1080*	1. 14	·01081	3. 40	63 ·0	64 ·0
9. 40	40. 47*	9. 40	·1097*	2. 0	·00980	9. 40	62 ·0	63 ·0
21. 40	41. 19*	21. 40	·1080*	3. 31	{ ·00660 ·00744	21. 40	57 ·0	57 ·5
				4. 35	·00618			
				8. 32	·00564			
				9. 50	·00596			
				14. 7	·00913			
				15. 5	·00996			
				18. 26	·01411			
				19. 28	·01390			
				23. 59	·01114			
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
1. 40	21. 46. 34*	1. 40	·1085*	0. 26	·01397	1. 40	60 ·0	60 ·3
3. 40	44. 30*	3. 40	·1084*	1. 33	·01338	3. 40	62 ·0	63 ·0
9. 40	41. 41*	9. 40	·1086*	2. 22	·01239	9. 40	63 ·0	64 ·0
21. 40	39. 29*	21. 40	·1084*	3. 16	·01056	21. 40	58 ·0	59 ·0
				4. 20	·00785			
				5. 12	{ ·00557 ·00604			
				6. 52	·00577			
				9. 15	·00562			
				10. 36	·00578			
				15. 10	·00844			
				18. 30	·01398			
				18. 56	·01824			
				19. 7	·01416			
				21. 0	·01420			
				23. 10	·01418			
				23. 58	·01385			
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
1. 40	21. 47. 48*	1. 40	·1082*	0. 41	·01383	1. 40	61 ·8	61 ·5
3. 40	45. 21*	3. 40	·1086*	1. 15	{ ·01318 ·01292	3. 40	63 ·5	64 ·0
9. 40	39. 17*	9. 40	·1080*			9. 40	65 ·2	66 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
h m	° ′ ″	h m		h m		h m	°	°
21. 40	21. 39. 36*	21. 40	·1080*	2. 10	·01157	21. 40	62 ·0	61 ·5
				4. 26	·00617			
				4. 30	·00644			
				5. 19	·00645			
				6. 20	·00629			
				8. 30	{ ·00626 ·00796			
				10. 52	·00702			
				13. 36	·00734			
				17. 27	·00937			
				20. 47	·01191			
				23. 8	·01283			
				23. 59	·01275			
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
1. 40	21. 48. 48*	1. 40	·1078*		(†)	1. 40	63 ·0	63 ·0
3. 40	45. 12*	3. 40	·1083*	1. 28	·00630	3. 40	64 ·0	65 ·0
9. 40	40. 53*	9. 40	·1082*	3. 9	{ ·00681 ·00824	9. 40	65 ·0	65 ·5
21. 40	39. 52*	21. 40	·1086*	4. 0	·00746	21. 40	63 ·0	63 ·5
				6. 20	·00696			
				11. 27	·00658			
				14. 43	·00801			
				14. 55	·00938			
				19. 26	·01037			
				22. 49	{ ·01076 ·00976			
				23. 59	·00958			
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
1. 40	21. 50. 5*	1. 40	·1082*	0. 54	·00924	1. 40	64 ·0	64 ·5
3. 40	49. 38*	3. 40	·1080*	3. 34	·00904	3. 40	64 ·0	65 ·0
9. 40	34. 24*	9. 40	·1069*	4. 14	·00877	9. 40	65 ·0	65 ·7
22. 10	44. 47*	22. 10	·1072*	4. 22	·00878	22. 10	64 ·0	65 ·0
				5. 13	·00837			
				5. 37	·00835			
				5. 58	·00798			
				6. 18	·00802			
				6. 37	·00783			
				6. 46	·00803			
				7. 18	·00718			
				7. 31	{ ·00706 ·00750			
				8. 11	·00717			
				8. 40	·00755			
				9. 26	·00715			
				10. 0	·00718			
				10. 25	·00697			
				13. 17	·00721			
				13. 37	·00682			
				14. 2	·00677			
				14. 26	·00660			
				15. 30	·00685			
				16. 13	·00658			
				17. 5	·00703			
				17. 56	·00657			
				18. 13	·00683			
				18. 52	·00661			

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	° ′ ″	h m		Oct. 4 h m		h m	°	°
				19. 5	·00680			
				19. 22	·00679			
				20. 50	·00758			
				22. 12	·00798 (†)			
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
7. 4	21. 40. 28*	7. 4	·1083*	0. 0	·00845	7. 4	64 ·0	64 ·5
21. 40	39. 24*	21. 40	·1075*	1. 31	{·00876 ·00767	12. 40	62 ·8	63 ·3
						13. 40	62 ·5	63 ·3
				4. 2	·00791	14. 40	62 ·0	62 ·7
				6. 40	·00698	15. 40	61 ·8	62 ·0
				11. 3	·00693	16. 40	61 ·5	62 ·0
				13. 13	·00783	17. 40	61 ·3	61 ·8
				16. 25	·00999	18. 40	61 ·2	61 ·6
				17. 52	·01096	19. 40	61 ·2	61 ·8
				20. 0	·01200	20. 40	61 ·1	61 ·8
				22. 12	·01205	21. 40	61 ·1	62 ·0
				23. 59	·01088	22. 40	61 ·5	62 ·0
						23. 40	62 ·0	62 ·6
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
1. 40	21. 45. 7*	1. 40	·1075*	1. 6	·01077	0. 40	62 ·5	63 ·0
3. 40	45. 54*	3. 40	·1078*	3. 45	·00861	1. 40	62 ·0	63 ·0
9. 40	37. 18*	9. 40	·1095*	4. 13	·00819	2. 40	63 ·3	63 ·5
21. 40	41. 7*	21. 40	·1085*	5. 16	·00798	3. 40	63 ·8	63 ·6
				6. 16	{·00683 ·00732	4. 40	63 ·8	64 ·0
						5. 40	64 ·0	64 ·3
				8. 22	·00699	6. 40	64 ·0	64 ·8
				9. 10	·00695	7. 40	64 ·6	65 ·2
				10. 31	{·00662 ·01060	8. 40	65 ·1	65 ·0
						9. 40	65 ·3	65 ·1
				14. 22	·00976	10. 40	65 ·0	66 ·0
				16. 5	·00966	11. 40	65 ·1	65 ·3
				16. 50	·01077	21. 40	62 ·0	62 ·0
				20. 30	·01138			
				23. 59	·01184			
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
1. 40	21. 45. 39*	1. 40	·1081*	1. 20	·01082	1. 40	62 ·0	63 ·0
3. 40	44. 49*	3. 40	·1087*	4. 0	·00998	3. 40	63 ·0	64 ·0
9. 40	40. 56*	9. 40	·1098*	6. 50	·00828	9. 40	64 ·3	64 ·8
21. 40	40. 7*	21. 40	·1093*	8. 20	·00791	21. 40	61 ·0	62 ·0
				10. 35	·00750			
				11. 28	·00758			
				12. 22	·00750			
				18. 14	·01022			
				19. 56	·01096			
				21. 32	·01139			
				23. 59	·01195			
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
1. 40	21. 44. 33*	1. 40	·1086*	0. 52	·01171	1. 40	62 ·0	62 ·5
3. 40	43. 53*	3. 40	·1088*	3. 7	·01111	3. 40	63 ·0	63 ·0
9. 40	42. 55*	9. 40	·1089*	6. 11	·00916	9. 40	62 ·5	63 ·6
21. 40	40. 16*	21. 40	·1098*	7. 30	·00877	21. 40	59 ·0	59 ·4
				10. 20	·00869			
				15. 43	·01090			
				16. 52	·01105			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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	° ′ ″	h m		Oct. 8 h m		h m	°	°
				19. 19	·01281			
				21. 13	·01390			
				23. 0	{·01423 ·01356			
				23. 59	·01359			
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
1. 40	21. 45. 34*	1. 40	·1070*	0. 30	·01381	1. 40	59 ·0	63 ·0
3. 40	46. 38*	3. 40	·1086*	2. 46	·01417	3. 40	61 ·0	62 ·0
9. 40	38. 24*	9. 40	·1098*	4. 7	·01294	9. 40	61 ·5	61 ·8
21. 40	41. 6*	21. 40	·1091*	5. 46	·01150	21. 40	58 ·0	58 ·5
				7. 13	·01057			
				9. 44	·00976			
				11. 57	·00951			
				12. 47	·00948			
				12. 52	·00957			
				13. 30	·00955			
				23. 7	{·01343 ·01276			
				23. 59	·01285			
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
1. 40	21. 45. 19*	1. 40	·1084*	0. 48	·01264	1. 40	60 ·0	60 ·3
3. 40	43. 56*	3. 40	·1090*	2. 0	·01160	3. 40	61 ·0	62 ·0
9. 40	38. 55*	9. 40	·1104*	3. 3	·00994	9. 40	63 ·0	64 ·0
21. 40	40. 41*	21. 40	·1091*	4. 18	·00732	21. 40	59 ·0	60 ·0
				9. 40	·00688			
				11. 10	·00656			
				20. 5	·01058			
				23. 51	·01117			
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
1. 40	21. 46. 19*	1. 40	·1091*	0. 0	·01117	1. 40	61 ·0	61 ·0
3. 40	44. 41*	3. 40	·1095*	1. 50	·01056	3. 40	62 ·0	63 ·0
9. 40	41. 4*	9. 40	·1097*	2. 48	·00984	9. 40	62 ·8	64 ·0
22. 45	43. 0*	22. 45	·1080*	3. 35	{·00908 ·00723	22. 45	61 ·0	61 ·5
				3. 55	{·00744 ·00843			
				4. 56	·00747			
				7. 12	·00718			
				10. 11	·00731			
				15. 43	·00694			
				16. 59	·00717			
				17. 52	·00714			
				20. 45	·00772			
				23. 3	·00818			
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
9. 30	21. 37. 33*	9. 30	·1081*	0. 0	·00825	9. 30	64 ·5	65 ·0
21. 40	37. 55*	21. 40	·1075*	1. 21	·00827	12. 40	63 ·0	64 ·5
				1. 40	·00845	13. 40	63 ·0	64 ·1
				2. 15	·00820	14. 40	63 ·6	63 ·8
				2. 57	·00834	15. 40	63 ·6	63 ·4
				3. 16	·00798	16. 40	63 ·5	63 ·2
				3. 52	·00804	17. 40	63 ·0	63 ·0
				4. 41	{·00738 ·00796	18. 40	63 ·2	63 ·1
						19. 40	63 ·0	63 ·2

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	° ′ ″	h m		Oct. 12 h m		Oct. 12 h m	°	°
				7. 35	·00772	20. 40	63·2	63·2
				9. 10	·00781	21. 40	63·7	63·0
				11. 17	·00750	22. 40	63·8	63·2
				11. 47	·00680	23. 40	64·0	63·6
				14. 14	·00777			
				16. 50	·00832			
				20. 8	·00948			
				22. 5	·00943			
				23. 59	·00867			
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
1. 40	21. 46. 36*	1. 40	·1079*	0. 49	·00823	0. 40	64·7	64·3
3. 40	45. 39*	3. 40	·1084*	1. 58	·00756	1. 40	65·0	64·7
9. 40	39. 29*	9. 40	·1084*	2. 35	·00849	2. 40	65·5	65·5
21. 40	39. 19*	21. 40	·1085*	3. 34	·00862	3. 40	66·0	66·0
					·01116	4. 40	66·2	66·5
				4. 55	·01057	5. 40	66·5	66·8
				6. 7	·01041	6. 40	66·5	66·8
				7. 2	·01057	7. 40	66·6	66·5
				8. 13	·01038	8. 40	66·8	66·9
				12. 10	·01107	9. 40	66·5	66·5
				14. 11	·01209	10. 40	66·5	66·6
				18. 7	·01558	11. 40	66·2	66·0
				22. 5	·01583	21. 40	60·6	61·5
				23. 33	·01530			
				23. 59	·01538			
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 10	21. 46. 0	0. 30	·1085	0. 45	·01523	1. 40	60·7	61·0
0. 39	46. 30		***	1. 47	·01541	3. 40	61·3	62·0
0. 58	47. 50	1. 40	·1085*		(†)	9. 40	61·8	62·5
1. 7	47. 30	3. 50	·1096	3. 52	·01524	21. 40	60·0	59·7
1. 25	47. 55	5. 40	·1097	5. 49	·01485			
1. 38	47. 10	5. 58	·1100	7. 30	·01387			
2. 0	47. 30	6. 13	·1096	9. 1	·01341			
3. 50	44. 50	7. 5	·1099	11. 36	·01296			
4. 23	43. 10	7. 26	·1097	16. 40	·01404			
5. 30	32. 0	8. 24	·1096	18. 50	·01442			
6. 0	41. 50	8. 34	·1097	20. 54	·01458			
6. 15	42. 50	9. 4	·1094		·01521			
8. 38	40. 45	9. 44	·1097	23. 59	·01523			
9. 6	41.	10. 0	·1094					
9. 26	40. 50	10. 26	·1100					
9. 44	36. 20	10. 44	·1093					
10. 27	40. 5	10. 58	·1098					
10. 54	40. 0	11. 40	·1094					
11. 7	41. 0	13. 4	·1094					
11. 25	40. 40	13. 58	·1100					
12. 45	41. 55	14. 10	·1098					
13. 8	42. 50	14. 57	·1100					
13. 40	42. 30	18. 16	·1102					
13. 55	42. 50	18. 30	·1100					
14. 20	42. 50	19. 5	·1104					
15. 7	43. 0	19. 33	·1099					
15. 35	42. 0	20. 0	·1101					
16. 0	42. 25	20. 45	·1100					
16. 25	42. 55	22. 20	·1086					
18. 3	42. 45	23. 4	·1084					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 14 h m	° ′ ″	Oct. 14 h m		h m		h m	°	°
18. 15	21. 42. 0	23. 47	·1085					
19. 10	41. 20	23. 59	·1080					
21. 20	40. 25							
23. 10	46. 40							
23. 30	48. 0							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
	(†)	0. 0	·1080	1. 4	·01490	1. 40	61·0	62·0
1. 10	21. 50. 15	0. 35	·1077	2. 11	·01459	3. 40	61·0	61·0
2. 45	48. 50	1. 40	·1079	3. 52	·01443	9. 40	61·0	61·8
3. 5	48. 20	2. 48	·1079	6. 18	·01302	21. 40	59·0	59·0
3. 20	44. 0	3. 44	·1085	9. 45	·01238			
3. 34	41. 40	4. 0	·1097	18. 24	·01320			
4. 5	44. 0	4. 24	·1093	20. 12	·01358			
4. 30	44. 30	5. 37	·1100	23. 59	·01362			
6. 0	42. 0	6. 13	·1100					
6. 20	42. 0	6. 27	·1096					
7. 45	40. 45	7. 0	·1101					
8. 21	40. 10	7. 30	·1099					
8. 43	40. 30	8. 58	·1102					
10. 20	38. 30	9. 4	·1098					
10. 30	38. 20	9. 35	·1094					
10. 45	39. 0	10. 40	·1094					
11. 6	38. 30	11. 2	·1096					
11. 50	40. 0	11. 10	·1094					
12. 15	40. 45	11. 15	·1097					
14. 25	41. 0	11. 45	·1095					
16. 30	41. 0	11. 58	·1098					
18. 15	40. 30	12. 4	·1097					
20. 33	38. 45	12. 24	·1098					
21. 34	39. 0	12. 56	·1096					
22. 38	43. 0	14. 42	·1098					
23. 30	44. 45	15. 0	·1098					
23. 59	44. 50	16. 24	·1100					
		16. 35	·1102					
		18. 5	·1102 ***					
		20. 0	·1099 ***					
		21. 15	·1092 ***					
		22. 32	·1084 ***					
		23. 59	·1084					
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 0	21. 44. 50	0. 0	·1084	0. 39	·01358	1. 40	60·0	60·0
0. 26	45. 0	1. 0	·1085	2. 17	·01312	3. 40	60·0	61·0
0. 30	46. 20	1. 10	·1088	3. 32	·01223	9. 40	62·0	62·5
0. 37	45. 0	2. 15	·1092	6. 50	·00882	21. 40	59·0	59·0
1. 25	46. 0	2. 40	·1094	8. 35	·00761			
1. 45	45. 45	2. 45	·1092	9. 52	·00702			
3. 0	46. 0	2. 58	·1096	14. 38	·00681			
5. 34	41. 20	3. 54	·1094	16. 26	·00744			
6. 30	41. 20	4. 16	·1097	19. 17	·00897			
7. 10	40. 0	4. 30	·1096	21. 12	·00975			
7. 33	40. 0	5. 40	·1099	22. 37	·00982			
8. 2	39. 0	6. 4	·1099	23. 32	·00961			

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. 16		Oct. 16		Oct. 16				
h m	° ′ ″	h m		h m		h m	°	°
8. 33	21. 39. 45	6. 30	·1097	23. 59	·00919			
9. 34	40. 0	7. 53	·1098					
10. 12	40. 0	8. 5	·1096					
10. 28	38. 45	8. 27	·1099					
10. 45	38. 50	8. 53	·1097					
11. 15	40. 0	9. 13	·1098					
12. 15	40. 5	9. 48	·1096					
12. 52	40. 50	10. 13	·1097					
13. 50	41. 0	10. 30	·1106					
14. 36	44. 45	10. 55	·1099					
15. 13	43. 20	11. 24	·1098					
15. 37	44. 50	11. 34	·1100					
15. 53	44. 45	12. 0	·1099					
16. 45	42. 30	12. 10	·1101					
17. 27	42. 0	12. 25	·1098					
17. 45	41. 25	12. 56	·1102					
18. 5	41. 50	13. 0	·1100					
21. 31	36. 0	13. 20	·1102					
23. 30	42. 10	14. 41	·1101					
23. 40	42. 0	14. 56	·1100					
23. 59	42. 50	16. 3	·1105					
		16. 28	·1103					
		17. 4	·1105					
		18. 0	·1106					
		18. 43	·1106					
		19. 16	·1107					
		20. 54	·1102					
		21. 15	·1100					
		21. 30	·1095					
		22. 4	·1094					
		22. 15	·1091					
		23. 15	·1087					
		23. 59	·1086					
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 0	21. 42. 50	0. 0	·1086	0. 41	·00903	1. 40	61 ·5	62 ·0
0. 37	43. 45	1. 5	·1084	2. 15	·00622	3. 40	62 ·5	63 ·0
1. 4	44. 45	2. 6	·1082	2. 22	·00717	9. 40	62 ·0	62 ·0
2. 15	44. 0	3. 56	·1086	3. 20	·00739	21. 40	59 ·0	59 ·5
3. 30	43. 0	4. 10	·1087	6. 17	{·00740 ·01062			
5. 7	40. 5	5. 14	·1090					
5. 55	39. 50	5. 26	·1092	8. 34	·01016			
6. 15	39. 40	6. 26	·1091	11. 10	·01082			
6. 36	39. 50	7. 58	·1093	17. 47	·01456			
9. 23	39. 30	9. 0	·1094	21. 52	·01511			
9. 45	32. 0	10. 30	·1093	23. 11	·01514			
11. 50	39. 30	14. 0	·1099	23. 59	·01492			
12. 5	41. 0	15. 29	·1099					
12. 34	40. 0	15. 50	·1101					
14. 0	39. 40	16. 2	·1100					
14. 45	40. 10	16. 37	·1103					
15. 15	40. 0	16. 45	·1101					
15. 55	41. 0	17. 40	·1104					
16. 10	40. 45	19. 24:	·1105					
16. 34	40. 50	20. 40	·1099					
17. 7	40. 0	22. 0	·1089					
19. 0	39. 0	23. 59	·1087					
21. 5	37. 30							
22. 7	38. 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
Oct. 17								
h m	° ′ ″	h m		h m		h m	°	°
23. 24	21. 43. 0							
23. 50	41. 50							
23. 59	42. 10							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 0	21. 42. 0	0. 0	·1087	0. 34	·01468	1. 40	61 ·5	61 ·5
0. 30	43. 0	1. 20	·1088	2. 7	·01323	3. 40	62 ·0	63 ·0
1. 5	43. 30	1. 54	·1092	2. 50	·01236	9. 40	63 ·0	63 ·8
1. 20	43. 0	4. 12	·1094	3. 22	·00995	22. 50	55 ·0	56 ·0
2. 30	41. 50	4. 35	·1097	4. 18	{·00903 ·01218			
4. 40	38. 0	5. 25	·1096					
9. 3	37. 45	8. 54	·1098	5. 32	·01158			
10. 0	38. 20	10. 40	·1098	8. 10	·01290			
11. 5	39. 45	11. 30	·1095	11. 34	·01437			
12. 0	39. 0	11. 44	·1098	13. 5	{·01556 ·01523			
12. 15	38. 40	12. 0	·1097					
12. 43	39. 0	12. 14	·1099	15. 10	·01502			
13. 5	40. 0	13. 10	·1098	18. 48	·01456			
	***	13. 28	·1099	22. 37	·01439			
13. 25	39. 30	14. 10	·1100		(†)			
	***	15. 25	·1104					
14. 5	40. 0	16. 4	·1104					
	***	16..24	·1106					
15. 7	39. 50	18. 55:	·1108					
	***	20. 40	·1103					
16. 10	40. 40	22. 13	·1094					
	***	23. 59	·1096					
18. 20	39. 45							
	***							
20. 7	38. 0							
20. 30	38. 0							
20. 58	37. 30							
22. 27	40. 0							
22. 50	40. 45							
23. 40	41. 30							
23. 59	41. 45							
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
0. 0	21. 41. 45	0. 0	·1096	0. 0	·01437	6. 57	61 ·0	62 ·0
0. 45:	41. 50	0. 48	·1100	1. 2	·01420	12. 40	61 ·7	61 ·7
1. 50	41. 0	2. 56	·1104	1. 50	·01398	13. 40	61 ·6	61 ·8
3. 40	38. 35	3. 14	·1102	2. 31	·01341	14. 40	61 ·5	61 ·3
6. 34	38. 0	3. 28	·1103	3. 10	·01262	15. 40	61 ·4	62 ·0
9. 42	38. 30	5. 30	·1098	6. 18	·00636	16. 40	61 ·3	62 ·0
9. 56	37. 0	6. 3	·1100	7. 0	·00670	17. 40	61 ·2	61 ·4
11. 8	36. 0	10. 43	·1099	9. 52	·00662	18. 40	61 ·3	61 ·8
11. 21	36. 0	10. 55	·1103	15. 5	·00621	19. 40	61 ·5	62 ·0
11. 33	36. 50	11. 14	·1100	17. 39	{·00657 ·01090	20. 40	61 ·8	62 ·5
12. 4	35. 45	11. 48	·1100			21. 40	62 ·0	62 ·3
13. 0	34. 45	12. 12	·1097	19. 32	{·01092 ·01143	22. 40	62 ·4	62 ·6
14. 26	38. 40	12. 45	·1104			23. 40	62 ·8	62 ·9
14. 55	38. 0	12. 59	·1102	22. 30	·01038			
15. 15	38. 45	13. 2	·1102	23. 59	·00893			
17. 12	38. 55	13. 29	·1097					
17. 26	39. 45	15. 29	·1102					
18. 11	38. 50	17. 5	·1103					
19. 4	36. 30	17. 20	·1102					
19. 50	37. 0	19. 0	·1106					
20. 34	36. 0	19. 46	·1106					

October 14. The time-piece giving motion to the cylinder for register of the Declination and Horizontal Force was remounted, having been altered to make the cylinder revolve in 24 hours instead of 12 hours as formerly.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 19		Oct. 19						
h m	° ′ ″	h m		h m		h m	°	°
21. 8	21. 37. 20	20. 10	·1103					
22. 6	44. 45	20. 15	·1104					
23. 37	46. 30	20. 54	·1096					
23. 59	45. 0	22. 13	·1080					
		22. 45	·1085					
		23. 15	·1084					
		23. 26	·1090					
		23. 59	·1086					
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 0	21. 45. 0	0. 0	·1086	1. 25	·01182	0. 40	63·2	63·8
0. 27	45. 0	0. 34	·1094	2. 32	·01171	1. 40	65·0	65·2
1. 39	46. 30	0. 41	·1091	4. 30	·01179	2. 40	65·7	66·0
2. 0	46. 10		(†)	7. 7	·01301	3. 40	66·3	66·7
2. 43	42. 0	1. 40	·1089*	9. 40	·01497	4. 40	67·0	67·1
3. 5	42. 45	2. 15	·1086	10. 18	·01515	5. 40	67·0	67·0
4. 35	40. 0	2. 29	·1085	15. 10	·01436	6. 40	67·1	67·0
6. 30	39. 0	2. 45	·1086	22. 7	·01453	7. 40	67·0	67·0
7. 40	39. 0	3. 5	·1093		·01362	8. 40	66·5	66·0
7. 58	37. 10	3. 33	·1090	23. 42	·01361	9. 40	66·2	67·0
8. 12	38. 0	4. 5	·1092			10. 40	65·9	66·5
8. 30	37. 20	4. 30	·1089			11. 40	65·0	65·0
8. 44	37. 30	4. 40	·1090			21. 40	60·0	59·0
9. 0	35. 0	5. 29	·1088					
	(†)	5. 49	·1090					
9. 40	33. 5	6. 30	·1091					
13. 48	32. 30	7. 0	·1094					
14. 10	45. 20	7. 50	·1096					
14. 45	40. 10	8. 0	·1088					
15. 30	39. 0	8. 35	·1092					
16. 46	40. 40	8. 59	·1086					
17. 38	40. 50	9. 15	·1089					
20. 27	42. 20	9. 42	·1084					
22. 0	41. 0	9. 57	·1088					
23. 12	45. 0	10. 15	·1088					
23. 59	45. 35	11. 0	·1095					
		11. 54	·1098					
		13. 16	·1098					
		13. 58	·1097					
		14. 30	·1104					
		14. 41	·1104					
		14. 55	·1107					
		15. 10	·1104					
		17. 55	·1104					
		18. 32	·1107					
			(†)					
		21. 40	·1091*					
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 0	21. 45. 35	0. 0	·1093	0. 15	·01371	1. 40	61·5	62·0
0. 15	45. 50	0. 56	·1099	1. 0	·01320	3. 40	62·0	63·5
0. 52	47. 20	1. 12	·1096	2. 45	·01125	9. 40	63·3	63·5
1. 12	46. 5	1. 50	·1096		(†)	21. 40	57·5	60·5
1. 50	46. 15	2. 7	·1093	3. 40	·00959*			
3. 15	43. 0	3. 0	·1095	9. 40	·00544*			
3. 35	43. 20	3. 5	·1096	12. 16	·00739			
3. 56	42. 20	3. 30	·1094	13. 10	·00878			
4. 20	41. 30		(†)	13. 41	·00923			
	(†)	9. 40	·1106	16. 32	·00984			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 21		Oct. 21		Oct. 21				
h m	° ′ ″	h m		h m		h m	°	°
9. 40	21. 42. 12*	12. 33	·1113	17. 22	·01004			
11. 30	41. 10	12. 50	·1106	18. 20	·01056			
11. 42	40. 50	13. 6	·1109	20. 10	·01276			
12. 0	41. 50	13. 55	·1104	22. 34	·01296			
12. 35	40. 25	15. 3	·1103	23. 18	·01317			
13. 0	42. 0	15. 40	·1105	23. 59	·01296			
14. 36	41. 5	16. 30	·1105					
16. 10	42. 55	17. 35	·1107					
20. 34	41. 0	18. 25	·1109					
21. 30	44. 0	18. 55	·1112					
21. 57	43. 10	19. 6	·1111					
22. 53	44. 50	19. 15	·1113					
23. 5	45. 50	20. 18	·1109					
23. 15	45. 0	21. 0	·1112					
23. 38	45. 15		***					
		22. 57	·1094					
		23. 10	·1097					
		23. 48	·1095					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
1. 40	21. 45. 9*	0. 27	·1104	0. 40	·01250	1. 40	60·5	63·5
	(†)	0. 30	·1108	1. 22	·01162	3. 40	64·0	66·5
2. 0	46. 30	0. 40	·1104	2. 26	·00978	9. 40	66·5	68·0
2. 36	46. 15	0. 51	·1107	2. 31	·00970	21. 40	62·0	65·0
2. 52	46. 0	1. 1	·1102	3. 2	·00860			
3. 33	46. 0	1. 28	·1103	3. 11	·00865			
3. 42	45. 50	1. 49	·1109	3. 14	·00823			
4. 0	46. 50	2. 0	·1106	3. 21	·00798			
4. 14	44. 25	2. 15	·1111		·00854			
4. 26	45. 0	2. 28	·1102	4. 10	·00982			
4. 34	44. 0	2. 34	·1111	4. 29	·00959			
4. 57	44. 55	2. 40	·1104	5. 22	·00968			
5. 28	42. 40	2. 50	·1108		·01151			
5. 45	42. 50	3. 18	·1092	5. 54	·01099			
6. 8	45. 0	3. 27	·1074	6. 29	·01157			
6. 42	21. 20	3. 35	·1061	6. 47	·01221			
7. 7	30. 0	4. 10	·1092	7. 57	·01221			
7. 35	36. 30	4. 27	·1072	8. 12	·01225			
8. 0	36. 45	4. 50	·1088	9. 8	·01229			
8. 27	41. 0	5. 0	·1082	9. 40	·01295			
8. 56	39. 30	5. 29	·1082	10. 34	·01278			
9. 14	37. 0	5. 40	·1088	11. 5:	·01280			
9. 40	27. 0	5. 45	·1086	11. 30	·01180			
10. 7	26. 30	6. 2	·1094	12. 52	·01246			
10. 43	32. 10	6. 16	·1085	13. 40	·01283			
11. 2	21. 0	6. 32	·1060	15. 28	·01422			
11. 25	31. 5	6. 38	·1059	19. 9	·01628			
11. 37	20. 0	7. 0	·1092	20. 17	·01656			
12. 5	34. 0	7. 3	·1093	22. 0	·01657			
12. 18	26. 30	7. 25	·1081		·01536			
12. 39	25. 45	7. 30	·1079	22. 50	·01534			
13. 7	24. 0	7. 42	·1082	23. 59	·01592			
13. 28	36. 10	7. 54	·1087					
13. 50	37. 30	8. 1	·1081					
14. 37	36. 0	8. 16	·1090					
15. 0	38. 15	8. 30	·1088					
15. 40	37. 30	8. 43	·1090					
16. 15	38. 20	8. 57	·1086*					

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.
Oct. 22		Oct. 22						
h m	° ′ ″	h m		h m		h m	°	°
16. 27	21. 40. 0	9. 0	·1084					
17. 7	38. 30	9. 13	·1073					
17. 21	41. 0	9. 30	·1076					
17. 37	40. 0	9. 40	·1091					
18. 12	42. 30	10. 18	·1081					
18. 50	42. 30	10. 30	·1073					
20. 8	40. 30	10. 58	·1079					
20. 40	43. 30	11. 24	·1128					
21. 0	40. 0	11. 35	·1105					
22. 25	44. 0	12. 0	·1138					
23. 27	46. 0	12. 8	·1121					
		12. 18	·1122					
		12. 30	·1082					
		12. 45	·1082					
		12. 50	·1092					
		13. 2	·1093					
		13. 14	·1086					
		13. 33	·1090					
		14. 0	·1086					
		14. 29	·1090					
		16. 40	·1093					
		17. 17	·1090					
		17. 53	·1094					
		18. 30	·1087					
		19. 24	·1092					
		19. 54	·1089					
		20. 18	·1090					
		20. 31	·1094					
		21. 24	·1086					
		22. 0	·1087					
		22. 14	·1080					
		22. 55	·1054					
		23. 2	·1059					
		23. 15	·1054					
		23. 59	·1076					
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 13	21. 49. 0	0. 0	·1076	0. 33	·01581	1. 40	63 ·0	65 ·8
0. 55	47. 0	1. 42	·1078	2. 7	·01571	3. 40	64 ·3	67 ·0
1. 15	48. 30	1. 54	·1072	3. 34	·01557	9. 40	65 ·0	65 ·7
1. 42	48. 30	2. 2	·1080	4. 5	·01398	21. 40	62 ·0	64 ·0
2. 5	50. 0	2. 29	·1082	5. 22	·01300			
2. 15	37. 0	2. 31	·1076	5. 59	·01251			
2. 28	50. 0	2. 45	·1084	8. 2	{·01181			
2. 34	46. 0	2. 55	·1084		{·01386			
2. 43	46. 0	3. 0	·1066	8. 31	·01361			
3. 0	38. 30	3. 7	·1071	9. 7	·01306			
3. 14	34. 0	3. 15	·1063	10. 45	·01296			
3. 30	34. 5	3. 44	·1070	11. 40	·01304			
3. 50	42. 10	3. 56	·1057	14. 0	·01382			
4. 21	45. 0	4. 15	·1070	14. 31	·01338			
5. 16	43. 0	4. 27	·1066	14. 52	·01363			
5. 45	39. 0	4. 45	·1074	15. 17	·01368			
6. 3	40. 15	4. 55	·1068	15. 52	·01449			
6. 18	36. 55	5. 0	·1068	17. 35	·01525			
6. 44	39. 40	5. 26	·1083	20. 7	·01618			
7. 6	37. 45	5. 54	·1082	21. 18	·01617			
7. 18	39. 0	6. 0	·1088	21. 45	{·01600			
7. 47	38. 5	6. 8	·1088		{·01405			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 23		Oct. 23		Oct. 23				
h m	° ′ ″	h m		h m		h m	°	°
8. 7	21. 23. 5	6. 15	·1082	23. 59	·01536			
8. 34	36. 0	6. 25	·1084					
8. 53	33. 35	6. 30	·1080					
9. 12	32. 20	6. 54	·1089					
9. 46	39. 40	7. 0	·1091					
10. 5	35. 20	7. 20	·1088					
10. 15	35. 50	7. 45	·1093					
10. 29	34. 30	7. 59	·1088					
10. 34	34. 0	8. 14	·1080					
11. 3	32. 5	8. 43	·1132					
11. 34	33. 50	9. 0	·1114					
13. 2	41. 0	9. 14	·1112					
13. 33	50. 20	9. 24	·1103					
13. 36	44. 25	9. 40	·1106					
13. 51	44. 5	9. 58	·1102					
14. 9	39. 30	10. 10	·1091					
14. 44	46. 5	10. 23	·1094					
15. 0	44. 10	10. 27	·1095					
15. 6	45. 0	10. 30	·1094					
15. 33	41. 35	10. 32	·1091					
16. 3	40. 45	10. 40	·1091					
16. 20	42. 25	10. 46	·1090					
17. 25	44. 50	10. 58	·1098					
17. 36	42. 55	11. 15	·1104					
17. 50	43. 30	11. 29	·1098					
18. 9	43. 55	11. 35	·1088					
18. 45	42. 10	11. 54	·1087					
19. 30	43. 30	12. 4	·1082					
20. 5	40. 0	12. 14	·1082					
21. 45	43. 5	12. 29	·1091					
22. 14	45. 40	12. 40	·1091					
22. 35	44. 15	13. 20	·1096					
22. 59	45. 5	13. 30	·1090					
	(†)	13. 40	·1091					
		14. 0	·1084					
		14. 15	·1095					
		14. 31	·1083					
		15. 0	·1083					
		15. 10	·1089					
		15. 15	·1088					
		15. 27	·1095					
		15. 33	·1096					
		15. 46	·1104					
		16. 10	·1101					
		16. 23	·1101					
		16. 53	·1088					
		17. 0	·1090					
		17. 4	·1088					
		17. 15	·1094					
		18. 21	·1086					
		19. 25	·1090					
		20. 45	·1085					
		22. 48	·1083					
		23. 0	·1085					
			(†)					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
1. 40	21. 47. 8*	0. 27	·1091	1. 8	·01478	1. 40	63· 0	65 ·0
3. 40	45. 35*	2. 0	·1093	2. 32	·01438	3. 40	64· 0	67 ·0

October 24. Declination. The Photographic Trace was too faint for use.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
h m	° ′ ″	h m		h m		h m	°	°
9. 40	21. 41. 31*	2. 45	·1095	3. 20	·01394	9. 40	63 ·5	66 ·0
21. 40	42. 54*	3. 40	·1095	5. 55	·01141	21. 40	58 ·0	61 ·0
		3. 58	·1092	6. 43	·01098			
		6. 32	·1087	7. 49	{·01098 ·01316			
		8. 5	·1098					
		9. 0	·1098	9. 6	·01317			
		10. 48	·1102	10. 30	·01378			
		11. 0	·1107	14. 10	·01523			
		11. 20	·1105	16. 39	·01538			
		11. 28	·1102	20. 5	·01577			
		11. 40	·1100	20. 59	·01564			
		11. 54	·1106	22. 32	{·01532 ·01418			
		12. 17	·1104					
		12. 28	·1102	23. 45	·01458			
		12. 45	·1107	23. 59	·01481			
		12. 59	·1105					
		13. 28	·1109					
		13. 55	·1100					
		14. 33	·1102					
		15. 5	·1101					
		15. 27	·1103					
		16. 5:	·1111					
		16. 45	·1108					
		17. 13	·1105					
		17. 30	·1101					
		18. 27	·1109					
		19. 0	·1100					
		19. 34	·1108					
		20. 30	·1103					
		22. 5	·1100					
		23. 18	·1102					
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
0. 20	21. 43. 25	0. 20	·1094	0. 22	·01458	1. 40	59 ·0	61 ·0
1. 0	43. 35	1. 45	·1096	2. 18	·01456	3. 40	61 ·0	63 ·0
1. 15	41. 40		***	3. 17	·01414	9. 40	60 ·0	63 ·0
2. 0	42. 0	3. 10	·1095	4. 50	·01130	22. 50	51 ·0	51 ·6
2. 34	41. 0	3. 32	·1098	6. 3	·00998			
2. 36	41. 50	4. 1	·1096	8. 50	·00969			
3. 12	40. 15	4. 10	·1088	10. 43	·01054			
3. 50	40. 45	4. 24	·1094	14. 44	·01418			
4. 6	39. 35	5. 30	·1096	16. 46	·01437			
5. 54	40. 50	6. 0	·1092	19. 10	·01420			
6. 57	40. 55	7. 29	·1093	20. 0	·01441			
7. 36	42. 20	8. 7	·1095	22. 18	·01408			
7. 0	40. 0	8. 14	·1108	23. 16	·01418			
8. 7	33. 0	8. 27	·1114					
8. 15	32. 35	8. 30	·1110					
8. 27	33. 55	9. 40	·1092					
9. 37	36. 20	9. 54	·1097					
9. 54	37. 45	10. 40	·1097					
11. 0	40. 0		(†)					
	(†)	22. 50	·1100*					
21. 40	42. 49							
22. 50	41. 42*							
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 0	21. 42. 50	0. 0	·1097	0. 0	·01440	9. 35	54 ·5	56 ·0
0. 45	44. 0	3. 55	·1105	2. 48	·01303	12. 40	53 ·0	57 ·2

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
h m	° ′ ″	h m		h m		h m	°	°
1. 55	21. 43. 50	4. 5	·1102	4. 17	·01191	13. 40	52 ·8	56 ·0
3. 41	41. 10	6. 2	·1102	5. 55	·01005	14. 40	52 ·2	55 ·4
4. 13	39. 40	6. 14	·1088	6. 20	·00999	15. 40	52 ·0	55 ·0
5. 45	39. 45	6. 40	·1094	8. 5	·00823	16. 40	52 ·3	55 ·0
6. 7	38. 30	6. 58	·1107	9. 17	·00761	17. 40	52 ·8	55 ·1
6. 21	33. 25	7. 0	·1106	10. 46	·00716	18. 40	53 ·1	55 ·4
6. 37	35. 30	7. 17	·1098	11. 7	·00720	19. 40	53 ·1	55 ·6
6. 45	32. 0	7. 48	·1096	12. 13	·00739	20. 40	53 ·3	55 ·6
7. 20	36. 50		***	12. 52	·00790	21. 40	54 ·0	57 ·0
8. 5	38. 30	9. 50	·1099	14. 35	·00961	22. 40	54 ·2	57 ·4
8. 22	38. 0	10. 14	·1104	15. 50	·01067	23. 40	55 ·3	58 ·0
9. 57	39. 50	10. 26	·1100	18. 7	·01198			
10. 15	39. 45	10. 55	·1103	19. 20	·01217			
10. 34	38. 15	11. 10	·1129	21. 58	·01169			
11. 2	39. 0	11. 15	·1121	23. 35	·01105			
11. 7	37. 35	11. 31	·1114					
11. 21	37. 45	11. 47	·1120					
11. 34	34. 55	12. 0	·1114					
12. 0	38. 50	12. 16	·1111					
12. 5	37. 0	12. 34	·1104					
13. 7	42. 15	12. 50	·1103					
13. 25	41. 15	13. 11	·1094					
13. 40	41. 50	13. 43	·1100					
14. 7	40. 55	13. 50	·1098					
15. 4	41. 40	14. 55	·1102					
15. 26	44. 0	15. 45	·1098					
16. 13	41. 30	15. 55	·1094					
16. 53	41. 45	16. 4	·1100					
17. 24	40. 0	17. 5	·1109					
17. 40	40. 45	17. 30	·1106					
18. 51	39. 5	18. 40	·1107					
19. 50	38. 40	19. 0	·1103					
20. 40	39. 0	19. 16	·1105					
21. 30	40. 40	19. 30	·1104					
21. 50	41. 0	20. 28	·1102					
22. 11	42. 55	23. 0	·1095					
23. 32	45. 20	23. 20	·1096					
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 34	21. 45. 50	0. 26	·1084	0. 32	·01038	0. 40	56 ·0	58 ·5
2. 25	45. 50	0. 50	·1087	2. 5	·00851	1. 40	56 ·6	59 ·0
6. 56	40. 0	1. 26	·1086	5. 18	·00637	2. 40	57 ·8	60 ·5
10. 45	40. 35	2. 37	·1089	5. 47	·00717	3. 40	59 ·0	62 ·0
11. 0	39. 0	2. 54	·1087	6. 32	·00720	4. 40	59 ·1	62 ·0
11. 12	38. 45	3. 2	·1089	7. 34	·00683	5. 40	59 ·4	62 ·1
11. 23	36. 10	3. 31	·1087	8. 28	·00655	6. 40	59 ·0	60 ·2
12. 6	38. 30	5. 44	·1091	9. 22	·00696	7. 40	60 ·0	63 ·0
12. 37	36. 20	6. 20	·1087	10. 50	·00798	8. 40	59 ·7	62 ·3
12. 57	37. 40	7. 24	·1090	11. 25	·00822	9. 40	59 ·3	62 ·5
13. 7	37. 20	7. 42	·1092	13. 58	·01057	10. 40	59 ·0	62 ·0
14. 12	39. 15	8. 28	·1090	17. 3	·01450	11. 40	58 ·7	61 ·8
14. 41	45. 0	8. 55	·1046	18. 6	·01412	21. 40	50 ·8	54 ·0
15. 10	43. 35	9. 54	·1043	20. 3	·01450			
15. 30	43. 50	10. 13	·1046	21. 54	·01418			
15. 45	42. 35	10. 34	·1056	23. 44	{·01408 ·01341			
16. 4	42. 50	11. 1	·1052					
16. 43	41. 25	11. 10	·1051	23. 59	·01360			
17. 27	41. 50	11. 20	·1044					

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. 27		Oct. 27						
h m	° ′ ″	h m		h m		h m	°	°
17. 50	21. 40. 45	11. 30	·1052					
18. 27	41. 50	11. 35	·1051					
19. 57	40. 10	11. 57	·1057					
20. 0	40. 55	12. 8	·1054					
	(†)	12. 13	·1051					
21. 40	40. 58*	12. 33	·1050					
		12. 48	·1053					
		13. 4	·1051					
		13. 30	·1051					
		13. 34	·1048					
		13. 48	·1051					
		14. 2	·1047					
		14. 24	·1046					
		15. 8	·1058					
		15. 16	·1054					
		17. 50	·1059					
		19. 0	·1064					
			(†)					
		21. 40	·1061*					
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
	(†)		(†)		(†)	1. 40	51 ·2	54 ·0
1. 0	21. 46. 0	0. 56	·1051	1. 10	·01339	3. 40	53 ·0	56 ·0
2. 10	45. 35	1. 55	·1055	2. 35	·01287	9. 40	55 ·0	58 ·3
3. 40	42. 55	3. 46	·1058	3. 30	·01223	21. 40	48 ·0	52 ·0
4. 24	41. 10	4. 2	·1055	6. 12	·00898			
4. 42	41. 0	5. 44	·1060	7. 43	·00696			
5. 10	40. 25	6. 0	·1059	8. 34	·00626			
5. 35	40. 40	6. 36	·1062	10. 13	·00670			
6. 7	39. 50	7. 5	·1060	11. 7	·00581			
6. 34	40. 50	8. 16	·1060	12. 3	·00630			
10. 0	40. 5	10. 0	·1063	14. 27	·00892			
10. 36	40. 45	10. 24	·1066	17. 48	·01337			
11. 37	40. 20	10. 45	·1064	18. 58	·01366			
11. 46	42. 0	10. 50	·1066	21. 7	·01418			
12. 9	40. 5	11. 49	·1061	21. 45	·01401			
12. 26	40. 55	12. 0	·1062	22. 52	·01296			
13. 0	39. 50	12. 15	·1070	23. 59	·01243			
13. 30	41. 55	12. 37	·1066					
15. 9	42. 50	12. 48	·1063					
	***	13. 2	·1065					
18. 23	41. 30	13. 28	·1065					
18. 50	41. 50	14. 14	·1067					
20. 27	39. 45	14. 28	·1067					
21. 15	40. 35	14. 42	·1069					
23. 59	45. 30	15. 20	·1079					
		16. 5	·1075					
		16. 20	·1074					
		16. 32	·1077					
		17. 30	·1076					
		19. 27	·1074					
		20. 40	·1072					
		23. 25	·1061					
		23. 59	·1062					
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
1. 40	21. 45. 58*	1. 40	·1063*	1. 10	·01157	1. 40	49 ·0	51 ·7
3. 40	43. 49*	3. 40	·1065*	1. 38	·01122	3. 40	51 ·0	54 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
h m	° ′ ″	h m		h m		h m	°	°
9. 40	21. 41. 3*	9. 40	·1065*	2. 22	·01001	9. 40	54 ·1	56 ·0
21. 40	39. 18*	21. 40	·1065*	3. 21	·00902	21. 40	49 ·0	52 ·0
				6. 15	·00530			
				7. 0	·00464			
				7. 6	·00500			
				11. 15	·00463			
				14. 43	·00685			
				18. 37	·01109			
				19. 17	·01163			
				19. 46	·01196			
				19. 50	·01047			
				20. 34	·01077			
				21. 5	·01057			
				22. 22	·00960			
				23. 32	·00848			
				23. 59	·00790			
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
	(†)		(†)		(†)	1. 40	52 ·0	53 ·0
1. 40	21. 45. 48*	1. 40	·1059*	1. 0	·00677	3. 40	54 ·0	55 ·0
2. 10	44. 40	2. 9	·1059	2. 56	·00458	9. 40	56 ·5	57 ·0
2. 30	44. 45	3. 0	·1057		·00578	21. 40	54 ·8	56 ·0
4. 27	42. 10	3. 24	·1059	3. 47	·00527			
9. 15	41. 0	3. 52	·1056	5. 36	·00535			
10. 0	41. 5	4. 30	·1057	7. 7	·00580			
11. 7	40. 50	6. 0	·1060	9. 24	·00548			
11. 28	40. 30	8. 15	·1058	10. 55	·00515			
11. 45	42. 50	10. 32	·1061	13. 5	·00500			
12. 7	41. 35	10. 54	·1066	17. 45	·00766			
12. 19	43. 0	11. 24	·1062	19. 18	·00818			
12. 33	42. 30	11. 30	·1068	20. 15	·00830			
12. 50	43. 0	11. 54	·1064	21. 10	·00820			
13. 22	40. 55	12. 0	·1068	22. 47	·00758			
14. 15	44. 0	12. 14	·1066	23. 45	·00700			
15. 40	42. 40	12. 31	·1074					
18. 6	42. 0	12. 43	·1070					
19. 25	41. 20	13. 40	·1060					
21. 34	40. 40	14. 40	·1068					
22. 45	42. 10	15. 14	·1066					
23. 40	44. 0	17. 56	·1074					
23. 59	45. 0	19. 24	·1071					
		20. 32	·1062					
		22. 24	·1054					
		23. 59	·1055					
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 0	21. 45. 0	0. 0	·1055	0. 0	·00690	1. 40	57 ·0	58 ·0
1. 15	46. 5	0. 24	·1056	1. 42	·00581	3. 40	59 ·0	60 ·0
2. 27	45. 45	1. 10	·1052		·00653	9. 40	61 ·8	63 ·5
4. 20	42. 10	1. 45	·1053	4. 32	·00740	21. 40	58 ·5	60 ·5
5. 0	42. 30	2. 15	·1059	5. 0	·00737			
5. 36	42. 0	3. 40	·1057	6. 5	·00777			
6. 13	42. 50	3. 48	·1058	7. 52	·00798			
9. 24	41. 25	3. 55	·1053	10. 5	·00797			
12. 45	42. 30	4. 15	·1055	14. 0	·00751			
12. 52	43. 55	4. 55	·1051	14. 22	·00770			
13. 25	41. 10	5. 49	·1053	15. 4	·00776			
13. 51	45. 5	6. 20	·1050	18. 2	·00935			

October 29. The Declination and Horizontal Force time-piece stopped.

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 31		Oct 31		Oct. 31				
h m	° ′ ″	h m		h m		h m	°	°
14. 26	21. 41. 40	7. 25	·1053	20. 25	·01088			
14. 55	43. 35	9. 26	·1054	22. 41	·01198			
15. 30	42. 30	11. 25	·1056	23. 40	·01280			
16. 30	42. 55	12. 42	·1054	23. 59	·01289			
17. 10	42. 0	13. 10	·1056					
17. 50	42. 30	13. 27	·1062					
19. 55	41. 10	13. 31	·1061					
21. 15	42. 25	13. 57	·1055					
22. 40	46. 0	14. 28	·1061					
23. 12	46. 30	14. 46	·1059					
		15. 0	·1054					
		15. 12	·1053					
		15. 30	·1057					
		16. 25	·1059					
		16. 44	·1059					
		17. 0	·1061					
		17. 29	·1061					
		17. 34	·1064					
		18. 14	·1064					
		18. 40	·1066					
		19. 32	·1063					
		20. 30	·1056					
		21. 54	·1052					
		22. 27	·1052					
		22. 37	·1055					
		23. 0	·1052					
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 25	21. 45. 20	0. 58	·1046	0. 42	·01398	1. 40	59 ·0	59 ·8
1. 45	46. 0	2. 0	·1044	2. 27	·01340	3. 40	60 ·0	60 ·0
3. 0	44. 20	3. 26	·1043	3. 41	·01320	9. 40	60 ·5	61 ·5
3. 58	42. 55	3. 40	·1046	7. 26	·01102	22. 39	57 ·0	58 ·0
5. 13	42. 50	3. 58	·1042	9. 9	·01055			
6. 10	41. 0	4. 35	·1047	10. 48	·01021			
7. 3	41. 50	4. 46	·1044	13. 58	·01096			
7. 39	41. 0	5. 0	·1046	20. 40	·01398			
8. 8	41. 25	5. 5	·1045	22. 56	·01477			
8. 33	41. 0	5. 15	·1048		(†)			
8. 42	40. 0	5. 27	·1042					
10. 45	40. 50	5. 47	·1048					
11. 20	40. 50	6. 13	·1046					
11. 30	41. 0	6. 27	·1047					
11. 55	40. 50	6. 38	·1046					
12. 7	41. 45	7. 14	·1050					
12. 41	41. 0	7. 35	·1042					
16. 0	42. 35	8. 54	·1048					
18. 28	41. 50	9. 3	·1046					
19. 40	41. 30	9. 13	·1048					
21. 20:	40. 45	9. 24	·1046					
22. 39	42. 55	9. 58	·1048					
	(†)	11. 13	·1046					
		11. 27	·1050					
		11. 33	·1048					
		11. 56	·1046					
		12. 5	·1049					
		12. 42	·1047					
		13. 8	·1048					
		13. 20	·1051					
		13. 29	·1049					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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	° ′ ″	Nov. 1 h m		h m		h m	°	°
		13. 45	·1052					
		13. 58	·1049					
		18. 15	·1059					
		19. 57:	·1060					
		20. 40	·1057					
		22. 30	·1048					
			(†)					
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
8. 45	21. 39. 50*	8. 45	·1046*	0. 0	·01481	8. 45	59 ·0	61 ·0
21. 40	41. 12*	21. 40	·1049*	2. 25	·01422	12. 40	57 ·5	59 ·3
				3. 44	·01375	13. 40	57 ·3	58 ·7
				4. 48	·01305	14. 40	57 ·0	58 ·3
				5. 18	·01292	15. 40	56 ·5	58 ·0
				7. 22	·01060	16. 40	56 ·3	57 ·6
				9. 25	·00958	17. 40	56 ·0	57 ·4
				10. 18	·00917	18. 40	55 ·7	57 ·3
				16. 50	·01410	19. 40	56 ·0	57 ·5
				19. 7	·01538	20. 40	55 ·9	57 ·4
				20. 28	·01537	21. 40	56 ·1	57 ·3
				23. 54	·01580	22. 40	56 ·0	56 ·9
						23. 40	56 ·2	57 ·2
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
1. 40	21. 44. 54*	1. 40	·1038*	1. 40	·01456*	0. 40	56 ·4	57 ·4
3. 40	44. 9*	3. 40	·1045*	3. 40	·01488*	1. 40	56 ·3	57 ·0
	(†)		(†)	9. 40	·01557*	2. 40	56 ·2	56 ·5
4. 30	42. 25	4. 40	·1046	21. 40	·01550*	3. 40	57 ·0	56 ·4
5. 48	42. 0	5. 4	·1048			4. 40	57 ·0	56 ·3
6. 12	41. 40	5. 25	·1046			5. 40	57 ·2	56 ·8
6. 54	42. 0	5. 37	·1044			6. 40	57 ·8	57 ·3
7. 15	41. 50	5. 53	·1048			7. 40	58 ·0	57 ·3
8. 20	43. 10	6. 2	·1040			8. 40	58 ·5	58 ·0
8. 38	38. 25	6. 46	·1041			9. 40	58 ·5	58 ·0
8. 47	40. 50	7. 40	·1036			10. 40	57 ·8	57 ·5
9. 7	39. 45	7. 57	·1032			11. 40	57 ·4	57 ·0
9. 15	41. 0	8. 16	·1034			21. 40	53 ·5	53 ·0
9. 35	33. 20	8. 26	·1028					
10. 4	35. 0	8. 34	·1027					
10. 10	36. 50	8. 42	·1033					
10. 54	38. 30	8. 58	·1026					
11. 8	38. 30	9. 10	·1036					
11. 27	39. 10	9. 23	·1022					
11. 50	39. 50	9. 52	·1043					
12. 41	38. 30	10. 4	·1050					
13. 0	38. 5	10. 26	·1044					
13. 33	40. 45	10. 58	·1040					
13. 40	43. 30	11. 17	·1042					
14. 0	43. 0	11. 30	·1041					
14. 35	39. 0	12. 2	·1045					
15. 30	39. 55	12. 20	·1042					
16. 13	39. 10	12. 54	·1043					
17. 40	40. 35	13. 36	·1045					
18. 20	40. 40	13. 50	·1050					
18. 28	41. 0	14. 3	·1052					
21. 25	40. 45	14. 20	·1052					
22. 33	40. 55	14. 40	·1048					
23. 25	42. 55	15. 28	·1048					
23. 59	43. 50	15. 44	·1051					

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	° ′ ″	Nov. 3 h m		h m		h m	°	°
		15. 51	·1049					
		17. 27	·1052					
		17. 54	·1055					
		18. 14	·1054					
		18. 30	·1056					
		18. 45	·1056					
		19. 32	·1058					
		21. 24	·1058					
		21. 49	·1053					
		23. 0	·1054					
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 0	21. 43. 50	0. 40	·1053	0. 13	·00877	1. 40	52 ·5	53 ·0
0. 58	44. 55	1. 55	·1046	1. 15	·00923	3. 40	54 ·0	55 ·0
1. 20	43. 50	2. 25	·1050	2. 0	·00917	9. 40	55 ·0	57 ·0
2. 30	44. 0	3. 28	·1052	3. 17	·00840	21. 40	51 ·5	53 ·5
2. 38	43. 0	4. 29	·1048	4. 14	·00741			
3. 20	42. 45	5. 30	·1051	4. 52	·00678			
4. 15	41. 30	5. 40	·1051	6. 18	·00680			
5. 10	41. 20	6. 0	·1053	13. 50	·00643			
6. 25	41. 0	6. 40	·1052	15. 44	·00708			
7. 0	41. 0	7. 14	·1054	17. 16	·00775			
7. 30	38. 30	7. 24	·1050	19. 43	·00838			
7. 41	40. 0	7. 33	·1048	22. 5	·01077			
8. 54	38. 50	8. 15	·1056	23. 22	·01096			
9. 34	39. 40	8. 33	·1052					
9. 57	37. 45	8. 55	·1053					
10. 30	38. 25	9. 14	·1055					
11. 4	38. 0	9. 44	·1052					
11. 13	38. 40	10. 2	·1052					
11. 25	38. 15	10. 15	·1057					
12. 30	41. 0	11. 5	·1054					
13. 16	41. 0	11. 26	·1055					
	(†)	11. 30	·1060					
16. 56	44. 20	11. 54	·1054					
17. 0	43. 5	12. 30	·1056					
17. 2	41. 0	13. 7	·1060					
17. 7	37. 25	13. 29	·1061					
17. 46	39. 5	13. 32	·1059					
19. 20	40. 20	13. 48	·1063					
19. 40	40. 0		(†)					
21. 40	41. 0	21. 40	·1070*					
22. 10	40. 35							
23. 8	43. 50							
23. 25	43. 0							
23. 38	43. 10							
23. 42	43. 55							
23. 59	44. 0							
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 0	21. 44. 0	0. 15	·1058	0. 0	·01100	1. 40	52 ·0	53 ·0
0. 25	44. 15	0. 37	·1060	1. 5	·01109	3. 40	54 ·0	55 ·0
0. 39	45. 45	0. 45	·1056	2. 30	·01077	9. 40	52 ·0	54 ·5
1. 12	46. 40	1. 2	·1057	4. 8	·00994	21. 40	43 ·0	46 ·0
1. 35	44. 20	1. 15	·1053	5. 42	·00818			
2. 12	46. 30	1. 32	·1055	6. 55	·00737			
2. 20	46. 15	1. 53	·1052	7. 44	·00728			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 5 h m	° ′ ″	Nov. 5 h m		Nov. 5 h m		h m	°	°
2. 34	21. 47. 0	2. 4	·1054	8. 58	·00744			
2. 51	46. 30	2. 16	·1052	10. 38	·00818			
3. 3	46. 45	2. 42	·1049	14. 39	·01296			
3. 21	45. 0	2. 53	·1052	16. 2	·01237			
3. 41	46. 50	3. 1	·1048	18. 7	·01286			
4. 6	47. 0	3. 10	·1036		·01141			
4. 25	48. 45	3. 55	·1028	19. 8	·01257			
4. 58	45. 30	4. 2	·1032	19. 52	·01316			
5. 11	46. 0	4. 30	·1026	22. 5	·01342			
6. 6	41. 40	4. 55	·1030	22. 16	·01316			
7. 13	41. 0	5. 1	·1034	23. 2	·01341			
8. 33	41. 5	5. 46	·1046	23. 36	·01347			
9. 15	38. 35	6. 45	·1048					
9. 45	41. 20	7. 2	·1048					
10. 6	41. 35	7. 50	·1051					
10. 16	37. 0	8. 20	·1048					
10. 57	41. 50	8. 48	·1051					
11. 5	41. 0	9. 3	·1048					
12. 0	41. 35	9. 26	·1048					
13. 13	42. 45	10. 2	·1050					
14. 5	41. 50	10. 15	·1065					
15. 4	44. 0	10. 28	·1057					
16. 8	42. 45	10. 42	·1052					
16. 29	43. 0	10. 56	·1052					
17. 6	41. 5	11. 5	·1061					
19. 0	42. 30	11. 25	·1056					
21. 3	42. 0	12. 0	·1056					
21. 17	41. 0	13. 34	·1060					
22. 30	42. 55	14. 18	·1060					
23. 20	42. 55	15. 2	·1065					
23. 59	43. 50	15. 25	·1070					
		16. 0	·1071					
		16. 45	·1076					
		18. 0	·1078					
		18. 40	·1080					
		19. 14	·1076					
		19. 54	·1078					
		20. 22	·1071					
		21. 0	·1070					
		21. 17	·1066					
		22. 24	·1064					
		22. 32	·1062					
		23. 5	·1061					
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
0. 0	21. 43. 50	0. 40	·1060	0. 0	·01318	1. 40	46 ·0	48 ·0
0. 53	44. 55	1. 9	·1060	1. 5	·01268	3. 40	49 ·0	51 ·0
2. 12	43. 50	1. 24	·1056	1. 42	·01217	9. 40	51 ·5	52 ·8
3. 45	41. 20	2. 42	·1054	2. 32	·01098	21. 40	47 ·0	48 ·5
5. 40	41. 0	3. 28	·1052	3. 20	·00940			
7. 30	40. 5	3. 49	·1054	5. 15	·00732			
10. 25	41. 45	4. 15	·1051	5. 20	·00746			
14. 0	41. 30	5. 0	·1054	6. 3	·00756			
14. 34	42. 0	5. 7	·1053	9. 12	·00695			
15. 5	40. 45	5. 55	·1059	10. 30	·00701			
15. 20	42. 0		(†)	14. 28	·00896			
16. 3	41. 55	9. 0	·1064	16. 35	·01041			
16. 24	40. 50	9. 56	·1063	19. 30	·01210			

November 2. The Photographic Sheet for the Declination and Horizontal Force was not good, and the trace was only partial.
November 3. Vertical Force. The Photographic Trace was indistinct.
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. 6		Nov. 6		Nov. 6				
h m	° ′ ″	h m		h m		h m	°	°
16. 52	21. 41. 55	10. 24	·1065	21. 54	·01276			
17. 37	40. 10	13. 24	·1067	23. 59	·01256			
18. 41	40. 45	14. 40	·1071					
19. 0	40. 0	15. 4	·1074					
19. 34	41. 0	15. 52	·1073					
20. 0	40. 50	16. 18	·1078					
	(†)	18. 4	·1076					
21. 40	40. 59*	18. 16	·1074					
		18. 46	·1075					
		19. 5	·1074					
		19. 29	·1076					
		19. 57	·1067					
		20. 2	·1065					
		20. 14	·1065					
			(†)					
		21. 40	·1066*					
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 30	21. 44. 0		(†)	0. 11	·01220	1. 40	49 ·0	50 ·3
1. 1	43. 10	1. 40	·1054*	1. 45	·01155	3. 40	51 ·0	52 ·0
1. 27	43. 25	2. 0	·1055	3. 10	·01020	9. 40	54 ·6	55 ·5
2. 0	43. 55	2. 16	·1054	4. 30	·00868	21. 40	50 ·5	52 ·0
2. 34	46. 35	2. 55	·1052	5. 6	{·00743			
3. 15	43. 35	3. 24	·1048		{·00797			
3. 29	43. 50	3. 40	·1040	10. 4	·00816			
3. 56	39. 0	4. 40	·1050	11. 0	·00800			
4. 4	38. 45	4. 48	·1044	11. 40	·00716			
4. 42	45. 0	6. 0	·1049	13. 30	·00720			
	***	6. 20	·1051	16. 15	·00789			
6. 35	41. 40	6. 46	·1044	22. 27	·01085			
7. 0	35. 0	6. 59	·1057	23. 13	·01138			
7. 13	38. 0	7. 3	·1058	23. 59	·01166			
7. 34	47. 45	7. 28	·1049					
7. 45	35. 50	7. 44	·1050					
8. 7	38. 20	7. 57	·1048					
8. 31	38. 0	8. 11	·1041					
9. 0	39. 50	8. 54	·1046					
9. 30	33. 50	9. 2	·1044					
10. 17	37. 55	9. 35	·1053					
10. 36	38. 50	10. 5	·1048					
10. 55	38. 0	10. 40	·1050					
11. 8	38. 40	10. 54	·1059					
12. 2	35. 55	11. 0	·1060					
12. 26	37. 50	11. 10	·1057					
12. 53	37. 40	11. 25	·1057					
13. 30	38. 50	11. 57	·1050					
14. 15	42. 55	12. 20	·1053					
16. 40	42. 0	12. 41	·1052					
17. 35	41. 45	12. 45	·1049					
19. 22	45. 55	13. 12	·1054					
19. 34	44. 0	13. 25	·1055					
21. 13	43. 0	13. 34	·1051					
22. 12	44. 30	16. 25	·1058					
22. 25	46. 15	17. 16	·1065					
22. 30	45. 0	17. 40	·1064					
23. 11	45. 0	18. 27	·1067					
23. 27	46. 0	19. 0	·1067					
23. 59	46. 30	19. 39	·1072					
		21. 0	·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.
		Nov. 7						
h m	° ′ ″	h m		h m		h m	°	°
		21. 46	·1064					
		22. 0	·1061					
		22. 12	·1062					
		22. 25	·1054					
		22. 56	·1053					
		23. 15	·1055					
		23. 42	·1046					
		23. 59	·1047					
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 0	21. 46. 30	0. 0	·1047	1. 13	·01171	1. 40	51 ·5	52 ·0
0. 33	48. 0	0. 43	·1052	1. 59	·01181	3. 40	52 ·2	52 ·7
1. 5	48. 0	2. 12	·1042	3. 10	·01158	9. 40	51 ·8	52 ·0
1. 24	40. 0	2. 40	·1048	5. 52	·01045	23. 40	45 ·0	46 ·0
1. 54	47. 5	2. 55	·1044	7. 39	·01033			
2. 15	45. 50	3. 11	·1049	9. 50	·01018			
2. 39	46. 0	3. 31	·1046	12. 5	·01038			
3. 5	45. 0	4. 4	·1053	14. 28	·01119			
3. 36	44. 0	4. 16	·1049	20. 15	·01498			
4. 10	44. 50	4. 30	·1048	21. 4	·01479			
4. 45	41. 40	4. 50	·1051	23. 59	·01443			
4. 55	48. 0	5. 20	·1054					
5. 11	42. 50	5. 27	·1051					
6. 3	41. 55	5. 35	·1050					
6. 13	40. 45	6. 11	·1045					
6. 24	41. 0	6. 20	·1047					
6. 34	39. 45	6. 28	·1041					
6. 38	39. 30	6. 41	·1043					
7. 0	38. 0	6. 56	·1043					
7. 16	39. 0	7. 4	·1051					
7. 26	38. 50	7. 17	·1048					
7. 32	40. 30	7. 30	·1053					
8. 2	40. 10	8. 30	·1060					
8. 30	37. 35	8. 53	·1059					
8. 50	36. 40	9. 15	·1063					
9. 7	38. 45	9. 30	·1060					
9. 48	37. 0	10. 4	·1061					
10. 6	38. 35	10. 18	·1060					
11. 6	39. 0	10. 26	·1061					
12. 0	38. 50	10. 37	·1058					
12. 24	39. 55	10. 53	·1060					
13. 40	42. 0	11. 10	·1058					
16. 0	41. 10	11. 27	·1064					
16. 10	41. 55	11. 31	·1062					
17. 7	40. 40	11. 50	·1064					
17. 30	41. 40	12. 43	·1061					
17. 40	40. 35	12. 57	·1062					
18. 6	40. 35	13. 13	·1061					
18. 40	41. 30	18. 14	·1073					
20. 5	40. 0	18. 28	·1071					
21. 11	40. 50	18. 50	·1076					
21. 40	38. 30	19. 32	·1075					
23. 12	42. 30	19. 55	·1070					
23. 55	43. 30	20. 33	·1069					
		21. 3	·1071					
		21. 15	·1068					
		21. 50	·1067					
		22. 20	·1062					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Nov. 8 h m		h m		h m	°	°
		22. 49	·1064					
		23. 0	·1068					
		23. 38	·1066					
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
	(†)		(†)		(†)	7. 20	48 ·0	48 ·8
1. 27	21. 44. 25	1. 2	·1064	3. 24	·01390	12. 40	50 ·0	51 ·7
1. 50	44. 45	1. 45	·1064	6. 10	·01281	13. 40	50 ·5	52 ·0
4. 27	44. 35		***	10. 25	·01038	14. 40	51 ·0	52 ·5
6. 40	40. 35	6. 50	·1069	11. 30	·00997	15. 40	51 ·0	52 ·4
8. 15	40. 50	12. 15	·1067	14. 45	·01061	16. 40	51 ·6	53 ·0
8. 34	40. 0	12. 34	·1060	18. 17	·00915	17. 40	52 ·2	53 ·5
8. 49	40. 30	14. 30	·1057	20. 58	·00859	18. 40	52 ·0	53 ·0
14. 5	40. 0	15. 28	·1060	23. 28	·00929	19. 40	52 ·8	53 ·6
16. 16	40. 45	19. 20	·1058	23. 59	·00980	20. 40	52 ·4	53 ·3
19. 5	39. 40	21. 30	·1055			21. 40	51 ·2	52 ·4
21. 40	38. 20	22. 30	·1043			22. 40	52 ·4	52 ·5
23. 27	41. 0	23. 45	·1039			23. 40	52 ·8	53 ·0
23. 59	41. 0	23. 59	·1042					
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
0. 0	21. 41. 0	0. 0	·1042	1. 10	·00788	0. 40	53 ·0	53 ·0
1. 12	44. 50	1. 45	·1046	3. 25	·00834	1. 40	53 ·3	53 ·0
2. 3	45. 0	1. 55	·1051	6. 48	·00803	2. 40	53 ·7	53 ·3
3. 34	42. 15	2. 40	·1047	7. 30	·00825	3. 40	54 ·1	54 ·0
6. 20	41. 10	4. 0	·1048	7. 37	·00858	4. 40	54 ·8	54 ·7
7. 11	42. 30	4. 16	·1047	11. 0	·01038	5. 40	55 ·1	55 ·0
7. 28	43. 35	4. 50	·1050	11. 32	·01086	6. 40	55 ·1	55 ·0
	***	5. 1	·1048	12. 22	·01137	7. 40	55 ·0	55 ·0
8. 25	40. 25	5. 15	·1051	14. 36	·01323	8. 40	55 ·0	54 ·5
8. 56	43. 35	5. 40	·1052	16. 18	·01495	9. 40	55 ·0	54 ·2
9. 25	40. 0	6. 18	·1056	16. 43	·01477	10. 40	54 ·6	54 ·0
9. 45	41. 0	6. 31	·1052	18. 10	·01441	11. 40	54 ·5	53 ·5
10. 16	39. 55	6. 54	·1054	21. 6	·01413	21. 40	45 ·8	47 ·3
10. 40	38. 0		***	22. 32	·01392			
11. 30	38. 30	8. 15	·1033	23. 59	·01410			
11. 55	41. 0	8. 40	·1040					
12. 6	40. 55	9. 2	·1033					
12. 33	36. 30	9. 17	·1040					
12. 45	38. 40	10. 25	·1042					
13. 12	41. 0	10. 34	·1049					
14. 10	42. 15	10. 40	·1042					
14. 15	41. 20	10. 50	·1048					
14. 31	42. 40	11. 0	·1038					
15. 14	41. 0	11. 15	·1047					
16. 3	43. 45	11. 24	·1042					
16. 32	42. 55	11. 39	·1049					
17. 25	45. 0	12. 2	·1052					
17. 54	42. 35	12. 34	·1047					
18. 50	42. 45	13. 0	·1053					
20. 30	40. 50	13. 16	·1051					
21. 3	42. 0	14. 30	·1056					
21. 45	40. 50	14. 34	·1053					
22. 31	41. 50	14. 50	·1059					
22. 45	41. 0	16. 5	·1060					
23. 59	43. 15	17. 0	·1070					
		17. 11	·1064					
		18. 1	·1072					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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	° ′ ″	Nov. 10 h m		h m		h m	°	°
		18. 18	·1071					
		18. 50	·1077					
		19. 27	·1073					
		19. 50	·1078					
			***					
		21. 0	·1069					
		21. 40	·1070					
		23. 25	·1058					
		23. 59	·1057					
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
0. 0	21. 43. 15	0. 0	·1057	0. 26	·01418	1. 40	46 ·3	47 ·3
0. 25	43. 0	1. 10	·1065	1. 6	·01450	3. 40	47 ·3	48 ·0
1. 6	46. 0	1. 23	·1058	2. 18	·01417	9. 40	48 ·2	49 ·0
1. 21	43. 50	1. 42	·1064	3. 15	·01381	21. 40	45 ·5	47 ·0
1. 35	45. 0	2. 2	·1060	4. 20	·01330			
2. 10	44. 0	3. 4	·1070	5. 9	·01302			
2. 26	44. 55	3. 28	·1070	7. 55	·01128			
2. 50	44. 0	3. 36	·1065	8. 43	·01098			
3. 0	44. 55	4. 22	·1059	9. 18	·01057			
3. 25	44. 50		***	13. 47	·01140			
3. 35	43. 30	6. 40	·1067	14. 8	·01138			
3. 50	43. 50	7. 10	·1065	17. 50	·01275			
4. 41	42. 0	7. 35	·1066	20. 54	·01319			
5. 12	43. 0	7. 42	·1069	22. 8	·01341			
5. 30	42. 0	7. 55	·1065	23. 47	·01343			
5. 35	42. 25	8. 20	·1064					
5. 46	41. 45	8. 42	·1093					
6. 6	41. 55	9. 0	·1076					
6. 30	40. 40	9. 18	·1058					
6. 57	41. 55	9. 40	·1066					
7. 30	41. 0	9. 55	·1062					
7. 41	41. 50	10. 33	·1063					
8. 25	40. 0	10. 41	·1062					
8. 33	36. 20	10. 58	·1066					
8. 55	40. 20	11. 18	·1066					
9. 9	41. 0	11. 34	·1072					
9. 30	35. 30	11. 49	·1067					
9. 35	36. 35	12. 25	·1070					
10. 11	35. 0	12. 55	·1066					
10. 40	37. 55	13. 2	·1070					
11. 6	39. 30	13. 20	·1067					
13. 3	41. 0	13. 30	·1068					
13. 26	38. 10	13. 34	·1065					
13. 31	38. 40	13. 55	·1091					
13. 39	36. 30	14. 2	·1084					
13. 55	39. 50	14. 25	·1076					
14. 10	38. 55	14. 57	·1072					
14. 30	41. 0	16. 8	·1077					
14. 57	42. 35	16. 58	·1075					
15. 50	40. 50	18. 5	·1076					
17. 0	42. 0	18. 40	·1073					
18. 50	41. 0	19. 24	·1074					
19. 33	41. 40	20. 0	·1072					
19. 55	42. 30	21. 0	·1076					
21. 3	40. 0	22. 42	·1064					
21. 20	41. 0	23. 59	·1060					
21. 50	40. 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.	Of V. F. Magnet.
Nov. 11								
h m	° ′ ″	h m		h m		h m	°	°
22. 6	21. 42. 50							
22. 55	42. 20 (†)							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 0	21. 44. 35	0. 0	·1060	0. 0	·01342	1. 40	47 ·8	48 ·2
0. 58	45. 0		***	1. 7	·01316	3. 40	50 ·0	50 ·0
1. 53	43. 40	3. 50	·1054	2. 15	·01227	9. 40	50 ·0	50 ·8
5. 49	41. 5	5. 15	·1056	4. 0	·01043	21. 40	46 ·0	47 ·0
6. 5	38. 40	5. 27	·1054	6. 10	·00791			
6. 30	40. 30	5. 43	·1056	7. 8	·00699			
6. 41	39. 50	5. 58	·1050	7. 35	·00698			
7. 10	30. 0	6. 27	·1055	8. 40	·00646			
7. 36	34. 0	6. 42	·1049	10. 15	·00639			
7. 58	37. 40	7. 2	·1047	19. 38	·01037			
8. 33	39. 50	7. 24	·1055	22. 11	·01148			
9. 27	39. 50	7. 30	·1048	23. 59	·01183			
9. 52	40. 45	8. 25	·1054					
10. 34	40. 10	9. 10	·1051					
10. 42	39. 10	9. 24	·1055					
11. 3	41. 0	9. 58	·1057					
11. 15	40. 40	10. 6	·1056					
11. 36	41. 45	10. 25	·1060					
12. 0	40. 10	10. 34	·1058					
12. 20	41. 0	11. 0	·1072					
12. 46	40. 40	11. 10	1063					
13. 15	41. 10	11. 26	·1072					
14. 58	41. 40	11. 38	·1069					
15. 40	42. 0	11. 54	·1064					
16. 20	41. 45	12. 30	·1061					
16. 50	42. 0	14. 14	·1066					
19. 35	41. 40	14. 30	·1065					
20. 30	41. 30	15. 55	·1069					
22. 35	40. 0	17. 15	·1073					
23. 59	41. 55	20. 46	·1073					
		21. 32	·1071					
		22. 55	·1059					
		23. 59	·1054					
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 0	21. 41. 55	0. 0	·1054	0. 30	·01166	1. 40	48 ·0	49 ·5
2. 30	43. 0	1. 50	·1052	1. 50	·01098	3. 40	50 ·1	50 ·8
4. 27	41. 40	3. 0	·1053	2. 51	·01003	9. 40	51 ·0	52 ·0
6. 5	40. 55	4. 32	·1048	4. 3	·00844	21. 40	48 ·0	50 ·0
6. 25	40. 0	5. 40	·1055	5. 40	·00623			
7. 0	39. 55	6. 12	·1054	10. 10	·00613			
7. 20	35. 0	6. 16	·1051	16. 48	·00620			
7. 28	37. 0	6. 35	·1049	21. 28	·00658			
7. 59	40. 35	7. 2	·1052	23. 59	·00748			
8. 15	39. 10	7. 16	·1049					
	***	7. 28	·1054					
10. 6	39. 0	8. 24	·1049					
14. 40:	41. 40	9. 0	·1048					
17. 57	41. 20	9. 33	·1052					
21. 45	40. 10	16. 35	·1064					
23. 20	43. 0	20. 51	·1066					
23. 59	42. 50	21. 50	·1056					
		22. 4	·1060					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Nov. 13						
h m	° ′ ″	h m		h m		h m	°	°
		23. 25	·1058					
		23. 49	·1054					
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 0	21. 42. 50	0. 54	·1060	0. 45	·00777	1. 40	49 ·0	50 ·0
1. 0	44. 0	1. 15	·1050	1. 48	·00763	3. 40	50 ·0	51 ·0
3. 40:	40. 55	4. 40	·1051	3. 15	·00657	9. 40	49 ·0	49 ·3
6. 34	39. 50	7. 20	·1054	4. 11	{·00608	21. 40	42 ·0	43 ·5
7. 12	40. 0	9. 38	·1059		{·00675			
7. 30	39. 40	10. 10	·1052	6. 35	·00641			
7. 50	40. 0	13. 25	·1062	8. 3	·00660			
8. 14	39. 5	18. 27	·1075	10. 20	·00776			
8. 54	40. 0	20. 50	·1074	16. 47	·01356			
	***	21. 51	·1064	17. 25	·01324			
11. 0	40. 20	22. 20	·1066	22. 53	·01374			
15. 15	42. 10	22. 40	·1064	23. 59	·01399			
20. 55:	41. 0	23. 2	·1067					
21. 25	41. 0	23. 10	·1068					
21. 37	40. 45	23. 30	·1064					
22. 27	43. 0	23. 47	·1065					
22. 51	45. 0							
23. 38	45. 0							
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 40	21. 45. 0		(†)	0. 54	·01378	1. 40	44 ·0	45 ·0
2. 10	43. 10	1. 42	·1088	1. 50	·01341	3. 40	46 ·0	47 ·0
	***	2. 43	·1084	2. 41	·01261	9. 40	49 ·0	49 ·3
2. 55	42. 15	2. 54	·1081	3. 47	·01100	23. 55	44 ·5	45 ·3
3. 16	41. 10	3. 5	·1084	5. 36	·00755			
3. 31	42. 0	3. 20	·1080	6. 25	·00638			
4. 13	41. 50	3. 43	·1084	6. 50	·00608			
5. 56	42. 50	5. 6	·1075	7. 26	·00617			
6. 13	41. 40	5. 16	·1072	10. 8	·00601			
9. 23	39. 20	6. 56	·1078	11. 52	·00589			
10. 2	39. 0	7. 26	·1081	16. 50	·00581			
10. 32	36. 50	8. 12	·1079	18. 48	·00639			
11. 20	38. 50	8. 34	·1083	20. 30	·00739			
11. 40	36. 50	9. 20	·1081	23. 36	·01025			
12. 12	36. 0	9. 27	·1083					
12. 24	36. 55	10. 4	·1081					
13. 27	37. 30	10. 27	·1094					
13. 42	39. 0	10. 58	·1081					
14. 2	38. 50	11. 25	·1087					
14. 25	40. 30	12. 34	·1082					
15. 6	42. 15	12. 42	·1076					
15. 45	42. 0	14. 1	·1071					
16. 51	43. 55	14. 35	·1079					
16. 55	44. 55	15. 0	·1073					
17. 13	42. 45	15. 28	·1075					
17. 30	43. 30	15. 35	·1079					
17. 55	42. 0	16. 30	·1083					
18. 34	41. 50	17. 10	·1081					
18. 36	42. 5	17. 36	·1083					
18. 46	41. 40	17. 48	·1088					
19. 0	41. 50		***					
19. 16	42. 55	20. 5	·1101					
19. 34	41. 55	21. 44	·1092					
19. 52	42. 55	21. 58	·1094					

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. 15		Nov. 15						
h m	° ′ ″	h m		h m		h m	°	°
20. 28	21. 43. 0	22. 45	·1086					
21. 0	41. 50	23. 59	·1084					
21. 20	42. 0							
21. 33	41. 15							
23. 35	45. 0							
23. 59	44. 20							
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
0. 0	21. 44. 20	0. 6	·1085	0. 10	·01019	9. 35	46 ·0	47 ·0
0. 13	44. 50	0. 26	·1088	1. 0	·01088	12. 40	43 ·2	45 ·1
0. 34	46. 20	1. 24	·1085	2. 19	·01159	13. 40	42 ·9	44 ·7
1. 48	44. 5	1. 50	·1083	3. 57	·01143	14. 40	43 ·0	44 ·8
2. 3	44. 50	2. 10	·1089	7. 40	·00998	15. 40	42 ·5	44 ·0
2. 40	44. 0	3. 0	·1080	8. 26	·00990	16. 40	41 ·5	43 ·0
3. 2	43. 0	3. 26	·1078	10. 31	·01027	17. 40	41 ·0	42 ·5
4. 39	42. 15	4. 22	·1081	15. 47	·01421	18. 40	41 ·0	43 ·0
4. 50	43. 0	4. 44	·1084	15. 55	·01402	19. 40	40 ·5	42 ·6
5. 7	41. 40	5. 0	·1081	20. 36	·01367	20. 40	40 ·0	42 ·5
5. 33	42. 0	6. 2	·1086	21. 41	·01385	21. 40	41 ·2	42 ·5
6. 0	41. 50	6. 13	·1082	23. 52	·01399	22. 40	41 ·4	42 ·6
6. 12	39. 30	7. 12	·1087			23. 40	42 ·0	43 ·1
7. 0	39. 0	8. 0	·1082					
7. 40	41. 50	8. 59	·1089					
7. 57	41. 0	9. 23	·1084					
10. 12	40. 0	9. 45	·1087					
10. 26	39. 0	10. 28	·1084					
10. 39	31. 0	10. 54	·1089					
11. 28	33. 25	11. 15	·1078					
11. 40	37. 0	11. 27	·1081					
12. 23	36. 55	11. 42	·1074					
12. 30	38. 50	12. 4	·1083					
12. 45	48. 0	12. 15	·1081					
13. 1	39. 55	12. 25	·1086					
13. 12	38. 40	12. 40	·1078					
14. 13	43. 25	13. 27	·1079					
15. 33	42. 50	14. 30	·1086					
15. 43	43. 45	15. 26	·1089					
16. 25	43. 0	15. 44	·1086					
17. 4	43. 50	16. 30	·1090					
17. 28	42. 50	17. 10	·1090					
18. 3	43. 0	17. 35	·1094					
19. 6	41. 50	19. 20	·1100					
20. 15	41. 45	20. 5	·1090					
21. 20	41. 0	21. 20	·1093					
22. 28	41. 55	21. 50	·1093					
22. 45	42. 50	23. 59	·1084					
23. 59	43. 10							
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
0. 0	21. 43. 0	0. 0	·1084	0. 37	·01362	0. 40	43 ·1	44 ·3
0. 40	44. 55	1. 54	·1082	1. 44	·01265	1. 40	44 ·6	45 ·1
0. 55	43. 0	2. 30	·1076	2. 13	·01201	2. 40	46 ·3	46 ·7
1. 43	43. 55	3. 25	·1080	5. 15	·00657	3. 40	47 ·1	48 ·3
2. 11	44. 0	4. 42	·1079	5. 20	·00679	4. 40	48 ·5	48 ·5
2. 42	42. 10	5. 14	·1083	7. 25	·00717	5. 40	49 ·2	49 ·4
4. 34	41. 50	6. 25	·1078	9. 14	·00735	6. 40	49 ·9	49 ·8
5. 0	41. 10	7. 55	·1083	12. 7	·00703	7. 40	51 .2	51 ·6
5. 45	41. 50	9. 50	·1081	15. 30	·00678	8. 40	51 ·5	51 ·4

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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		Nov. 17		Nov. 17		
h m	° ′ ″	h m		h m		h m	°	°
7. 7	21. 40. 5	10. 20	·1077	21. 5	·00798	9. 40	51 ·8	52 ·0
10. 44	38. 55	10. 30	·1079	23. 12	·00862	10. 40	51 ·5	51 ·6
11. 4	37. 50	11. 28	·1074	23. 59	·00873	11. 40	51 ·3	51 ·5
12. 11	39. 0	12. 8	·1076			21. 40	48 ·7	49 ·3
12. 24	40. 50	12. 24	.1090					
12. 40	38. 30	12. 48	·1076					
14. 0	39. 0	15. 40	·1085					
	***	16. 42	·1090					
14. 44	40. 20	17. 0	·1090					
14. 57	41. 55	17. 20	·1087					
15. 4	41. 0	18. 42	·1093					
15. 57	41. 50	20. 14	·1096					
16. 15	41. 0	20. 58	·1100					
17. 40	43. 55	21. 30	·1095					
18. 30	40. 50	22. 27	·1090					
19. 20	40. 45	23. 0	·1085					
21. 16	41. 40	23. 59	·1082					
21. 55	41. 50							
23. 25	42. 30							
23. 30	43. 30							
23. 59	42. 25							
Nov. 18		Nov. 18		Nov. 18		Nov. 18		
0. 0	21. 42. 25	0. 32	·1082	0. 14	·00861	1. 40	51 ·1	51 ·7
0. 33	42. 45	1. 0	·1075	1. 38	·00819	3. 40	53 ·2	52 ·6
0. 45	44. 0	2. 50	·1078	2. 30	·00742	9. 40	54 ·0	53 ·7
1. 43	42. 50	3. 32	·1066		·00825	21. 40	49 ·0	51 ·0
3. 27	43. 0	3. 58	·1076	4. 7	·00859			
3. 50	39. 50	4. 57	·1075	5. 41	·00839			
4. 30	44. 0	6. 0	·1086		·01041			
4. 54	44. 40	6. 27	·1084	6. 50	·00958			
5. 15	42. 50	7. 56	·1089	9. 20	·00952			
5. 31	42. 50	9. 0	·1087	13. 26	·00961			
5. 55	41. 0	9. 22	·1079	18. 41	·01224			
6. 50	40. 50	9. 45	·1086	23. 18	·01559			
7. 8	41. 0	10. 7	·1089	23. 59	·01615			
7. 43	40. 0	10. 30	·1085					
9. 0	40. 50	11. 2	·1093					
11. 2	37. 45	11. 42	·1086					
11. 15	38. 50	11. 54	·1096					
12. 40	39. 50	12. 20	·1095					
14. 6	35. 50		***					
14. 45	39. 30	13. 25	·1104					
15. 26	37. 55	13. 32	·1102					
15. 42	39. 35	13. 43	·1097					
16. 2	38. 45	13. 54	·1101					
16. 26	40. 45	13. 57	·1101					
	***	14. 24	·1089					
17. 15	41. 0	20. 0	·1104					
	***		***					
17. 54	42. 0	21. 40	·1103					
18. 41	41. 0	23. 15	·1090					
19. 10	42. 20	23. 59	·1070					
19. 42	41. 50							
20. 5	42. 20							
	***							
22. 8	41. 50							
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 18								
h m	° ′ ″	h m		h m		h m	°	°
23. 37	21. 46. 50							
23. 46	44. 5							
23. 59	46. 0							
Nov. 19		Nov. 19		Nov. 19		Nov. 19		
0. 0	21. 46. 0	0. 0	·1070	0. 2	·01603	1. 40	50 ·3	50 ·8
0. 55	45. 45	1. 34	·1084	0. 44	·01625	3. 40	51 ·0	52 ·0
	***	1. 58	·1079	1. 56	·01610	9. 40	54 ·6	55 ·0
1. 56	47. 0	2. 40	·1084	2. 31	·01479	21. 40	50 ·7	51 ·4
	***	2. 48	·1079	3. 22	·01518			
3. 36	40. 50	3. 42	·1085	4. 35	·01378			
4. 25	43. 40	3. 58	·1089	5. 54	·01198			
5. 31	43. 0	4. 27	·1089	6. 10	·01188			
5. 58	33. 0	4. 50	·1082	7. 27	·01040			
6. 6	37. 5	5. 30	·1086	8. 50	·00967			
6. 22	36. 40	5. 55	·1084	9. 45	·00939			
6. 54	40. 55	6. 10	·1087	10. 21	·00956			
7. 58	41. 0	6. 24	·1084	11. 10	·00903			
8. 22	39. 55	7. 10	·1091	14. 6	·00985			
8. 41	40. 50	7. 26	·1086	16. 58	·01123			
9. 25	38. 0	8. 20	·1091	17. 20	·01198			
9. 48	30. 0		***	22. 13	·01264			
10. 24	35. 0	9. 50	·1084	23. 15	·01276			
10. 33	39. 10	10. 40	·1086	23. 59	·01238			
10. 51	36. 5	11. 2	·1111					
11. 0	36. 50	11. 24	·1093					
11. 24	33. 0	11. 28	·1096					
11. 41	37. 0	11. 52	·1082					
13. 15	43. 20	12. 58	·1083					
14. 6	39. 55	13. 28	·1095					
14. 41	42. 20	14. 25	·1089					
15. 37	39. 30		***					
15. 54	40. 55	19. 0	·1095					
16. 8	39. 50	19. 20	·1099					
16. 30	40. 50	20. 17	·1095					
17. 4	41. 30	20. 38	·1098					
17. 24	40. 0		***					
17. 33	41. 5	23. 0	·1085					
18. 6	41. 50		***					
20. 15	39. 50	23. 59	·1084					
20. 34	40. 50							
23. 0	39. 40							
23. 45	42. 45							
23. 59	42. 55							
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
0. 0	21. 42. 55	0. 0	·1084	0. 14	·01238	1. 40	53 ·2	53 ·8
0. 57	44. 40	1. 20	·1077	1. 16	·01184	3. 40	53 ·0	54 ·0
1. 30	43. 50	1. 51	·1062	2. 28	·01101	9. 40	56 ·0	55 ·0
1. 51	43. 0	2. 5	·1061	3. 56	·00943	21. 40	52 ·0	52 ·4
2. 5	39. 10	2. 40	·1074	4. 31	{ ·00875			
2. 37	41. 50	3. 30	·1077		{ ·00901			
3. 27	42. 50		***	6. 22	·00897			
3. 40	45. 0	4. 45	·1066	11. 8	·00830			
4. 0	45. 35	5. 0	·1073	11. 37	·00838			
4. 51	42. 50	6. 24	·1081	13. 56	·00860			
5. 5	43. 50	6. 32	·1077	19. 17	·01141			
5. 24	42. 25	6. 59	·1083	22. 25	·01274			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
h m	° ′ ″	h m		h m		h m	°	°
5. 36	21. 42. 55	7. 15	·1077	23. 40	·01306			
5. 58	41. 10	7. 42	·1087					
6. 11	41. 45	8. 5	·1081					
6. 24	40. 30	9. 9	·1084					
6. 27	41. 0	9. 40	·1080					
6. 35	37. 40	10. 2	·1083					
6. 37	37. 55	11. 0	·1077					
6. 45	36. 45	11. 14	·1091					
7. 2	37. 50	11. 20	·1087					
7. 20	34. 0	11. 40	·1086					
7. 32	36. 50	11. 54	·1105					
7. 45	37. 5	12. 15	·1106					
7. 56	39. 0	12. 28	·1097					
8. 4	39. 55	12. 44	·1087					
8. 24	38. 30	13. 3	·1087					
8. 56	40. 5	13. 20	·1081					
10. 4	38. 0	13. 35	·1083					
10. 35	38. 5	13. 59	·1079					
10. 55	39. 0	14. 25	·1085					
11. 26	31. 40	15. 4	·1082					
11. 41	34. 0	15. 27	·1087					
11. 57	37. 45		***					
12. 9	36. 0	18. 0	·1091					
12. 33	37. 50	18. 40	·1094					
12. 56	36. 0	19. 20	·1091					
13. 5	38. 50	19. 49	·1096					
13. 25	37. 40	21. 30	·1086					
13. 45	39. 0	21. 56	·1087					
14. 42	39. 5	22. 30	·1084					
14. 57	40. 30	23. 59	·1082					
15. 25	40. 0							
16. 5	38. 45							
17. 13	40. 55							
18. 25	40. 25							
18. 30	41. 25							
18. 55	39. 50							
19. 15	40. 30							
21. 6	39. 50							
21. 21	40. 50							
21. 55	39. 40							
22. 16	40. 45							
22. 50	41. 0							
23. 7	42. 40							
23. 59	43. 55							
Nov. 21		Nov. 21		Nov. 21		Nov. 21		
0. 0	21. 43. 55	0. 0	·1082	0. 0	·01318	1. 40	53 ·2	54 ·0
0. 20	44. 55	1. 14	·1081	1. 15	·01316	3. 40	55 ·0	55 ·0
0. 32	44. 0	2. 8	·1070	2. 27	·01285	21. 40	53 ·5	54 ·5
1. 10	45. 40	3. 5	·1071	3. 22	·01238			
2. 36	43. 45	3. 35	·1078	5. 39	·01043			
3. 5	42. 0	5. 0	·1079	7. 21	{ ·00863			
3. 39	42. 20	8. 0	·1084		{ ·00922			
5. 7	41. 25	8. 28	·1081	9. 54	·00878			
9. 35	40. 10	8. 44	·1084	10. 7	·00890			
9. 56	36. 0	9. 32	·1078	14. 8	·00886			
10. 6	36. 0	9. 43	·1083	14. 48	·00879			
10. 30	31. 50	9. 58	·1066	16. 6	·00923			

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.21		Nov.21		Nov.21				
h m	° ′ ″	h m		h m		h m	°	°
11. 0	21. 37. 10	10. 30	·1073	21. 18	·01055			
11. 10	36. 50	10. 54	·1082	23. 40	·01088			
11. 42	38. 55	11. 24	·1073					
12. 2	38. 15	11. 30	·1078					
13. 40	30. 50	13. 0	·1080					
14. 15	36. 15	13. 55	·1081					
15. 5	39. 45	14. 20	·1084					
16. 5	41. 50	15. 3	·1084					
16. 30	40. 45	16. 0	·1081					
17. 31	40. 50	17. 4	·1087					
22. 0	40. 55	19. 50	·1088					
	(†)	23. 59	·1077					
Nov.22		Nov.22		Nov.22		Nov.22		
0. 0	21. 43. 0	0. 0	·1077	0. 46	·01098	1. 40	55 ·0	55 ·0
0. 50	43. 45	3. 27	·1078	2. 24	·01048	3. 40	56 ·3	56 ·0
3. 34	42. 0	6. 1	·1085	4. 22	·00900	9. 40	56 ·3	57 ·0
7. 27:	40. 50	8. 40	·1088		·00961	23. 5	54 ·5	56 ·0
9. 0	41. 0	9. 40	·1086	6. 20	·00900			
9. 39	38. 0	10. 2	·1091	8. 24	·00881			
10. 15	39. 45	10. 40	·1089	9. 40	·00898			
10. 31	39. 0	10. 57	·1084	16. 50	·01071			
10. 42	39. 55	11. 4	·1086	21. 10	·01138			
11. 0	38. 50	11. 20	·1083	23. 43	·01150			
11. 12	39. 0	11. 42	·1092					
11. 32	36. 0	12. 35	·1076					
11. 45	36. 40	13. 17	·1081					
12. 26	36. 50	13. 40	·1080					
13. 40	40. 55	14. 4	·1083					
14. 54	42. 0	16. 0	·1089					
18. 3	41. 0	18. 40	·1092					
19. 6	40. 0	19. 56	·1092					
19. 54	41. 20	20. 39	·1095					
22. 0	40. 55	22. 27	·1092					
23. 59	42. 55	22. 55	·1089					
		23. 59	·1086					
Nov.23		Nov.23		Nov.23		Nov.23		
0. 0	21. 42. 55	0. 0	·1086	0. 0	·01141	10. 0	56 ·3	56 ·5
0. 42	45. 0	1. 46:	·1084	1. 42	·01140	12. 40	56 ·0	56 ·1
1. 0	44. 10	8. 4	·1088	2. 35	·01120	13. 40	56 ·0	56 ·3
3. 5	43. 30	8. 30	·1086	6. 0	·00936	14. 40	56 ·1	56 ·3
5. 40	41. 0	8. 55	·1088	7. 7	·00896	15. 40	56 ·7	56 ·4
8. 24	40. 0	9. 46	·1081	7. 55	·00881	16. 40	57 ·2	57 ·0
8. 36	39. 50	10. 15	·1085		·00948	17. 40	57 ·5	57 ·5
8. 50	40. 45	10. 26	·1082	13. 34	·00908	18. 40	57 ·9	57 ·4
9. 6	39. 35	10. 55	·1086	13. 54	·00921	19. 40	57 ·9	57 ·3
9. 18	39. 45	11. 39	·1081	14. 35	·00939	20. 40	58 ·2	57 ·8
9. 40	38. 50	11. 55	·1083	15. 26	·00935	21. 40	59 ·0	58 ·5
10. 0	39. 0	12. 9	·1079	16. 18	·00900	22. 40	59 ·5	58 ·8
10. 42	36. 35	12. 32	·1081		·00942	23. 40	59 ·7	59 ·0
11. 0	37. 40	12. 55	·1078	17. 37	·00928			
11. 30	36. 0	13. 24	·1086		·01104			
12. 30	37. 0	13. 32	·1084	20. 24	·01022			
12. 55	39. 5	13. 48	·1075	22. 8	·01013			
13. 35	34. 55	14. 20	·1079		·01097			
13. 45	35. 50	14. 32	·1072	23. 22	·01068			
14. 6	35. 50	14. 46	·1077					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.23		Nov.23						
h m	° ′ ″	h m		h m		h m	°	°
14. 36	21. 38. 50	15. 0	·1071					
14. 46	38. 0	15. 25	·1075					
15. 30	41. 35		***					
17. 15	40. 0	21. 22	·1076					
18. 40	40. 50	21. 35	·1078					
21. 20	38. 50	21. 51	·1074					
21. 40	39. 15	22. 0	·1074					
22. 6	39. 0	23. 59	·1075					
23. 0	41. 45							
Nov.24		Nov.24		Nov.24		Nov.24		
0. 0	21. 42. 30	0. 0	·1075		(†)	0. 40	60 ·0	58 ·8
1. 25	44. 0	0. 22	·1072	1. 30	·01158	1. 40	60 ·0	58 ·7
1. 57	42. 50	0. 30	·1077	1. 46	·01154	2. 40	59 ·0	58 ·5
3. 50	40. 45	0. 40	·1074	2. 42	·01239	3. 40	60 ·0	59 ·0
6. 41:	39. 0	1. 0	·1081	3. 43	·01283	4. 40	60 ·0	59 ·0
8. 11	39. 50	1. 15	·1074	4. 5	·01306	5. 40	60 ·2	59 ·0
8. 35	34. 40	1. 58	·1074	4. 52	·01320	6. 40	60 ·3	59 ·0
9. 19	37. 50	3. 14	·1072	5. 11	·01358	7. 40	60 ·3	59 ·0
9. 30	36. 45	3. 40	·1074	5. 41	·01377	8. 40	59 ·2	58 ·0
9. 33	37. 0	4. 30	·1073	6. 0	·01417	9. 40	59 ·0	58 ·4
9. 45	34. 55	5. 54	·1079	7. 7	·01455	10. 40	59 ·0	58 ·4
10. 3	34. 10	6. 34	·1077	8. 15	·01518	11. 40	58 ·5	58 ·0
10. 28	37. 45	7. 40	·1081	8. 47	·01561	21. 40	49 ·2	51 ·0
10. 44	37. 40	8. 14	·1079	9. 25	·01610			
15. 38	42. 0	8. 24	·1075	9. 40	·01640			
20. 3	40. 45	8. 46	·1080	11. 20	·01757			
21. 0	41. 10	8. 57	·1075	12. 5	·01774			
21. 11	40. 20	9. 45	·1076	16. 37	·01717			
23. 25	41. 0	10. 27	·1076	21. 3	·01655			
23. 55	41. 55	10. 56	·1079	21. 52	·01614			
23. 59	41. 35	11. 20	·1078	23. 59	·01619			
		13. 0	·1082					
			***					
		13. 33	·1080					
			***					
		13. 57	·1085					
			***					
		18. 55	·1104					
			***					
		20. 15	·1105					
			***					
		21. 10	·1097					
			***					
		23. 0	·1100					
			***					
		23. 59	·1098					
Nov.25		Nov.25		Nov.25		Nov.25		
0. 0	21. 41. 35	0. 0	·1098		(†)	1. 40	50 ·0	51 ·0
0. 31	40. 55		***	1. 24	·01530	3. 40	51 ·0	51 ·0
2. 1	41. 45	0. 59	·1092	2. 25	·01561	9. 40	50 ·0	51 ·0
3. 45	39. 50		***	5. 40	·01513	21. 40	43 ·0	45 ·0
6. 33	38. 50	4. 4	·1082	7. 28	·01496			
7. 4	38. 20		***	8. 58	·01517			
7. 50	38. 50	5. 30	·1083	10. 26	·01562			
9. 30	38. 50	6. 29	·1082	15. 10	·01522			
11. 5	39. 55	9. 0	·1081	17. 50	·01504			

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.25		Nov.25		Nov.25				
h m	° ′ ″	h m		h m		h m	°	°
13. 14	21. 40. 50	13. 30	·1091	20. 55	·01477			
15. 9	41. 50	19. 45	·1103	23. 20	·01483			
15. 41	41. 10	23. 14	·1098	23. 59	·01460			
16. 25	42. 0	23. 32	·1094					
16. 40	41. 0	23. 59	·1095					
20. 45	40. 30							
23. 59	42. 0							
Nov.26		Nov.26		Nov.26		Nov.26		
0. 0	21. 42. 0	0. 0	·1095	0. 42	·01457	1. 40	45 ·0	46 ·0
1. 27	43. 0	2. 5	·1096	2. 22	·01362	3. 40	46 ·0	47 ·0
2. 5	41. 55	2. 44	·1096	6. 54	·01018	9. 40	48 ·5	49 ·0
4. 23	41. 5	2. 50	·1095	9. 42	·00835	21. 40	46 ·0	47 ·0
4. 33	40. 0	3. 40	·1091	11. 30	·00750			
4. 58	41. 20	4. 20	·1088	17. 2	·00750			
5. 37	39. 5	4. 30	·1091	20. 49	·00830			
6. 55	40. 0	4. 50	·1080	23. 26	·00936			
8. 57	39. 15	6. 0	·1088	23. 59	·00942			
9. 38	39. 45	7. 12	·1084					
9. 59	38. 35	9. 5	·1086					
14. 41	41. 40	9. 13	·1089					
14. 48	43. 0	9. 30	·1086					
15. 32	39. 35	10. 4	·1091					
16. 2	42. 0	10. 40	·1088					
16. 50	40. 0	11. 3	·1092					
17. 2	40. 50	11. 18	·1102					
17. 15	40. 0	11. 35	·1092					
17. 30	40. 55	13. 20	·1095					
18. 10	40. 50	13. 30	·1093					
19. 25	41. 55	14. 40	·1091					
20. 10	41. 0	15. 28	·1099					
20. 33	42. 45	15. 35	·1094					
20. 56	41. 40	16. 10	·1096					
21. 27	42. 50	16. 32	·1099					
21. 39	42. 0	17. 6	·1094					
22. 20	42. 50	17. 22	·1098					
23. 10	41. 30	17. 29	·1095					
23. 50	44. 10	19. 43	·1092					
23. 59	44. 0	20. 15	·1099					
		20. 45	·1092 ***					
		21. 12	·1097 ***					
		22. 16	·1089 ***					
		22. 27	·1086 ***					
		23. 20	·1087					
		23. 59	·1082					
Nov.27		Nov.27		Nov.27		Nov.27		
0. 0	21. 44. 0	0. 0	·1082	0. 26	·00941	1. 40	47 ·7	48 ·0
0. 40	43. 35	0. 30	·1084	1. 43	·00919	3. 40	48 ·5	49 ·0
1. 49	44. 0	1. 2	·1078	2. 45	·00876	9. 40	52 ·5	52 ·5
2. 0	45. 0	1. 49	·1082	3. 34	·00818	21. 40	44 ·7	46 ·0
2. 25	43. 50	2. 10	·1078	5. 8	·00620			
2. 48	44. 0	2. 40	·1081	5. 31	·00645			
3. 9	41. 45	3. 0	·1069	7. 59	·00670			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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.27		Nov.27		Nov.27				
h m	° ′ ″	h m		h m		h m	°	°
3. 25	21. 42. 20	3. 56	·1081	9. 40	·00657			
5. 0	41. 30	4. 55	·1080	11. 35	·00619			
5. 54	37. 35	5. 18	·1083	13. 24	·00678			
6. 25	39. 20	5. 38	·1077	14. 52	·00797			
8. 10	39. 40	6. 14	·1078	19. 15	·01285			
10. 8	39. 0	6. 30	·1076	21. 9	·01461			
10. 31	37. 0	8. 55	·1078	22. 8	·01520			
10. 42	38. 20	9. 4	·1076	22. 19	·01501			
11. 0	38. 15	9. 48	·1077	23. 55	·01493			
11. 15	39. 0	10. 14	·1076					
11. 40	38. 50	10. 35	·1084					
12. 55	41. 0	10. 45	·1079					
15. 5:	42. 50	10. 58	·1083					
19. 3	40. 55	11. 14	·1077					
22. 9	41. 0	11. 40	·1086					
23. 59	42. 40	12. 28	·1080					
		15. 15	·1089					
		17. 5:	·1093					
		20. 30	·1094					
		23. 0	·1082					
		23. 28	·1083					
Nov.28		Nov.28		Nov.28		Nov.28		
0. 10	21. 41. 30	0. 2	·1082	0. 5	·01485	1. 40	45 ·0	46 ·0
1. 10	42. 5	0. 30	·1084	2. 22	·01518	3. 40	45 ·0	46 ·5
5. 38	39. 30	1. 26	·1082	3. 42	·01481	9. 40	49 ·0	48 ·5
6. 3	36. 30	2. 20	·1079	8. 26	·01239	21. 40	40 ·0	42 ·0
6. 33	38. 40	2. 40	·1085	10. 12	·01191			
9. 36	38. 10	3. 0	·1082	13. 15	·01194			
9. 55	35. 5	5. 15	·1081	14. 55	·01293			
10. 1	35. 0	5. 35	·1080	17. 18	·01482			
10. 9	37. 40	6. 40	·1083		·01423			
11. 0	36. 55	9. 0	·1081	21. 38	·01397			
11. 58	37. 55	10. 15	·1080	22. 0	·01255			
12. 34	41. 0	11. 23	·1087	22. 32	·01297			
13. 3	40. 15	11. 52	·1082	23. 59	·01294			
18. 25	41. 15	12. 5	·1088					
19. 5	40. 25	12. 44	·1088					
19. 26	41. 0	12. 58	·1091					
20. 10	40. 25	13. 50	·1088					
22. 26	41. 30	15. 40	·1092					
23. 7	42. 55	16. 40	·1092					
23. 40	42. 20	17. 55	·1097					
23. 59	42. 30	18. 20	·1094					
		19. 50	·1102					
		21. 36	·1103					
		22. 32	·1095					
		23. 59	·1095					
Nov.29		Nov.29		Nov.29		Nov.29		
	(†)		(†)		(†)	1. 40	40 ·3	42 ·5
1. 10	21. 43. 15	1. 10	·1099	1. 11	·01279	3. 40	42 ·0	42 ·3
1. 27	42. 40	1. 22	·1092	2. 32	·01276	9. 40	42 ·5	43 ·0
1. 34	42. 55	1. 36	·1092	4. 18	·01196	23. 15	33 ·0	32 ·4
2. 2	40. 30	2. 0	·1087	6. 45	·01030			
2. 50	42. 10		***	7. 40	·00987			
4. 4	42. 0	3. 40	·1091	9. 0	·00944			
4. 32	40. 55	4. 14	·1082	10. 56	·00976			
4. 49	42. 50	4. 44	·1084	15. 52	·01361			
5. 10	43. 0		***		·01338			

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. 29		Nov. 29		Nov. 29				
h m	° ′ ″	h m		h m		h m	°	°
5. 35	21. 45. 0	7. 37	·1079	17. 40	·01361			
6. 20	42. 0	7. 55	·1083		·01296			
6. 32	42. 35	8. 3	·1077	18. 19	·01352			
7. 2	41. 40	8. 28	·1083	19. 36	·01401			
7. 20	39. 0	9. 0	·1082	21. 11	·01445			
7. 28	39. 50	10. 15	·1086	23. 8	·01420			
7. 32	39. 0	10. 40	·1091	23. 14	·01395			
7. 55	41. 30	11. 14	·1080	23. 21	·01393			
9. 42	36. 20	11. 58	·1095					
9. 59	38. 0	12. 5	·1104					
10. 20	38. 0	12. 35	·1099					
10. 37	39. 40	12. 57	·1098					
10. 53	38. 50	13. 14	·1094					
11. 0	39. 30	20. 0:	·1106					
11. 27	40. 0	22. 32	·1103					
11. 58	39. 10	23. 18	·1101					
12. 15	41. 0	23. 59	·1102					
12. 54	39. 30							
14. 33	40. 0							
16. 10	40. 40							
20. 12:	39. 50							
21. 5	41. 5							
23. 34	42. 20							
23. 59	41. 50							
Nov. 30		Nov. 30		Nov. 30		Nov. 30		
0. 0	21. 41. 50	0. 0	·1102	0. 0	·01400	7. 32	35 ·8	39 ·0
0. 46	42. 0	1. 0	·1104	1. 12	·01417	12. 40	36 ·0	39 ·0
1. 0	42. 30	2. 20	·1105	2. 42	·01398	13. 40	37 ·6	39 ·2
1. 40	42. 40	4. 50	·1109	4. 52	·01300	14. 40	38 ·0	40 ·0
2. 10	41. 50	5. 12	·1107	9. 38	·01044	15. 40	37 ·5	39 ·5
2. 55	41. 50	5. 54	·1111	14. 54	·00976	16. 40	37 ·0	39 ·3
4. 9	40. 0	6. 58	·1110	16. 11	·00962	17. 40	38 ·0	40 ·0
4. 32	40. 10	7. 15	·1112	19. 13	·00890	18. 40	38 ·3	40 ·1
5. 16	38. 50	8. 26	·1109	20. 40	·00895	19. 40	38 ·5	40 ·3
6. 15	39. 50	8. 54	·1111	23. 59	·00911	20. 40	38 ·0	39 ·0
7. 15	38. 35	9. 2	·1108			21. 40	38 ·1	39 ·0
8. 11	38. 50	9. 34	·1109			22. 40	38 ·8	39 ·0
8. 57	38. 30		***			23. 40	39 ·0	39 ·0
16. 45	39. 50	12. 45	·1107					
17. 7	40. 40	13. 0	·1105					
17. 15	40. 45	13. 20	·1104					
17. 45	38. 55	13. 45	·1103					
22. 15	40. 5	14. 34	·1106					
23. 59	41. 25	19. 5	·1104					
		20. 30	·1101					
		20. 50	·1102					
		23. 59	·1090					
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 0	21. 41. 25	0. 0	·1090		(†)	0. 40	40 ·0	39 ·4
3. 45	39. 25	1. 45	·1086	1. 12	·00882	1. 40	40 ·7	40 ·3
4. 28	39. 45	2. 26	·1089	2. 21	·00798	2. 40	41 ·7	41 ·5
5. 4	39. 30	3. 19	·1090	3. 42	·00616	3. 40	42 ·2	41 ·8
6. 26	40. 5	3. 50	·1090	3. 49	·00620	4. 40	43 ·5	43 ·2
6. 30	41. 0	4. 0	·1086		·00942	5. 40	43 ·8	43 ·0
6. 41	39. 45	4. 29	·1085	6. 12	·00658	6. 40	44 ·3	43 ·5
7. 43	39. 50	5. 0	·1081	8. 44	·00658	7. 40	44 ·8	43 ·2
8. 20	38. 40	6. 2	·1081		·00858	8. 40	44 ·7	43 ·1

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 1		Dec. 1		Dec. 1		Dec. 1		
h m	° ′ ″	h m		h m		h m	°	°
12. 6	21. 38. 15	6. 30	·1077	10. 35	·00739	9. 40	44 ·6	44 ·0
12. 15	36. 45	7. 18	·1078	14. 6	·00682	10. 40	44 ·6	44 ·0
13. 7	37. 40	7. 50	·1081	15. 42	·00751	11. 40	44 ·5	44 ·0
13. 45	39. 0	10. 0	·1082	17. 55	·00930	21. 40	37 ·0	38 ·5
14. 15	38. 55	11. 30	·1079	20. 13	·01221			
14. 55	40. 0	12. 2	·1079	21. 54	·01457			
16. 0	40. 10	12. 24	·1089	22. 38	·01412			
20. 4	41. 30	12. 45	·1081	23. 59	·01460			
21. 0	40. 45	13. 2	·1086					
	***	13. 44	·1085					
23. 59	41. 0	14. 0	·1088					
		14. 45	·1087					
		15. 40	·1092					
		19. 5:	·1102					
		10. 26	·1103					
		20. 50	·1099					
		21. 30	·1102					
		22. 30	·1099					
			(†)					
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 15	21. 41. 20	0. 19	·1092	0. 15	·01481	1. 40	38 ·0	38 ·7
1. 12	42. 10	1. 0	·1088	2. 12	·01494	3. 40	39 ·5	39 ·5
2. 40	40. 50	1. 19	·1087	3. 15	·01459	9. 40	39 ·6	40 ·0
6. 55	39. 10	2. 15	·1090	6. 30	·01221	21. 40	39 ·0	40 ·0
7. 24	39. 50	4. 30	·1089	9. 28	·01148			
8. 20	39. 5	5. 3	·1093	18. 10	·01217			
8. 44	40. 0	6. 27	·1091	21. 38	·01118			
9. 13	39. 45	7. 10	·1090	23. 32	·01051			
10. 32	39. 0	8. 4	·1092	23. 59	·01035			
12. 46	40. 0	8. 27	·1089					
14. 2	39. 35	8. 50	·1091					
14. 41	37. 50	9. 58	·1090					
15. 25	41. 5	10. 32	·1094					
16. 45	38. 0	13. 6	·1094					
18. 25	40. 45	13. 33	·1099					
18. 35	39. 30	13. 54	·1098					
19. 15	40. 20	14. 20	·1102					
19. 45	39. 0	15. 2	·1096					
20. 10	39. 55	16. 0	·1100					
21. 4	39. 40	16. 58	·1108					
21. 47	42. 40	18. 30	·1104					
	***	18. 44	·1108					
23. 50	43. 0	19. 40	·1100					
23. 59	43. 15	20. 58	·1100					
		21. 14	·1094					
		21. 47	·1094					
		23. 25	·1083					
		23. 59	·1082					
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	21. 43. 15	0. 0	·1082	1. 1	·00956	1. 40	42 ·0	42 ·0
0. 13	45. 15	0. 14	·1085	1. 50	·00881	3. 40	44 ·0	43 ·0
0. 50	50. 30	1. 51	·1060	3. 54	·00636	9. 40	45 ·0	44 ·0
1. 13	48. 55	2. 45	·1071	4. 15	·00658	21. 40	39 ·5	41 ·0
1. 30	49. 0	3. 0	·1063	6. 13	·00664			
1. 50	47. 40	3. 14	·1065	10. 10	·00636			
3. 25	49. 30	3. 57	·1051	12. 58	·00751			

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		Dec. 3				
h m	° ′ ″	h m		h m		h m	°	°
4. 15	21. 45. 0	4. 28	·1055	17. 6	·00858			
4. 45	45. 0	4. 32	·1051	21. 33	·01155			
5. 1	46. 50	4. 58	·1049	23. 59	·01337			
5. 28	42. 0	5. 12	·1040					
5. 34	42. 50	5. 26	·1048					
5. 51	41. 50	5. 38	·1042					
6. 1	40. 0	6. 0	·1053					
6. 33	40. 55	6. 36	·1058					
6. 41	42. 50	6. 42	·1055					
7. 3	41. 10	7. 2	·1060					
7. 16	42. 40	7. 44	·1038					
7. 30	38. 40	8. 30	·1090					
7. 36	38. 5	8. 56	·1038					
8. 5	11. 35	9. 8	·1046					
8. 56	34. 0	9. 37	·1046					
9. 6	27. 15	9. 40	·1055					
9. 17	31. 40	10. 0	·1053					
10. 3	38. 35	10. 20	·1064					
10. 35	35. 40	10. 29	·1058					
12. 34	39. 0	12. 35	·1067					
14. 0	40. 0	13. 53	·1068					
14. 36	42. 50	15. 40	·1081					
15. 40	38. 40	16. 27	·1077					
16. 16	39. 30	16. 40	·1078					
16. 30	38. 45	17. 20	·1077					
16. 44	40. 0	18. 25	·1082					
19. 20	41. 25	19. 9	·1081					
21. 4	40. 50	19. 56	·1078					
22. 25	41. 30	20. 2	·1080					
23. 20	42. 50	22. 24	·1073					
23. 59	42. 0	23. 45	·1063					
		23. 59	·1066					
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 0	21. 42. 0	0. 0	·1066	0. 30	·01360	1. 40	39 ·7	40 ·5
1. 15	45. 0	2. 5	·1072	0. 58	·01378	3. 40	42 ·0	42 ·0
1. 50	45. 50	2. 40	·1074		(†)	9. 40	46 ·0	44 ·7
3. 10	42. 45	4. 28	·1076	1. 40	·01591*	21. 40	44 ·0	44 ·8
4. 25	41. 40	5. 25	·1080	3. 40	·01648*			
5. 50	39. 30	6. 12	·1079		(†)			
6. 27	40. 0	6. 28	·1081	5. 2	·01270			
7. 30	39. 0	7. 24	·1078	7. 16	·00991			
9. 10	39. 45	9. 0	·1083	8. 11	·00924			
10. 50	38. 50	10. 0	·1084	8. 53	·00778			
11. 26	38. 20	10. 15	·1081	9. 10	·00777			
11. 54	38. 55	10. 45	·1081	10. 0	{·00716			
12. 20	37. 40	11. 4	·1078		{·00748			
12. 41	38. 50	11. 45	·1088	14. 7	·00699			
15. 25	41. 15	11. 58	·1082	15. 40	·00654			
16. 11	39. 35	12. 26	·1082	18. 28	·00697			
18. 0	40. 40	12. 33	·1085	20. 20	·00701			
19. 29	40. 45	14. 15	·1086	23. 36	·00686			
19. 57	43. 50	16. 0	·1098	23. 38	·00717			
20. 38	42. 45	19. 12	·1096	23. 59	·00728			
21. 45	43. 50	19. 34	·1091					
22. 9	44. 0	20. 8	·1096					
22. 26	44. 0	21. 0	·1096					
23. 8	45. 35	21. 18	·1093					
		21. 52	·1094					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 4						
h m	° ′ ″	h m		h m		h m	°	°
		22. 30	·1094					
		23. 3	·1083					
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
0. 4	21. 42. 25	0. 2	·1066	0. 0	·00719	1. 40	47 ·0	46 ·5
0. 15	43. 45	0. 12	·1070	3. 17	·00879	3. 40	50 ·0	50 ·0
0. 27	42. 20	0. 28	·1066	4. 40	·00914	9. 40	53 ·0	52 ·6
1. 3	44. 0	1. 45	·1065	7. 22	·00924	21. 40	53 ·0	53 ·0
2. 5	42. 20	2. 10	·1067	10. 37	·00958			
2. 30	40. 0	2. 28	·1062	19. 36	·00940			
2. 50	41. 0	3. 0	·1067	22. 40	·01079			
	***	5. 15	·1069	23. 32	·01095			
5. 45	40. 25	6. 0	·1061					
6. 15	37. 20	6. 46	·1069					
6. 54	40. 45	8. 26	·1072					
8. 35	39. 40	9. 32	·1066					
9. 50	38. 20	11. 0	·1069					
10. 20	39. 40	11. 55	·1066					
10. 35	38. 55	14. 30	·1070					
12. 15	40. 40	19. 57	·1073					
12. 40	39. 50	21. 40	·1072					
14. 2	42. 0	21. 55	·1067					
15. 51	40. 50	22. 56	·1066					
16. 35	41. 20	23. 59	·1074					
21. 15	40. 5							
23. 59	42. 40							
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 0	21. 42. 40	0. 0	·1074	0. 0	·01113	1. 40	54 ·0	53 ·5
1. 38	42. 50	0. 26	·1072	1. 10	·01110	3. 40	55 ·5	55 ·0
3. 27:	41. 0	0. 45	·1076	2. 42	·01057	9. 40	56 ·0	56 ·0
9. 4	40. 30	3. 28	·1071	3. 41	{·00977	22. 43	58 ·0	58 ·5
9. 22	39. 0	4. 40	·1074		{·01018			
9. 47	40. 10	5. 46	·1078	3. 46	{·01021			
12. 27	40. 40	10. 55	·1074		{·01059			
12. 30	41. 15	11. 44	·1077	5. 22	·01016			
12. 57	40. 50	12. 28	·1074	16. 45	{·01006			
13. 10	42. 0	14. 15	·1078		{·01098			
13. 37	41. 10	16. 30	·1078	18. 35	·01077			
13. 50	42. 0	17. 24	·1081	22. 45	·01058			
14. 20	41. 25	21. 33	·1079		(†)			
20. 11:	41. 0	23. 59	·1075					
23. 59	43. 0							
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	21. 43. 0	0. 0	·1075	0. 0	·01057	7. 26	58 ·0	58 ·0
1. 35	45. 0	1. 56	·1072	5. 30	·01042	12. 40	56 ·5	56 ·7
2. 6	43. 35	2. 14	·1063	13. 7	·01120	13. 40	57 ·0	56 ·8
2. 28	45. 5	4. 40	·1074	14. 37	·01129	14. 40	57 ·5	56 ·5
2. 47	43. 50	9. 0	·1075	15. 41	·01045	15. 40	57 ·8	56 ·8
3. 42	43. 0	11. 40	·1071	19. 6	·01043	16. 40	58 ·2	57 ·0
4. 25	42. 0	12. 26	·1071	19. 33	·01096	17. 40	58 ·0	57 ·0
12. 28	39. 50	13. 55	·1059	22. 37	·01059	18. 40	59 ·0	57 ·2
15. 50	40. 10	17. 0	·1061	23. 26	·01058	19. 40	59 ·5	57 ·6
22. 2	38. 15	18. 57	·1058			20. 40	59 ·7	58 ·0
23. 0	39. 25	20. 0	·1062			21. 40	60 ·0	58 ·3
23. 24	39. 0	21. 30	·1060			22. 40	60 ·1	58 ·6
23. 59	41. 0	22. 0	·1063			23. 40	60 ·3	58 ·7
		22. 28	·1062					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Dec. 7 h m		h m		h m	°	°
		23. 30	·1057					
		23. 59	·1053					
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	21. 41. 0	0. 0	·1053	0. 0	·01058	0. 40	60 ·6	59 ·4
0. 58	42. 0	0. 46	·1053	0. 30	·01041	1. 40	61 ·1	59 ·6
1. 40	44. 55	2. 30	·1041		·01098	2. 40	61 ·3	60 ·0
2. 12	45. 20	3. 45	·1052	1. 17	·01105	3. 40	61 ·6	60 ·0
2. 42	44. 50	4. 27	·1054	1. 37	·01136	4. 40	60 ·8	60 ·0
3. 33	42. 0	4. 46	·1051	1. 49	·01138	5. 40	60 ·0	59 ·8
3. 57	41. 5	6. 25	·1056	2. 54	·01467	6. 40	61 ·2	59 ·8
4. 32	42. 0	6. 34	·1054		·01541	7. 40	61 ·3	59 ·7
5. 35	39. 40	7. 15	·1053	4. 2	·01559	8. 40	61 ·5	59 ·8
7. 42	39. 0	7. 57	·1049	4. 36	·01598	9. 40	61 ·4	59 ·5
8. 10	34. 50	8. 16	·1059	6. 42	·01669	10. 40	61 ·4	59 ·5
8. 24	35. 0	8. 28	·1052	10. 7	·01698	11. 40	61 ·2	59 ·0
8. 35	34. 0	8. 50	·1055	12. 37	·01670	21. 40	58 ·0	58 ·0
9. 27	38. 0	9. 28	·1052	14. 10	·01679			
9. 50	37. 45	11. 15	·1056	16. 20	·01712			
11. 58	38. 0	11. 43	·1055	19. 37	·01821			
12. 30	35. 20	12. 14	·1066	23. 26	·01955			
12. 40	36. 50	12. 29	·1059	23. 59	·01842			
13. 4	36. 40	14. 40	·1061					
13. 15	37. 50	17. 5	·1068					
13. 50	37. 45	19. 27	·1070					
14. 2	38. 50	20. 0	·1068					
15. 0	39. 45	21. 30	·1072					
20. 40	39. 10	23. 59	·1063					
23. 20	40. 50							
23. 59	40. 50							
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 0	21. 40. 50	0. 0	·1063	0. 33	·01844	1. 40	58 ·5	57 ·0
1. 40	41. 53*	0. 24	·1064	1. 49	·01861	3. 40	59 ·2	58 ·0
3. 40	41. 17*	1. 49	·1061	2. 46	·01826	9. 40	59 ·0	58 ·5
9. 40	37. 43*	3. 15	·1060	3. 54	·01762	21. 40	56 ·8	57 ·0
21. 40	40. 23*	4. 26	·1062	6. 10	·01637			
			(†)	8. 20	·01543			
		9. 40	·1065*	9. 48	·01526			
		21. 40	·1069*	10. 7	·01540			
					·01774			
				17. 17	·01861			
					·01817			
				19. 6	·01850			
				23. 59	·01882			
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
1. 40	21. 39. 50*	1. 40	·1063*	0. 15	·01876	1. 40	58 ·2	57 ·5
3. 40	37. 21*	3. 40	·1066*	1. 25	·01860	3. 40	59 ·0	57 ·7
9. 40	36. 13*	9. 40	·1063*	5. 22	·01758	9. 40	58 ·6	57 ·7
21. 40	40. 40*	21. 40	·1074*	7. 10	·01701	21. 40	55 ·0	55 ·5
				9. 18	·01684			
				11. 35	·01682			
				14. 41	·01795			
				16. 57	·01889			
					·01824			
				19. 52	·01837			
				23. 59	·01834			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 11		Dec. 11		Dec. 11		Dec. 11		
h m	° ′ ″	h m		h m		h m	°	°
1. 40	21. 42. 24*	1. 40	·1060*	1. 40	·01149*	1. 40	56 ·3	55 ·7
3. 40	43. 46*	3. 40	·1053*		(†)	3. 40	58 ·0	57 ·0
9. 40	35. 25*	9. 40	·1066*	2. 2	·01820	9. 40	57 ·0	56 ·5
21. 40	40. 36*	21. 40	·1078*	3. 48	·01708	21. 40	52 ·0	52 ·0
				6. 26	·01519			
				7. 50	·01494			
				9. 56	·01550			
				11. 20	·01616			
				15. 28	·01819			
					·01760			
				19. 30	·01773			
				23. 59	·01800			
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
1. 40	21. 41. 52*	1. 40	·1068*	0. 0	·01680	1. 40	53 ·4	53 ·5
3. 40	42. 5*	3. 40	·1055*	1. 17	·01682	3. 40	55 ·0	54 ·5
9. 40	39. 56*	9. 40	·1061*	2. 28	·01624	9. 40	55 ·0	54 ·5
21. 40	38. 59*	21. 40	·1077*	4. 38	·01494	21. 40	50 ·0	50 ·5
				5. 54	·01285			
				7. 34	·01157			
				9. 26	·01102			
				11. 5	·01083			
				19. 54	·01417			
				22. 10	·01404			
				23. 24	·01518			
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
1. 40	21. 42. 14*	1. 40	·1068*	0. 0	·01521	1. 40	51 ·5	52 ·0
3. 40	37. 14*	3. 40	·1081*	2. 34	·01562	3. 40	53 ·0	53 ·0
9. 40	36. 21*	9. 40	·1066*	4. 10	·01562	9. 40	53 ·0	53 ·3
23. 10	41. 0*	23. 10	·1080*	8. 40	·01489	23. 10	49 ·0	49 ·5
				15. 25	·01467			
				23. 59	·01394			
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
9. 40	21. 36. 51*	9. 40	·1072*		(†)	9. 40	50 ·0	51 ·0
21. 40	39. 42*	21. 40	·1070*	3. 57	·01318	12. 40	49 ·2	50 ·7
				7. 19	·01077	13. 40	49 ·2	50 ·0
				8. 26	·01052	14. 40	49 ·7	50 ·0
				9. 50	·01048	15. 40	50 ·0	50 ·0
				14. 8	·01228	16. 40	50 ·2	50 ·2
				14. 41	·01281	17. 40	50 ·7	50 ·4
				15. 19	·01290	18. 40	51 ·0	50 ·2
				19. 34	·01647	19. 40	51 ·1	50 ·2
				21. 52	·01664	20. 40	51 ·4	50 ·2
				23. 59	·01687	21. 40	51 ·7	50 ·5
						22. 40	51 ·7	50 ·5
						23. 40	51 ·7	50 ·5
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
	(†)	1. 40	·1066		(†)	0. 40	52 ·0	50 ·7
1. 40	21. 41. 38*		(†)	1. 15	·01377	1. 40	52 ·3	51 ·0
2. 10	40. 50	2. 2	·1066	2. 10	·01366	2. 40	53 ·0	52 ·0
3. 54	39. 30	4. 37	·1068	3. 12	·01315	3. 40	53 ·3	52 ·3
4. 11	38. 50	4. 56	·1070	5. 48	·01167	4. 40	53 ·3	52 ·2
4. 25	39. 0	5. 14	·1067	7. 32	·01115	5. 40	53 ·3	52 ·2
6. 3	38. 5	6. 45	·1069	9. 12	·00997	6. 40	53 ·5	52 ·3
6. 54	38. 20	7. 20	·1065	9. 45	·01118	7. 40	53 ·0	52 ·5
7. 37	37. 40	8. 5	·1069		·01298	8. 40	52 ·7	52 ·0
7. 58	38. 0	11. 57	·1073	11. 52	·01336	9. 40	52 ·3	51 ·8
11. 20	38. 0	12. 45	·1076	16. 45	·01600	10. 40	51 ·7	51 ·3

December 9 to December 15. The Declination and Horizontal-Force Time-Piece was under repair.

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. 15		Dec. 15		Dec. 15		Dec. 15		
h m	° ′ ″	h m		h m		h m	°	°
15. 8	21. 40. 45	13. 28	·1075	19. 32	·01601	11. 40	51 ·3	50 ·5
16. 50	40. 55	19. 25	·1098	22. 55	·01557	21. 40	43 ·2	44 ·2
21. 51:	40. 10	20. 24	·1104	23. 59	·01565			
22. 30	40. 0	21. 0	·1098					
23. 10	41. 0	21. 46	·1099					
23. 59	40. 55	22. 15	·1090					
		23. 59	·1085					
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 0	21. 40. 55	0. 0	·1085	0. 32	·01557	1. 40	43 ·2	43 ·5
1. 48	41. 10	1. 10	·1084	3. 0	·01600	3. 40	45 ·0	44 ·0
3. 12	40. 45	2. 54	·1086	3. 52	·01577	9. 40	46 ·5	46 ·5
4. 30	39. 50	3. 10	·1083	4. 47	·01535	21. 40	39 ·0	41 ·0
4. 45	40. 40	4. 18	·1082	5. 40	·01476			
5. 41	39. 35	4. 40	·1086	7. 1	·01404			
6. 10	40. 20	5. 27	·1083	7. 22	·01401			
6. 40	39. 45	6. 34	·1080	11. 5	·01280			
7. 2	35. 40	6. 55	·1070	14. 52	·01259			
7. 34	38. 30	7. 18	·1079	17. 27	{ ·01554			
8. 11	38. 50	8. 19	·1080		{ ·01503			
8. 30	39. 55	8. 27	·1077	18. 50	·01516			
8. 57	38. 0	9. 15	·1083	22. 35	·01517			
10. 6	37. 50	10. 0	·1084	23. 54	·01538			
10. 13	34. 20	10. 16	·1099					
10. 46	35. 50	10. 26	·1094					
11. 0	36. 0	10. 34	·1096					
11. 14	37. 15	10. 46	·1093					
12. 5	39. 0	10. 54	·1099					
13. 0	38. 40	11. 25	·1093					
14. 2	39. 10	11. 42	·1092					
15. 0	38. 55	11. 50	·1096					
15. 6	39. 45	11. 58	·1091					
15. 30	39. 50	12. 28	·1095					
16. 6	40. 45	13. 2	·1092					
16. 30	39. 45	13. 26	·1094					
17. 9	40. 0	14. 6	·1094					
18. 4	39. 50	14. 34	·1099					
18. 58	41. 45	14. 47	·1097					
19. 30	40. 20	15. 4	·1099					
20. 27	40. 40	15. 55	·1100					
21. 20	48. 0	16. 50	·1107					
22. 29	48. 15	17. 19	·1108					
22. 34	43. 45	18. 2	·1107					
22. 45	42. 10	18. 40	·1108					
23. 7	41. 50	19. 26	·1107					
23. 30	42. 10	20. 58	·1092					
23. 57	41. 0	21. 28	·1104					
		21. 45	·1100					
		22. 10	·1104					
		22. 24	·1102					
		22. 42	·1107					
		23. 20	·1095					
		23. 59	·1092					
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
0. 2	21. 40. 45	0. 0	·1092	1. 0	·01503	1. 40	41 ·0	42 ·0
0. 11	40. 50	0. 40	·1089	2. 30	·01450	3. 40	43 ·5	43 ·0
0. 28	41. 40	1. 55	·1084	4. 0	·01364	9. 40	46 ·0	45 ·0
1. 10	40. 45	2. 6	·1087	5. 46	·01178	21. 40	46 ·2	47 ·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. 17		Dec. 17		Dec. 17				
h m	° ′ ″	h m		h m		h m	°	°
2. 4	21. 41. 35	3. 4	·1079	7. 6	·00990			
2. 24	43. 55	4. 8	·1080	9. 15	·00793			
3. 12	41. 45	4. 30	·1060	10. 51	·00659			
4. 15	44. 50	4. 55	·1055	14. 40	·00658			
4. 58	34. 25	5. 0	·1061	19. 35	·00668			
5. 2	35. 45	5. 5	·1054	21. 36	{ ·00686			
5. 6	34. 50	5. 25	·1060		{ ·01030			
5. 24	37. 0	5. 35	·1068	23. 59	·00968			
5. 27	37. 0	5. 46	·1067					
5. 35	38. 0	6. 4	·1073					
5. 45	38. 0	6. 28	·1071					
6. 9	43. 50	6. 34	·1074					
6. 30	42. 35	6. 46	·1073					
6. 40	43. 40	7. 20	·1077					
6. 58	42. 0	7. 35	·1071					
8. 20	39. 40	8. 5	·1077					
8. 40	36. 50	8. 40	·1077					
9. 3	26. 40	9. 0	·1074					
9. 13	26. 0	9. 30	·1090					
10. 4	35. 0	9. 58	·1080					
10. 31	37. 40	10. 55	·1072					
10. 46	35. 0	11. 20	·1080					
11. 6	33. 55	11. 39	·1074					
11. 30	36. 50	11. 58	·1079					
11. 58	36. 45	13. 28	·1090					
13. 0	39. 0	13. 57	·1083					
13. 28	37. 50	18. 0	·1088					
13. 40	38. 30	19. 25	·1084					
14. 14	37. 0	20. 15	·1088					
14. 40	38. 45	20. 32	·1084					
17. 42	38. 50	21. 53	·1086					
18. 12	39. 50		(†)					
18. 54	39. 15							
19. 0	39. 35							
22. 15	40. 0							
22. 50	40. 55							
	(†)							
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
0. 8	21. 42. 0	0. 11	·1080	0. 10	·00959	1. 40	49 ·0	48 ·3
1. 7	42. 0	1. 6	·1080	2. 6	·00843	3. 40	51 ·0	50 ·3
1. 40	41. 5	4. 40	·1069	5. 25	·00878	9. 40	53 ·0	53 ·0
3. 25	40. 5	5. 30	·1071	10. 17	·00884	21. 40	48 ·5	49 ·0
5. 22	42. 0	6. 56	·1077	14. 45	·00862			
6. 27	40. 40	7. 40	·1073	17. 56	·00936			
7. 54	41. 0	8. 14	·1060	20. 51	·01079			
8. 30	34. 35	8. 37	·1069	22. 23	·01174			
8. 55	39. 25	9. 0	·1060	23. 59	·01318			
11. 34	40. 40	9. 57	·1072					
12. 57	38. 10	10. 40	·1076					
13. 30	40. 20	11. 15	·1076					
13. 45	38. 20	11. 32	·1077					
14. 0	39. 50	12. 5	·1073					
14. 28	38. 45	13. 15	·1072					
14. 43	39. 50	13. 48	·1071					
15. 50	39. 0	14. 10	·1076					
16. 12	38. 20	14. 25	·1070					
16. 45	40. 30	16. 0	·1074					
17. 32	39. 50	16. 57	·1082					

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 e thmagnet 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. 18		Dec. 18						
h m	° ′ ″	h m		h m		h m	°	°
18. 10	21. 40. 45	18. 53	·1085					
19. 0	40. 45	19. 28	·1087					
19. 20	41. 10	19. 32	·1093					
19. 30	40. 30	20. 40	·1089					
21. 46	41. 0	21. 50	·1084					
22. 55	40. 40	23. 25	·1076					
23. 21	41. 40							
	(†)							
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 25	21. 42. 0	0. 20	·1076	0. 12	·01325	1. 40	49 ·0	48 ·5
1. 7	42. 35	7. 26	·1077	1. 0	·01368	3. 40	50 ·5	49 ·5
4. 20	39. 20	9. 0	·1073	2. 17	·01381	9. 40	49 ·3	48 ·3
7. 0	38. 30	9. 56	·1073	3. 13	·01358	21. 40	46 ·0	47 ·0
7. 37.	40. 0	10. 42	·1078	6. 22	·01187			
9. 30	39. 0	18. 57	·1086	7. 35	·01166			
	***	19. 36	·1091	8. 46	·01195			
14. 25	39. 50	20. 0	·1088	14. 54	·01484			
14. 40	39. 15	21. 0	·1090	16. 49	·01550			
15. 20	40. 10	23. 0	·1078	18. 18	·01598			
16. 0	39. 10	23. 59	·1080	20. 12	·01615			
17. 35	40. 5			21. 56	·01597			
19. 20	40. 0			23. 47	·01561			
21. 58	39. 20							
23. 10	41. 0							
23. 59	42. 0							
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 0	21. 42. 0	0. 0	·1080	0. 14	·01542	1. 40	49 ·0	48 ·3
1. 10	42. 20	0. 36	·1075	1. 37	·01498	3. 40	51 ·0	50 ·5
1. 35	43. 0	1. 40	·1076	3. 18	·01365	9. 40	51 ·8	51 ·0
2. 30	40. 45	2. 25	·1069	4. 32	·01214	23. 15	49 ·0	50 ·0
3. 15	40. 20	3. 13	·1066	5. 40	·01019			
3. 36	41. 0	3. 30	·1072	6. 36	·00920			
4. 37	40. 50	3. 49	·1067	7. 30	{·00840			
4. 54	41. 50	4. 20	·1073		{·00891			
5. 10	41. 50	4. 30	·1070	15. 47	·00858			
5. 40	40. 45	4. 56	·1077	21. 37	·00956			
7. 13	40. 20	5. 25	·1070	23. 32	·00998			
7. 33	39. 40	6. 16	·1072					
7. 58	40. 10	6. 32	·1069					
9. 25	38. 35	7. 15	·1072					
10. 10	39. 20	7. 33	·1068					
11. 3	39. 45	8. 14	·1074					
11. 31	39. 0	8. 55	·1070					
	***	9. 30	·1071					
15. 20	40. 10	10. 28	·1069					
16. 4	40. 30	11. 7	·1073					
16. 32	39. 20	11. 30	·1068					
17. 7	40. 30	11. 48	·1071					
17. 20	39. 55	11. 59	·1068					
20. 48	41. 0	12. 17	·1073					
21. 30	40. 50	12. 56	·1068					
23. 20	42. 30	16. 6	·1073					
23. 59	41. 40	16. 50	·1077					
		17. 30	·1077					
		19. 5	·1086					
		19. 42	·1085					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 20						
h m	° ′ ″	h m		h m		h m	°	°
		20. 0	·1089					
		20. 54	·1086					
		21. 40	·1088					
		23. 59	·1079					
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
0. 0	21. 41. 40	0. 0	·1079	0. 0	·00998	7. 28	49 ·2	49 ·4
1. 4	41. 0	1. 19	·1078	3. 28	·01038	12. 40	49 ·0	49 ·0
2. 10	44. 0	1. 30	·1082	4. 48	·01039	13. 40	48 ·9	49 ·0
2. 32	43. 20	1. 48	·1073	7. 17	·01075	14. 40	49 ·0	49 ·0
2. 45	43. 50	2. 3	·1078	15. 20	·01156	15. 40	49 ·5	49 ·3
3. 4	42. 0	3. 25	·1071	16. 43	·01118	16. 40	50 ·1	49 ·7
3. 58	42. 55	4. 10	·1077	19. 8	·01055	17. 40	50 ·5	50 ·4
4. 26	42. 50	4. 35	·1070	21. 0	·00969	18. 40	51 ·0	50 ·6
4. 34	41. 0	5. 0	·1077	23. 59	·00868	19. 40	51 ·5	51 ·0
5. 30	40. 0	5. 40	·1080			20. 40	51 ·0	50 ·7
6. 41	40. 50	7. 0	·1077			21. 40	51 ·5	50 ·2
7. 12	38. 50	8. 42	·1078			22. 40	51 ·8	50 ·5
7. 35	40. 0	8. 54	·1080			23. 40	51 ·9	50 ·4
8. 0	38. 30	9. 5	·1078					
8. 11	39. 50	9. 54	·1077					
8. 30	40. 0	10. 3	·1081					
8. 57	38. 50	10. 20	·1076					
9. 7	40. 0	11. 0	·1079					
10. 2	39. 50	12. 45	·1074					
10. 11	40. 0	14. 30	·1065					
10. 26	39. 0	16. 30	·1067					
10. 31	39. 50	18. 56	·1065					
13. 20	39. 55	20. 0	·1070					
13. 57	39. 50	22. 13	·1064					
14. 45	38. 45		(†)					
16. 10	40. 0							
16. 43	39. 0							
17. 39	39. 50							
18. 30	38. 50							
19. 25	39. 45							
22. 15	40. 0							
	(†)							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
	(†)	1. 0	·1057	1. 9	·00860	0. 40	52 ·2	50 ·8
1. 9	21. 41. 35	5. 30	·1061	1. 44	{·00849	1. 40	53 ·0	51 ·2
7. 0	38. 45	7. 20	·1057		{·00891	2. 40	53 ·5	51 ·7
13. 25	37. 50	8. 30	·1060	3. 10	·00909	3. 40	54 ·0	51 ·5
13. 30	38. 15	12. 0	·1056	3. 50	·00958	4. 40	54 ·4	52 ·1
15. 41	40. 0	15. 10	·1061	4. 22	·00941	5. 40	54 ·4	52 ·4
16. 32	39. 45	18. 0	·1069	4. 46	·00988	6. 40	54 ·7	52 ·5
16. 42	39. 0	21. 45	·1071	5. 39	·00988	7. 40	55 ·0	52 ·7
20. 10	39. 55	23. 59	·1066	9. 12	·01138	8. 40	55 ·2	52 ·8
21. 55	40. 25			12. 37	·01258	9. 40	55 ·0	53 ·0
22. 23	39. 55			13. 50	·01268	10. 40	55 ·3	53 ·0
23. 59	41. 40			17. 10	·01272	11. 40	55 ·3	53 ·0
				19. 54	·01357	21. 40	50 ·7	50 ·7
				21. 12	·01417			
				23. 48	·01601			
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 0	21. 41. 40	0. 0	·1066	1. 45	·01700	1. 40	50 ·0	49 ·3
0. 58	43. 0	0. 42	·1072	2. 30	·01721	3. 40	51 ·0	50 ·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.
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
h m	° ′ ″	h m		h m		h m	°	°
2. 26	21. 41. 55	1. 48	·1071	4. 35	·01710	9. 40	48 ·0	49 ·0
3. 13:	39. 50	3. 15	·1068	5. 55	·01681	21. 40	42 ·7	43 ·5
5. 58	39. 45	4. 39	·1069	7. 13	·01679			
7. 0	40. 0	4. 47	·1074	8. 40	·01722			
7. 53	41. 50	6. 26	·1078	9. 18	·01776			
8. 15	41. 20	6. 38	·1081	10. 22	·01740			
8. 31	30. 0	6. 54	·1078	14. 0	·01663			
8. 46	26. 0	7. 40	·1082	19. 18	·01616			
9. 15	37. 20	7. 58	·1075	23. 48	·01623			
9. 27	40. 0	8. 10	·1077					
9. 49	41. 40	8. 32	·1073					
10. 5	41. 10	8. 50	·1079					
10. 20	39. 50	9. 6	·1078					
10. 45	40. 20	9. 27	·1064					
11. 5	40. 15	9. 40	·1063					
11. 24	39. 10	9. 49	·1071					
11. 54	39. 50	10. 25	·1067					
12. 40	38. 55	11. 0	·1077					
13. 30	41. 10	11. 16	·1075					
13. 36	38. 0	11. 32	·1077					
14. 0	35. 45	11. 43	·1073					
14. 38	39. 15	12. 2	·1077					
15. 28	38. 0	12. 28	·1077					
16. 3	38. 55	12. 40	·1085					
16. 35	39. 0	13. 0	·1078					
17. 4	38. 35	13. 48	·1089					
17. 15	39. 0	14. 56	·1081					
17. 28	38. 55	15. 2	·1083					
17. 40	41. 50	15. 16	·1081					
17. 58	41. 45	15. 35	·1085					
18. 5	40. 50	15. 55	·1083					
18. 42	41. 50	17. 6	·1094					
19. 40	40. 0	18. 0	·1087					
19. 46	41. 0		***					
20. 5	39. 55	20. 45	·1095					
20. 40	40. 55		***					
21. 20	40. 0	23. 59	·1081					
21. 44	40. 50							
21. 57	40. 0							
22. 7	40. 0							
22. 14	40. 50							
22. 30	39. 55							
22. 35	40. 50							
22. 52	40. 15							
22. 56	41. 25							
23. 8	39. 50							
23. 57	41. 0							
23. 59	40. 55							
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
0. 0	21. 40. 55	0. 0	·1081	0. 0	·01625	1. 40	44 ·5	44 ·5
0. 7	40. 0	0. 26	·1080	2. 16	·01601	3. 40	47 ·0	46 ·5
0. 32	40. 45	0. 38	·1081	3. 9	·01548	9. 40	48 ·5	47 ·5
1. 0	43. 45	2. 11	·1068	4. 26	·01384	23. 16	40 ·0	41 ·8
	***	2. 34	·1066	6. 22	·01086			
2. 43	42. 0	2. 45	·1070	7. 15	·00984			
3. 0	43. 0	3. 25	·1059	8. 20	·00898			
3. 10	41. 40	4. 2	·1061	10. 5	·00819			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 24		Dec. 24		Dec. 24				
h m	° ′ ″	h m		h m		h m	°	°
3. 39	21. 41. 10	4. 17	·1058	14. 28	·00836			
3. 54	42. 0	4. 30	·1066	16. 6	·00928			
4. 12	41. 45	4. 44	·1061	17. 22	·01040			
4. 50	39. 50	4. 56	·1066	22. 48	·01563			
4. 58	40. 20	5. 10	·1062		(†)			
5. 10	40. 0	5. 32	·1064					
5. 30	40. 0	5. 56	·1070					
5. 40	38. 0	6. 11	·1068					
5. 45	38. 0	6. 18	·1072					
6. 0	36. 0	6. 36	·1073					
6. 15	35. 0	6. 46	·1071					
6. 40	39. 40	7. 15	·1073					
8. 20	38. 40	7. 58	·1071					
8. 44	35. 50	8. 33	·1067					
8. 58	36. 0	9. 5	·1072					
9. 15	38. 15	9. 38	·1076					
9. 30	38. 45	9. 50	·1082					
9. 39	32. 20	10. 40	·1076					
10. 8	37. 5	13. 14	·1083					
12. 0	39. 45	13. 30	·1091					
13. 13	40. 40	13. 49	·1086					
13. 27	42. 50	14. 55	·1082					
13. 35	42. 0		***					
13. 58	40. 30	16. 58	·1088					
14. 8	40. 35	17. 45	·1085					
14. 32	39. 45	18. 18	·1083					
14. 54	40. 0	18. 33	·1083					
15. 27	38. 40	19. 16	·1089					
15. 58	40. 50	19. 25	·1084					
16. 27	39. 50	19. 50	·1093					
16. 32	40. 20	20. 15	·1088					
17. 10	39. 50	23. 59	·1085					
17. 30	40. 50							
18. 26	41. 0							
18. 53	42. 5							
19. 15	41. 50							
19. 30	42. 35							
19. 41	41. 15							
20. 3	41. 50							
20. 30	40. 45							
21. 5	41. 0							
21. 54	40. 30							
22. 0	40. 0							
	(†)							
23. 29	41. 0							
23. 35	41. 40							
23. 47	42. 20							
23. 59	42. 5							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	21. 42. 5	0. 0	·1085	0. 0	·01493	10. 3	37 ·2	39 ·0
0. 15	43. 30	0. 46	·1086	1. 13	·01480	21. 40	36 ·2	38 ·1
0. 55	43. 5	1. 11	·1089	2. 16	·01497			
1. 20	45. 25	1. 26	·1085	2. 18	·01481			
2. 3	45. 0	2. 9	·1082	3. 1	·01463			
2. 34	42. 0	2. 33	·1088	3. 26	·01450			
2. 45	42. 25	2. 57	·1088	4. 40	·01456			
3. 2	42. 0	3. 39	·1080	9. 48	·01397			
3. 27	42. 55	4. 40	·1089	11. 17	·01383			

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. 25		Dec. 25		Dec. 25				
h m	° ′ ″	h m		h m		h m	°	°
4. 3	21. 40. 20	5. 55	·1087	13. 30	·01498			
4. 57	42. 10	7. 10	·1091	15. 36	·01521			
5. 10	41. 30	7. 54	·1091	17. 10	·01530			
5. 25	42. 0	8. 16	·1094	18. 52	·01506			
5. 45	41. 35	8. 29	·1102	22. 12	·01494			
5. 50	41. 50	8. 35	·1102	23. 59	·01506			
6. 12	40. 40	9. 0	·1093					
6. 42	40. 45	10. 30	·1087					
7. 0	40. 0	11. 0	·1093					
7. 11	40. 20	11. 28	·1091					
7. 30	39. 0	11. 34	·1100					
7. 57	39. 25	12. 15	·1098					
8. 7	38. 0	12. 29	·1093					
8. 25	34. 30	13. 10	·1096					
8. 33	34. 15	13. 40	·1092					
8. 58	39. 15	14. 18	·1095					
9. 14	39. 10	15. 15	·1094					
9. 37	40. 20	15. 50	·1096					
10. 30	39. 40	16. 44	·1092					
10. 59	40. 0	17. 7	·1096					
11. 15	39. 5	19. 34	·1101					
11. 58	40. 30	20. 25	·1096					
12. 14	34. 15	21. 6	·1093					
12. 40	41. 50		(†)					
13. 43	40. 5							
14. 0	40. 40							
14. 15	40. 10							
15. 28	41. 0							
15. 50	40. 50							
16. 29	43. 15							
16. 45	41. 40							
17. 0	42. 5							
17. 30	40. 40							
19. 55	40. 35							
20. 20	41. 10							
21. 10	41. 0							
	(†)							
21. 40	41. 50*							
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
0. 3	21. 43. 40	0. 0	·1084	0. 8	·01346	1. 40	38 ·0	39 ·5
1. 5	44. 0	0. 56	·1089	2. 10	·01277	3. 40	40 ·0	41 ·3
1. 27	43. 0	1. 24	·1074	3. 38	·01181	9. 40	42 ·0	43 ·0
1. 52	44. 45	2. 56	·1080	4. 50	·01078	21. 40	38 ·5	41 ·1
2. 57	40. 40	3. 57	·1078	7. 30	·00780			
5. 30	39. 40	4. 40	·1076	9. 6	·00659			
7. 0	40. 30	7. 0	·1081	10. 52	·00581			
9. 27	39. 35	7. 35	·1081	15. 12	·00608			
12. 30	40. 40	8. 5	·1082	20. 58	·00736			
13. 40	40. 50	12. 35	·1085	22. 56	·00818			
13. 58	41. 30	12. 45	·1087	23. 51	·00830			
14. 40	40. 20	13. 9	·1085					
18. 40:	41. 0	13. 23	·1089					
21. 4	40. 40	13. 40	·1085					
23. 59	41. 40	14. 27	·1090					
		17. 10:	·1092					
		20. 40	·1090					
		23. 59	·1077					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar 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. 27		Dec. 27		Dec. 27		Dec. 27		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 41. 40	0. 0	·1077	0. 0	·00819	1. 40	40 ·0	41 ·0
0. 24	43. 0	2. 50	·1081	1. 0	·00834	3. 40	41 ·0	41 ·5
1. 54	42. 0	3. 5	·1079	2. 20	·00827	9. 40	39 ·9	41 ·2
2. 36	40. 40	3. 57	·1082	3. 43	·00777	23. 25	32 ·0	34 ·0
7. 24	39. 35	4. 35	·1080	6. 45	·00616			
10. 55	40. 0	6. 48	·1087	7. 59	·00580			
14. 16	41. 10	7. 2	·1086	9. 38	·00616			
16. 7:	41. 40	7. 16	·1088	10. 55	·00670			
18. 24	41. 0	7. 40	·1087	14. 30	·00906			
20. 20	40. 35	7. 50	·1090	20. 20	·01443			
21. 5	40. 30	8. 27	·1086	23. 12	·01440			
21. 13	41. 0	9. 38	·1090		·01316			
21. 28	40. 40	10. 0	·1088	23. 54	·01358			
22. 42	42. 0	11. 45	·1095					
23. 10	41. 50	11. 50	·1094					
23. 54	42. 50	14. 8	·1100					
		15. 5	·1095					
		15. 30	·1098					
		18. 40	·1104					
		21. 5	·1103					
		21. 18	·1104					
		21. 30	·1101					
		22. 32	·1101					
		23. 0	·1103					
		23. 59	·1100					
Dec. 28		Dec. 28		Dec. 28		Dec. 28		
0. 1	21. 42. 45	0. 0	·1101	0. 45	·01361	8. 55	31 ·8	34 ·0
1. 3	43. 10	1. 24	·1108	2. 6	·01384	12. 40	33 ·3	34 ·8
1. 40	42. 35	2. 0	·1104	4. 21	·01390	13. 40	33 ·4	34 ·8
2. 9	41. 50	2. 45	·1103	8. 30	·01384	14. 40	33 ·6	35 ·0
3. 24	41. 25	3. 40	·1091	14. 10	·01249	15. 40	33 ·0	34 ·7
3. 41	44. 5	4. 25	·1092	14. 40	·01184	16. 40	33 ·0	35 ·0
4. 28	42. 0	4. 34	·1097	15. 58	·01198	17. 40	33 ·2	35 ·2
4. 38	43. 15	5. 14	·1099	17. 24	·01190	18. 40	33 ·3	35 ·5
5. 0	42. 0	6. 4	·1092	20. 10	·01112	19. 40	33 ·5	36 ·0
6. 5	42. 0	6. 22	·1087	21. 26	·01098	20. 40	34 ·2	36 ·1
6. 30	39. 25	6. 44	·1090	22. 44	·01010	21. 40	34 ·1	36 ·3
7. 1	42. 45	7. 3	·1083	23. 59	·00898	22. 40	36 ·2	36 ·4
7. 20	39. 30	7. 27	·1087			23. 40	38 ·0	37 ·2
7. 32	40. 0	7. 45	·1083					
7. 50	37. 0	8. 10	·1085					
8. 6	35. 40	8. 27	·1083					
8. 30	38. 30	8. 40	·1084					
8. 53	37. 50	9. 28	·1077					
9. 2	35. 50	10. 4	·1077					
9. 30	35. 0	10. 14	·1081					
9. 54	37. 45	10. 32	·1081					
10. 6	37. 5	10. 43	·1080					
10. 27	37. 40	11. 10	·1080					
10. 35	38. 40	11. 35	·1091					
10. 54	38. 5	12. 16	·1087					
11. 22	31. 35	12. 43	·1089					
11. 33	36. 0	13. 10	·1087					
12. 0	39. 0	13. 38	·1091					
13. 20	42. 0	13. 50	·1102					
13. 37	52. 0	14. 14	·1109					
14. 1	41. 0	14. 32	·1095					

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. 28		Dec. 28						
h m	° ′ ″	h m		h m		h m	°	°
14. 27	21. 40. 5	14. 48	·1093					
15. 40	42. 50	14. 57	·1095					
16. 2	41. 50	15. 15	·1095					
16. 32	43. 30	16. 32	·1102					
16. 45	42. 30	16. 35	·1098					
17. 0	44. 0	17. 12	·1109					
17. 29	44. 5	17. 29	·1103					
17. 54	46. 45	17. 48	·1112					
18. 15	46. 10	18. 6	·1106					
18. 27	47. 25	18. 55	·1105					
18. 55	48. 30	19. 5	·1111					
19. 15	46. 0	19. 27	·1104					
19. 35	46. 50	19. 33	·1092					
20. 44	45. 0	19. 47	·1102					
21. 10	44. 15	20. 30	·1086					
21. 30	46. 0	21. 40	·1079					
22. 31	46. 45	22. 26	·1080					
		22. 35	·1078					
				Dec. 29		Dec. 29		
					(†)	0. 40	39 ·0	38 ·8
				1. 31	·00717	1. 40	41 ·7	39 ·0
				2. 6	·00670	2. 40	43 ·5	39 ·8
				3. 13	·00738	3. 40	44 ·0	41 ·5
				4. 48	·00797	4. 40	45 ·5	42 ·6
				6. 40	·00822	5. 40	46 ·0	43 ·0
				7. 12	·00858	6. 40	44 ·8	42 ·2
				7. 42	·00823	7. 40	45 ·0	42 ·5
				11. 33	·00842	8. 40	45 ·4	43 ·0
				12. 5	·00839	9. 40	45 ·5	44 ·0
				12. 52	·00847	10. 40	46 ·0	44 ·3
				15. 0	·00815	11. 40	46 ·0	44 ·5
				15. 40	·00776	21. 40	42 ·7	44 ·0
				16. 24	·00785			
				18. 41	·00820			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		Dec. 29		h m	°	°
				h m				
				19. 14	·00856			
				19. 45	·00823			
				22. 50	·00879			
				23. 59	·00880			
				Dec. 30		Dec. 30		
				0. 24	·00860	1. 40	47 ·5	46 ·0
				1. 28	·00818	3. 40	49 ·5	48 ·0
					·00877	9. 40	49 ·2	49 ·0
				4. 55	·00940	21. 40	47 ·0	48 ·0
				7. 29	·00977			
				7. 39	·01043			
				8. 54	·00996			
				11. 29	·00912			
					·00938			
				15. 0	·00919			
				21. 22	·00986			
				23. 54	·01005			
				Dec. 31		Dec. 31		
					(†)	1. 40	50 ·0	49 ·0
				1. 28	·01088	3. 40	51 ·1	50 ·8
				5. 37	·01098	9. 40	..	51 ·5
				5. 43	·01221	21. 40	50 ·0	52 ·0
				6. 39	·01195			
				7. 28	·01227			
				10. 0	·01275			
				11. 5	·01296			
				14. 8	·01403			
				15. 47	·01430			
				16. 58	·01438			
				19. 50	·01433			
				21. 32	·01476			
				23. 4	·01445			
				23. 50	·01564			

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.

December 29. The annual examination of the adjustments of the Declination and Horizontal Force Magnets was commenced.

ROYAL OBSERVATORY, GREENWICH.

NOTE

ON THE

OBSERVATIONS

OF THE

MAGNETIC DIP.

1856.

During the year 1856, Observations of the Magnetic Dip were taken weekly, usually with the needle A_1, as in several years past.

In the Spring of the year 1857, upon a careful examination of the needles and their mounting, defects were discovered which tended to throw great doubt on the accuracy of the results for Dip through several years. In the first place, it was found that, upon raising the pivots from their agate bearings, the upper end of the needle came in contact with the interior of the graduated circle, and there seemed to be evidence that it had sometimes struck with considerable force. The effect of this would be to create and to increase unsteadiness in the connexion of the axis with the needle, and in all cases so to disturb the relative position that the apparent Dip would be increased. In the second place, the different parts of the apparatus interfered with each other in such a way that it was difficult to clean the agates properly; and this would introduce irregularities.

Under all circumstances, it appeared best to suppress the observations of Dip for the year 1856.

It is to be feared that the results given by the observations of some years past are too great by several minutes.

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1856.

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, 1856.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibration of Deflecting Magnet.	Number of Vibrations.	Temperature.	Observer.
		ft. in.	°	° ′ ″	s		°	
January 23	Lateral	1. 0	51·2	9. 22. 22·88	5 777	100	52·2	J C
	Axial.....			4. 57. 52·26				
	Lateral	1. 6		2. 46. 15·27				
	Axial.....			1. 25. 44·11	5·780	100		
February 15	Lateral	1. 0	49·9	9. 13. 3·66			51·8	J C
	Axial.....			4. 59. 9·49				
	Lateral	1. 6		2. 45. 29·27				
	Axial.....			1. 24. 46·60				
March 31	Lateral	1. 0	55·7	9. 22. 16·71	5·728	100	59·1	H C
	Axial.....			5. 0. 38·94				
	Lateral	1. 6		2. 49. 57·28				
	Axial.....			1. 22. 43·23	5·741	100		
May 20	Lateral	1. 0	65·4	9. 7. 21·25	5·710	100	68·5	H C
	Axial.....			5. 0. 18·32				
	Lateral	1. 6		2. 42. 29·27				
	Axial.....			1. 25. 31·38	5·724	100		
June 9	Lateral	1. 0	68·0	9. 7. 54·19	5·762	100	70·2	H C
	Axial.....			4. 59. 58·46				
	Lateral	1. 6		2. 39. 41·10				
	Axial.....			1. 24. 26·87	5·785	96		
July 1	Lateral	1. 0	63·0	9. 12. 57·40	5·765	100	67·0	H C
	Axial.....			4. 57. 48·32				
	Lateral	1. 6		2. 37. 9·06				
	Axial.....			1. 19. 27·26	5·741	100		
August 16	Lateral	1. 0	73·8	9. 7. 26·49	5·765	100	77·8	H C
	Axial.....			5. 5. 28·82				
	Lateral	1. 6		2. 38. 50·03				
	Axial.....			1. 17. 20·69	5·782	100		
Sept. 12	Lateral	1. 0	69·3	9. 17. 40·95	5·762	100	71·0	H C
	Axial.....			4. 52. 35·12				
	Lateral	1. 6		2. 39. 37·38				
	Axial.....			1. 23. 31·84	5·771	100		
October 14	Lateral	1. 0	58·1	9. 15. 18·64	5·704	100	59·4	H C
	Axial.....			4. 44. 2·49				
	Lateral	1. 6		2. 38. 24·53				
	Axial.....			1. 22. 46·07	5·745	100		
November 7	Lateral	1. 0	47·8	9. 12. 28·66	5·770	100	48·8	H C
	Axial.....			4. 52. 16·10				
	Lateral	1. 6		2. 38. 18·88				
	Axial.....			1. 25. 13·72	5·772	100		
December 11	Lateral	1. 0	49·9	8. 48. 59·40	5·724	100	50·4	H C
	Axial.....			4. 52. 42·87				
	Lateral	1. 6		2. 37. 31·34				
	Axial.....			1. 18. 44·48	5·788	100		

February 15. The determination of the time of vibration was inadvertently omitted. The time used in the calculation is 5ˢ·757.
The initials J C and H C are those of Mr. James Carpenter and Mr. Henry Criswick, supernumerary assistants attached to this department.

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1856.	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 Value of b $-0{\cdot}00100$ 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.
January 23	+0·16339	−0·00053		0·08225	0·00429	+0·16292	8·91328	5·774	0·06559	3·768	0·309
February 15	+0·16417	−0·00398		0·08027	0·00664	+0·16069	8·90731	5·757	0·06815	3·806	0·307
March 31	+0·16995	−0·00712		0·07629	0·01105	+0·16375	8·91546	5·735	0·07147	3·784	0·311
May 20	+0·16019	−0·00164		0·08133	0·00591	+0·15876	8·90209	5·717	0·07420	3·855	0·308
June 9	+0·15513	+0·00357		0·07949	0·00766	+0·15824	8·90068	5·774	0·06559	3·823	0·304
July 1	+0·14949	+0·01067	+0·00274	0·07118	0·01534	+0·15968	8·90222	5·753	0·06875	3·830	0·306
August 16	+0·15373	+0·00484		0·06567	0·02307	+0·15796	8·89991	5·774	0·06558	3·827	0·304
September 12	+0·15277	+0·00874		0·07958	0·00543	+0·16039	8·90652	5·767	0·06664	3·802	0·307
October 14	+0·15117	+0·00966		0·08022	0·00231	+0·15960	8·90437	5·725	0·07299	3·840	0·308
November 7	+0·15166	+0·00836		0·08266	0·00226	+0·15896	8·90264	5·771	0·06604	3·817	0·305
December 11	+0·15565	−0·00238		0·07118	0·01386	+0·15358	8·88776	5·756	0·06830	3·893	0·301

The value of b employed in the reductions, namely, $-0{\cdot}00100$, is found from the observations taken between 1855, January, and 1857, May.

VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE, from OBSERVATIONS of VIBRATION of the DEFLECTING MAGNET $\frac{D}{XX}$, unaccompanied by DEFLEXION.

Month and Day, 1856.	Adopted Time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.	Observer.
		°				
March 25	5·740	41·7	0·07072	0·311	3·784	H C
April 11	5·772	56·2	0·06589	0·310	3·754	H C
18	5·666	57·5	0·08199	0·310	3·896	N
18	5·717	57·6	0·07420	0·310	3·827	H C
21	5·738	57·0	0·07102	0·310	3·799	N
22	5·756	56·6	0·06830	0·310	3·775	H
30	5·760	47·0	0·06770	0·309	3·782	N
May 2	5·780	46·4	0·06468	0·309	3·756	N
23	5·720	61·5	0·07375	0·308	3·848	H C
June 9	5·760	64·0	0·06769	0·304	3·844	H C
30	5·817(?)	74·0	0·05914	0·306	3·745	N
July 2	5·740	59·7	0·07072	0·306	3·846	N
4	5·751	68·0	0·06905	0·306	3·831	N
9	5·750	61·7	0·06920	0·306	3·833	N
15	5·754	69·0	0·06860	0·306	3·827	N
25	5·755	70·0	0·06845	0·305	3·838	N
29	5·744	75·5	0·07011	0·305	3·853	N
August 13	5·761	80·0	0·06754	0·304	3·843	N
28	5·775	65·0	0·06544	0·305	3·812	N
October 1	5·775	64·0	0·06544	0·307	3·787	N
November 4	5·761	43·5	0·06754	0·306	3·818	N
8	5·758	45·0	0·06800	0·305	3·834	N

The number of vibrations employed in each determination was 100.

The initials H and N are those of Mr. Edward John Hallam and Mr. William Carpenter Nash, supernumerary assistants attached to this department.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1856.

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 fewer observations have 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 *Results of Meteorological Observations*, 1851, Introduction, page (xcvi); 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, from the year 1840 to the end of the year 1854).

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

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 minimum temperature on the grass was out of order from January 9 to January 12; from January 28 to January 31; February 10, 11, 12; March 20; April 7; May 21; July 4, 6; and from August 29 to September 5.

The thermometer for the maximum temperature in the sun was out of order on May 1 ; and from November 2 to November 6.

The thermometer for the minimum temperature of the water of the Thames was out of order from September 13 to September 27.

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. It may be understood generally that the greatest pressure occurred in gusts of short duration.

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

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

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

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

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

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

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

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

The foot notes show the means and extremes of readings, and their departure in each month from average values, as found from the preceding Sixteen Years Observations ; those relating to Humidity have been calculated from the Second Edition of Glaisher's Hygrometrical Tables.

MONTH and DAY, 1856.	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.	Greatest.	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.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	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.
Jan. 1	..	29·745	42·3	33·0	39·1	38·8	43·5	27·3	42·4	40·5	0·3	2·2	0·0	+ 2·6	SSE	S	0·0	0·0	0·0	25	0·00
2	..	29·486	47·0	37·8	42·7	39·6	56·5	31·0	42·4	40·7	3·1	4·8	0·5	+ 6·4	SE	SE	0·0	0·0	0·0	15	0·00
3	..	29·476	48·0	39·1	43·4	41·7	50·0	37·0	42·1	40·7	1·7	4·6	0·2	+ 7·4	S	S	0·0	0·0	0·0	20	0·03
4	..	29·550	45·1	41·3	42·7	39·8	48·5	35·1	42·4	40·7	2·9	3·4	1·7	+ 7·0	SW; S	S	0·0	0·0	0·0	85	0·03
5	..	29·376	48·0	40·8	44·4	43·2	49·0	39·0	42·9	40·7	1·2	3·7	0·9	+ 8·9	S; SE	S	0·0	0·0	0·0	60	0·03
6	..	29·133	47·0	41·5	43·3	42·5	49·0	37·0	43·1	40·7	0·8	1·5	0·0	+ 8·0	SE	E; S	0·0	0·0	0·0	60	0·06
7	Greatest Dec. S. New.	28·901	47·0	37·9	41·9	40·4	58·0	33·0	43·9	41·2	1·3	5·3	0·2	+ 6·8	S	E	0·0	0·0	0·0	50	0·03
8	..	28·964	42·0	36·7	39·1	36·5	44·0	33·0	44·1	41·2	2·6	5·1	2·1	+ 4·2	NE	NE	0·0	0·0	0·0	30	0·00
9	..	29·070	39·1	32·5	34·2	34·2	40·0	..	44·1	40·9	0·0	1·3	0·0	— 0·8	E	NE	0·0	0·0	0·0	105	0·80
10	Perigee	29·332	38·8	31·0	34·2	28·6	41·0	..	43·9	40·9	5·6	7·8	2·9	— 0·9	NE	NE	2·5	0·0	0·0	125	0·00
11	..	29·793	32·8	27·9	30·7	29·6	34·5	..	42·9	39·7	1·1	2·1	0·0	— 4·5	NE	NE	0·0	0·0	0·0	95	0·00
12	..	30·307	35·8	28·3	31·7	28·7	43·5	..	41·9	38·2	3·0	5·5	0·7	— 3·6	NE	NE	0·0	0·0	0·0	70	0·00
13	In Equator	30·509	38·0	25·9	31·4	29·1	46·5	15·5	39·0	37·5	2·3	3·8	1·3	— 4·1	NE	Calm	0·0	0·0	0·0	30	0·00
14	First Qr.	30·074	36·0	24·5	29·8	22·2	43·0	15·0	38·0	37·0	7·6	10·8	3·8	— 5·9	E	Calm	1·5	0·0	0·0	50	0·00
15	..	29·829	40·7	24·3	33·2	28·4	48·0	15·5	37·5	35·6	4·8	10·6	2·3	— 2·6	Calm	Calm	0·0	0·0	0·0	145	0·00
16	..	29·813	43·0	35·5	39·4	39·3	46·0	28·0	36·5	35·6	0·1	1·3	0·0	+ 3·4	Calm	Calm; S	0·0	0·0	0·0	120	0·06
17	..	29·435	46·7	38·1	43·3	42·2	45·0	32·0	37·0	35·6	1·1	3·5	0·2	+ 7·1	S; SW	SW	3·3	0·0	0·5	225	0·01
18	..	29·360	50·0	43·1	47·4	45·7	52·0	41·5	38·5	37·0	1·7	2·6	0·2	+11·0	SW	SW	3·5	0·0	0·2	105	0·03
19	Greatest Declination N.	29·102	50·0	43·1	46 2	44·0	51·0	39·0	40·5	39·0	2·2	3·6	0·4	+ 9·7	S	S	0·0	0·0	0·0	155	0·05
20	..	28·978	49·0	42·6	45·9	44·8	50·0	39·6	42·5	40·3	1·1	2·5	0·7	+ 9·2	S	S	0·0	0·0	0·0	55	0·16
21	..	28·944	50·9	42·5	47·2	46·1	53·0	36·0	43·1	41·2	1·1	3·2	0·0	+10·4	Calm	SW	0·0	0·0	0·0	80	0·32
22	Full	29·273	40·0	36·8	37·9	34·5	48·0	37·0	43·7	41·6	3·4	3·9	1·2	+ 1·8	NNE	N; E	0·0	0·0	0·0	90	0·20
23	..	29·221	52·7	36·5	46·2	41·9	61·0	36·0	44·5	43·0	4·3	9·0	0·0	+ 9·3	SE; SW	SW; S	3·0	0·0	0·3	310	0·00
24	..	28·849	54·0	42·3	47·3	42·0	59·0	40·0	45·0	43·7	5·3	9·9	1·4	+10·3	SSW	SW	15·0	0·0	2·0	360	0·06
25	..	29·084	48·7	39·5	43·3	36·0	62·0	36·0	45·5	43·7	7·3	13·7	4·1	+ 6·2	SW	SW	4·0	0·0	0·5	160	0·10
26	Apogee	29·351	49·5	39·1	43·8	40·4	52·0	30·0	44·9	43·7	3·4	7·1	1·5	+ 6·6	SW	SW	0·0	0·0	0·0	80	0·23
27	In Equator	29·630	44·2	36·9	40·5	35·2	52·0	31·5	44·0	43·0	5·3	7·3	3·6	+ 3·2	NW	SW	0·0	0·0	0·0	70	0·00
28	..	29·545	41·8	29·7	35·1	32·5	54·0	..	42·5	41·2	2·6	5·8	1·2	— 2·2	SW	SW	3·0	0·0	0·1	115	0·15
29	..	29·595	35·4	28·7	31·2	26·8	46·5	..	41·5	39·9	4·4	6·2	3·4	— 6·2	SW	NW; SW	0·0	0·0	0·0	25	0·01
30	Last Qr.	29·758	36·5	25·8	31·3	27·2	42·0	..	39·5	38·4	4·1	5·9	1·3	— 6·2	NW; SW	NW; SW	0·0	0·0	0·0	45	0·00
31	..	30·035	36·7	27·9	32·1	28·1	41·0	..	38·0	36·6	4·0	5·9	0·8	— 5·5	SW	NW; W	0·0	0·0	0·0	55	0·00
Means	..	29·468	43·8	35·2	39·3	36·4	48·7	32·4	41·9	40·0	2·9	5·3	1·2	+ 3·1			..	..	..	Sum 3015	Sum 2·36

BAROMETER READINGS.

The first maximum in the month was 29in·817 on the 1st; the first minimum in the month was 28in·854 on the 7th.
The absolute maximum ,, was 30in·550 ,, 13th; the second minimum ,, was 28in·937 ,, 20th.
The third maximum ,, was 29in·329 ,, 22nd; the absolute minimum ,, was 28in·830 ,, 24th
The fourth maximum ,, was 30in·083 ,, 31st.
The range in the month was 1in·720.
The mean for the month was 29in·468, being 0in·261 *less* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 54°·0 on the 24th; the lowest was 24°·3 on the 15th; and the range in the month was 29°·7.
The mean ,, of all the highest daily readings was 43°·8, being 0°·8 *higher* than the average of the preceding 16 years.
The mean ,, of all the lowest daily readings was 35°·2, being 1°·5 *higher* than the average of the preceding 16 years.
The mean daily range was 8°·6, being 0°·8 *less* than the average of the preceding 16 years.
The mean for the month was 39°·3, being 1°·3 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
Jan. 1	s	s	10		8	: 10,
2	s	s	7, li.-cl	: o	10, ci.-s, r	
3	w	s, sps : w	10, ci.-cu, ci.-s	: 8	10, r	: oc.-r
4	m	m	7		10	: r
5	o	w : o	10, m.-r		10, m.-r	
6	w	w	10, r		10, r	
7	m	m : s	10, r		7, ci.-cu, li.-cl	: 10
8	o	w : o	10		7	: 10
9	s, sps, g cur	N, s : w	10, sn, sl, r		v, sn, r	: 10, r
10	w	w	10		10, ci.-cu, ci, ci.-s	
11	s, sps	s	10		10	: v
12	w	s	10	: sl	v, li.-cl.	
13	s	s	7, ci, li.-cl.	: o	o	: f
14	w	w : s, sps	o		o	: 3, lu.-ha
15	s	s	10, ci.-s	: th.-r	o	
16	s, sps, g cur	s, sps, g cur	10	: m.-r	10	: lu.-ha
17	v	v	10		7	: 10, m.-r
18	v	v	10, m.-r		10, m.-r	: ci· cu, ci.-s, s
19	w	s : w	10, m.-r		7, m.-r	: ci.-s. sc, lu.-cor, r
20	o	o	10		v	
21	o	o	10, m.-r		10, m.-r	
22	o	o	10, r	: 9	10	
23	o	o	10	: ci	5, ci.-cu, ci.-s	: 10, lu.-cor
24	o	o : s	v, r, st.-w		7	: l, th, h.-r, lu.-cor
25	o	o	o		o	
26	v	v	o		10, r	: oc.-r
27	s	o	10		10	: o, f
28	v	s N, sps, g cur	7, ci.-s, h.-fr	: 3, cu, ci.-s	7, h,-sh.-r	: v, h.-sqs, r, sn
29	v	v : o	10, f		o	: 10
30	s	s	10, th.-f		10	: f
31	s	s : s, sps	10, f, h.-f		10	: 7, f

HUMIDITY OF THE AIR:

Temperature of the Dew Point.

The highest in the month was 49°·1 on the 24th; and the lowest was 16°·8 on the 14th.
The mean ,, was 36°·4, being 0°·9 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·215$, being $0^{in}·010$ *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr}·5$, being $0^{gr}·1$ *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 90 (that of Saturation being represented by 100), being 1 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 547 grains, being 6 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 7·6.

WIND.

The proportions were N. 5, S. 14, W. 7, and E. 5. The greatest pressure in the month was 15^{lbs} on the square foot on the 24th.

RAIN.

Fell on 18 days in the month, amounting to $2^{in}·3$ as measured in the simple cylinder gauge, partly sunk below the ground, being $0^{in}·3$ *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Feb. 1	..	30·003	36·0	27·5	32·6	27·5	40·4	25·0	36·8	36·5	5·1	8·1	4·2	— 5·1	SW	W	0·0	0·0	0·0	30	0·00
2	..	29·867	35·2	30·5	32·c	28·7	39·0	22·0	36·5	36·1	3·3	5·1	2·2	— 5·8	NW	Calm	0·0	0·0	0·0	5	0·00
3	Greatest Declinaton S.	29·977	42·5	30·3	34·9	30·7	58·0	22·0	37·0	36·1	4·2	7·9	0·8	— 2·9	SE	Calm	0·0	0·0	0·0	30	0·00
4	..	29·870	42·8	28·9	35·8	34·2	49·0	19·5	37·3	36·6	1·6	5·3	0·6	— 2·1	Calm	SW	0·0	0·0	0·0	110	0·02
5	..	30·035	49·6	35·9	41·6	38·8	53·0	28·0	37·5	36·6	2·8	7·6	0·7	+ 3·6	Calm	SW; S	3·0	0·0	0·2	195	0·03
6	New	29·677	50·0	37·1	45·3	42·7	54·0	33·0	40·0	38·4	2·6	5·0	1·9	+ 7·2	S	S	10·0	0·0	2·6	360	0·00
7	Perigee	29·598	54·3	43·1	49·7	48·0	58·0	41·0	43·0	40·3	1·7	4·2	0·0	+11·5	SW	SW	6·0	0·0	1·3	280	0·00
8	..	29·901	53·0	47·5	50·2	47·9	57·0	41·0	45·5	41·2	2·3	4·6	1·0	+11·9	SW	SW	4·0	0·0	0·3	225	0·14
9	In Equator	29·825	58·0	44·7	50·3	43·2	63·0	39·0	45·5	42·5	7·1	13·8	2·9	+12·0	S	SW	2·0	0·0	0·1	200	0·00
10	..	29·841	52·4	46·5	49·4	47·1	54·0	..	46·5	43·3	2·3	4·1	1·7	+11·0	SW	S; SW	0·0	0·0	0·0	90	0·00
11	..	29·731	50·3	44·8	46·7	45·6	55·0	..	47·0	43·9	1·1	2·9	0·6	+ 8·2	S	S; SW	0·0	0·0	0·0	105	0·23
12	..	29·581	51·2	44·2	48·0	45·9	56·0	..	47·7	45·5	2·1	4·6	0·2	+ 9·4	S	SW	4·0	0·0	0·3	210	0·05
13	First Qr.	29·601	51·6	45·1	48·1	46·6	55·0	40·0	48·5	46·5	1·5	3·4	0·6	+ 9·4	S	S; SW	3·0	0·0	0·1	230	0·17
14	..	29·628	54·0	42·7	47·5	42·2	64·0	41·0	47·5	46·5	5·3	8·8	1·3	+ 8·7	SW	SW	7·0	0·0	0·3	200	0·10
15	..	29·649	53·2	41·5	46·3	42·5	67·0	39·5	47·3	46·5	3·8	7·6	1·1	+ 7·5	S	S	0·0	0·0	0·0	90	0·00
16	Greatest Declination N.	29·701	52·5	36·3	43·1	40·7	68·5	32·0	46·5	45·5	2·4	8·0	0·0	+ 4·2	S; SE	E	0·0	0·0	0·0	105	0·00
17	..	29·725	41·5	36·1	37·7	35·5	44·0	34·6	46·3	44·4	2·2	4·0	0·2	— 1·3	E	E	0·0	0·0	0·0	135	0·00
18	..	29·627	38·0	32·9	34·2	31·1	38·0	32·0	45·3	43·0	3·1	4·2	2·5	— 4·9	NE	NE	0·0	0·0	0·0	100	0·01
19	..	29·699	37·0	33·3	34·7	33·7	39·0	32·5	44·3	41·2	1·0	3·6	0·0	— 4·5	NE	NE	0·0	0·0	0·0	105	0·10
20	Full	29·754	38·0	32·3	34·4	29·4	41·0	31·1	41·5	40·3	5·0	6·5	3·0	— 4·9	NE	NE	3·5	0·0	0·3	215	0·00
21	..	29·881	35·8	31·3	33·0	28·8	39·0	31·0	41·0	38·6	4·2	7·8	2·1	— 6·3	NE	NE	5·0	0·0	0·8	145	0·08
22	Apogee	29·877	39·1	29·6	34·9	29·4	47·0	24·1	40·5	38·4	5·5	8·2	3·5	— 4·5	NE; W	NW; N	0·0	0·0	0·0	95	0·00
23	In Equator	29·979	50·0	33·3	40·4	35·8	63·0	26·0	40·0	38·4	4·6	9·2	2·6	+ 0·9	Calm	N	0·0	0·0	0·0	65	0·00
24	..	30·308	49·5	36·0	42·3	33·8	62·5	30·0	40·0	38·6	8·5	14·1	4·6	+ 2·7	N	SW	0·0	0·0	0·0	80	0·00
25	..	30·375	47·1	33·3	40·3	34·6	50·0	25·5	40·5	39·5	5·7	9·5	4·8	+ 0·6	S W	SW	0·0	0·0	0·0	185	0·00
26	..	30·233	53·5	41·[illegible]	47·8	42·3	55·0	38·5	41·7	40·3	5·5	8·8	3·2	+ 8·0	SW	NW	0·0	0·0	0·0	100	0·00
27	..	30·327	57·0	45·0	48·7	41·3	57·0	37·0	43·0	41·2	7·4	9·9	6·5	+ 8·8	W	W	0·0	0·0	0·0	30	0·00
28	..	30·385	48·6	43·0	44·1	41·0	50·0	43·0	43·5	41·7	3·1	6·2	2·0	+ 4·2	Calm	NE	0·0	0·0	0·0	10	0·00
29	Last Qr.	30·423	53·0	35·9	43·8	36·5	75·5	37·0	44·5	42·1	7·3	13·6	0·0	+ 3·9	NE	E	0·0	0·0	0·0	80	0·00
Means	..	29·899	47·4	37·6	42·0	38·1	53·5	32·5	42·8	41·0	3·8	7·1	1·9	+ 3·1	...	...	..	..	..	Sum 3810	Sum 0·93

BAROMETER READINGS.

The first maximum in the month was 30in·056 on the 5th; the second maximum ,, was 29in·934 on the 8th; the highest reading ,, was 30in·476 on the 29th, the readings still increasing.

The first minimum in the month was 29in·851 on the 4th.

The absolute minimum ,, was 29in·480 on the 6th.

The second minimum ,, was 29in·537 on the 13th.

The range in the month was 0in·996.

The mean for the month was 29in·899, being 0in·132 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·0 on the 9th; the lowest was 27°·5 on the 1st; and the range in the month was 30°·5.

The mean ,, of all the highest daily readings was 47°·4, being 3°·0 *higher* than the average of the preceding 16 years.

The mean ,, of all the lowest daily readings was 37°·6, being 4°·1 *higher* than the average of the preceding 16 years.

The mean daily range was 9°·8, being 1°·2 *less* than the average of the preceding 16 years.

The mean for the month was 42°·0, being 3°·7 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Feb. 1	s, sps	s, sps	10, f	10
2	w	w	8	10
3	s	s	0	0 : f, r
4	s	s : s, sps	3, cu : 10	10 : r
5	o : w	o	10, ci.-cu, ci.-s, li.-cl	5, ci.-cu, ci.-s : 10
6	s, sps	s, sps	10, m.-r, st.-w	10, st.-w : h.-sqs
7	w : o	w : o	10, m.-r	10, th.-r, : v, m.-r
8	s, sps		10, shs.-r	v
9	w	w	10, ci.-cu, s	10, s. ci.-s : v
10	v	v	10	10
11	w	w	10, r	10, r : v
12	w	w	10, sh.-r	10, m.-r : lu.-ha, lu.-co
13	o	o	10, r	10, r : lu.-co
14	s, sps, g cur	m	10, sh.-r	5, cu, ci.-cu, ci.-s : o
15	m	m	5, cu, ci.-s	5, ci-cu, ci.-s : v, lu.-ha
16	s	s	0, f	0
17	s	s	10	10, th.-r
18	o	w	10, sl	10 : sl
19	o	o	10, sn, r : m. r	10
20	o	o	10,	10
21	o	o : m	10, sn, sl	10
22	v	v	10, th.-f	10
23	s : w	w : s	10	v, ci.-cu, ci.-s : 10
24	s	s	2, s, f	0
25	s	s	10	10
26	s	s	10	10
27	w	w	10	10
28	w	w	10, m, r	10 : f
29	w	w : s	0 : cu, ci.-cu.	0 : 3

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 49°·7 on the 7th; and the lowest was 24°·9 on the 21st.
The mean ,, was 38°·1, being 3°·5 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot230$, being $0^{in}\cdot027$ *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr}\cdot6$, being $0^{gr}\cdot3$ *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being the same as the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 552 grains, being 1 grain *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 8·4.

WIND.

The proportions were of N. 5, S. 11, W. 8, and E. 5.

RAIN.

Fell on 10 days in the month amounting to $0^{in}\cdot9$, as measured in the simple cylinder gauge partly sunk below the ground, being $0^{in}\cdot2$ *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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	Greatest Declination S.	30·505	42·4	35·5	39·9	35·5	47·8	25·0	44·5	42·6	4·4	6·4	3·2	— 0·1	NE	NE	0·0	0·0	0·0	80	0·00
2	..	30·441	46·0	40·8	41·9	38·2	50·0	40·0	44·5	43·5	3·7	7·5	3·2	+ 1·9	NE	NE	0·0	0·0	0·0	145	0·00
3	..	30·464	45·1	36·8	40·2	33·3	47·8	30·5	45·5	43·7	6·9	9·7	4·8	+ 0·2	N	NE	0·0	0·0	0·0	130	0·00
4	..	30·404	40·0	35·0	36·8	32·5	43·0	34·9	44·1	43·5	4·3	5·8	3·6	— 3·1	NE	NE	0·0	0·0	0·0	40	0·00
5	..	30·113	44·0	34·0	38·5	33·0	51·0	32·0	43·5	43·0	5·5	10·6	4·8	— 1·3	Calm	NE	0·0	0·0	0·0	95	0·00
6	New	30·040	44·0	35·3	39·2	34·6	54·0	27·0	43·5	43·0	4·6	7·1	2·6	— 0·5	NE	N	0·0	0·0	0·0	70	0·00
7	Perigee	30·194	41·2	32·2	35·9	34·1	45·0	27·0	43·0	42·6	1·8	4·4	1·0	— 3·8	N	Calm	0·0	0·0	0·0	75	0·00
8	In Equator	30·203	46·0	26·0	35·3	34·3	49·0	17·0	43·0	42·0	1·0	6·6	0·0	— 4·6	Calm	Calm	0·0	0·0	0·0	30	0·00
9	..	30·040	42·0	35·7	38·7	36·4	55·5	29·0	42·5	42·1	2·3	3·5	2·1	— 1·5	W	W; N	0·0	0·0	0·0	110	0·00
10	..	29·985	50·0	34·0	40·0	37·2	58·0	24·8	43·0	42·1	2·8	10·5	1·3	— 0·4	W	NE; E	0·0	0·0	0·0	60	0·00
11	..	29·926	42·5	32·0	36·8	29·1	48·0	32·8	42·5	42·1	7·7	12·9	5·6	— 3·9	E	E	0·0	0·0	0·0	85	0·00
12	..	29·865	45·0	26·5	35·2	28·2	62·0	19·0	42·0	41·7	7·0	12·3	4·5	— 5·7	NE	NE; E	3·0	0·0	0·3	195	0·00
13	First Qr.	29·915	42·0	28·5	34·9	23·5	63·0	24·0	42·0	41·2	11·4	17·0	8·7	— 6·3	E	E	6·0	0·0	1·2	220	0·00
14	Greatest Declination N.	30·010	42·8	30·7	35·7	23·1	57·0	26·5	41·5	40·8	12·6	15·2	8·0	— 5·7	NE	E	5·5	0·0	1·0	155	0·00
15	..	30·014	38·0	27·9	33·1	29·5	44·0	26·8	41·3	40·3	3·6	8·4	3·1	— 8·4	E	E	0·0	0·0	0·0	100	0·00
16	..	29·867	47·0	31·1	42·3	37·9	52·0	17·0	40·7	40·3	4·4	6·6	2·2	+ 0·6	E	E; SE	2·5	0·0	0·2	160	0·08
17	..	29·833	45·0	37·0	39·6	38·2	59·0	17·0	40·5	40·3	1·4	3·5	1·4	— 2·2	SE	ESE	0·0	0·0	0·0	85	0·85
18	..	29·717	51·0	39·0	43·8	40·1	55·0	16·5	42·5	41·1	3·7	6·3	2·4	+ 2·0	SE	E; Calm	0·0	0·0	0·0	140	0·30
19	..	29·709	52·0	44·5	46·7	43·1	65·0	16·5	43·5	42·5	3·6	6·3	1·1	+ 4·8	Calm	W; N	0·0	0·0	0·0	130	0·01
20	Apogee	29·846	48·8	41·5	43·6	40·7	58·0	..	44·5	43·0	2·9	5·3	2·6	+ 1·6	N	NE	0·0	0·0	0·0	60	0·02
21	Full In Equator	29·820	46·0	40·0	42·0	37·4	50·0	34·0	45·0	43·0	4·6	6·8	2·5	— 0·1	W; NE	NE; Calm	0·0	0·0	0·0	40	0·03
22	..	29·969	51·0	34·5	41·8	34·1	65·0	25·0	45·5	43·2	7·7	12·6	6·0	— 0·4	NE	NE	0·0	0·0	0·0	65	0·00
23	..	30·072	49·0	31·9	39·8	34·1	65·0	22·0	45·0	43·7	5·7	10·1	..	— 2·5	NE	NE	0·0	0·0	0·0	45	0·00
24	..	29·996	44·4	35·1	37·7	33·7	50·0	35·0	45·5	43·7	4·0	7·1	3·2	— 4·7	E	SE	0·0	0·0	0·0	60	0·00
25	..	29·816	41·8	35·1	37·9	35·1	45·8	35·3	45·5	43·7	2·8	5·5	1·5	— 4·6	E	E	2·0	0·0	0·2	200	0·00
26	..	29·783	42·0	34·0	36·8	32·9	50·4	35·5	45·0	43·7	3·9	6·2	1·4	— 5·9	E	NE	3·5	0·0	0·6	90	0·00
27	..	29·781	51·0	31·7	40·4	31·4	70·0	21·9	44·5	43·4	9·0	13·9	8·4	— 2·4	NE	E	2·5	0·0	0·2	90	0·00
28	..	29·821	45·0	26·0	35·9	28·1	68·0	13·5	44·0	43·2	7·8	11·9	5·0	— 7·1	NE	E	0·0	0·0	0·0	125	0·00
29	Greatest Dec. S Last Quarter	30·085	43·0	29·5	35·6	24·0	70·0	13·5	43·5	43·0	11·6	14·1	1·8	— 7·6	E	E	3·5	0·0	0·8	100	0·00
30	..	30·115	51·0	24·7	37·4	26·6	75·0	8·5	43·5	43·0	10·8	17·9	7·1	— 5·9	ENE	E	0·0	0·0	0·0	35	0·00
31	..	29·987	58·0	24·7	42·3	28·0	80·0	10·5	44·5	43·2	14·3	26·2	8·7	— 1·1	E	SE	0·0	0·0	0·0	50	0·00
																				Sum	Sum
Means	..	30·011	45·7	33·3	38·9	33·1	56·5	24·5	43·5	42·5	5·7	9·6	3·7	— 2·5	...	...				3065	1·29

BAROMETER READINGS.

The absolute maximum in the month was 30in·527 on the 1st; the first minimum in the month was 30in·030 on the 6th.

The second maximum ,, was 30in·249 on the 7th; the absolute minimum ,, was 29in·668 on the 19th.

The third maximum ,, was 30in·144 on the 30th.

The range in the month was 0in·859; the mean for the month was 30in·011 being 0in·205 higher than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·0 on the 31st; the lowest was 24°·7 on the 30th; and the range in the month was 33°·3.

The mean ,, of all the highest was 45°·7, being 4°·0 *lower* than the average of the preceding 16 years.

The mean ,, of all the lowest was 33°·3, being 1°·7 *lower* than the average of the preceding 16 years.

The mean daily range was 12°·4, being 2°·2 *less* than the average of the preceding 16 years.

The mean for the month was 38°·9, being 2°·7 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1	w	w	10	10
2	m	m	10	10
3	m	m	7 : 10	10
4	w	w	10	10
5	w	w : s	10	10
6	m	m	10, m.-r	10 : 7, li.-cl
7	s	s : s, sps	10 : th.-r	10
8	v	v	10, th.-f	10 : 9
9	s P, s N, sps	s P, s N, sps	10	10, h
10	s	s	9, f	9 : f
11	s	s	10	10 : v, s
12	w	w	0, h : 10, cu, cu.-s.	10, ci.-s
13	w	w : s	0 : st.-w	0 : 10, s, lu.-co, lu.-ha
14	w	w	8, cu.-s, ci.-s, s : st.-w	3, ci.-cu : 0
15	0	0 : w	10	10
16	0	0	10, s	10 : h-r
17	0	0	10, r	10 : sc
18	0	0	10, th.-r	10 : oc.-shs
19	0	0	10, r : 9, s, ci.-s, li.-cl	10 : f
20	0	0	10, gt.-glm : th.-r	7 : 10, m.-r
21	0	0	10, r, th.-f	10, s, ci.-s, shs.-r : lu.-co
22	0	0	10, s, ci.-s : 7, cu, cu.-s, ci.-s	10 : f
23			5	5, ci.-cu : 10
24			10, h.-r	10
25			10	10 : st.-w
26			10	10 : 0
27			5 cu, s	9, s, ci.-s : 0
28			9 : 10	10
29			3, cu, ci	0
30			0	0
31			0	0 : h

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 44°·9 on the 19th; and the lowest was 22°·6 on the 13th.
The mean ,, was 33°·1, being 3°·2 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}.188$, being $0^{in}.028$ *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr}.2$, being $0^{gr}.5$ *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 81 (that of Saturation being represented by 100), being 1 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 558 grains, being 7 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 8·0.

WIND.

The proportions were of N. 8, S. 2, W. 3, and E. 18.

RAIN.

Fell on 6 days in the month, amounting to $1^{in}.2$, as measured in the single cylinder gauge partly sunk below the ground, being $0^{in}.1$ *greater* than the average fall of the preceding 16 years.

From March 23 the electrical apparatus was under repair.

MONTH and DAY, 1856.	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.
April 1	..	29·859	66·8	33·3	50·3	35·2	81·2	16·0	45·5	43·7	15·1	20·9	14·7	+ 6·7	SE	S; SE	0·0	0·0	0·0	190	0·00
2	..	29·697	64·8	44·0	53·2	40·2	79·0	30·5	46·5	44·0	13·0	23·8	4·2	+ 9·5	SE	S; SW	2·0	0·0	0·1	195	0·00
3	..	29·723	56·5	42·2	48·3	44·8	78·0	31·1	47·5	44·9	3·5	7·6	3·1	+ 4·4	SW	S	6·0	0·0	2·3	300	0·05
4	Perigee In Equator	29·680	58·2	42·0	47·8	38·8	79·0	39·0	48·7	45·5	9·0	17·2	3·3	+ 3·8	SW	SW; S	5·0	0·0	0·6	190	0·00
5	New	29·371	55·0	36·3	45·3	37·2	79·0	29·8	49·5	46·5	8·1	15·0	2·6	+ 1·1	S; SSE	SSE	3·0	0·0	0·3	235	0·04
6	..	29·162	53·0	37·0	42·3	38·2	80·0	33·5	50·5	46·9	4·1	8·6	3·8	— 2·1	SW	SW; Calm	0·0	0·0	0·0	165	0·10
7	..	29·363	56·2	36·0	45·3	37·6	76·5	..	50·7	47·3	7·7	16·4	2·6	+ 0·8	SW	W; S	0·0	0·0	0·0	150	0·00
8	..	29·129	51·3	41·0	46·0	42·0	76·8	31·0	50·5	47·3	4·0	6·3	2·5	+ 1·3	SE	S; W	3·0	0·0	0·3	250	0·02
9	..	29·170	56·8	37·5	45·1	39·6	78·0	29·8	50·5	47·8	5·5	10·2	4·0	+ 0·3	SW	W; SW	2·5	0·0	0·2	185	0·25
10	Greatest Declination N.	29·150	60·0	46·0	49·9	45·3	70·0	37·0	50·5	48·2	4·6	11·4	0·2	+ 4·9	SE; SW	S	3·0	0·0	0·5	290	0·12
11	..	29·521	57·0	44·0	50·2	44·6	69·0	35·8	51·5	49·2	5·6	12·5	2·2	+ 5·1	S	SE	2·0	0·0	0·1	230	0·04
12	First Qr.	29·411	61·1	46·0	51·1	43·3	78·0	47·0	52·5	49·7	7·8	15·4	2·9	+ 5·8	SE; SW	SW	3·0	0·0	0·5	210	0·04
13	..	29·517	65·0	41·4	52·9	42·6	80·3	32·5	53·0	50·2	10·3	17·3	4·4	+ 7·4	SW	Calm	0·0	0·0	0·0	25	0·00
14	..	29·659	56·0	40·0	46·8	43·5	60·0	30·3	53·1	50·2	3·3	10·2	1·3	+ 1·1	NE	NE	5·5	0·0	0·8	260	0·06
15	..	29·804	56·0	40·2	46·5	35·7	68·5	42·9	53·5	50·5	10·8	17·6	5·3	+ 0·6	NE	NE	9·6	0·0	2·5	135	0·11
16	..	29·983	53·2	37·0	43·8	32·3	73·6	32·0	52·5	49·2	11·5	17·6	4·5	— 2·2	NE	N	5·0	0·0	1·0	120	0·00
17	Apogee	30·002	54·1	32·0	42·8	32·8	73·0	28·6	51·5	48·5	10·0	16·6	8·3	— 3·5	N	NE	3·0	0·0	0·3	115	0·00
18	In Equator	29·964	59·5	39·5	46·5	36·9	83·5	37·0	51·5	48·3	9·6	17·2	4·8	0·0	N	E	0·0	0·0	0·0	40	0·00
19	..	30·062	50·3	37·0	42·6	36·9	60·5	29·9	51·0	48·3	5·7	12·4	3·9	— 4·2	E	NE	0·0	0·0	0·0	55	0·00
20	Full	30·138	57·8	34·0	43·9	35·6	83·0	25·5	51·3	48·5	8·3	17·5	4·5	— 3·1	E	NE	0·0	0·0	0·0	50	0·00
21	..	30·056	63·4	30·6	46·1	34·8	88·0	19·9	51·7	48·8	11·3	21·9	4·8	— 1·2	NE	E	0·0	0·0	0·0	20	0·00
22	..	29·876	56·1	37·7	46·6	34·0	69·0	23·5	51·0	49·2	12·6	17·2	8·3	— 0·9	E	SE	0·0	0·0	0·0	35	0·00
23	..	29·764	58·0	30·9	46·3	36·4	81·0	20·9	51·7	49·2	9·9	16·0	5·2	— 1·5	SE	SE	0·0	0·0	0·0	20	0·00
24	..	29·740	57·6	37·0	46·7	42·1	80·4	26·8	52·5	49·4	4·6	10·8	2·6	— 1·5	SE	E	0·0	0·0	0·0	50	0·00
25	Greatest Declination S.	29·493	73·0	39·0	56·0	43·2	93·5	28·3	53·5	50·5	12·8	22·3	1·4	+ 7·5	E	E; S	0·0	0·0	0·0	115	0·00
26	..	29·357	62·7	46·8	53·6	43·8	81·8	44·0	54·2	50·9	9·8	17·1	3·4	+ 4·8	SW	SW	4·8	0·0	0·8	70	0·27
27	Last Qr.	29·371	46·0	38·0	40·2	39·5	52·5	40·0	53·8	50·9	0·7	3·7	0·0	— 9·0	NE	N	3·0	0·0	0·5	150	0·60
28	..	29·432	51·1	35·0	43·2	32·9	77·0	25·0	54·9	50·9	10·3	14·9	7·7	— 6·3	N	N; W	0·0	0·0	0·0	40	0·00
29	..	29·467	52·0	31·0	41·7	34·8	57·0	21·9	53·1	50·4	6·9	13·8	5·9	— 8·2	NW	NW	0·0	0·0	0·0	45	0·00
30	..	29·517	53·5	37·2	42·3	35·6	77·0	29·8	52·5	50·0	6·7	12·0	1·4	— 8·0	Calm	W; Calm	1·5	0·0	0·0	40	0·07
Means	..	29·614	57·4	38·2	46·8	38·7	75·4	31·0	51·3	48·5	8·1	14·7	4·1	+ 0·4	...	...	..	..	..	Sum 3975	Sum 1·77

BAROMETER READINGS.

The absolute maximum in the month was 30in·172 on the 20th; the second maximum ,, was 29in·529 on the 30th.
The absolute minimum in the month was 29in·049 on the 10th.
The second minimum ,, was 29in·331 on the 26th.
The range in the month was 1in·123. The mean for the month was 29in·614, being 0in·129 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 73°·0 on the 25th; the lowest was 30°·6 on the 21st; and the range in the month was 42°·4.
The mean ,, of all the highest was 57°·4, being 0°·4 *higher* than the average of the preceding 16 years.
The mean ,, of all the lowest was 38°·2, being 0°·7 *lower* than the average of the preceding 16 years.
The mean daily range was 19°·2, being 1°·0 *higher* than the average of the preceding 16 years.
The mean for the month was 46°·8, being 0°·2 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
April 1	w	w	o	5 : o
2	w	w	5, s, li.-cl	5, cu.-s, ci : 10
3	w	w	10	10, r : sl.-r, st.-w
4	w	w	7, ci.-cu	7, cu, ci.-cu : o
5	w	w	9, cu, cu.-s	9, cu, cu.-s, shs.-r : 1
6	w	w	v, sl.-r	v, sl.-r
7	w	w	v, cu, cu.-s	v, cu : 5, sl.-r
8	o	o	10, sl.-r	10, shs.-r
9	o	o	10, sl.-r	10, shs.-r : 7, lu.-ha
10	o	o : w	10, r	v, : ci.-s
11	o	o	5, ci.-cu, shs.-r	10, r
12	o	o	5, ci.-cu, ci, shs.-r	5, cu, ci.-cu : o
13	w	w	2, cu : sl.-r	2, cu
14	w	w	7, s	10 : r, st.-w
15	w	w	v, st.-w	v, ci, li.-cl : 10, st.-w
16	w	w	2, st.-w	o
17	w	w	10 : 7, cu, ci.-cu	7, ci : 10
18	w	w	10 : o	o : 10
19	w	w	7	o
20	o	o : w	v, ci.-cu : o	o
21	o	o : w	o : 7, cu, cu.-s	o
22	o	o : w	10	10 : o
23	o	o : w	o : 10	10 : 1
24	o	o	10 : 8, cu, ci.-cu	10 : o
25	o	o	5, ci.-cu, s	5, cu, cu.-s : 10
26	o	o	10, h.-r, st.-w : v	v, cu, li. cl : 10
27	w	w	10, r : sl.-r	10, r : sc
28	w	w	7, cu, gt.-glm : 10	10
29	w	w	10, li.-cl, h	9, ci.-cu, s : 10
30	w	s, N, w	10 : sl.-r	10, r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 51°·8 on the 25th; and the lowest was 32°·6 on the 17th.
The mean ,, was 38°·7, being 1°·4 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·235, being 0^{in}·015 *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 2^{gr}·7, being 0^{gr}·2 *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 74 (that of Saturation being represented by 100), being 5 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 542 grains, being 2 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 6·8.

WIND.

The proportions were of N. 7, S. 9, W. 6, and E. 8.

RAIN.

Fell on 13 days in the month, amounting to 2^{in}·3, as measured in the simple cylinder gauge partly sunk below the ground, being 0^{in}·7 *greater* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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.	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.	Well'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.
May 1	In Equator	29·470	48·0	34·0	40·4	35·6	..	25·1	52·5	49·2	4·8	8·6	3·7	−10·4	NE	N	4·0	0·0	0·2	125	0·01
2	Perigee	29·870	49·2	33·1	40·3	30·5	76·0	26·2	52·5	49·2	9·8	14·3	3·8	−10·8	NNW	NNW	2·0	0·0	0·0	175	0·00
3	..	29·922	53·3	34·8	40·7	36·6	76·5	26·3	52·5	48·8	4·1	13·4	4·1	−10·8	NW	N	4·0	0·0	0·6	140	0·07
4	New	29·951	53·8	38·0	43·8	32·3	73·0	35·0	50·0	48·2	11·5	15·4	10·3	− 8·0	NNW	NNE	3·0	0·0	0·3	60	0 00
5	..	29·942	32·0	29·8	40·6	29·9	77·0	20·2	49·5	48·3	10·7	17·8	5·8	−11·4	NE	E	0·0	0·0	0·0	60	0·00
6	..	29·684	51·0	36·0	43·6	32·1	78·5	32·2	49·3	47·8	11·5	15·8	5·9	− 8·6	E	SE ; E	4·0	0·0	0·3	240	0·00
7	..	29·344	44·0	40·2	42·1	36·6	47·5	38·1	50·1	48·3	5·5	12·8	2·9	−10·1	NE	N	10·0	0·6	3·0	300	0·32
8	Greatest Declination N.	29·814	48·0	40·0	43·2	39·1	54·0	37·7	51·0	48·8	4·1	6·1	3·3	− 8·9	N	N	8·0	0·0	1·8	250	0·01
9	..	30·015	50·8	41·1	44·7	41·6	58·5	39·1	50·5	47·8	3·1	6·5	1·4	− 7·3	N	N	3·0	0·0	0·4	155	0·00
10	..	29·815	68·3	43·0	52·2	46·5	90·1	42·1	49·5	46·9	5·7	16·7	2·7	+ 0·3	N	N	3·0	0·0	0·4	155	0·00
11	First Qr.	29·694	72·0	44·0	56·4	47·1	95·0	39·0	50·5	48·3	9·3	16·8	3·5	+ 4·6	N	N	0·0	0·0	0·0	120	0·00
12	..	29·579	59·0	44·0	50·7	48·6	69·0	38·0	52·0	49·2	2·1	7·6	1·0	− 1·0	N	Calm	0·0	0·0	0·0	10	0·15
13	..	29·494	62·0	49·0	53·0	49·8	72·5	43·0	53·5	50·0	3·2	10·6	0·8	+ 1·3	SW	SW	2·0	0·0	0·1	160	0·63
14	Apogee	29·424	57·0	43·0	49·3	43·6	74·0	35·1	54·2	50·9	5·7	11·6	3·3	− 2·6	S	SW	4·8	0·0	0·4	200	0·01
15	In Equator	29·346	60·1	43·2	48·8	42·7	83·0	35·0	54·9	50·9	6·1	12·8	0·9	− 3·5	S	SW	4·0	0·0	0·3	115	0·11
16	..	29·400	60·5	42·9	50·1	43·8	75·0	38·3	55·9	51·7	6·3	12·2	5·5	− 2·4	N	NW	0·0	0·0	0·0	75	0·05
17	..	29·517	58·5	46·4	50·2	43·5	72·0	36·9	55·9	52·2	6·7	13·2	3·6	− 2·6	W ; SW	SW	6·0	0·0	1·5	280	0·29
18	..	29·364	59·8	43·0	48·6	45·7	67·0	36·0	55·7	52·7	2·9	7·4	0·0	− 4·6	SW	SW	15·0	0·0	2·0	290	0·26
19	Full	29·715	63·0	42·9	51·9	41·8	80·1	36·0	55·9	52·7	10·1	18·4	4·6	− 1·5	SW	SW	6·0	0·0	0·8	135	0·02
20	..	29·926	65·2	42·0	53·9	42·1	96·0	29·8	56·4	53·5	11·8	18·4	9·2	+ 0·1	S	SW	0·0	0·0	0·0	140	0·00
21	..	29·681	70·0	41·0	56·7	44·1	88·0	..	57·1	53·7	12·6	21·2	2·4	+ 2·7	SE	SE	0·0	0·0	0·0	75	0·00
22	Greatest Declination S.	29·481	62·0	52·0	53·2	52·2	64·7	47·1	58·4	54·7	1·0	5·0	0·0	− 1·1	Calm	SW	0·0	0·0	0·0	115	0·65
23	..	29·393	62·5	44·3	53·4	46·3	85·0	35·2	58·9	55·7	7·1	11·6	5·4	− 1·1	SW ; S	S	3·0	0·0	0·2	90	0·01
24	..	29·391	62·1	48·0	53·7	48·3	79·0	41·0	59·4	55·7	5·4	9·3	4·0	− 1·1	S	SW	4·0	0·0	0·3	285	0·14
25	..	29·548	64·8	46·2	53·5	48·7	84·8	40·3	59·9	56·7	4·8	10·3	3·2	− 1·5	SW	Calm	2·0	0·0	0·0	50	0·13
26	..	29·737	69·0	48·3	57·5	50·3	92·5	39·8	60·9	57·2	7·2	15·3	4·8	+ 2·2	S	SW	5·0	0·0	0·6	180	0·00
27	Last Qr.	29·613	70·0	51·0	58·6	47·6	96·0	43·1	60·9	57·7	11·0	15·3	8·8	+ 3·1	SW	SW	0·0	0·0	0·0	90	0·00
28	..	29·496	67·5	48·0	56·3	48·9	91·0	43·2	61·9	58·7	7·4	15·1	0·8	+ 0·5	Calm	SW	0·0	0·0	0·0	60	0·59
29	In Equator	29·819	63·0	47·7	53·1	49·9	78·4	42·0	61·7	58·7	3·2	6·5	1·9	− 2·8	W ; N	NE	0·0	0·0	0·0	180	0·00
30	Perigee	29·981	57·0	40·9	48·4	40·8	74·0	34·1	60·9	56·7	7·6	10·8	3·2	− 7·8	NE	NE	2·0	0·0	0·1	140	0·00
31	..	29·644	49·5	43·1	46·0	45·6	59·7	42·2	59·9	55·2	0·4	3·2	0·0	−10·4	NE	N	1·0	0·0	0·0	140	0·25
Means	..	29·647	59·1	42·6	49·5	43·0	76·9	36·6	55·2	52·1	6·5	12·2	3·6	− 3·7	...	...	..	..	..	Sum 4570	Sum 3·70

BAROMETER READINGS.

The first minimum in the month was 29in·350 on the 1st.

The first maximum in the month was 29in·972 on the 3rd; the absolute minimum ,, was 29in·271 on the 7th.

The absolute maximum ,, was 30in·039 on the 9th; the third minimum ,, was 29in·297 on the 15th.

The third maximum ,, was 29in·936 on the 20th; the fourth minimum ,, was 29in·357 on the 23rd.

The fourth maximum ,, was 30in·002 on the 30th.

The range in the month was 0in·768, The mean for the month was 29in·647, being 0in·109 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 72°·0 on the 11th; the lowest was 29°·8 on the 5th; and the range in the month was 42°·2.

The mean ,, of all the highest was 59°·1, being 5°·1 *lower* than the average of the preceding 16 years.

The mean ,, of all the lowest was 42°6, being 1°·6 *lower* than the average of the preceding 16 years.

The mean daily range was 16°·5, being 3°·5 *lower* than the average of the preceding 16 years.

The mean for the month was 49°·5, being 3°·4 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
May 1	w	w	10	10, shs.-r : v
2	w	w	5, cu, ci.-cu	10 : 5
3	s, N	s, N, s, P	9, r, hl	9, sl.-r, hl : hl, r : hl
4	N	N	10	10 : 0
5	N	N	3, cu, ci.-cu : 7	7 : 10
6	N	N	5, cu, ci.-cu, li.-cl	10, cu, ci.-s : 0
7	N	N	10, r, st.-w	10, r, st.-w, h.-sqs
8	N	N	10 m.-r : shs.-r	10 : shs.-r
9	N	N	10 : sl.-r	10
10	m	m	10, s, ci.-cu : v	v, ci.-cu, li.-ci : 0
11			10, ci-s, ci : 0	0
12			10 : shs.-r	3, cu, ci.-cu : r
13			10, r	10 : 0
14			10 shs.-r	10, s, shs.-r, st.-w : v
15			10, shs.-r : 7, cu	7, cu, oc.-r : 10, r
16			10, h : sh.-r	7 : 10, th.-f
17			10, cu, li.-cl	10, hl, r : shs.-hl, r
18	s, N, s, P	s, N, s, P	10, h.-sqs, w, r	8, cu.-s, ci.-s : 10, shs.-hl, r
19	s, N, s, P	s, N, s, P	v, ci.-s, sqs, r : 0	3, cu, li.-cl : sl.-r : 0
20	s, N, s, P	s, N, s, P	0	v, s : 0
21	s, N, s, P	s, N, s, P	0 : v, cu	10, ci.-s, li.-cl : h.-r
22	s, N, s, P	s, N, s, P	10, r	10, r : 9
23	s, N, s, P	s, N, s, P	10, cu, ci.-s	10 : sl.-r
24	s, N, s, P	s, N, s, P	10, oc.-shs.-r	10, cu, ci.-s, shs-h, r
25	w	w	10, sl.-r	10, sl, shs.-r : 7, hl, r
26	w	w	5, cu	10, cu, li.-cl
27	w	w	v, cu, li.-cl	10, cu, ci.-s
28	s, N, s, P	s, N, s, P	7, cu.-s, h.-shs.-r	7, cu.-s : v, shs.-r : 0
29	w	w	10	10
30	w	w	10	10
31	w	0	10, sl.-r : m.-r.	10, m.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 53°·9 on the 22nd; and the lowest was 30°·9 on the 2nd.
The mean ,, was 43°·0, being 2°·5 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}\cdot277$, being $0^{in}\cdot023$ *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $3^{gr}\cdot1$, being $0^{gr}\cdot3$ *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 79 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 539 grains, being 1 grain *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 8·1.

WIND.

The proportions were of N. 11, S. 9, W. 7, and E. 4.

RAIN.

Fell on 18 days in the month, amounting to $3^{in}\cdot5$, as measured in the simple cylinder gauge partly sunk below the ground, being $1^{in}\cdot6$ *greater* than the average fall of the preceding 16 years.

ELECTRICITY.

May 11 to May 17. The apparatus for the most part was out of order.

MONTH and DAY, 1856.	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.	Greatest.	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.	P.M.	Pressure in lbs. on the square foot. Greatest.	Least.	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 1	..	29·598	61·3	47·5	49·8	47·7	67·0	49·0	58·9	53·9	2·1	10·8	3·2	— 6·7	W	W; S	0·0	0·0	0·0	110	0·00
2	New	29·717	70·8	45·8	57·5	47·3	98·3	39·8	59·7	54·7	10·2	16·7	6·2	+ 0·7	SW	SW	0·0	0·0	0·0	20	0·00
3	..	29·843	75·5	47·0	61·4	48·4	102·5	38·1	59·9	54·7	13·0	19·2	8·0	+ 4·4	WSW	W	0·0	0·0	0·0	10	0·00
4	Greatest Declination N.	29·948	74·0	50·2	62·1	48·5	103·8	42·1	61·9	57·7	13·6	21·3	7·2	+ 5·0	SW	SW; NNW	0·0	0·0	0·0	145	0·00
5	..	29·999	65·9	50·0	55·3	44·6	84·0	45·0	61·9	57·7	10·7	16·3	6·7	— 2·0	N	N	3·0	0·0	0·2	150	0·00
6	..	30·092	65·6	41·1	52·9	42·8	91·4	31·2	61·9	58·7	10·1	15·6	7·4	— 4·6	NNW	N	2·0	0·0	0·0	30	0·00
7	..	30·120	69·0	44·0	58·1	49·1	80·3	32·8	62·1	59·3	9·0	16·0	6·6	+ 0·3	Calm	SW	0·0	0·0	0·0	65	0·00
8	..	30·084	71·5	52·0	60·4	55·3	85·0	37·0	62·5	59·7	5·1	9·2	3·8	+ 2·5	SW	W	0·0	0·0	0·0	160	0·00
9	..	29·975	72·2	57·1	61·5	54·7	61·0	51·8	63·1	59·7	6·8	14·0	3·2	+ 3·4	SW	SW	0·0	0·0	0·0	85	0·00
10	First Qr.	29·961	72·5	53·0	61·5	50·9	98·8	47·1	63·4	59·7	10·6	17·5	3·9	+ 3·2	Calm	Calm	0·0	0·0	0·0	25	0·00
11	Apogee In Equator	29·952	74·3	46·2	59·5	47·5	102·3	38·1	64·9	60·7	12·0	22·3	6·4	+ 1·0	Calm	SW	2·0	0·0	0·0	70	0·00
12	..	29·757	70·0	48·1	59·0 7·3	48·8 5·2	93·0	42·1	65·4	61·5	10·3 5·2	15·1	1·5	+ 0·8 — 1·5	SW	SW	7·0	0·0	0·6	200	0·10
13	..	29·552	65·0	58·0	59·2	57·9	70·5	56·1	65·9	62·5	1·3	5·6	1·1	+ 0·3	SW	SW	3·0	0·0	0·2	195	0·16
14	..	29·522	63·9	48·0	52·9	48·9	85·1	51·2	65·7	63·2	4·0	11·2	3·6	— 7·1	W	SW	10·0	0·0	0·8	160	0·27
15	..	29·867	68·2	44·6	55·4	46·8	87·2	38·5	64·9	61·7	8·6	18·5	3·5	— 3·8	SW	Calm	0·0	0·0	0·0	15	0·00
16	..	29·956	71·4	46·0	58·6	48·6	98·8	36·3	64·4	61·7	10·0	18·7	1·7	— 0·8	Calm	SW	0·0	0·0	0·0	10	0·00
17	..	29·736	72·5	47·0	56·3	52·7	79·0	42·3	64·9	62·2	3·6	8·9	0·6	— 3·2	SW	W; N	0·0	0·0	0·0	40	0·01
18	Full, Greatest Dec. S.	29·722	72·9	48·1	57·9	45·5	88·4	42·5	65·1	62·2	12·4	17·8	4·8	— 1·8	NE; NW	SW; W	0·0	0·0	0·0	45	0·00
19	..	29·421	58·0	47·1	52·3	51·3	67·0	47·1	64·9	61·9	1·0	3·8	0·0	— 7·6	SW	SW	1·0	0·0	0·0	80	0·18
20	..	29·518	68·5	39·7	54·2	54·2	65·5	41·1	64·5	61·7	0·0	6·5	0·0	— 5·9	SW	N; NW	3·0	0·0	0·3	100	1·00
21	..	29·921	67·2	44·0	54·5	47·5	90·1	46·2	63·9	61·5	7·0	15·2	1·8	— 5·8	W	SW	3·0	0·0	0·6	200	0·02
22	..	29·841	67·0	53·9	57·0	53·2	87·0	53·0	63·4	61·3	3·8	12·1	2·6	— 3·4	SW	W	5·0	0·0	0·7	165	0·00
23	..	30·044	63·8	51·1	56·2	53·4	75·7	45·0	62·9	60·5	2·8	11·8	0·8	— 4·4	W; N	N	0·0	0·0	0·0	25	0·00
24	..	30·046	72·0	49·0	59·7	55·1	85·5	50·0	62·9	60·7	4·6	14·2	0·8	— 1·0	Calm; SW	W; NW	3·0	0·0	0·1	120	0·00
25	Perigee In Equator Last Quarter	30·048	77·5	57·2	65·8	59·0	99·5	54·0	64·1	61·7	6·8	14·5	4·8	+ 4·9	NW	N	2·5	0·0	0·1	5	0·00
26	..	30·086	82·4	58·0	68·6	61·0	104·0	51·0	65·9	62·7	7·6	17·0	1·1	+ 7·6	N; NW	Calm	0·0	0·0	0·0	5	0·00
27	..	29·985	83·1	61·8	72·0	61·6	105·4	55·2	67·9	63·9	10·4	17·9	5·4	+10·8	Calm	SW	0·0	0·0	0·0	5	0·00
28	..	29·945	78·0	57·0	64·3	55·4	104·0	54·0	68·9	64·7	8·9	18·5	6·5	+ 0·3	NE	NE	0·0	0·0	0·0	15	0·00
29	..	30·130	72·8	48·0	58·8	50·0	99·0	34·0	69·4	65·2	8·8	15·7	7·2	— 2·7	NE	NE; Calm	0·0	0·0	0·0	20	0·00
30	..	29·922	77·0	50·9	62·2	53·5	102·5	39·9	69·4	65·5	8·7	18·2	2·8	+ 0·5	Calm; W	NE	0·0	0·0	0·0	10	0·00
Means	..	29·877	70·8	50·0	58·8	51·8 .3	88·7	44·4	64·1	60·7	7·1 .3	14·7	3·7	— 0·8 0·6	...	...	..	..	..	Sum 2285	Sum 1·74

BAROMETER READINGS.

The first minimum in the month was 29in·583 on the 1st.

The first maximum in the month was 30in·146 on the 7th; the second minimum ,, was 29in·445 on the 13th.

The second maximum ,, was 30in·009 on the 16th; the absolute minimum ,, was 29in·382 on the 19th.

The absolute maximum ,, was 30in·153 on the 29th.

The range in the month was 0in·771; the mean for the month was 29in·877, being 0in·082 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 83°·1 on the 27th; the lowest was 41°·1 on the 6th; and the range in the month was 42°·0.

The mean ,, of all the highest was 70°·8, being 0°·2 *higher* than the average of the preceding 16 years.

The mean ,, of all the lowest was 50°·0, being 0°·2 *higher* than the average of the preceding 16 years.

The mean daily range was 20°·8, being *the same* as the average of the preceding 16 years.

The mean for the month was 58°·8, being 0°·2 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
June 1	w	w	10, r		10	: 10, v
2	w	w	0	: 5, cu, li-cl	4, ci.-cu, s	
3	w	w	0		5	: 0
4	w	w	0		4, ci, li.-cl	
5	w	w	5		5	: 10, cu, ci.-s
6	w	w	7, cu, ci.-s		7, cu, ci.-cu	
7	w	w	5		5, ci, li.-cl	
8	m	m	10, sl.-r		10	
9	m	m	10		7, cu, li.-cl	: 10
10	m	m	5, s, li-cl		5, cu, ci-cu, s	
11	m	m	0		0	: 5, s, li.-cl
12	m	m	10, ci.-cu, ci, s		10	: 10, sl.-r
13	m	m	10, h.-r		10, r	
14	s N, s P, sps, g cur	s N, s P, sps, g cur	8, cu, s	: 10, hl, r	8, cu, li.-cl, shs.-hl, r	
15	0	0	7, cu, li.-cl		7, cu, ci	
16	0	m	0	: 6, cu	3, cu,	: 9, s, ci.-s, ci
17	s	s	10	: 10, sl.-r	10	: 5
18	s N	m	3, cu		3, cu	
19	w	w	10, r		10	: 8
20	s, sps	s N, s P, sps, g cur	5, cu, shs.-r		10, cu, ci.-s, shs.-r, l, t	
21	w		7, cu, li.-cl.		10, cu, s, shs.-r	
22	0	0 : s	10, shs.-r		5, sl.-r	: 6, s, ci
23	0 : w, N	m	10		10	
24	s	s	7 cu, li.-cl		7	: 10, sl.-r
25	m	s	10		10	: 10, h
26	s P : s N	m	10		10, v	: 5, ci
27	s	m : 0	5, cu		6, cu, li.-cl	
28	w	w	10		3, cu, li.-cl	
29	0	0	0		0	
30	w	m	2, ci, s		10	

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 65°·9 on the 27th; and the lowest was 41°·6 on the 19th.
The mean ,, was 51°·3, being 0°·8 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0in·378, being 0in·011 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4gr·3, being 0gr·3 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 76, that of Saturation being represented by 100, being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 536 grains, being 5 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·2.

WIND.

The proportions were of N. 8, S. 6, W. 14, and E. 2.

RAIN.

Fell on 7 days in the month, amounting to 1in·6, as measured in the simple cylinder gauge partly sunk below the ground; being 0in·1 *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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.
July 1	Greatest Declination N.	30·057	70·2	48·0	57·7	44·9	95·4	44·2	68·9	65·7	12·8	20·7	6·4	— 4·1	NE	NE; SSE	0·0	0·0	0·0	45	0·00
2	New	30·062	72·5	47·2	56·5	46·7	102·0	39·2	68·5	65·7	9·8	18·5	4·6	— 5·5	SE; E	NE; SE	0·0	0·0	0·0	60	0·00
3	..	30·077	70·5	44·0	56·2	48·0	97·2	35·2	68·7	65·7	8·2	17·5	5·8	— 5·9	SW; NE	E	0·0	0·0	0·0	50	0·00
4	..	29·929	76·3	44·7	61·8	48·8	98·0	47·3	68·4	64·9	13·0	19·6	4·0	— 0·4	Calm	Calm	0·0	0·0	0·0	110	0·00
5	..	29·879	73·3	53·5	61·2	50·4	93·3	46·2	67·9	64·7	10·8	16·2	6·2	— 1·1	Calm	NW; Calm	0·0	0·0	0·0	20	0·00
6	..	29·843	79·0	54·3	65·2	51·7	105·0	..	67·9	64·9	13·5	18·7	3·2	+ 3·0	W	W	2·5	0·0	0·5	225	0·01
7	..	29·459	63·0	52·1	56·6	52·2	72·0	44·8	67·4	63·7	4·4	10·1	2·6	— 5·5	W	SW	5·0	0·0	1·5	265	0·10
8	..	29·386	56·7	46·0	48·0	45·5	68·1	44·1	66·9	62·7	2·5	7·6	0·0	—14·0	W	NW	10·0	0·0	2·3	110	0·19
9	In Equator. Apogee.	29·636	66·2	44·2	53·0	47·1	84·5	38·1	64·9	61·7	5·9	14·1	3·6	— 8·9	W	NW	6·0	0·0	0·0	90	0·01
10	First Qr.	29·796	72·8	44·0	57·8	49·4	102·0	39·2	63·9	62·7	8·4	18·2	4·7	— 4·0	W	W	1·5	0·0	0·3	45	0·00
11	..	29·780	72·4	54·0	61·6	56·5	85·8	47·3	63·9	62·7	5·1	10·4	2·6	— 0·2	W	WSW	2·0	0·0	1·0	215	0·00
12	..	29·704	70·8	58·0	61·1	58·2	86·0	54·2	63·9	61·7	2·9	7·7	1·9	— 0·8	WNW	W	0·0	0·0	0·0	25	0·00
13	..	29·759	71·0	51·0	58·4	51·0	94·0	43·8	63·9	61·7	7·4	13·3	3·4	— 3·6	WNW	SW	0·0	0·0	0·0	65	0·00
14	..	29·841	68·9	53·2	60·1	56·7	95·4	47·8	64·4	62·2	3·4	7·9	1·5	— 2·0	Calm; SE	S	0·0	0·0	0·0	50	0·00
15	..	29·805	77·6	55·2	63·3	58·0	98·0	44·1	64·9	62·3	5·3	14·5	1·0	+ 1·2	SSW	S; Calm	1·0	0·0	0·0	20	0·30
16	Greatest Declination S.	29·739	67·8	54·0	58·2	53·4	83·3	52·8	64·9	62·7	4·8	14·4	2·3	— 3·9	Calm; SW	WSW	3·6	0·0	0·8	225	0·03
17	Full	29·980	71·5	48·0	59·2	50·2	95·0	49·3	64·9	62·3	9·0	17·3	3·8	— 2·9	WSW	W	1·0	0·0	0·0	115	0·00
18	..	29·888	64·8	50·0	57·3	54·3	98·3	41·8	64·9	62·2	3·0	7·6	2·3	— 4·7	SW	SW	2·5	0·0	0·5	115	0·00
19	..	29·871	77·5	50·8	64·5	59·0	102·5	46·3	65·1	62·2	5·5	13·6	0·6	+ 2·6	W	W	3·5	0·0	0·6	95	0·00
20	..	29·833	67·8	60·0	62·1	59·8	74·0	58·0	64·9	62·5	2·3	5·9	1·1	+ 0·2	W; NE	N; Calm	0·0	0·0	0·0	70	0·04
21	Perigee	29·849	74·8	56·2	62·9	60·1	94·0	56·0	65·4	62·7	2·8	8·8	1·3	+ 1·1	Calm; NW	NW; Calm	0·0	0·0	0·0	10	0·06
22	In Equator.	29·759	78·5	60·3	66·4	61·3	105·0	59·4	66·1	63·7	5·1	11·1	2·1	+ 4·6	Calm; NE	SW	0·0	0·0	0·0	35	0·15
23	..	29·558	83·0	52·9	68·8	58·2	100·3	46·0	67·5	64·2	10·6	21·9	6·7	+ 7·0	SW	SW	3·0	0·0	0·1	100	0·00
24	Last Qr.	29·524	75·0	61·0	64·2	60·4	93·0	58·1	68·1	64·2	3·8	8·6	1·5	+ 2·3	WSW	SW	1·5	0·0	0·2	130	0·05
25	..	29·740	74·8	57·0	62·7	53·6	102·2	53·3	68·4	64·9	9·1	17·3	7·2	+ 0·8	NW	W	2·0	0·0	0·1	125	0·00
26	..	29·903	75·3	49·8	62·1	53·8	102·0	45·4	68·9	65·7	8·3	20·7	2·1	+ 0·1	W	W	2 3	0·0	0·2	135	0·08
27	..	29·956	71·2	50·0	58·6	50·6	95·4	41·5	68·4	65·7	8·0	13·7	2·5	— 3·5	W	SW	1·0	0·0	0·0	90	0·02
28	..	29·893	76·0	53·4	62·6	59·0	98·0	48·8	68·4	65·7	3·6	12·9	0·0	+ 0·4	SW	SW; Calm	0·0	0·0	0·0	65	0·20
29	Greatest Declination N.	30·046	81·1	55·0	65·5	61·9	104·5	49·9	68·9	65·9	3·6	14·5	0·0	+ 3·3	Calm	SW	0·0	0·0	0·0	55	0·00
30	..	30·124	85·3	57·8	68·5	62·0	105·1	52·8	70·0	66·7	6·5	16·3	1·9	+ 6·3	WSW	W; Calm	0·0	0·0	0·0	15	0·00
31	New	30·084	87·5	58·7	71·9	57·7	106·0	49·2	70·5	67·7	14·2	25·4	0·5	+ 9·9	Calm	SE	0·0	0·0	0·0	5	0·00
																				Sum	Sum
Means	..	29·831	73·3	52·4	61·1	54·2	94·7	47·2	66·7	63·9	6·9	14·4	2·8	— 0·9	...	...	..	..	..	2780	1·24

BAROMETER READINGS.

The absolute minimum in the month was 29in·187 on the 8th.

The first maximum in the month was 29in·988 on the 17th; the second minimum ,, was 29in·500 on the 24th.

The absolute maximum ,, 30in·142 on the 30th.

The range in the month was 0in·955.

The mean for the month was 29in·831, being 0in·039 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 87°·5 on the 31st; the lowest was 44°·0 on the 10th; and the range in the month was 43°·5.

The mean ,, of all the highest daily readings was 73°·3, being *the same* as the average of the preceding 16 years.

The mean ,, of all the lowest daily readings was 52°·4 being 0°·8 *lower* than the average of the preceding 16 years.

The mean daily range was 20°·9, being 0°·8 *higher* than the average of the preceding 16 years.

The mean for the month was 61°·1, being 0°·6 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
July 1	s	s : m	0 : 3, li.-cl	0
2	w	w	5	5, cu, ci.-s : 0
3	w	w	2, cu	6
4	w	w	0, li.-cl : 10	10 : 10, sl.-r
5	w	w	7	7, cu, li.-cl
6	w	w	8, cu, ci.-cu, ci.-s	7, cu, ci.-cu : 10, sl.-r
7	w	w	10 : 10, r, st.-w	10, oc.-r
8	s		10, r, sqs	10, r, sqs
9			10, sh.-r	7 : 10, sl.-r
10			3, li.-cl : 8	8, cu, li.-cl
11			10 : 10, m.-r	10, shs.-r
12			10	10, sl.-r : 7, ci.-s, t
13			10	10 : 10, sl.-r
14			10	10, s.-r : 0
15			10, sl.-r	5, cu, li.-cl : 5, cu, ci.-cu, l, t, hl, h.-r.
16			10, cu, st.-w	10 : 5, t, r : 0
17			7, cu, ci	7, cu : 0
18	w	w	10, sl.-r	10, sl.-r : 0
19	w	0	7, ci.-cu, ci, r	7, cu, li.-cl : 10
20	0	0	10, r	10, shs.-r
21	0	w	10, r	10
22	m	m	7, li.-cl, shs.-r	7 : 0
23	w	w	0 : 5, ci.-cu, li.-cl	7, cu : 10, l, t, r
24	w	w	10	10, cu, s : 7
25	w	w	7 : 6, cu, ci.-s	7
26	s	w	5, cu, li.-cl	7, cu, li.-cl : 10, sh.-r, t : 0
27	s	m	10, ci.-cu, ci.-s	10 : 10, r
28	0	w	10	10, cu, s : 8, cu.-s, ci.-s, l, r, t
29	m	m	5, f	6, cu, li.-cl : 0
30	s	m	10 : 0	0 : 10
31	w	w	0	0

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 67°·2 on the 31st; and the lowest was 43°·6 on the 8th.
The mean ,, was 54°·2, being 0°·4 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·421, being 0^{in}·006 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 4^{gr}·7, being 0^{gr}·1 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 78 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 529 grains, being 2 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·1.

WIND.

The proportions were of N. 4, S. 7, W. 17, and E. 3.

RAIN.

Fell on 13 days in the month, amounting to 0^{in}·9, as measured in the simple cylinder gauge partly sunk below the ground; being 1^{in}·8 *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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.
Aug. 1	..	30·012	85·8	57·0	71·9	61·6	108·2	51·0	71·2	68·3	10·3	20·9	1·1	+ 9·7	Calm ; NE	ESE	1·8	0·0	0·2	20	0·00
2	..	29·927	89·8	61·0	74·2	61·6	111·0	57·3	72·5	69·2	12·6	25·0	6·3	+12·0	E	SE	1·0	0·0	0·0	55	0·00
3	..	29·918	87·9	56·5	72·4	58·7	111·2	47·9	73·0	70·2	13·7	24·8	1·2	+10·3	ESE	SE	1·5	0·0	0·1	35	0·00
4	..	30·031	85·5	57·0	68·1	60·1	110·0	51·2	73·0	70·2	8·0	21·9	0·0	+ 6·0	Calm ; ENE	SE	0·0	0·0	0·0	5	0·00
5	In Equator. Apogee.	30·086	83·2	50·3	65·8	54·0	109·5	46·0	73·0	70·7	11·8	26·2	1·3	+ 3·7	SE ; Calm	Calm	0·0	0·0	0·0	5	0·00
6	..	29·995	79·5	49·8	63·1	53·0	105·0	40·2	73·0	70·5	10·1	25·3	0·4	+ 1·1	Calm	NE ; Calm	0·0	0·0	0·0	5	0·00
7	..	29·805	85·2	49·5	67·0	53·5	105·0	42·0	73·0	70·3	13·5	31·6	1·9	+ 5·0	Calm	Calm	0·0	0·0	0·0	20	0·00
8	..	29·542	72·3	51·5	61·9	56·4	99·6	43·8	72·5	70·3	5·5	13·7	2·9	0·0	S	SE	0·0	0·0	0·0	5	0·00
9	First Qr.	29·642	74·5	58·0	64·3	61·5	79·7	50·8	72·0	69·5	2·8	7·4	2·0	+ 2·5	SSW	S	3·0	0·0	0·3	140	0·21
10	..	29·703	83·0	59·0	69·3	64·3	102·0	35·0	71·5	68·9	5·0	11·9	1·5	+ 7·5	S	Calm	0·0	0·0	0·0	25	0·00
11	..	29·693	87·0	61·6	71·1	60·8	102·0	54·8	71·5	69·2	10·3	20·9	2·2	+ 9·4	Calm ; SW	SW	0·0	0·0	0·0	95	0·00
12	Greatest Declination S.	29·821	79·8	58·2	67·4	58·1	101·5	50·8	71·8	69·7	9·3	20·7	1·0	+ 5·8	SW	SW	3·0	0·0	0·4	115	0·00
13	..	29·811	84·8	55·7	68·5	55·6	105·5	49·0	72·0	69·7	12·9	19·5	0·0	+ 7·1	SW	SSW	1·0	0·0	0·1	70	0·00
14	..	29·743	77·5	59·0	64·4	57·7	103·0	53·3	72·0	69·7	6·7	19·4	3·4	+ 3·1	Calm ; SW	SW	2·5	0·0	0·3	195	0·40
15	..	29·809	76·5	56·5	64·9	55·0	100·5	51·7	71·5	68·9	9·9	20·2	2·8	+ 3·6	SW	W	3·5	0·0	0·5	80	0·00
16	Full	29·762	78·0	48·5	62·5	53·2	104·5	41·2	71·0	68·2	9·3	18·7	2·7	+ 1·4	Calm	Calm	0·0	0·0	0·0	50	0·00
17	..	29·355	71·8	57·0	59·8	58·5	79·8	55·0	69·4	66·7	1·3	2·7	0·6	— 1·2	ENE	NE	1·8	0·0	0·1	65	0·67
18	Perigee In Equator.	29·302	67·3	55·5	57·4	51·4	66·0	54·3	68·4	65·7	6·0	6·8	3·6	— 3·4	NE	NE	1·6	0·3	0·6	85	0·00
19	..	29·415	63·8	55·4	57·8	55·8	60·1	53·1	67·9	64·7	2·0	2·1	0·6	— 2·9	NNE	NE	0·0	0·0	0·0	..	0·16
20	..	29·363	66·5	55·0	59·3	56·7	70·0	51·4	66·9	63·5	2·6	7·3	0·8	— 1·3	ESE	SE	1·5	0·0	0·1	..	0·24
21	..	29·222	67·2	56·0	59·0	53·8	74·1	55·1	66·4	62·9	5·2	8·8	0·0	— 1·4	SSW	SSW	4·0	0·0	0·2	..	0·47
22	Last Qr.	29·618	69·5	53·8	58·6	52·1	87·0	52·2	65·9	62·2	6·5	8·6	5·3	— 1·7	NNE	N	3·3	0·0	0·3	..	0·00
23	..	30·017	63·5	45·0	53·0	46·2	73·5	35·2	65·7	61·9	6·8	11·2	4·0	— 7·2	NNW	Calm	3·5	0·0	0·2	..	0·00
24	..	29·963	70·2	51·0	59·4	54·3	90·1	45·0	64·5	61·7	5·1	11·0	4·9	— 0·6	SW	SW	0·0	0·0	2·0	..	0·00
25	Greatest Declination N.	29·794	65·5	56·0	60·2	57·3	71·0	51·3	64·4	61·7	2·9	5·6	1·5	+ 0·3	SW	SW	3·5	0·0	0·8	..	0·01
26	..	29·813	70·3	54·7	60·2	50·8	90·7	49·1	63·9	61·7	9·4	14·2	5·7	+ 0·4	NW	NW ; SW	2·5	0·0	0·3	..	0·02
27	..	29·672	75·5	56·0	64·3	57·0	96·0	54·8	63·7	61·7	7·3	12·4	6·3	+ 4·7	SW	W ; NW	2·4	0·0	0·4	..	0·00
28	..	29·658	70·9	54·0	61·0	55·6	85·0	51·0	63·7	61·2	5·4	9·4	3·0	+ 1·5	W	W	3·0	0·0	0·6	..	0·05
29	..	29·870	72·0	55·0	61·3	52·9	83·0	..	63·5	61·2	8·4	13·9	5·0	+ 2·0	W	W ; Calm	3·0	0·0	0·4	120	0·00
30	New	29·977	73·5	45·8	60·9	49·7	96·5	..	63·9	61·7	11·2	19·8	2·2	+ 1·7	Calm	SW	0·0	0·0	0·0	125	0·00
31	..	29·786	74·0	55·6	62·5	53·7	90·0	..	63·9	61·7	8·8	18·7	3·2	+ 3·5	SW	W ; Calm	0·0	0·0	0·0	55	0·01
Means	..	29·746	75·9	54·7	63·6	55·8	92·6	49·4	68·9	66·2	7·8	15·5	2·5	+ 2·7	...	...	..	..	..	Sum 1370	Sum 2·24

BAROMETER READINGS.

The first minimum in the month was 29in·914 on the 2nd.

The absolute maximum in the month was 30in·113 on the 5th; the second minimum ,, was 29in·502 on the 8th.

The second maximum ,, was 29in·855 on the 13th; the absolute minimum ,, was 29in·192 on the 21th.

The third maximum ,, was 30in·049 on the 30th.

The range in the month was 0in·921.

The mean for the month was 29in·746, being 0in·049 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 89°·8 on the 2nd; the lowest was 45°·0 on the 23rd; and the range in the month was 44°·8.

The mean ,, of all the highest daily readings was 75°·9, being 3°·5 *higher* than the average of the preceding 16 years.

The mean , of all the lowest daily readings was 54°·7, being 1°·4 *higher* than the average of the preceding 16 years.

The mean daily range was 21°·2, being 2°·1 *less* than the average of the preceding 16 years.

The mean for the month was 63°·6, being 2°·3 *higher* than the average of the preceding 16 years.

Whewell's Anemometer was under repair from August 19 to August 28.

MONTH and DAY, 1856.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Aug. 1	w	w	0	0
2	w	w	0	0
3	m	s	0	0
4	m	w	10 : 0	0
5	w	m	0	0
6	s	m : s	0	0 : 0, h
7	s	m	10, li.-cl.	0
8	s	s	10 : 10, shs.-r	10 : 10, shs.-r
9	s	m	10, fr.-h.-shs	10 : 0, st.-w, ms
10	w	m	10	10, ci.-cu, ci.-s : 10, l
11	s : w	m : s	4, ci	6, ci.-cu, ci : 10, shs.-r, t, l
12	m	m : s	7, cu	7, cu, ci.-cu, ci
13	m	m	5, li.-cl	5, cu, ci.-cu : 0, l
14	w	s, sps g cur	10, cu, ci.-cu, li.-cl, h-r	5, ci.-cu, r : 0, l
15	w	w	7	6, cu, ci.-cu, ci
16	s	s	5, ci, li.-cl	10 : 6, sh.-r, l
17	v	w	10, h.-shs, r, l, t	10, th.-r
18	w	w	10 : 10, sl.-r	10 : 7
19	w	0	10, r	10, r
20	0 : v	0	10, r	10, shs.-r : 7, st.-w
21	s N : w	w	10, h.-r	8, shs.-r : 0
22	s P, s N	s	9 : 10, sh.-r	10 : 8, l
23	s	m	10	3, li.-cl
24	s	s	8 ci.-cu	8 : 10, shs.-r
25	m	m	10	10, r
26	m : s N	w : s, sps	5, cu, li.-cl	5 : 10, shs.-r
27	s	w : s	10	7, cu, li.-cl
28	s	s : v	10	10 : 0
29	s	s	7, li.-cl	7, cu, ci.-s : 0, f
30	s	w : s	0	5, cu, ci.-cu : 0
31	s	s	7	10, cu, ci.-cu : 10, h.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 68°·4 on the 2nd; and the lowest was 45°·5 on the 23rd.
The mean ,, was 55°·8, being 1°·7 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·446$, being $0^{in}·023$ *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $4^{gr}·9$, being $0^{gr}·2$ *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 77 (that of Saturation being represented by 100), being 1 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 525 grains, being 3 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·2.

WIND.

The proportions were N. 5, S. 9, W. 10, and E. 7.

RAIN.

Fell on 10 days in the month, amounting to $2^{in}·4$ as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in}·1$ *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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.
Sept. 1	In Equator	29·666	69·8	48·0	57·9	48·4	89·8	..	63·9	61·7	9·5	18·7	2·3	— 1·0	Calm	Calm	0·0	0·0	0·0	50	0·02
2	Apogee	29·912	67·3	47·5	55·3	46·8	86·0	..	64·1	61·7	8·5	17·5	2·5	— 3·4	Calm ; N	Calm	0·0	0·0	0·0	80	0·06
3	..	30·142	67·4	43·8	55·9	47·3	82·0	..	63·9	61·7	8·6	17·1	4·2	— 2·6	Calm	Calm	0·0	0·0	0·0	55	0·00
4	..	30·018	71·0	46·7	57·5	47·1	93·5	..	63·9	61·7	10·4	22·7	3·2	— 0·9	Calm	SE; E	0·0	0·0	0·0	65	0·00
5	..	29·812	66·8	45·2	54·6	46·5	88·8	..	63·7	61·7	8·1	18·2	4·0	— 3·6	E	E	2·5	0·0	0·5	80	0·00
6	..	29·592	70·1	49·1	58·7	51·8	93·0	35·5	63·4	61·2	6·9	20·2	1·8	+ 0·7	E	SE	0·0	0·0	0·0	35	0·00
7	First Qr.	29·689	71·0	48·0	57·7	48·3	91·0	40·7	63·1	60·7	9·4	17·8	1·9	— 0·2	Calm	Calm	0·0	0·0	0·0	40	0·23
8	..	29·782	68·0	46·5	57·1	51·8	85·8	37·5	62·9	60·7	5·3	13·9	2·6	— 0·7	Calm	Calm	0·0	0·0	0·0	10	0·00
9	Greatest Declinaton S.	29·758	71·5	44·8	58·1	52·4	92·0	37·0	63·1	60·7	5·7	20·5	2·7	+ 0·6	SE	E	0·0	0·0	0·0	70	0·00
10	..	29·812	72·5	57·0	63·5	54·6	86·5	50·3	63·4	60·7	8·9	16·9	4·9	+ 6·1	E	ESE	0·0	0·0	0·0	50	0·00
11	..	30·003	71·2	56·2	61·3	53·6	84·0	49·5	63·4	60·7	7·7	13·7	4·6	+ 4·0	NE	NE	0·0	0·0	0·0	75	0·00
12	..	30·008	72·3	53·0	59·1	53·2	92·8	51·0	63·4	61·2	5·9	11·3	1·0	+ 2·1	NE	NE	0·0	0·0	0·0	25	0·05
13	..	29·913	64·7	51·0	54·1	47·8	81·0	49·0	63·4	..	6·3	12·4	1·4	— 2·7	Calm	N	0·0	0·0	0·0	125	0·13
14	Full	30·044	67·8	46·0	54·3	42·0	71·2	41·0	62·9	..	12·3	17·5	3·1	— 2·4	N	N	0·0	0·0	0·0	95	0·00
15	In Equator Perigee	30·044	70·0	45·2	57·0	49·6	75·0	37·1	62·4	..	7·4	14·9	6·6	+ 0·5	W	SW	2·0	0·0	0·2	220	0·00
16	..	30·016	67·0	52·4	57·7	44·7	86·0	43·1	61·9	..	13·0	20·0	6·6	+ 1·4	WSW ; NW	NW ; W	2·0	0·0	0·1	125	0·00
17	..	29·773	66·5	48·0	57·3	48·7	75·0	40·3	61·4	..	8·6	12·2	5·3	+ 1·2	WSW	WSW	4·0	0·0	0·5	85	0·06
18	..	29·733	63·5	48·0	52·8	45·7	70·0	49·9	61·4	..	7·1	15·2	3·4	— 3·1	N ; NW	NW	0·0	0·0	0·0	105	0·19
19	..	29·793	59·0	41·0	49·5	37·8	75·0	30·9	61·1	..	11·7	17·1	3·5	— 6·3	NW	NW	3·0	0·0	0·3	80	0·00
20	..	29·932	55·2	40·0	47·5	38·9	74·0	30·7	60·4	..	8·6	11·2	5·8	— 8·0	NW ; N	N	2·5	0·0	0·4	100	0·00
21	Last Qr.	29·773	62·0	40·0	51·0	42·9	84·0	29·0	59·9	..	8·1	18·8	3·2	— 4·4	SW	SW	2·5	0·0	0·2	150	0·20
22	Greatest Declination N.	29·263	63·7	48·0	54·7	47·6	73·0	38·8	58·7	..	7·1	16·7	4·4	— 0·6	SW	SW	4·0	0·0	0·7	215	0·20
23	..	29·072	65·5	48·6	54·5	46·3	79·5	41·2	57·9	55·3	8·2	16·0	3·2	— 0·5	SW	SW	3·0	0·0	0·4	175	0·02
24	..	29·029	62·2	49·0	53·6	47·6	70·0	40·3	57·9	55·2	6·0	11·0	1·2	— 1·2	SW	SW ; Calm	1·0	0·0	0·0	70	0·35
25	..	29·205	63·5	45·0	52·7	46·3	65·0	40·4	57·7	55·2	6·4	15·0	2·1	— 2·0	SW	W	3·0	0·0	0·5	140	0·02
26	..	29·425	62·0	44·0	52·6	45·2	60·0	33·5	57·4	54·7	7·4	16·3	0·8	— 1·8	W	SW ; SSE	0·0	0·0	0·0	155	0·18
27	..	28·922	54·8	49·9	51·1	49·0	58·5	46·0	56·9	54·7	2·1	4·0	0·0	— 3·2	SE	SSE	2·0	0·0	0·2	115	0·64
28	In Equator	28·765	58·0	48·5	51·1	47·6	68·0	45·8	56·9	54·5	3·5	5·6	1·1	— 2·9	S	SW	3·0	0·0	0·4	120	0·30
29	New Apogee.	29·134	60·5	48·6	53·0	47·9	70·0	44·0	56·9	54·7	5·1	8·0	2·9	— 0·8	SW	NW; SW	0·0	0·0	0·0	90	0·06
30	..	29·550	61·5	49·0	53·8	47·2	75·5	39·5	56·9	54·5	6·6	10·6	2·4	+ 0·3	WSW	W	0·0	0·0	0·0	25	0·10
																				Sum	Sum
Means	..	29·653	65·5	47·6	55·2	47·5	79·2	40·9	61·1	58·7	7·7	15·0	3·1	— 1·2	...	...	..	..	..	2825	2·81

BAROMETER READINGS.

The absolute maximum in the month was 30in·166 on the 3rd ; the second maximum ,, was 30in·103 on the 15th; the third maximum ,, was 29in·723 on the 20th.

The first minimum in the month was 29in·607 on the 1st.
The second minimum ,, was 29in·572 on the 6th.
The absolute minimum ,, was 28in·688 on the 28th.

The range in the month was 1in·478.

The mean for the month was 29in·683, being 0in·189 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 72°·5 on the 10th ; the lowest was 40°·0 on the 20th; and the range in the month was 32°·5

The mean ,, of all the highest daily readings was 65°·5, being 1°·8 *lower* than the average of the preceding 16 years.

The mean ,, of all the lowest daily readings was 47°·6, being 1°·0 *lower* than the average of the preceding 16 years.

The mean daily range was 17°·9, being 0°·7 *lower* than the average of the preceding 16 years.

The mean for the month was 55°·2, being 1°·5 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Sept. 1	s	wN:sN,sP,sps,gcur	5, li.-cl	5, cu, ci, li.-cl : 10, t.-s
2	w	w	10, cu, li.-cl : 3	3, cu : 0 : 0, f
3	m	w	7, f	7, li.-cl : 0
4	m	ss	7, ci.-cu, ci	7, cu, ci.-cu : 0
5	v	w	0 : 7	2, cu, ci.-cu : 0
6	s	m	7, cu, ci.-cu, li.-cl : 10	10 : 10, r
7	m	w	8, ci.-cu, ci.-s, n	3, cu, ci.-cu, ci
8	m	w	7, h	5, cu, ci.-cu : 10, s, h
9	m	m	7, f	7
10	s	s	10	10 : 8
11	v	v	10	10
12	m	v	7, cu, ci.-s	7 : 10, r
13	m	m	10, h.-r	10, cu, li.-cl : 0, lu.-co, lu.-ha.
14	s	w : s	5	5, cu, li.-cl : 0
15	s	ss	7, ci, li.-cl	7, cu, li.-cl
16	m	w : ss, sps	5, cu, li.-cl	10, cu, ci.-cu : 8, ci.-cu, ci.-s
17	s	s	10, ci.-cu	7 th.-r.
18	m	w	10, r	5, cu, li.-cl
19	s : w	w	0	7, cu, st.-w : 3, h
20			0 : 10	10
21			5, cu, ci.-cu : 10	10 : 5, r
22			0 : 10, h.-shs.-r	8, cu, ci.-cu, li.-cl, shs.-r : 0
23		s N, sps, g cur	5, li.-cl	10, r, t : 0
24			7, ci.-cu, s	10, r
25	w	ss, sps, g cur	4, ci.-cu, s, r	5, cu, r, t
26	v	v	0	10, cu, ci.-cu, s, shs.-r
27	s : w, N	s N, sps, g cur : w	10, r	10, r : 8
28	v	m	10, ci.-s, s, sc, h.-r	5, s, sc, r, st.-w
29	s	s	7, cu, r	10, ci.-cu, li.-cl, h.-r
30	s	s	5, li.-cl	10 : 10, h.-r

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 57°·5 on the 6th; and the lowest was 39°·8 on the 19th.
The mean ,, was 47°·5, being 3°·3 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in}·329$, being $0^{in}·051$ *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $3^{gr}·8$, being $0^{gr}·4$ *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 76 (that of Saturation being represented by 100), being 5 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 533 grains, being 1 grain *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 6·7.

WIND.

The proportions were of N. 7, S. 8, W. 9, and E. 7.

RAIN.

Fell on 17 days in the month, amounting to $2^{in}·8$, as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in}·7$ *greater* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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. 1	..	29·695	64·7	47·0	54·1	48·0	73·0	37·2	56·4	54·5	6·1	14·3	0·8	+ 0·8	SW	Calm ; S	0·0	0·0	0·0	30	0·01
2	..	29·665	66·0	48·0	56·5	50·9	82·8	40·8	56·4	54·5	5 6	14·3	2·0	+ 3·4	SE	S	1·0	0·0	0·0	75	0·00
3	..	29·680	64·7	54·0	58·6	53·3	75·4	48·5	57·4	54·9	5·3	9·9	4·8	+ 5·8	SSW	S	2·0	0·0	0·2	140	0·00
4	..	29·588	65·8	57·0	59·7	55·6	70·3	52·5	57·9	55·2	4·1	6·7	0·0	+ 7·1	SSW	SW	2·2	0·0	0·3	85	0·07
5	..	29·718	61·3	55·8	57·2	53·0	65·0	53·1	57·9	55·7	4·2	5·9	1·6	+ 4·8	SW	W ; SW	0·0	0·0	0·0	65	0·10
6	Greatest Declination S.	29·825	57·8	51·7	54·1	53·1	60·0	42·5	58·1	55·7	1·0	2·2	0·8	+ 1·8	Calm	Calm ; E	1·0	0·0	0·2	85	0·02
7	First Qr.	29·797	57·8	54·3	55·2	54·8	59·1	50·1	58·4	55·9	0·4	2·0	0·0	+ 3·2	ESE	Calm	1·5	0·0	0·6	5	0·05
8	..	29·832	56·8	52·0	53·8	52·2	58·0	51·8	58·1	55·7	1·6	3·8	1·0	+ 2·0	Calm	NNE	0·0	0·0	0·0	55	0·33
9	..	30·053	56·2	50·0	51·8	49·4	60·5	47·2	57·9	55·7	2·4	4·0	0·8	+ 0·3	N	Calm	0·0	0·0	0·0	5	0·00
10	..	30·083	61·8	50·0	53·5	49·9	67·0	50·1	57·9	55·5	3·6	7·2	0·0	+ 2·2	Calm	Calm	0·0	0·0	0·0	10	0·00
11	..	29·871	59·8	49·0	54·5	54·1	60·0	40·0	57·4	54·9	0·4	1·0	0·0	+ 3·5	NE	Calm	0·0	0·0	0·0	5	0·30
12	In Equator	29·990	64·0	53·5	56·5	55·3	70·5	51·0	57·7	54·9	1·2	3·2	0·4	+ 5·7	Calm	Calm	0·0	0·0	0·0	0	0·00
13	Full. Perigee	30·054	62·7	48·1	54·3	53·9	75·5	38·7	57·5	54·7	0·4	4·4	0·0	+ 3·7	Calm	Calm	0·0	0·0	0·0	15	0·00
14	..	29·727	59·8	47·4	52·8	51·9	65·0	40·1	57·4	54·5	0·9	4·2	0·6	+ 2·4	E ; SE	SE	0·0	0 0	0·0	90	0·00
15	..	29·360	59·0	49·9	51·6	48·6	71·0	42·1	57·4	54·2	3·0	3·4	2·0	+ 1·4	SW	W	3·0	0·3	1·0	200	0·30
16	..	30·000	57·2	48·5	52·2	50·0	64·7	44·0	57·1	54·2	2·2	6·5	1·8	+ 2·3	NW	W	1·6	0·0	0·2	90	0·06
17	..	30·217	61·8	47·0	53·1	48·2	74·1	39·9	56·4	53·7	4·9	10·5	0·6	+ 3·3	Calm ; W	W ; Calm	0·0	0·0	0·0	30	0·00
18	Greatest Declination N.	30·209	59·0	45·0	50·8	45·7	75·0	46·0	55·9	53·7	5·1	9·9	0·0	+ 1·3	Calm	Calm	0·0	0·0	0·0	10	0·00
19	..	30·154	64·7	39·0	49·9	49·3	79·3	39·8	55·9	53·2	0·6	7·3	0·0	+ 0·6	ENE	ENE	0·5	0·0	0·0	45	0·00
20	Last Qr.	30·053	63·0	45·5	52·3	48·9	79·0	45·4	55·7	53·2	3·4	9·1	0·0	+ 3·3	ENE	Calm	0·0	0·0	0·0	35	0·00
21	..	30·124	63·5	44·0	53·7	50·4	82·0	35·2	55·7	53·2	3·3	10·1	0·5	+ 4·9	E	SE	0·0	0·0	0·0	25	0·00
22	..	30·211	66·2	43·3	53·9	50·3	82·0	33·5	55·4	53·2	3·6	12·2	0·4	+ 5·2	SE ; S	Calm	0·0	0·0	0·0	60	0·00
23	..	30·221	60·0	50·7	53·8	52·9	63·6	41·8	55·1	53·2	0·9	2·9	0·0	+ 5·4	NE	ENE	0·0	0·0	0·0	20	0·00
24	..	30·345	60·7	36·5	48·4	45·0	73·4	47·1	55·1	53·2	3·4	7·2	0·6	+ 0·2	NE ; Calm	Calm ; ESE	0·0	0·0	0·0	..	0·00
25	..	30·346	56·5	41·1	46·7	39·4	60·0	32·1	54·9	52·2	7·3	11·0	3·0	— 1·2	Calm	ENE	0·0	0·0	0·0	..	0·00
26	In Equator	30·291	55·0	32·7	42·0	40·7	67·0	24·5	54·9	51·7	1·3	10·0	0·7	— 5·7	Calm	NE ; Calm	0·0	0·0	0·0	20	0·00
27	Apogee	30·233	56·2	35·1	44·6	41·5	70·1	25·8	53·5	50·0	3·1	10·0	0·0	— 2·9	Calm ; NE	NE ; Calm	0·0	0·0	0·0	30	0·00
28	New	30·191	52·5	32·0	40·0	39·6	62·3	24·5	52·5	49·2	0·4	5·8	0·0	— 7·3	Calm	Calm	0·0	0·0	0·0	5	0·00
29	..	30·110	48·0	31·4	37·6	37·4	57·2	24·0	52·5	49·2	0·2	2·0	0·0	— 9·4	Calm	Calm	0·0	0·0	0·0	15	0·00
30	..	30·055	56·7	33·8	46·2	45·6	68·3	26·3	51·5	48·7	0·6	7·6	0·8	— 0·6	SW	NW ; Calm	1·0	0·0	0·0	125	0·00
31	..	30·034	56·7	45·6	52·2	51·6	56·8	33·1	51·5	49·6	0·6	2·6	0·2	+ 5·7	Calm	Calm	0·0	0·0	0·0	50	0·34
Means	..	29·991	59·9	45·8	51·7	49·0	68·6	40·3	56·0	53·5	2·6	6·8	0·7	+ 1·7	...	...	..	..	..	Sum 1425	Sum 1·58

BAROMETER READINGS.

The first minimum in the month was 29in·558 on the 4th.

The first maximum in the month was 30in·116 on the 10th; the absolute minimum ,, was 29in·255 on the 15th.

The absolute maximum ,, was 30in·371 on the 24th; the third minimum ,, was 29in·992 on the 31st.

The range in the month was 1in·138.

The mean for the month was 29in·991, being 0in·310 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 66°·2 on the 22nd; the lowest was 31°·4 on the 29th; and the range in the month was 34°·8.

The mean ,, of all the highest daily readings was 59°·9, being 2°·0 *higher* than the average of the preceding 16 years.

The mean ,, of all the lowest daily readings was 45°8, being 2°·4 *higher* than the average of the preceding 16 years.

The mean daily range was 14°·1, being 0°·5 *lower* than the average of the preceding 16 years.

The mean for the month was 51°·7, being 1°·7 *higher* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.			
	A.M.	P.M.	A.M.		P.M.	
Oct. 1	s	s	10, h.-r	: 5, cu, ci.-cu	5, ci.-cu, ci.-s	
2	s	o	5, ci.-cu	: 10	5, li.-cl	: 10, m.-r
3	w	o	10	: 10, shs.-r	5, cu, ci.-cu	
4	o	o	10, r, st.-w		10	: 10, f.-r
5	o	o	10, r		10	: 10, shs.-r, l
6			10, f	: 10, r	10	: 10, st.-w
7			10, m.-r		10, th.-r, f	
8			10, r		10, r	
9			10		10	
10			10, cu, li.-cl	: 5	5	: 5, ci.-s, li.-cl
11			10, r		10	: 10, oc. r
12			10, h.-r	: 10	10	: 10, f, li.-cl
13		: w	10, f		5, cu, ci.-cu, li.-cl	: o
14	o	w	10		10	: 10, st.-w, r
15	w : s	o	10, v, r	: 10	10, h.-r	
16			10	: 10, th.-r	10, r	: 10, f
17	: w	m : o	5, li.-cl		10, cu, ci.-eu, li. cl	
18	o	o	5, ci.-cu, li.-cl		5, li.-cl	: o, f
19	o	m	o, f		5, cu, li.-cl, v	: o
20	w : m	m	10		2, li.-cl	: o, f
21			10, v		7, li.-cl	: o
22		w	o	: 7	5, ci.-cu, ci	: o, ms
23			10, f		10, f	
24		w : s	10		10	
25	m	o	10		7, ci.-cu	: o
26	m	w	5, f		8, ci.-cu	: o
27	w	w	4, li.-cl		4, li.-cl	: o
		o				
28	o	o	10, th.-f	: o	o	: 10, th.-f
29	w	w : o	10, th.-f		10, th.-f	
30	o	o	7		7, cu, li.-cl	: o
31	o	o	10, r		10, r	

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 58°·0 on the 11th; and the lowest was 35°·8 on the 28th.

The mean ,, was 49°·0, being 3°·5 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was 0^{in}·348, being 0^{in}·042 *greater* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was 3^{gr}·9, being 0^{gr}·4 *greater* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 91 (that of Saturation being represented by 100), being 5 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 543 grains, being 4 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0, and a cloudy sky by 10, was 7·3.

WIND.

The proportions were of N. 4, S. 9, W. 9, and E. 9.

RAIN.

Fell on 10 days in the month, amounting to 1^{in}·6, as measured in the simple cylinder gauge partly sunk below the ground; being 1^{in}·7 *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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.
Nov. 1	..	30·245	53·7	46·0	49·6	48·8	67·3	47·9	51·5	49·2	0·8	2·4	0·8	+ 3·1	Calm	Calm	0·0	0·0	0·0	..	0·00
2	Greatest Declination S.	30·157	57·7	47·0	50·7	45·5	70·0	44·0	51·5	49·6	5·2	9·4	1·5	+ 4·6	Calm	Calm	0·0	0·0	0·0	15	0·00
3	..	30·093	53·0	40·0	44·8	40·8	..	34·8	51·0	49·7	4·0	9·8	0·2	— 1·1	SW	SW	0·0	0·0	0·0	25	0·00
4	..	30·133	51·8	36·7	43·1	41·4	..	28·0	51·5	49·2	1·7	5·4	0·0	— 2·6	WSW	NE	0·0	0·0	0·0	10	0·01
5	First Qr.	30·293	50·5	37·0	42·5	37·3	..	30·1	50·0	48·8	5·2	9·9	0·2	— 2·9	NE	E	0·0	0·0	0·0	35	0·01
6	..	30·388	49·0	29·0	37·7	33·2	..	18·4	49·5	47·9	4·5	10·3	1·1	— 7·5	E	E	2·0	0·0	0·1	35	0·00
7	..	30·455	48·6	34·0	42·8	42·0	50·0	22·6	50·5	48·3	0·8	4·2	0·0	— 2·1	ENE	NE	0·0	0·0	0·0	25	0·00
8	..	30·135	46·2	40·2	42·4	38·8	46·0	34·0	49·1	47·1	3·6	4·6	2·2	— 2·4	Calm	N	0·0	0·0	0·0	15	0 21
9	In Equator	29·895	49·8	34·9	41·9	40·6	53·0	24·0	48·5	46·1	1·3	5·5	0·0	— 2·6	NW	W	0·0	0·0	0·0	115	0·00
10	..	29·356	45·8	35·6	38·5	32·7	53·8	27·2	48·0	45·5	5·8	8·1	1·2	— 5·8	W; N	N	0·0	0·0	0·0	215	0·04
11	Perigee	29·253	43·0	30·6	36·7	32·8	48·0	22·1	46·7	44·6	3·9	9·7	0·8	— 7·3	NNW	NNE	4·0	0·0	0·4	185	0·04
12	Full	29·600	43·8	34·7	39·1	34·1	51·8	28·2	45·5	44·1	5·0	7·6	5·0	— 4·6	NE	NE; N	3·0	0·0	1·0	190	0·01
13	..	29·741	43·2	35·7	39·4	33·1	47·0	32·2	45·5	43·7	6·3	8·6	4·6	— 4·0	N	W	0·0	0·0	0·0	130	0·00
14	..	29·804	43·6	33·2	36·3	25·7	50·0	28·1	44·7	43·0	10·6	11·3	8·4	— 6·9	NNE	N	2·0	0·0	0·1	135	0·00
15	Greatest Declination N.	29·895	42·3	29·0	36·2	33·3	47·8	19·8	43·7	42·1	2·9	6·7	1·3	— 6·7	NNW	W	0·0	0·0	0·0	105	0·03
16	..	30·100	42·9	30·2	35·1	32·6	57·2	20·5	43·5	41·7	2·5	4·8	0·0	— 7·7	N; Calm	Calm	0·0	0·0	0·0	5	0·00
17	..	30·029	42·2	23·8	34·8	34·8	44·0	16·0	43·0	42·5	0·0	1·3	0·0	— 7·6	Calm	SSW	0·0	0·0	0·0	50	0·00
18	..	29·997	48·5	32·3	41·0	40·3	54·0	32·9	42·5	39·4	0·7	5·5	0·2	— 1·4	SW	N	0·0	0·0	0·0	50	0·00
19	Last Qr.	29·944	49·5	34·9	42·1	41·6	50·4	30·0	42·5	41·6	0·5	5·0	0·2	— 0·1	NW; SW	NW	0·0	0·0	0·0	115	0·15
20	..	29·908	51·4	38·9	46·7	42·9	51·2	32·2	42·7	42·1	3·8	6·4	3·2	+ 4·7	NW	N	2·0	0·0	0·1	120	0·00
21	..	30·114	51·3	43·1	46·4	44·6	52·0	33·2	42·7	42·6	1·8	3·2	1·0	+ 4·5	N	Calm	0·0	0·0	0·0	45	0·00
22	In Equator	30·082	52·6	45.4	49·8	44·0	54·6	40·7	43·5	43·0	5·8	8·0	4·6	+ 8·0	NW	NW	0·0	0·0	0·0	160	0·00
23	Apogee	29·932	58·0	47·0	51·7	47·3	64·5	35·0	45·0	43·7	4·4	8·4	2·3	+10·0	W	WNW	3·0	0·0	0·2	240	0·00
24	..	29·698	55·2	43·0	48·8	41·5	57·0	43·5	45·3	44·1	7·3	11·6	5·2	+ 7·2	WNW	NW	7·0	0·0	2·0	225	0·00
25	..	29·911	40·0	33·0	34·6	24·8	52·5	30·0	45·5	44·6	9·8	12·5	7·3	— 7·1	NNW; NNE	N; Calm	4·0	0·0	0·4	55	0·00
26	..	29·483	40·0	28·9	35·0	34·3	40·0	25·5	45·3	43·7	0·7	0·3	0·0	— 6·8	Calm; S	Calm	0·0	0·0	0·0	95	0·47
27	New	29·530	48·0	35·3	40·7	38·9	53·2	30·9	44·5	43·4	1·8	3·8	0·9	— 1·2	W	NW	0·0	0·0	0·0	115	0·05
28	..	29·588	40·0	30·8	35·2	28·7	42·2	30·4	44·5	43·0	6·5	9·0	4·6	— 6·7	W	NE	0·0	0·0	0·0	30	0·00
29	Greatest Declination S.	29·600	36·0	24·3	29·3	26·0	36·0	13·0	44·0	42·3	3·3	7·2	1·0	—12·6	NW	NW	0·0	0·0	0·0	105	0·00
30	..	29·701	34·9	19·4	28·5	22·7	38·1	9·5	42·5	40·3	5·8	8·9	3·8	—13·3	NW	N	3·0	0·0	0·2	90	0·00
																				Sum	Sum
Means	..	29·902	47·1	35·1	40·7	36·8	51·1	28·8	46·1	44·6	3·9	7·0	2·0	— 2·7	...	...	..	..	..	2735	1·02

BAROMETER READINGS.

The first maximum in the month was 30in·266 on the 1st; the first minimum in the month was 30in·074 on the 3rd.
The absolute maximum ,, was 30in·476 on the 7th; the absolute minimum ,, was 29in·220 on the 11th.
The third maximum ,, was 30in·140 on the 16th; the third minimum ,, was 29in·444 on the 26th.
The range in the month was 1in·256.
The mean for the month was 29in·902, being 0in·157 *higher* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·0 on the 23rd; the lowest was 19°·4 on the 30th; and the range in the month was 38°·6.
The mean ,, of all the highest daily readings was 47°·1, being 2°·4 *lower* than the average of the preceding 16 years.
The mean ,, of all the lowest daily readings was 35°·1, being 3°·0 *lower* than the average of the preceding 16 years.
The mean daily range was 12°·0, being 0°·6 *higher* than the average of the preceding 16 years.
The mean for the month was 40°·7, being 2°·9 *lower* than the average of the preceding 16 years.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Nov. 1	m	w	10, h	10, h : 10, f
2	s	s	0, h	7, ci.-cu : 0, h
3	s	v	10	10
4	m	m : o	10, li.-cl, h	10, th.-f : 10, f, r
5	w : s	s	10, cu, li.-cl, sh.-r	5, li, cl : 5, ci.-cu, ci.-s
6	s	s	4, ci, li.-cl	4, s, ci, li.-cl
7	w	w	10, r	10 : 10, f
8	w	w	10, li.-cl, h, f	10, r : 10, v
9	o	o	10, th.-f	10, f
10	w	m	9, h.-r, s	9
11	w	m	10 : 5	10, r
12	w	m	7, cu, li.-cl	7, cu : 10, r
13	w	: m	7, ci.-cu, li.-cl	10, f
14	w	o : w	0, h	0
15	w	o : s N, sps, g cur	5, ci.-cu	5, ci.-cu, li.-cl : 10, h.-r
16	s	m	1, li.-cl, f	0, f
17	s	ss, sps, g cur	10	10, f : 10, th.-f
18	ss, sps, g cur	s	10, r, f	v, m.-r : 10, f
19	m	s	10, r	8, th.-r : 2, f
20	o	o	10, f	10 : 10, v
21	ss	ss	10, f, sl.-r	10, th.-f
22	s	m	10, f	10
23	s	m	10	10
24	s	s	10	10, v, li.-cl : 7, r
25	s	s	10	0 : 10 f
26	o	m	10, r, sn, f	10, oc.-r
27	s	s	10	10, h.-r : 0, h
28	ss, sps, g cur	ss, sps, g cur	10	10
29	ss, sps, g cur	ss, sps, g cur	5	0, : 10, f
30	s, sps	s, sps	3, ci.-cu, ci.-s, s	3, ci.-cu, s : 0, f

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 50°·3 on the 1st; and the lowest was 21°·9 on the 30th.
The mean ,, was 36°·8, being 3°·5 *lower* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in.}·218$, being $0^{in.}·040$ *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr.}·5$, being $0^{gr.}·4$ *less* than the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 86 (that of Saturation being represented by 100), being 2 *less* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 554 grains, being 7 grains *greater* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·5.

WIND.

The proportions were of N. 14, S. 2, W. 10, and E. 5.

RAIN.

Fell on 10 days in the month, amounting to $1^{in.}·0$, as measured in the simple cylinder gauge partly sunk below the ground; being $1^{in.}·3$ *less* than the average fall of the preceding 16 years.

MONTH and DAY, 1856.	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.
Dec. 1	..	29·805	34·8	22·8	29·1	25·4	37·0	13·7	40·5	38·6	3·7	5·9	2·3	−12·6	N	NW	0·0	0·0	0·0	55	0·00
2	..	29·831	32·2	20·5	27·7	23·7	33·0	11·3	38·0	38·0	4·0	7·2	2·5	−13·9	W	SW	..	..	..	60	0·00
3	..	29·697	38·0	24·0	31·3	30·4	39·5	17·0	38·5	37·5	0·9	6·2	0·3	−10·2	SW	NE	..	..	..	15	0·15
4	..	29·900	39·8	25·5	31·9	31·9	39·8	20·5	38·5	37·1	0·0	1·7	0·3	− 9·5	Calm	Calm ; S	..	..	..	90	0·10
5	First Qr.	29·423	54·5	37·1	47·6	47·0	55·0	28·5	40·0	37·5	0·6	2·6	0·4	+ 6·3	SE	SW	..	..	..	300	0·00
6	In Equator	29·370	56·0	45·7	52·2	48·0	56·0	40·2	42·5	40·3	4·2	6·4	2·8	+11·1	SW	SW	..	..	..	435	0·05
7	..	29·439	58·9	50·0	56·0	50·1	58·0	46·4	45·5	42·9	5·9	9·5	3·9	+15·0	SW	SW	..	..	..	380	0·04
8	..	29·411	58·4	52·0	55·3	48·6	54·2	47·0	47·5	44·0	6·7	9·1	5·2	+14·5	SW	S	..	..	..	300	0·00
9	Perigee	29·274	58·8	51·5	55·1	47·1	58·5	46·5	49·0	45·7	8·0	11·2	4·8	+14·3	SW ; S	SW	11·0	..	..	300	0·03
10	..	29·209	55·9	49·0	51·9	48·0	58·0	45·1	49·5	45·7	3·9	6·0	1·6	+11·3	SW	SW	5·0	0·0	1·3	195	0·14
11	Full	29·336	52·0	44·8	47·3	44·1	56·0	39·7	49·5	46·9	3·2	5·5	0·0	+ 6·8	SW ; W	SW ; S	3·0	0·0	0·2	215	0·15
12	Greatest Declination N.	29·067	53·3	44·2	48·7	43·8	58·0	38·9	49·5	46·6	4·9	6·8	4·0	+ 8·4	SW	SW	7·5	0·0	1·5	235	0·35
13	..	28·798	47·8	41·6	44·4	41·6	50·7	34·2	49·1	46·4	2·8	3·6	0·9	+ 4·2	SW	SW	2·0	0·0	0·1	130	0·07
14	..	29·562	47·0	41·0	43·4	39·8	49·5	32·0	48·3	45·5	3·6	4·8	2·6	+ 3·4	N	N	0·0	0·0	0·0	110	0·00
15	..	30·235	44·2	33·8	37·1	32·6	45·8	26·5	46·5	43·9	4·6	6·2	1·2	− 2·7	N	NNE	0·0	0·0	0·0	35	0·00
16	..	30·444	37·2	24·3	30·5	29·5	38·7	15·3	44·5	42·1	1·0	3·8	0·0	− 9·1	Calm	Calm	0·0	0·0	0·0	5	0·00
17	..	30·240	40·8	24·0	34·3	34·3	39·3	17·0	43·7	42·1	0·0	2·0	0·0	− 5·1	Calm	WSW	0·0	0·0	0·0	85	0·01
18	..	29·792	48·0	40·0	44·4	43·8	50·0	25·0	43·5	41·6	0·6	1·7	0·2	+ 5·1	SW	NNE	2·0	0·0	0·1	105	0·02
19	Last Quarter in Equator	30·284	46·0	36·0	38·6	35·1	47·8	28·0	43·5	41·1	3·5	5·7	1·0	− 0·5	NNE	Calm	1·5	0·0	0·0	70	0·00
20	..	30·342	46·8	37·8	43·6	40·7	46·1	27·9	43·5	41·3	2·9	3·5	2·6	+ 4·7	W	W	0·0	0·0	0·0	110	0·00
21	Apogee	30·287	46·5	42·7	44·1	38·9	46·5	40·0	41·5	40·3	5·2	5·7	3·7	+ 5·4	W	W	0·0	0·0	0·0	160	0·00
22	..	29·898	46·0	41·9	44·1	39·7	47·0	42·2	41·5	40·7	4·4	5·9	3·1	+ 5·6	W	W	0·0	0·0	0·0	130	0·00
23	..	29·893	45·3	32·0	36·0	32·2	45·6	30·7	41·5	41·1	3·8	4·6	0·7	− 2·4	NNE	Calm	0·0	0·0	0·0	50	0·00
24	..	29·103	43·7	31·8	37·9	36·2	46·0	24·2	41·0	40·7	1·7	6·8	0·5	− 0·3	SW	W	0·0	0·0	0·0	95	0·13
25	..	28·763	31·2	26·5	28·2	27·4	33·0	16·8	41·0	40·5	0·8	1·0	0·0	− 9·8	W ; Calm	NE	0·0	0·0	0·0	5	0·00
26	..	28·798	33·5	24·6	30·4	30·0	36·0	16·7	40·5	39·8	0·4	1·3	0·0	− 7·4	Calm	N	0·0	0·0	0·0	70	0·00
27	Greatest Dec. S. New	29·194	34·2	26·0	29·2	25·7	35·0	19·8	39·5	38·4	3·5	5·6	1·3	− 8·4	NW	NW ; Calm	1·5	0·0	0·0	20	0·00
28	..	29·516	31·5	18·5	25·7	24·5	32·0	18·0	39·3	37·4	1·2	5·9	0·8	−11·3	Calm	WSW	0·0	0·0	0·0	65	0·00
29	..	29·965	39·5	25·4	33·2	29·8	39·8	15·1	39·5	37·4	3·4	5·9	2·3	− 4·1	SW	W	0·0	0·0	0·0	170	0·00
30	..	30·081	46·5	35·5	42·1	41·9	46·5	21·7	38·5	36·9	0·2	1·8	0·0	+ 4·7	W	WSW	0·0	0·0	0·0	150	0·08
31	..	30·077	49·0	43·0	46·3	42·6	50·0	33·0	39·1	37·4	3·7	5·7	2·0	+ 8·7	WSW	WSW	0·0	0·0	0·0	200	0·00
Means	..	29·645	45·1	35·3	40·2	37·2	46·1	28·3	43·0	41·1	3·0	5·1	1·6	+ 0·7	...	...	..	..	..	Sum 4345	Sum 1·32

BAROMETER READINGS.

The first maximum in the month was 29in·960 on the 4th; the absolute minimum in the month was 28in·733 on the 13th.
The absolute maximum ,, was 30in·475 on the 16th; the second minimum ,, was 28in·749 on the 26th.
The third maximum ,, was 30in·126 on the 31st.
The range in the month was 1in·742
The mean for the month was 29in·645, being 0in·171 *lower* than the average of the preceding 16 years.

TEMPERATURE OF THE AIR.

The highest in the month was 58°·9 on the 7th; the lowest was 18°·5 on the 28th; and the range in the month was 40°·4.
The mean ,, of all the highest daily readings was 45°·1, being *the same* as the average of the preceding 16 years.
The mean ,, of all the lowest daily readings was 35°·3, being 0°·3 *lower* than the average of the preceding 16 years.
The mean daily range was 9°·8, being 0°·4 *greater* than the average of the preceding 16 years.
The mean for the month was 40°·2, being *the same* as the average of the preceding 16 years.

Osler's Anemometer. The pressure apparatus was under repair from December 2 to December 9.

MONTH and DAY, 1856.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 1	ss, sps, g cur	ss, sps, g cur	7, ci.-cu, li.-cl : o	7, li.-cl : o
2	ss, sps, g cur	ss, sps, g cur	10	2 : 10
3	o	o	10, sn, r	10, sn, r : o, f
4	ss, sps, g cur	ss, sps, g cur	10, cu, ci.-cu, li.-cl	10 : 10, r
5	o	m	10, m.-r	10, r, f : 10, sqs, w, r
6	m	s	10	10, h.-r, st.-w
7	m	m	10, r, st.-w	10, h.-sqs, oc.-r : 5, st.-w, lu.-ha
8	m	m	10, st.-w	10 : 10, h.-sqs, r
9	m	m	7	10, st.-w
10	m	m	10	7 : 10, r
11	m	m	v, oc.-r	o : 10, r
12	s	s	o	10, ci, r : 10, h.-r
13	s, sps	s, sps	10, r	10 : 7, f
14	s	s	o, h	o : 10
15	ss, g cur	ss, sps, g cur	5, li.-cl	5, li.-cl
16	s	ss, sps, g cur	10, th.-f	3, li. cl : o, f
17	ss, g cur	ss, g cur	10, li.-cl	10
18	m	m	10, r	10 : 10, m.-r
19	ss, g cur	v : ss, g cur	o, h	v, h : f
20	s	s	10, f	10 : o
21	s	s	10	10
22	s	s, g cur	10	10
23	s	ss, g cur	10	7, li.-cl : 10
24	ss, g cur	ss, g cur	10, r : 5	5, li.-cl : o, f, r
25	s	s : ss, g cur	7, f	7 : o, h
26	s	ss, g cur	10, cu, ci.-cu, li.-cl	10 : o
27	ss, g cur	ss, g cur	7 sn	7 : o
28	ss, sps, g cur	ss, sps, g cur	o, f, h.-f	5 : o, h
29	ss, g cur	ss, g cur	7, li.-cl	10
30	s	s	10, r	10
31	s	s	o	10

HUMIDITY OF THE AIR.

Temperature of the Dew Point.

The highest in the month was 52°·6 on the 6th; and the lowest was 16°·8 on the 28th.

The mean ,, was 37°·2, being 0°·3 *higher* than the average of the preceding 16 years.

Elastic Force of Vapour.—The mean for the month was $0^{in.}·222$, being $0^{in.}·004$ *less* than the average of the preceding 16 years.

Weight of Vapour in a Cubic Foot of Air.—The mean for the month was $2^{gr.}·6$, being the same as the average of the preceding 16 years.

Degree of Humidity.—The mean for the month was 90 (that of Saturation being represented by 100), being 2 *greater* than the average of the preceding 16 years.

Weight of a Cubic Foot of Air.—The mean for the month was 550 grains, being 2 grains *less* than the average of the preceding 16 years.

CLOUDS.

The mean amount for the month, a clear sky being represented by 0 and a cloudy sky by 10, was 7·4.

WIND.

The proportions were of N. 7, S. 9, W. 14, and E. 1.

RAIN.

Fell on 13 days in the month, amounting to $1^{in.}·3$, as measured in the simple cylinder gauge partly sunk below the ground; being $0^{in.}·2$ *less* than the average fall of the preceding 16 years.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Aug. 24. 12	29·927	58·2	57·5	57·0	·465	5·2	0·3	95	534	WSW	0·0	4	..
13	29·927	57·6	57·3	57·0	·465	5·2	0·1	98	534	WSW	0·0	8	..
14	29·921	57·6	57·3	57·0	·465	5·2	0·1	98	534	WSW	0·0	9	..
15	29·910	57·8	57·3	56·8	·462	5·2	0·2	97	534	WSW	0·0	10	..
16	29·905	57·8	57·8	57·8	·479	5·3	0·0	100	534	WSW	0·0	9	..
17	29·904	56·1	55·5	55·0	·433	4·9	0·1	96	536	SW	0·0	8	..
18	29·905	56·2	55·4	54·7	·431	4·8	0·3	94	536	SW	0·0	9	..
19	29·893	58·1	56·5	55·1	·434	4·9	0·6	90	534	SW	0·0	10	..
20	29·882	60·3	58·4	56·8	·462	5·2	0·6	88	531	SW	0·0	10	..
21	29·867	62·7	59·8	57·3	·470	5·3	1·1	82	528	SW	1·0	10	..
22	29·860	62·5	60·0	57·9	·480	5·3	1·0	85	528	SW	1·8	10	..
23	29·852	62·6	60·3	58·3	·487	5·4	0·9	86	528	SW	1·8	10	..
Aug. 25. 0	29·833	63·3	61·2	59·5	·509	5·6	0·8	88	527	SW	1·0	10	..
1	29·818	64·1	61·7	59·7	·512	5·6	1·0	85	526	SW	1·2	10	..
2	29·803	63·8	61·5	59·6	·511	5·6	0·9	87	526	SW	2·0	10	..
3	29·791	62·8	61·3	60·0	·518	5·7	0·6	91	526	SW	0·6	10	..
4	29·766	62·9	60·5	58·6	·492	5·4	1·0	86	526	SW	2·1	10	..
5	29·741	63·7	61·1	58·9	·498	5·4	1·1	85	525	SW	2·1	10	..
6	29·737	62·8	60·3	58·3	·487	5·3	1·0	85	526	SW	2·0	10	..
7	29·717	62·3	60·2	58·5	·491	5·4	0·8	88	526	SW	1·8	10	..
8	29·707	62·1	60·3	58·8	·496	5·5	0·7	89	526	SW	1·5	10	..
9	29·699	61·7	60·6	59·6	·507	5·7	0·5	93	526	SW	1·8	10	..
10	29·703	60·2	60·2	60·2	·522	5·8	0·0	100	527	SW	0·0	10	..
11	29·695	60·7	60·7	60·7	·531	5·9	0·0	100	527	WSW	0·0	10	..
Aug. 31. 12	29·767	55·4	54·5	53·6	·412	4·7	0·3	94	533	Calm	0·0	10	0
13	29·763	53·9	53·7	53·4	·409	4·6	0·2	98	536	Calm	0·0	9	0
14	29·759	52·9	52·8	52·7	·399	4·4	0·0	99	537	Calm	0·0	0	0
15	29·762	51·7	51·7	51·7	·384	4·3	0·0	100	538	Calm	0·0	0	0
16	29·754	49·5	49·5	49·5	·355	4·1	0·0	100	540	Calm	0·0	0	0
17	29·749	48·3	48·3	48·3	·339	3·8	0·0	100	542	Calm	0·0	0	0
18	29·745	48·4	48·4	48·4	·340	3·8	0·0	100	542	Calm	0·0	6	4
19	29·744	51·6	51·5	51·4	·379	4·3	0·0	99	538	Calm	0·0	7	2
20	29·752	56·1	52·7	49·4	·356	4·0	1·0	78	533	Calm	0·0	4	0
21	29·729	61·2	56·2	51·7	·384	4·3	1·8	72	528	Calm	0·0	6	0
22	29·722	61·7	55·7	49·6	·356	4·1	2·1	68	528	Calm	0·0	7	0
23	29·708	66·2	57·0	49·4	·356	3·9	3·2	55	523	Calm	0·0	8	2
Sept. 1. 0	29·696	67·4	57·7	50·1	·362	4·0	3·4	53	521	Calm	0·0	8	0
1	29·625	66·9	58·4	51·6	·382	4·2	3·1	58	520	Calm	0·0	8	0
2	29·655	65·7	57·5	50·8	·371	4·1	2·8	57	522	Calm	0·0	9	1
3	29·639	65·3	56·5	49·3	·352	3·9	3·0	56	522	Calm	0·0	9	1
4	29·622	62·7	55·7	49·4	·353	4·0	2·2	62	525	Calm	0·0	7	1
5	29·600	62·2	55·0	48·9	·346	3·9	2·4	61	525	Calm	0·0	9	1
6	29·594	60·3	54·8	50·0	·361	4·0	1·9	68	527	Calm	0·0	7	1
7	29·592	57·8	54·8	50·0	·361	4·3	1·0	81	529	Calm	0·0	10	2
8	29·606	55·4	52·9	50·5	·367	4·2	0·9	84	532	Calm	0·0	8	2
9	29·607	53·7	50·8	48·0	·335	3·7	0·9	82	534	Calm	0·0	10	2
10	29·617	53·5	51·0	48·5	·342	3·9	0·5	83	534	Calm	0·0	10	2
11	29·627	52·5	50·5	48·5	·342	3·8	0·3	86	535	Calm	0·0	10	2
Sept. 7. 12	29·751	53·3	52·0	50·7	·370	4·2	0·4	91	536	Calm	0·0	0	0
13	29·753	52·9	51·8	50·7	·370	4·1	0·4	93	537	Calm	0·0	1	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Aug. 24. 12	40	40	..	..	Clouds of different densities near the horizon.
13	40	40	..	..	Clouds of different densities almost cover the sky.
14	30	30	..	..	Clouds of different densities almost cover the sky; thin rain falling.
15	30	30	..	..	Clouds of different densities almost cover the sky.
16	20	20	..	..	Dark clouds near the horizon; light clouds in the zenith.
17	30	39	..	..	Light clouds almost cover the sky.
18	40	40	..	..	Clouds of different densities almost cover the sky.
19	60	40	..	..	Generally overcast.
20	60	40	..	..	Clouds of different densities cover the sky.
21	80	40	..	..	Overcast; strong breeze.
22	40	40	..	..	Overcast.
23	10	10	..	..	Overcast; strong breeze; thin rain falling.
			..		
Aug. 25. 0	20	20	..	..	Overcast; slight rain falls every now and then.
1	25	30	..	..	Overcast; slight rain falls every now and then; strong wind.
2	18	30	..	..	Overcast; slight rain falls every now and then; strong wind.
3	15	20	..	..	Overcast; rain has occasionally fallen since 2^h.
4	60	40	..	..	Overcast; rain has generally fallen since 3^h.
5	23	30	..	..	Overcast; strong gusts of wind.
6	35	40	..	..	Overcast; strong gusts of wind.
7	25	30	..	..	Overcast; strong gusts of wind.
8	20	30	..	..	Overcast; strong gusts of wind.
9	20	30	..	..	Overcast; strong gusts of wind; misty rain falling.
10	15	20	..	..	Overcast; strong gusts of wind; thick rain falling fast.
11	10	15	..	..	Overcast.
Aug. 31. 12	Out of range	40	..	..	Overcast; thin rain falling.
13	80	40	..	..	Generally overcast.
14	80	40	..	..	Cloudless.
15	18	30	..	..	Cloudless.
16	12	20	..	..	Cloudless.
17	25	30	..	..	Cloudless.
18	23	30	..	..	Thin stratus; the Sun's place is visible.
19	45	40	..	..	Overcast; thick fog.
20	75	40	..	..	Stratus and cirrus.
21	50	40	..	..	Light clouds.
22	40	40	..	..	Light clouds scattered all over the sky.
23	50	40	..	..	Cumulus near the horizon; light clouds in the zenith.
Sept. 1. 0	30	30	..	..	Cumulus near the horizon; cirrus in the zenith.
1	20	20	..	..	Cumulus and cirro-cumulus scattered over the sky.
2	10	10—	..	..	Cumulus and light clouds cover the greater portion of the sky.
3	20	20—	..	..	Clouds of different densities almost cover the sky.
4	30	30	..	..	Cumulus and cirro-cumulus.
5	30	30	..	..	Cumulus and cirro-cumulus.
6	Out of range	40—	..	..	Clouds of different densities.
7	Out of range	40—	15 to A	A volley of sparks at $0^{in}{\cdot}04$	Very dark, thunder and lightning every few seconds till 8^h; the electricity continually changing from positive to negative; rain occasionally falls.
8	Out of range	40	10 to B	..	Clear in the West, clouds in other directions; distant thunder.
9	Out of range	40	10 to B	A volley of sparks at $0^{in}{\cdot}03$	Overcast; flashes of lightning.
10	Out of range	40	5 to B	..	Overcast; heavy rain falling.
11	Out of range	40	3 to B	..	Overcast; thin rain falling.
Sept. 7. 12	0	0	..	..	Cloudless; slight haze.
13	5	10	..	..	Light clouds here and there.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Sept. 7. 14	29·756	50·2	50·0	49·8	·358	4·1	0·1	99	539	Calm	0·0	0	0
15	29·759	47·8	44·0	30·8	..	..	..	..	543	Calm.	0·0	0	0
16	29·765	48·6	48·4	48·2	·338	3·8	0·1	99	542	Calm	0·0	0	0
17	29·772	47·5	47·5	47·5	·329	3·7	0·0	100	543	Calm	0·0	0	0
18	29·781	47·5	47·3	47·1	·324	3·8	0·1	99	542	Calm	0·0	0	2
19	29·785	49·3	49·0	48·7	·344	3·9	0·1	98	540	Calm	0·0	10	0
20	29·793	53·5	52·4	51·4	·379	4·2	0·3	93	536	Calm	0·0	10	0
21	29·793	57·6	55·6	53·7	·413	4·7	0·7	87	532	Calm	0·0	10	0
22	29·798	63·9	55·4	48·3	·339	3·7	2·9	57	527	Calm	0·0	10	0
23	29·795	64·9	59·1	54·1	·419	4·6	2·2	68	525	Calm	0·0	10	0
Sept. 8. 0	29·787	67·1	59·3	53·0	·403	4·5	2·8	62	524	Calm	0·0	4	0
1	29·778	65·0	57·8	51·7	·384	4·2	2·6	62	524	Calm	0·0	10	0
2	29·773	65·9	58·3	52·1	·389	4·2	2·7	61	523	Calm	0·0	10	0
3	29·769	66·0	59·5	54·2	·421	4·7	2·2	66	523	Calm	0·0	10	1
4	29·770	62·7	58·4	54·9	·431	4·8	1·5	75	526	Calm	0·0	10	3
5	29·768	61·7	57·3	53·7	·413	4·6	1·1	77	528	Calm	0·0	9	6
6	29·773	60·3	56·6	53·3	·407	4·6	1·3	77	529	Calm	0·0	10	4
7	29·778	58·9	57·2	55·6	·443	5·0	0·6	90	530	Calm	0·0	9	0
8	29·786	55·8	54·8	53·9	·416	4·7	0·3	93	535	Calm	0·0	3	0
9	29·789	54·8	53·6	52·2	·391	4·4	0·3	92	536	Calm	0·0	7	0
10	29·783	53·4	52·6	51·6	·382	4·4	0·3	94	537	Calm	0·0	4	0
11	29·784	52·9	52·8	52·6	·397	4·5	0·1	99	538	Calm	0·0	5	0
Sept. 14. 12	30·114	46·2	44·8	43·5	·283	3·3	0·4	86	551	Calm	0·0	0	0
13	30·114	45·6	44·4	43·3	·280	3·2	0·3	92	552	Calm	0·0	4	0
14	30·114	46·6	45·2	43·7	·285	3·4	0·3	93	551	Calm	0·0	4	1
15	30·107	47·3	45·8	44·2	·290	3·3	0·4	90	550	Calm	0·0	10	2
16	30·091	49·2	44·8	40·1	·248	2·9	1·1	71	548	Calm	0·0	9	4
17	30·089	50·5	49·8	49·1	·349	3·9	0·3	96	546	Calm	0·0	10	5
18	30·093	51·7	51·2	50·7	·370	4·2	0·2	96	544	Calm	0·0	9	7
19	30·100	54·9	53·8	52·7	·403	4·5	0·4	93	541	Calm	0·0	9	7
20	30·099	56·5	54·6	52·7	·399	4·5	0·6	87	539	Calm	0·0	10	7
21	30·103	60·3	56·8	53·8	·415	4·6	1·3	79	535	Calm	0·0	8	6
22	30·079	63·4	57·1	51·9	·386	4·3	2·2	66	532	Calm	0·0	10	2
23	30·071	63·1	57·1	51·9	·386	4·3	2·1	67	532	SW	0·0	10	3
Sept. 15. 0	30·037	66·8	58·5	51·8	·385	4·3	2·8	60	528	SW	1·4	7	2
1	30·026	64·9	57·2	50·8	·371	4·0	2·8	60	530	SW	1·2	10	1
2	30·017	65·4	59·8	55·2	·436	4·8	2·1	69	528	SW	1·2	10	6
3	29·998	66·4	61·0	56·7	·461	5·1	2·1	71	527	SW	1·3	8	8
4	29·991	64·8	61·0	57·9	·480	5·2	1·5	78	528	WSW	0·0	10	9
5	29·993	64·2	58·0	52·8	·400	4·5	2·2	66	530	W	1·8	5	9
6	30·005	62·9	54·7	47·7	·331	3·7	2·1	57	532	WNW	1·0	10	9
7	30·022	57·6	52·8	48·4	·340	3·8	1·6	71	537	WNW	0·0	5	6
8	30·040	54·9	51·0	47·3	·327	3·7	0·6	76	540	Calm	0·0	5	0
9	30·038	53·4	50·0	46·6	·318	3·6	1·0	78	541	Calm	0·0	6	0
10	30·026	54·1	51·8	49·6	·353	4·0	0·8	84	541	WSW	0·0	1	3
11	30·022	55·7	53·2	50·9	·373	4·2	0·7	84	539	WSW	0·0	10	4
Sept. 21. 12	29·486	50·5	50·4	50·3	·365	3·8	0·1	98	535	SW	0·0	10	10
13	29·477	48·7	48·6	48·4	·340	3·9	0·1	98	537	SW	0·0	3	10
14	29·465	48·1	48·0	47·9	·334	3·9	0·1	99	537	SW	0·0	7	10
15	29·458	48·3	48·1	47·9	·334	3·7	0·1	99	537	SW	0·0	7	10
16	29·449	48·8	48·5	48·2	·338	3·8	0·1	97	536	SSW	0·0	7	10
17	26·423	48·3	48·1	47·9	·334	3·7	0·1	99	537	SW	0·0	8	10
18	29·409	48·0	47·6	47·2	·325	3·6	0·2	97	536	SW	0·0	3	10
19	29·406	48·0	47·6	47·2	·325	3·6	0·2	97	536	SW	0·0	0	10
20	29·400	52·9	51·3	49·7	·357	4·0	0·5	90	531	SW	0·0	0	10
21	29·392	58·6	53·8	49·5	·355	3·9	1·6	72	525	SW	0·0	2	10

Sept. 7d. 15h. The reading of the wet-bulb thermometer is evidently erroneous. By reference to the photographic records, the readings of the dry and wet bulb are identical at this time.

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Sept. 7. 14	10	20	..	..	Cloudless; haze near the horizon.
15	30	40	..	..	Cloudless.
16	20	30	..	..	Cloudless; slight haze.
17	10	20	..	..	Cloudless; fog.
18	5	10	..	..	Cloudless; fog.
19	30	40	..	..	Hazy.
20	30	40	..	..	Hazy.
21	30	40	..	..	Hazy.
22	20	25	..	..	Hazy.
23	5	5	..	..	Hazy.
Sept. 8. 0	20	25	..	..	Light clouds in the N.; haze.
1	10	18	..	..	Cloudy.
2	7	10	..	..	Overcast.
3	12	15	..	..	Overcast.
4	5	5	..	..	Overcast.
5	18	30	..	..	Overcast.
6	13	15	..	..	Overcast.
7	5	5	..	..	The sky is nearly covered with dark clouds; thin fog.
8	5	5	..	..	Light clouds in the S.
9	20	30	..	..	Thin stratus and haze.
10	30	30	..	..	Thin clouds and haze around the horizon.
11	20	30	..	..	Stars visible in the zenith; hazy elsewhere.
Sept. 14. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Light clouds cover nearly half the sky.
14	5	5	..	..	Light clouds principally near the horizon.
15	5	5	..	..	Cirro-cumulus cover the sky.
16	5	5	..	..	Dark clouds cover the greater portion of the sky.
17	5	10	..	..	Clouds of different densities cover the sky.
18	5	5	..	..	Cirrus and cirro-cumulus partially cover the sky.
19	15	20	..	..	Cirrus and cirro-cumulus partially cover the sky.
20	12	20	..	..	Overcast.
21	35	40	..	..	Cirrus in every direction.
22	23	30	..	..	The sky is covered with clouds of different densities.
23	8	15	..	..	The sky is covered with clouds of different densities; high wind.
Sept. 15. 0	32	40	..	..	Light clouds, principally cirrus, in every direction.
1	6	10	..	..	Clouds of different densities cover the whole of the sky.
2	12	15	..	..	Dark clouds in every direction.
3	35	40	..	..	Clear sky here and there.
4	28	35	..	..	The sky is generally covered with dark clouds.
5	52	40	..	..	Clouds of different densities cover about half the sky.
6	65	40	..	..	Overcast.
7	80	40	..	..	Cirrus, stratus, and cirro-stratus in every direction.
8	Out of range	40	..	..	Partially cloudy.
9	Out of range	40	..	..	Thin clouds cover about half the sky.
10	30	40	..	..	A few clouds in the S.W.; otherwise cloudless.
11	30	40	..	..	Overcast.
Sept. 21. 12	..	..	..	..	Overcast; thin rain falling; strong wind.
13	..	..	..	..	Light clouds near the horizon; the rain ceased at $12^h.\ 20^m$.
14	..	..	..	..	Cirro-cumulus and light clouds in every direction.
15	..	..	..	..	Cirro-cumulus, stratus, and light clouds in every direction.
16	..	..	..	..	Cirro-cumulus and light clouds in every direction.
17	..	..	..	..	Cirro-cumulus in every direction.
18	..	..	..	..	Cirrus in the zenith; stratus in the S.
19	..	..	..	..	Cloudless.
20	..	..	..	..	Cloudless.
21	..	..	..	..	Cirrus and cirro-cumulus scattered over the sky.

September 21. The insulating lamp on the top of the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Sept. 21. 22	29·362	57·1	52·8	48·8	·345	3·9	1·3	73	527	SW	0·0	7	0
23	29·344	59·4	56·4	53·8	·415	4·6	1·1	82	522	SW	0·0	4	1
Sept. 22. 0	29·312	60·5	54·3	48·9	·346	3·9	2·1	65	521	SW	0.0	10	3
1	29·289	57·5	55·2	53·2	·406	4·5	0·8	85	524	SW	0·0	10	4
2	29·254	57·8	54·8	52·2	·391	4·3	1·0	82	523	SSW	0·0	9	6
3	29·223	60·6	55·8	51·6	·382	4·3	1·7	72	519	SSW	1·0	8	9
4	29·186	55·8	54·3	52·9	·401	4·5	0·5	90	523	SSW	1·1	10	10
5	29·121	55·2	54·0	52·8	·400	4·5	0·4	92	523	SSW	0·5	10	10
6	29·098	53·5	52·3	51·1	·375	4·3	0·3	92	524	SW	2·2	10	10
7	29·115	52·5	50 5	48·5	·342	3·8	0·6	86	526	SW	0·8	4	10
8	29·127	51·0	49·3	47·5	·329	3·6	0·6	82	528	SW	2·0	1	10
9	29·130	50·6	48·4	46·1	·312	3·5	0·6	84	528	SW	1·4	0	10
10	29·132	50·0	47·6	45·0	·299	3·5	0·6	84	529	SW	0·4	0	0
11	29·132	49·5	47·0	44·3	·292	3·4	0·7	83	530	SW	0·4	0	0
Sept. 28. 12	28·898	49·5	48·6	47·7	·331	3·8	0·2	94	525	SSW	0·0	3	6
13	28·913	50·0	49·2	48·3	·339	3·9	0·2	94	525	SSW	0·0	10	8
14	28·913	49·8	49·0	48·1	·336	3·8	0·2	94	525	SSW	0·0	0	9
15	28·928	50·5	49·5	48·4	·340	3·8	0·3	93	525	SW	0·0	10	9
16	28·958	50·7	50·5	50·3	·365	4·1	0·1	98	525	SW	0·0	10	10
17	28·961	50·0	50·0	50·0	·361	4·1	0·0	100	526	SW	0·0	4	10
18	28·978	50·2	49·6	48·9	·346	4·0	0·2	96	526	SW	0·0	10	10
19	29·003	51·2	50·3	49·4	·353	4·0	0·3	94	525	SW	0·0	9	10
20	29·016	53·1	51·6	50·1	·362	4·1	0·4	89	524	SW	0·0	4	10
21	29·038	53·7	52·1	50·5	·367	4·1	0·5	89	523	SW	0·0	7	10
22	29·054	58·4	53·6	49·3	·352	3·9	1·6	72	517	WNW	0·0	8	0
23	29·069	56·6	52·1	47·9	·334	3·7	1·4	72	518	NW	0·0	10	0
Sept. 29. 0	29·080	59·3	55·1	51·4	·379	4·2	1·4	75	518	NW	0·0	3	0
1	29·095	58·0	53·5	49·5	·355	3·9	1·5	74	520	NW	0·0	8	0
2	29·115	59·6	54·0	49·0	·348	3·9	1·8	68	519	NW	0·0	8	0
3	29·134	56·6	52·6	48·8	·345	3·9	1·2	75	522	NW	0·0	10	0
4	29·150	57·5	53·2	49·3	·352	3·9	1·4	74	521	NW	0·0	9	0
5	29·162	53·6	52·0	50·4	·366	4·1	0·5	89	525	W	0·0	8	0
6	29·201	52·0	50·3	48·6	·343	3·9	0·5	88	528	WSW	0·0	5	0
7	29·230	50·5	48·7	46·9	·322	3·6	0·6	87	530	WSW	0·0	0	0
8	29·255	50·3	48·7	47·1	·324	3·6	0·5	88	531	WSW	0·0	4	0
9	29·287	49·8	48·4	46·9	·322	3·6	0·4	90	532	WSW	0·0	8	0
10	29·307	50·8	49·0	47·1	·324	3·6	0·5	87	531	WSW	0·0	10	0
11	29·213	50·6	48·9	47·2	·325	3·6	0·5	87	532	WSW	0·0	3	0
Oct. 5. 12	29·789	52·8	52·8	52·8	·400	4·4	0·0	100	538	Calm	0·0	10	7
13	29·791	52·5	52·4	52·3	·393	4·4	0·0	99	538	Calm	0·0	10	8
14	29·793	52·2	52·2	52·2	·391	4·4	0·0	100	538	Calm	0·0	10	8
15	29·798	52·2	52·2	52·2	·391	4·4	0·0	100	538	Calm	0·0	10	8
16	29·799	52·3	52·2	52·1	·389	4·4	0·0	99	538	Calm	0·0	10	8
17	29·810	52·4	52·3	52·2	·391	4·4	0·0	99	538	Calm	0·0	10	8
18	29·820	51·5	51·5	51·5	·381	4·3	0·0	100	540	Calm	0·0	10	8
19	29·827	51·4	51·3	51·2	·377	4·3	0·0	99	540	Calm	0·0	10	8
20	29·836	52·1	52·1	52·1	·389	4·4	0·0	100	539	Calm	0·0	10	8
21	29·841	52·8	52·4	52·0	·388	4·3	0·1	97	538	ENE	0·0	10	6
22	29·845	53·7	52·6	51·5	·381	4·3	0·3	92	538	ENE	0·0	10	0
23	29·859	53·4	53·0	52·6	·397	4·5	0·1	97	538	ENE	0·0	10	0
Oct. 6. 0	29·865	54·7	53·9	53·1	·404	4 6	0·3	94	537	ENE	0·0	10	0
1	29·842	54·9	54·0	53·1	·404	4·5	0·4	94	536	ENE	0·0	10	0
2	29·820	55·1	54·5	53·9	·416	4·6	0·3	95	536	ENE	0·0	10	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Sept. 21. 22	..	..	..	..	Clouds of different densities cover a large portion of the sky.
23	..	..	..	..	Cumulus and cirro-cumulus near the horizon; a heavy shower of rain fell shortly before this observation.
Sept. 22. 0	..	..	..	..	Clouds of different densities cover the sky.
1	..	..	..	..	Overcast; heavy rain has just commenced to fall.
2	..	..	..	..	Dark clouds in every direction.
3	..	..	..	..	Cumulus, cirro-cumulus, and light clouds in every direction.
4	..	..	..	..	Overcast; heavy rain commenced shortly before this observation.
5	..	..	..	..	Overcast; rain still continues.
6	..	..	..	..	Overcast; rain ceased at $5^h.\ 40^m$.
7	..	..	..	..	A few clouds here and there; hard wind.
8	..	..	..	..	Nearly cloudless; hard wind.
9	..	..	..	..	Cloudless.
10	..	..	..	..	Cloudless.
11	..	..	..	..	Cloudless.
Sept. 28. 12	5	10	..	..	Light clouds in the N.W., otherwise cloudless; hazy.
13	5	10	..	..	Overcast.
14	10	20	..	..	Cloudless; hazy.
15	5	10	..	..	Overcast; thin rain falling.
16	Out of range	40	..	..	Overcast; heavy rain fell between 15^h and 16^h.
17	0	0	..	..	Cirrus and cirro-stratus.
18	5	10	..	..	The sky is covered with clouds, broken here and there.
19	10	20	..	..	Overcast.
20	30	40	..	..	Partially cloudy; hazy; the Sun's place is visible.
21	50	40	..	..	Cumulus and dark clouds in every direction.
22	30	40	..	..	The sky is covered with clouds of different densities.
23	30	35	..	..	Overcast.
Sept. 29. 0	Out of range	40	..	..	Cirro-cumulus near the hor zon; heavy rain fell at $23^h.\ 30^m$.
1	28	30	..	..	Dark clouds in every direction.
2	80	40	..	..	Clouds of different densities in every direction.
3	80	40	..	..	Clouds of different densities in every direction.
4	40	40	..	..	Generally cloudy.
5	18	25	..	..	Overcast; dark clouds in every direction; heavy rain fell at $4^h.\ 35^m$; and thunder was heard.
6	Out of range	40	..	..	Stratus and light clouds.
7	Out of range	40	..	..	Cloudless; fog and haze.
8	Out of range	40	..	..	Light clouds in the N. and N.W.; thin fog.
9	Out of range	40	..	..	Light clouds in nearly every direction; fog.
10	Out of range	40	..	..	Overcast; fog.
11	Out of range	40	..	..	Light clouds in the N.; haze and fog.
Oct. 5. 12	0	0	..	..	Overcast; fog.
13	0	0	..	..	Overcast; fog.
14	0	0	..	..	Overcast; fog.
15	0	0	..	..	Overcast; fog.
16	0	0	..	..	Overcast; fog.
17	0	0	..	..	Overcast; fog.
18	0	0	..	..	Overcast; fog.
19	0	0	..	..	Overcast; fog.
20	0	0	..	..	Overcast; fog.
21	0	0	..	..	Overcast; fog.
22	0	0	..	..	Overcast; fog.
23	0	0	..	..	Overcast; fog; rain fell at $22^h.\ 30^m$, but soon ceased.
Oct. 6. 0	0	0	..	..	Overcast; fog; rain fell at $23^h.\ 30^m$.
1	0	0	..	..	Overcast; thin rain falling.
2	0	0	..	..	Overcast; rain falls occasionally.

September 21 and 22. The insulating lamp on the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Oct. 6. 3	29·804	56·8	55·6	54·6	·427	4·7	0·4	92	533	E	0·0	10	0
4	29·819	56·9	55·8	54·9	·431	4·7	0·5	93	534	E	0·0	10	0
5	29·822	56·8	55·9	55·2	·436	4·8	0·3	93	534	E	0·0	10	0
6	29·824	56·8	55·8	55·0	·433	4·7	0·4	93	534	E	0·0	10	0
7	29·823	56·8	55·6	54·6	·427	4·7	0·4	92	534	E	0·3	10	0
8	29·835	56·6	55·9	55·4	·439	4·9	0·2	94	534	E	0·6	10	6
9	29·831	56·8	56·0	55·3	·437	4·8	0·3	94	534	E	1·6	10	9
10	29·813	56·6	55·5	54·6	·427	4·7	0·4	92	534	E	1·6	10	5
11	29·798	56·4	55·4	54·5	·425	4·7	0·3	93	534	E	2·2	10	9
Oct. 12. 12	30·053	50·2	50·2	50·2	·364	4·1	0·0	100	545	Calm	0·0	2	0
13	30·055	50·0	50·0	50·0	·361	4·1	0·0	100	545	Calm	0·0	10	0
14	30·066	49·7	49·7	49·7	·357	4·1	0·0	100	546	Calm	0·0	10	0
15	30·059	48·1	48·1	48·1	·336	3·8	0·0	100	548	Calm	0·0	10	0
16	30·065	49·0	49·0	49·0	·348	4·0	0·0	100	547	Calm	0·0	10	0
17	30·065	49·0	49·0	49·0	·348	4·0	0·0	100	547	Calm	0·0	10	0
18	30·065	49·6	49·6	49·6	·356	4·1	0·0	100	546	Calm	0·0	10	0
19	30·079	50·3	50·3	50·3	·365	4·1	0·0	100	546	Calm	0·0	10	0
20	30·085	51·5	51·5	51·5	·381	4·3	0·0	100	544	Calm	0·0	10	0
21	30·099	53·2	53·2	53·2	·406	4·5	0·0	100	543	Calm	0·0	10	0
22	30·099	54·9	54·6	54·3	·422	4·7	0·2	98	541	Calm	0·0	10	0
23	30·087	57·9	56·8	55·8	·446	4·8	0·6	93	537	Calm	0·0	10	0
Oct. 13. 0	30·069	59·8	57·9	56·3	·454	5·0	0·7	88	535	Calm	0·0	5	3
1	30·062	62·3	58·6	55·5	·441	4·9	1·4	79	532	Calm	0·0	10	4
2	30·056	61·0	58·3	56·0	·449	5·0	1·0	83	533	Calm	0·0	5	4
3	30·049	60·6	58·3	56·2	·453	5·1	0·8	86	534	Calm	0·0	3	4
4	30·043	59·8	57·7	55·9	·447	4·9	0·8	86	534	Calm	0·0	5	4
5	30·042	57·3	55·4	53·7	·413	4·6	0·7	87	537	Calm	0·0	7	5
6	30·035	56·6	56·1	55·7	·444	4·9	0·2	97	537	Calm	0·0	10	5
7	30·035	55·8	55·4	55·1	·434	5·0	0·0	97	538	Calm	0·0	9	10
8	30·033	54·5	54·4	54·3	·422	4·7	0·1	99	540	Calm	0·0	4	10
9	30·019	53·0	52·7	52·4	·394	4·4	0·1	98	542	Calm	0·0	0	8
10	29·999	52·5	52·5	52·5	·396	4·4	0·0	100	542	Calm	0·0	0	1
11	29·994	52·0	52·0	52·0	·388	4·4	0·0	100	542	Calm	0·0	0	3
Oct. 19. 12	30·121	52·3	51·7	51·1	·375	4·2	0·2	96	544	Calm	0·0	10	5
13	30·109	52·5	52·1	51·7	·384	4·3	0·1	97	544	Calm	0·0	10	5
14	30·099	51·7	51·4	51·1	·375	4·2	0·1	98	544	Calm	0·0	10	5
15	30·091	52·3	52·0	51·7	·384	4·3	0·1	98	543	Calm	0·0	10	5
16	30·082	52·5	51·9	51·3	·378	4·3	0·1	96	543	Calm	0·0	10	6
17	30·078	52·6	51·8	51·0	·374	4·2	0·3	95	543	Calm	0·0	10	7
18	30·083	53·0	51·9	50·8	·371	4·2	0·3	91	543	Calm	0·0	10	7
19	30·083	52·8	51·8	50·8	·371	4·1	0·3	94	543	Calm	0·0	10	8
20	30·085	53·2	52·4	51·6	·382	4·3	0·2	95	542	ENE	0·0	9	8
21	30·076	55·4	53·4	51·5	·381	4·3	0·7	87	540	ENE	0·0	10	9
22	30·073	57·9	55·1	52·6	·397	4·4	1·0	82	537	E	0·0	6	0
23	30·071	60·5	56·6	53·2	·406	4·6	1·4	75	534	ENE	0·0	4	0
Oct. 20. 0	30·063	59·9	55·0	50·7	·370	4·1	1·7	72	535	ENE	0·0	4	3
1	30·052	61·6	55·8	50·8	·371	4·1	2·0	69	533	ENE	0·0	4	0
2	30·045	60·3	55·2	50·5	·367	4·0	1·7	71	534	ENE	0·0	2	0
3	30·039	57·5	53·5	49·6	·360	4·0	1·3	75	537	ENE	0·0	2	0
4	30·036	54·9	52·5	50·2	·364	4·0	0·9	84	540	Calm	0·0	1	0
5	30·037	52·9	51·2	49·5	·355	4·0	0·5	89	542	Calm	0·0	8	3
6	30·042	52·5	51·0	49·5	·355	4·0	0·4	90	542	Calm	0·0	10	3
7	30·044	50·0	49·5	48·9	·346	3·9	0·2	96	545	Calm	0·0	0	4
8	30·052	47·5	47·5	47·5	·329	3·7	0·0	100	548	Calm	0·0	0	6
9	30·056	46·0	46·0	46·0	·311	3·6	0·0	100	550	Calm	0·0	0	7
10	30·057	45·6	45·6	45·6	·306	3·5	0·0	100	551	Calm	0·0	0	9

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
	°	°			
Oct. 6. 3	0	0	..	..	Overcast ; rain falls occasionally.
4	0	0	..	..	Overcast ; rain falls occasionally.
5	0	0	..	..	Overcast ; rain falls occasionally.
6	0	0	..	..	Overcast ; strong wind.
7	0	0	..	..	Overcast ; strong wind.
8	0	0	..	..	Overcast ; strong wind ; rain falling.
9	0	0	..	..	Overcast ; strong wind.
10	0	0	..	..	Overcast ; strong wind.
11	0	0	..	..	Overcast ; strong wind.
Oct. 12. 12	0	0	..	..	Light clouds near the Moon.
13	0	0	..	..	Overcast ; fog.
14	0	0	..	..	Overcast ; fog.
15	0	0	..	..	Overcast ; fog.
16	0	0	..	..	Overcast ; fog.
17	0	0	..	..	Overcast ; fog.
18	0	0	..	..	Overcast ; fog.
19	0	0	..	..	Overcast ; fog.
20	0	0	..	..	Overcast ; fog.
21	0	0	..	..	Overcast ; fog.
22	0	0	..	..	Overcast ; the fog has cleared off.
23	0	0	..	..	Partially cloudy.
Oct. 13. 0	0	0	..	..	Cumulus and cirro-cumulus.
1	0	0	..	..	Overcast.
2	0	0	..	..	Cumulus, cirro-cumulus, and light clouds near the horizon.
3	0	0	..	..	Light clouds near the horizon.
4	8	5	..	..	Light clouds near the horizon.
5	5	5	..	..	Partially cloudy.
6	5	5	..	..	Clouds of different densities cover the whole of the sky.
7	5	10	..	..	Generally cloudy.
8	5	10	..	..	Partially cloudy.
9	5	5	..	..	Cloudless.
10	5	10	..	..	Cloudless.
11	5	10	..	..	Cloudless.
Oct. 19. 12	0	0	..	..	Overcast.
13	0	0	..	..	Overcast.
14	0	0	..	..	Overcast.
15	0	0	..	..	Overcast.
16	0	0	..	..	Overcast.
17	0	0	..	..	Clouds of different densities cover the whole of the sky.
18	0	0	..	..	Overcast.
19	0	0	..	..	Overcast.
20	0	0	..	..	Overcast.
21	0	0	..	..	Overcast.
22	0	0	..	..	Clouds of different density in nearly every direction.
23	0	0	..	..	Cumuli and light clouds here and there.
Oct. 20. 0	5	10	..	..	Cumuli and light clouds here and there.
1	36	40	..	..	Cumuli and light clouds here and there.
2	35	40	..	..	Light clouds in the N., otherwise cloudless.
3	28	33	..	..	Light clouds here and there.
4	15	20	..	..	A few cumuli in the N.
5	5	8	..	..	Partially cloudy.
6	5	5	..	..	Overcast.
7	5	5	..	..	Cloudless.
8	0	0	..	..	Cloudless.
9	0	0	..	..	Cloudless.
10	0	0	..	..	Cloudless.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Oct. 20. 11	30·046	45·5	45·5	45·5	·305	3·5	0·0	100	551	Calm	0·0	0	9
Oct. 26. 12	30·266	37·5	37·4	37·3	·223	2·7	0·1	99	566	Calm	0·0	0	3
13	30·256	39·6	39·1	38·4	·232	2·7	0·1	96	561	Calm	0·0	0	5
14	30·255	39·7	39·4	39·0	·238	2·8	0·1	97	561	Calm	0·0	0	5
15	30·242	37·1	37·1	37·1	·221	2·6	0·0	100	564	Calm	0·0	0	5
16	30·239	38·1	38·0	37·9	·228	2·7	0·1	99	563	Calm	0·0	3	5
17	30·244	40·1	39·7	39·2	·239	2·7	0·2	97	560	Calm	0·0	7	5
18	30·242	41·1	40·3	39·3	·240	2·8	0·2	93	559	Calm	0·0	8	6
19	30·251	40·6	39·8	38·8	·236	2·7	0·2	93	560	Calm	0·0	3	7
20	30·252	41·6	40·5	39·1	·238	2·7	0·3	92	559	Calm	0·0	2	8
21	30·263	46·8	44·8	42·5	·272	3·1	0·5	86	553	Calm	0·0	2	5
22	30·256	50·6	46·8	42·9	·276	3·1	1·0	76	549	ENE	0·0	0	0
23	30·256	52·4	47·8	43·1	·278	3·2	1·3	71	547	ENE	0·0	2	0
Oct. 27. 0	30·245	54·4	49·4	43·6	·284	3·2	1·8	65	544	ENE	0·0	5	1
1	30·231	54·9	49·4	44·1	·289	3·3	1·6	67	544	ENE	0·0	3	2
2	30·217	53·3	48·0	42·7	·274	3·1	1·5	68	545	ENE	0·0	1	2
3	30·213	52·0	47·5	42·9	·276	3·1	1·3	71	547	E	0·0	2	2
4	30·211	48·5	45·5	42·2	·269	3·1	0·8	79	552	ENE	0·0	0	6
5	30·214	46·0	44·3	42·3	·270	3·2	0·4	88	553	Calm	0·0	5	6
6	30·217	45·5	44·4	43·1	·278	3·2	0·3	92	554	Calm	0·0	4	6
7	30·219	43·0	43·0	43·0	·277	3·2	0·0	100	557	Calm	0·0	2	3
8	30·222	40·6	40·5	40·4	·251	3·0	0·1	99	560	Calm	0·0	0	0
9	30·226	39·4	39·4	39·4	·241	2·9	0·0	100	561	Calm	0·0	0	0
10	30·222	39·4	39·4	39·4	·241	2·9	0·0	100	561	Calm	0·0	0	0
11	30·220	37·1	37·1	37·1	·221	2·6	0·0	100	564	Calm	0·0	0	0
Nov. 2. 12	30·124	45·8	45·5	45·2	·302	3·4	0·1	98	552	Calm	0·0	10	4
13	30·114	45·3	45·0	44·7	·296	3·4	0·1	98	552	Calm	0·0	10	5
14	30·110	45·3	44·8	44·3	·292	3·3	0·2	96	552	Calm	0·0	10	6
15	30·101	45·0	44·8	44·5	·294	3·3	0·1	98	552	Calm	0·0	10	7
16	30·102	44·5	44·3	44·1	·289	3·4	0·1	98	553	Calm	0·0	0	8
17	30·102	43·8	43·8	43·8	·286	3·3	0·0	100	554	Calm	0·0	8	8
18	30·105	43·9	43·9	43·9	·287	3·4	0·0	100	554	Calm	0·0	10	8
19	30·103	44·1	44·1	44·1	·289	3·3	0·0	100	553	Calm	0·0	10	6
20	30·111	44·5	44·0	43·4	·281	3·3	0·1	96	553	Calm	0·0	10	3
21	30·112	45·3	43·9	42·3	·270	3·1	0·3	90	552	Calm	0·0	10	1
22	30·110	45·8	44·0	41·9	·266	3·0	0·5	86	552	Calm	0·0	10	0
23	30·107	47·0	45·0	42·8	·275	3·2	0·5	86	550	Calm	0·0	10	0
Nov. 3. 0	30·098	47·6	45·3	42·8	·275	3·2	0·6	84	549	Calm	0·0	10	3
1	30·078	49·5	46·5	43·3	·280	3·2	0·9	79	547	Calm	0·0	6	6
2	30·071	50·8	47·4	43·8	·286	3·3	0·9	77	545	Calm	0·0	8	6
3	30·072	50·0	46·8	43·5	·283	3·2	0·9	79	546	Calm	0·0	9	5
4	30·072	47·7	45·2	42·4	·271	3·2	0·6	83	549	Calm	0·0	10	6
5	30·074	45·2	43·6	41·8	·265	3·0	0·5	88	552	Calm	0·0	10	6
6	30·075	42·6	41·5	40·2	·249	2·8	0·3	91	555	Calm	0·0	10	5
7	30·074	42·1	41·2	40·1	·248	2·8	0·3	92	555	Calm	0·0	10	4
8	30·085	42·1	41·3	40·4	·251	2·9	0·2	93	555	Calm	0·0	10	0
9	30·080	39·7	39·6	39·5	·242	2·9	0·0	99	558	Calm	0·0	10	0
10	30·077	39·8	39·7	39·6	·243	2·9	0·0	100	558	Calm	0·0	10	0
11	30·074	40·7	40·0	39·2	·239	2·8	0·1	94	557	Calm	0·0	10	0
Nov. 9. 12	29·640	44·0	43·0	41·8	·265	3·0	0·3	92	545	W	0·0	10	0
13	29·617	43·3	42·1	40·6	·253	2·9	0·4	91	546	W	0·0	8	0
14	29·588	43·0	42·0	40·8	·255	2·9	0·3	92	545	W	0·0	10	0
15	29·537	42·0	40·7	39·0	·238	2·7	0·4	99	546	W	0·0	4	0
16	29·514	42·1	40·5	38·5	·233	2·7	0·4	88	545	WNW	0·0	2	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	o	o			
Oct. 20. 11	0	0	..	..	Cloudless ; slight fog.
Oct. 26. 12	5	5	..	..	Cloudless.
13	5	5	..	..	Cloudless.
14	5	5	..	..	Cloudless.
15	0	0	..	..	Cloudless.
16	5	5	..	..	Light clouds here and there.
17	0	0	..	..	Clouds of different densities in many directions.
18	0	0	..	..	Cumuli and cirro-cumuli in many directions.
19	5	8	..	..	Dark clouds here and there.
20	8	12	..	..	Cirro-cumuli in the E.
21	20	20	..	..	Light clouds around the horizon.
22	15	20	..	..	Cloudless.
23	5	5	..	..	Light clouds here and there.
Oct. 27. 0	10	10	..	..	Light clouds here and there.
1	15	20	..	..	Light clouds here and there.
2	18	20	..	..	Light clouds here and there.
3	5	5	..	..	Light clouds here and there.
4	5	5	..	..	Cloudless.
5	5	5	..		Partially cloudy.
6	5	5	..	..	Light clouds near the horizon.
7	5	5	..	..	Light clouds in the zenith.
8	5	5	..	..	Cloudless.
9	5	5	..	..	Cloudless.
10	5	5	..	..	Cloudless.
11	5	5	..	..	Cloudless.
Nov. 2. 12	5	5	..	..	Overcast.
13	5	5	..	..	Overcast.
14	5	5	..	..	Overcast.
15	0	0	..	..	Overcast.
16	5	5	..	..	Cloudless.
17	5	5	..	..	Partially cloudy.
18	5	5	..	..	Overcast.
19	5	5	..	..	Overcast.
20	8	10	..	..	Overcast.
21	8	10	..	..	Overcast.
22	5	8	..	..	Overcast.
23	8	15	..	..	Overcast.
Nov. 3. 0	23	30	..	..	Overcast.
1	30	40	..	..	Cumuli and light clouds here and there.
2	80	40	..	..	Partially cloudy.
3	70	40	..	..	Partially cloudy.
4	35	40	..	..	Overcast.
5	50	40	..	..	Overcast.
6	5	10	..	..	Overcast.
7	5	5	..	..	Overcast.
8	20	10	..	..	Overcast.
9	..	..	..	..	Overcast.
10	..	..	..	..	Overcast.
11	..	..	..	..	Overcast.
Nov. 9. 12	..	..	..	..	Overcast.
13	..	..	..	..	Partially cloudy.
14	..	..	..	..	Overcast ; rain commenced at $13^h.\ 45^m$, and still continues.
15	..	..	..	..	Partially cloudy ; clear in the zenith.
16	..	..	..	..	Light clouds near the horizon.

November 3. 9^h to 11^h, and November 9. The insulating lamp on the top of the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°		gr.	gr.		gr.		lbs.		
Nov. 9. 17	29·482	41·6	40·0	38·0	·229	2·6	0·4	88	545	WNW	0·0	2	0
18	29·475	41·3	39·8	37·9	·228	2·7	0·4	88	544	WNW	0·0	1C	0
19	29·460	40·8	39·7	38·3	·231	2·4	0·5	84	545	NW	0·0	10	0
20	29·447	38·4	38·4	38·4	·232	2·8	0·0	100	548	NNW	0·0	10	0
21	29·432	39·3	38·8	38·1	·230	2·7	0·2	96	547	N	0·0	9	0
22	29·420	40·7	39·1	37·1	·221	2·5	0·4	97	545	N	0·0	9	0
23	29·395	41·2	39·0	36·3	·214	2·5	0·5	83	544	N	0·0	6	0
Nov. 10. 0	29·378	40·1	37·0	33·0	·188	2·2	0·7	75	545	N	0·0	10	0
1	29·353	43·3	40·0	36·1	·213	2·5	0·8	76	541	N	0·0	6	0
2	29·330	41·5	37·6	32·9	·187	2·2	0·9	71	543	N	0·0	4	0
3	29·324	40·5	37·0	32·6	·185	2·2	0·8	73	544	N	0·0	10	0
4	29·317	38·9	36·2	32·6	·185	2·1	0·7	80	545	N	0·0	10	0
5	29·320	38·4	35·8	32·2	·182	2·2	0·6	79	546	N	0·0	10	0
6	29·313	37·6	35·7	33·1	·188	2·2	0·5	85	546	N	0·0	10	0
7	29·301	37·6	35·8	33·2	·189	2·2	0·5	85	546	N	0·0	10	0
8	29·294	36·9	35·1	32·5	·184	2·1	0·5	85	547	N	0·0	10	0
9	29·286	35·7	33·8	30·9	·173	2·0	0·4	82	548	N	0·0	8	0
10	29·278	33·9	32·4	29·8	·166	1·9	0·4	84	550	N	0·0	10	0
11	29·280	33·2	31·3	27·6	·151	1·8	0·4	79	551	N	0·0	7	0
Nov. 16. 12	30·140	28·9	28·9	28·9	·159	1·8	0·0	100	572	Calm	0·0	0	0
13	30·128	25·8	25·8	25·8	·140	1·6	0·0	100	576	Calm	0·0	0	0
14	30·113	25·9	25·9	25·9	·140	1·6	0·0	100	576	Calm	0·0	4	0
15	30·109	25·8	25·8	25·8	·140	1·4	0·0	100	575	Calm	0·0	0	0
16	30·099	25·3	25·3	25·3	·137	1·6	0·0	100	575	Calm	0·0	0	0
17	30·076	24·9	24·9	24·9	·134	1·4	0·0	100	576	Calm	0·0	0	0
18	30·068	24·3	24·3	24·3	·131	1·4	0·0	100	576	Calm	0·0	3	2
19	30·067	24·8	24·8	24·8	·134	1·6	0·0	100	576	Calm	0·0	9	0
20	30·070	27·9	27·9	27·9	·152	1·5	0·0	100	572	Calm	0·0	8	0
21	30·065	30·8	30·8	30·8	·172	1·8	0·0	100	568	Calm	0·0	10	0
22	30·066	31·7	31·7	31·7	·179	1·9	0·0	100	567	Calm	0·0	10	0
23	30·050	38·9	38·8	38·7	·235	2·3	0·1	99	559	Calm	0·0	8	0
Nov. 17. 0	30·036	38·6	38·6	38·6	·234	2·5	0·0	100	559	Calm	0·0	10	0
1	30·019	39·7	38·8	37·9	·228	2·4	0·1	99	557	Calm	0·0	10	0
2	30·006	40·7	39·4	37·5	·225	2·5	0·3	96	555	Calm	0·0	10	0
3	30·000	42·4	41·8	41·2	·259	2·6	0·3	98	553	Calm	0·0	10	0
4	29·996	41·4	40·2	39·0	·238	2·8	0·3	92	555	Calm	0·0	10	0
5	30·002	41·1	40·3	39·4	·241	2·7	0·4	95	555	Calm	0·0	10	0
6	29·996	40·6	40·0	39·3	·240	2·9	0·1	96	556	Calm	0·0	10	0
7	30·010	39·6	39·4	39·2	·239	2·8	0·1	97	557	Calm	0·0	0	0
8	30·014	37·4	37·4	37·4	·224	2·5	0·0	100	559	Calm	0·0	0	0
9	30·008	32·2	32·2	32·2	·182	2·1	0·0	100	565	Calm	0·0	0	0
10	30·015	35·6	35·6	35·1	·204	2·4	0·1	97	561	Calm	0·0	9	0
11	30·007	36·6	36·5	36·5	·216	2·4	0·1	98	560	Calm	0·0	10	0
Nov. 23. 12	29·828	51·5	48·4	45·3	·303	3·5	0·8	79	540	WNW	1·8	10	0
13	29·816	51·5	49·5	47·5	·329	3·7	0·6	86	540	NW	1·5	10	0
14	29·789	51·5	49·3	47·1	·324	3·6	0·7	85	539	WNW	1·8	0	0
15	29·769	51·1	48·9	46·7	·319	3·7	0·5	84	540	WNW	1·6	0	0
16	29·752	51·0	48·7	46·4	·316	3·6	0·6	84	539	WNW	1·9	6	0
17	29·753	50·5	48·0	45·4	·304	3·5	0·7	83	540	WNW	2·4	10	0
18	29·720	50·5	47·8	44·9	·298	3·5	0·7	82	539	WNW	0·8	10	0
19	29·706	51·0	48·2	45·3	·303	3·5	0·7	81	538	WNW	1·0	10	0
20	29·702	51·5	49·0	46·5	·317	3·6	0·7	83	538	WNW	1·3	10	0
21	29·701	52·5	50·0	47·5	·329	3·7	0·7	83	537	WNW	0·0	10	0
22	29·691	53·6	50·5	47·6	·330	3·7	1·0	79	535	WNW	0·0	10	0
23	29·678	54·4	50·8	47·3	·327	3·7	1·1	76	535	WNW	1·3	9	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d	°	°			
Nov. 9. 17	..	..	..	..	Light clouds near the horizon.
18	..	..	..	..	Overcast.
19	..	..	..	..	Light clouds: haze and fog.
20	..	..	..	..	Overcast; thick fog; rain fell at 19h. 50m.
21	..	..	..	..	Overcast; heavy rain and hail fell about 20h.
22	..	..	..	..	Overcast.
23	..	..	..	..	Cumuli and cirro-cumuli in every direction.
Nov. 10. 0	..	..	..	..	Overcast.
1	..	..	..	..	Light clouds.
2	..	..	..	..	Partially cloudy.
3	..	..	..	..	Overcast.
4	..	..	..	..	Overcast.
5	..	..	..	..	Overcast.
6	..	..	..	..	Overcast; high wind.
7	..	..	..	..	Overcast; high wind.
8	..	..	..	..	Overcast; high wind.
9	..	..	..	..	Partially cloudy.
10	..	..	..	..	Overcast.
11	..	..	..	..	Partially cloudy.
Nov. 16. 12	10	5	..	..	Cloudless; fog.
13	80	40	..	..	Cloudless; fog.
14	50	30	..	..	Partially cloudy; fog.
15	Out of range	40	..	..	Cloudless; haze and fog.
16	80	40	..	..	Cloudless; haze and fog.
17	80	40	..	..	Cloudless; haze and fog.
18	80	40	..	..	Light clouds in the zenith; haze and fog.
19	Out of range	40	..	..	Generally cloudy; haze and fog.
20	Out of range	40	..	..	Partially cloudy; thin fog.
21	Out of range	40	..	..	Overcast; fog.
22	Out of range	40	..	..	Overcast; fog.
23	Out of range	40	..	..	Generally overcast; fog.
Nov. 17. 0	Out of range	40	..	..	Overcast; fog.
1	Out of range	40	..	..	Overcast; fog.
2	Out of range	40	..	..	Overcast; fog.
3	Out of range	40	..	..	Overcast; fog.
4	20	20	..	..	Overcast; thin rain falling.
5	50	40	..	..	Overcast; rain occasionally falls; thick fog.
6	30	30—	..	..	Overcast; heavy rain falling.
7	20	20	..	..	Cloudless; thick fog.
8	30	30	..	..	Cloudless; thin fog.
9	Out of range	40	3° to B	..	Cloudless; thick fog.
10	Out of range	40	5 to B	..	Cloudless; thick fog.
11	Out of range	40	3 to B	..	Overcast.
Nov. 23. 12	..	..	..	..	Overcast; strong breeze.
13	..	..	..	..	Overcast; strong breeze.
14	..	..	..	..	Cloudless; strong breeze.
15	..	..	..	..	Cloudless; strong breeze.
16	..	..	..	..	Partially cloudy; strong breeze.
17	..	..	..	..	Overcast; heavy squalls of wind.
18	..	..	..	..	Overcast; high wind.
19	..	..	..	..	Overcast; high wind.
20	..	..	..	..	Overcast; high wind.
21	..	..	..	..	Overcast; high wind.
22	..	..	..	..	Overcast; high wind.
23	..	..	..	..	Cloudy.

November 9. The insulating lamp on the Electrometer pole was not burning.
November 23 The electrical insulating lamp was not burning.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Nov. 24. 0	29·680	52·6	48·5	44·4	·293	3·4	1·1	73	537	NNW	2·2	5	0
1	29·681	53·5	48·0	42·6	·273	3·1	1·5	67	536	NW	0·6	7	0
2	29·681	52·5	48·0	43·5	·283	3·3	1·2	72	537	NW	2·8	7	0
3	29·685	51·6	46·8	41·9	·266	3·0	1·3	69	538	NW	2·6	4	0
4	29·683	49·2	44·3	39·0	·238	2·8	1·2	67	540	NW	1·5	1	0
5	29·705	47·4	42·8	37·7	·226	2·7	1·1	70	543	NW	0·5	0	0
6	29·711	46·8	42·5	37·6	·225	2·7	1·1	71	544	NW	2·0	0	0
7	29·723	45·9	42·0	37·5	·225	2·7	1·0	73	545	NW	0·9	0	0
8	29·733	44·5	41·0	37·0	·220	2·6	0·8	74	547	NW	0·4	0	0
9	29·725	43·7	40·5	37·4	·224	2·6	0·7	80	548	WNW	0·0	7	0
10	29·738	44·2	41·0	37·9	·228	2·6	0·7	78	547	WNW	0·0	10	0
11	29·738	43·5	41·2	38·5	·233	2·7	0·6	82	548	NW	0·0	10	0
Nov. 30. 12	29·834	28·3	27·0	21·9	·117	1·4	0·4	76	567	NNW	0·0	0	0
13	29·836	27·4	27·4	27·4	·149	1·7	0·0	100	568	NNW	0·0	0	0
14	29·831	27·9	27·0	23·3	·125	1·4	0·3	82	567	NNW	0·0	0	0
15	29·837	27·8	26·7	22·1	·118	1·5	0·3	78	568	Calm	0·0	0	0
16	29·839	25·3	24·5	20·4	·110	1·3	0·3	81	571	Calm	0·0	0	0
17	29·842	23·9	22·6	14·9	·085	1·0	0·5	67	573	Calm	0·0	0	0
18	29·834	23·3	23·0	21·2	·114	1·4	0·1	92	573	Calm	0·0	0	0
19	29·832	23·3	23·2	22·7	·121	1·4	0·1	98	573	Calm	0·0	0	0
20	29·836	23·7	23·5	19·4	·105	1·4	0·2	96	572	Calm	0·0	2	0
21	29·828	26·8	25·9	21·8	·117	1·5	0·3	82	569	Calm	0·0	4	0
22	29·830	29·3	27·9	23·1	·124	1·4	0·5	77	565	Calm	0·0	0	0
23	29·820	31·1	29·5	25·3	·137	1·5	0·6	77	563	NNW	0·0	10	0
Dec. 1. 0	29·813	32·4	30·6	26·8	·146	1·8	0·4	79	562	N	0·0	0	0
1	29·821	33·4	30·8	25·9	·140	1·7	0·6	73	561	N	0·0	10	0
2	29·783	32·9	31·8	29·6	·164	1·9	0·3	86	561	NNW	0·0	10	0
3	29·784	32·7	31·3	28·6	·157	1·9	0·3	85	561	NNW	0·0	10	0
4	29·790	32·8	30·7	26·4	·143	1·7	0·4	77	561	NW	0·0	10	0
5	29·779	32·7	30·7	26·6	·145	1·7	0·4	78	561	WNW	0·0	10	0
6	29·785	31·5	30·6	28·5	·156	1·8	0·3	99	563	W	0·0	10	0
7	29·775	31·0	30·5	29·1	·160	1·9	0·2	92	562	WNW	0·0	0	0
8	29·791	29·3	29·3	29·3	·162	1·9	0·0	00	565	WNW	0·0	0	0
9	29·796	28·8	28·4	26·0	·141	1·6	0·2	188	565	NNW	0·0	0	0
10	29·794	29·1	28·0	24·1	·130	1·6	0·3	81	565	NNW	0·0	0	0
11	29.845	28·6	27·5	23·5	·126	1·5	0·2	87	567	NNW	0·0	0	0
Dec. 7. 12	29·432	56·0	50·7	45·7	·280	3·4	1·6	68	528	SSW	0·0	9	0
13	29·406	56·0	51·2	46·7	·319	3·6	1·4	71	530	SSW	0·0	9	0
14	29·383	56·3	51·2	47·2	·325	3·5	1·4	71	527	SSW	0·0	10	0
15	29·381	55.7	50·8	46·1	·312	3·5	1·6	70	527	SSW	0·0	1	0
16	29·382	55·7	51·0	46·4	·316	3·6	1·0	72	528	SSW	0·0	0	1
17	29·390	57·2	51·3	45·9	·309	3·5	1·9	66	526	SSW	0·0	10	1
18	29·394	57·0	51·5	46·4	·316	3·5	1·6	67	527	SSW	0·0	10	2
19	29·416	56·6	51·5	46·8	·321	3·5	1·4	74	528	SSW	0·0	10	2
20	29·440	55·7	51·8	46·6	·318	3·8	1·1	77	528	SSW	0·0	10	3
21	29·456	56·8	52·0	47·4	·328	3·7	1·0	71	528	SSW	0·0	10	2
22	29·464	55·9	52·2	48·6	·343	3·8	0·8	78	529	SSW	0·0	10	2
23	29·460	56·8	53·0	49·4	·353	3·9	0·6	76	528	SSW	0·0	10	2
Dec. 8. 0	29·444	56·6	53·2	49·7	·357	4·0	0·8	76	528	SSW	0·0	10	2
1	29·449	56·8	53·0	49·4	·353	3·9	0·6	76	528	SSW	0·0	10	2
2	29·439	56·6	53·0	49·6	·356	4·0	0·7	78	527	SSW	0·0	10	2
3	29·424	55·8	52·3	49·0	·348	3·8	0·9	75	529	SSW	0·0	6	2
4	29·420	53·9	51·0	48·1	·336	3·8	0·4	81	531	S	0·0	5	3
5	29·420	53·6	50·7	47·9	·334	3·7	0·9	80	530	S	0·0	8	3
6	29·395	54·4	52.2	50·0	·361	4·1	0·7	85	529	S	0·0	10	2
7	29·361	54·4	51·0	47·7	·331	3·8	1·0	78	528	S	0·0	10	2

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Nov. 24. 0	..	..	..	..	Partially cloudy.
1	..	..	..	..	Partially cloudy.
2	..	..	..	..	Partially cloudy.
3	..	..	..	..	Partially cloudy.
4	..	..	..	..	Light clouds near the horizon.
5	..	..	..	..	Cloudless.
6	..	..	..	..	Cloudless.
7	..	..	..	..	Cloudless.
8	..	..	..	..	Cloudless.
9	..	..	..	..	Stratus in the S. and W.; thin clouds in other directions.
10	..	..	..	..	Overcast; rain falling.
11	..	..	..	..	Overcast; rain has occasionally fallen since 10^h.
Nov. 30. 12	80	40	..	..	Cloudless.
13	Out of range	40	..	..	Cloudless.
14	80	40	..	..	Cloudless.
15	80	40	..	..	Cloudless.
16	80	40	..	..	Cloudless.
17	Out of range	40	..	..	Cloudless.
18	Out of range	40	..	..	Cloudless.
19	Out of range	40	..	..	Cloudless.
20	Out of range	40	..	..	Light clouds in the S. and S.E.; slight haze.
21	Out of range	40	..	a volley at 0·015	Partially cloudy.
22	Out of range	40	..	a volley at 0·010	Cloudless.
23	Out of range	40	..	a volley at 0·015	Overcast.
Dec. 1. 0	Out of range	40	..	a volley at 0·015	Cloudless.
1	Out of range	40	..	a volley at 0·010	Overcast; cirro-cumuli.
2	Out of range	40	..	a volley at 0·015	Overcast.
3	Out of range	40	3° to B	a volley at 0·015	Overcast.
4	Out of range	40	2 to B	1 in 1^s at 0·015	Overcast.
5	Out of range	40	3 to B	1 in 1^s at 0·015	Overcast.
6	Out of range	40	2 to B	1 in 1^s at 0·010	Overcast.
7	Out of range	40	3 to B	3 in 1^s at 0·010	Cloudless.
8	Out of range	40	..	2 in 1^s at 0·010	Cloudless.
9	Out of range	40	5 to B	3 in 1^s at 0·010	Cloudless.
10	Out of range	40	..	2 in 1^s at 0·010	Cloudless.
11	Out of range	40	..	3 in 1^s at 0·010	Cloudless.
Dec. 7. 12	..	..	..	..	Generally cloudy.
13	..	..	..	..	Generally cloudy.
14	..	..	..	..	Overcast.
15	..	..	..	..	Dark clouds in the W.; otherwise cloudless.
16	..	..	..	..	Cloudless.
17	..	..	..	..	Overcast.
18	..	..	..	..	Overcast.
19	..	..	..	..	Overcast.
20	..	..	..	..	Overcast.
21	..	..	..	..	Overcast.
22	..	..	..	..	Overcast.
23	..	..	..	..	Overcast.
Dec. 8. 0	..	..	..	..	Overcast.
1	..	..	..	..	Overcast.
2	..	..	..	..	Overcast.
3	..	..	..	..	Partially cloudy.
4	..	..	..	..	Partially cloudy.
5	..	..	..	..	Partially cloudy.
6	..	..	..	..	Overcast; rain commenced at $5^h.45^m$, and still continues.
7	..	..	..	..	Overcast.

November 24 and December 7 and 8. The insulating lamp on the Electrometer pole was not burning.

1856. Month, Day, and Hour.	Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
	Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Dec. 8. 8	29·349	55·1	51·3	47·7	·331	3·8	1·1	76	528	S	0·0	10	5
9	29·325	55·3	51·8	48·5	·342	3·9	1·0	78	527	SSW	0·0	10	5
10	29·322	54·9	52·2	49·6	·356	4·0	0·9	82	527	SSW	0·0	10	5
11	29·314	53·9	52·0	50·1	·362	4·1	0·6	87	528	SW	0·0	10	5
Dec. 14. 12	29·882	40.6	39·4	37·9	·228	2·6	0·3	90	554	N	0·0	1	0
13	29·905	39·7	38·7	37·4	·224	2·6	0·3	92	555	N	0·0	0	0
14	29·940	38·8	38·1	37·2	·222	2·6	0·2	95	557	N	0·0	0	0
15	29·982	37·6	37·0	36·2	·214	2·6	0·1	95	559	N	0·0	0	0
16	30·002	37·1	36·6	35·9	·211	2·4	0·2	95	560	N	0·0	0	0
17	30·033	36·6	36·0	35·2	·205	2·5	0·1	95	561	N	0·0	0	0
18	30·055	35·7	35·3	34·8	·202	2·4	0·1	96	562	N	0·0	0	0
19	30·089	35·3	34·7	33·8	·194	2·2	0·2	94	563	N	0·0	0	0
20	30·114	34·7	34·0	32·9	·187	2·2	0·2	93	565	N	0·0	0	0
21	30·148	35·2	33·9	31·8	·179	2·1	0·3	87	565	N	0·0	7	0
22	30·183	38·3	35·7	32·1	·182	2·1	0·6	78	562	N	0·0	10	0
23	30·197	38·5	35·8	32·1	·182	2·1	0·6	78	562	NNE	0·0	6	0
Dec. 15. 0	30·197	39·7	37·0	33·5	·192	2·2	0·6	78	561	NNE	0·0	0	0
1	30·210	39·2	36·5	32·9	·187	2·2	0·6	79	561	NNE	0·0	1	0
2	30·232	39·1	36·8	33·7	·193	2·3	0·5	82	562	NNE	0·0	3	0
3	30·245	38·9	36·8	34·0	·196	2·3	0·5	84	562	NNE	0·0	6	0
4	30·271	36·7	35·6	34·1	·196	2·2	0·3	91	565	NNE	0·0	3	0
5	30·293	35·4	34·3	32·5	·184	2·2	0·3	90	567	NNE	0·0	0	0
6	30·309	34·9	34·3	33·4	·191	2·2	0·2	94	568	NNE	0·0	0	0
7	30·335	35·6	34·7	33·4	·191	2·2	0·3	92	568	NNE	0·0	5	0
8	30·346	33·8	33·5	33·1	·188	2·1	0·1	96	571	NNE	0·0	7	0
9	30·358	33·5	33·2	32·7	·186	2·1	0·1	97	571	NE	0·0	5	0
10	30·375	32·6	32·5	32·4	·184	2·1	0·1	99	572	NE	0·0	0	0
11	30·385	33·0	32·8	32·4	·184	2·2	0·1	97	572	NNE	0·0	2	0
Dec. 21. 12	30·160	42·6	40·8	38·7	·235	2·7	0·4	87	556	W	0·0	10	0
13	30·143	42·6	40·8	38·7	·235	2·7	0·4	87	556	W	0·0	10	0
14	30·113	42·8	41·3	39·5	·242	2·8	0·4	88	555	W	0·0	10	0
15	30·109	43·0	41·5	39·7	·244	2·8	0·4	87	555	W	0·0	10	0
16	30·075	43·0	42·8	42·6	·273	3·1	0·1	98	554	W	0·0	10	0
17	30·032	43·0	41·4	39·5	·242	2·8	0·4	86	554	W	0·0	10	0
18	30·012	43·0	41·4	39·5	·242	2·8	0·4	86	553	W	0·0	10	0
19	29·998	43·0	41·5	39·7	·244	2·8	0·4	87	553	W	0·0	10	0
20	29·989	43·0	41·5	39·7	·244	2·8	0·4	87	552	W	0·0	10	0
21	29·978	44·7	42·0	38·8	·236	2·7	0·6	80	551	W	0·0	10	0
22	29·974	43·8	42·2	40·2	·249	2·8	0·4	88	552	W	0·0	10	0
23	29·961	44·4	42·2	39·6	·243	2·8	0·5	83	551	W	0·0	10	0
Dec. 22. 0	29·926	44·7	42·7	40·3	·250	2·8	0·5	84	550	W	0·0	10	0
1	29·904	45·2	43·2	40·9	·256	2·9	0·6	85	549	W	0·0	10	0
2	29·882	45·2	45·0	44·8	·297	3·4	0·1	99	548	W	0·0	10	0
3	29·865	45·1	43·0	40·6	·255	2·9	0·5	84	548	W	0·0	10	0
4	29·845	44·5	42·7	40·5	·252	2·9	0·5	86	549	WNW	0·0	10	0
5	29·837	44·0	42·2	40·0	·247	2·8	0·5	86	549	WNW	0·0	10	0
6	29·833	43·7	42·0	40·0	·247	2·8	0·4	86	549	W	0·0	10	0
7	29·829	43·5	42·0	40·2	·249	2·8	0·4	88	549	W	0·0	10	0
8	29·826	43·7	42·2	40·4	·251	2·8	0·4	86	549	W	0·0	10	0
9	29·821	43·7	42·3	40·7	·254	2·9	0·4	87	549	W	0·0	10	0
10	29·803	43·0	41·8	40·4	·251	2·9	0·3	89	549	W	0·0	10	0
11	29·799	43·1	41·8	40·3	·250	2·9	0·3	88	549	W	0·0	10	0
Dec. 28. 12	29·699	27·7	27·3	25·8	·140	1·6	0·1	92	565	WSW	0·0	0	0
13	29·721	27·7	27·4	26·2	·142	1·6	0·1	94	565	WSW	0·0	0	0
14	29·747	27·5	27·3	26·4	·143	1·7	0·1	99	566	WSW	0·0	0	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
	°	°			
Dec. 8. 8	..	..	..	..	Overcast ; hard wind ; a few drops of rain fall occasionally.
9	..	..	..	..	Overcast ; heavy squalls of wind and rain.
10	..	..	..	..	Overcast ; heavy squalls of wind and rain.
11	..	..	..	..	Overcast ; heavy squalls of wind and rain.
Dec. 14. 12	25	35	..	..	Light clouds near the horizon.
13	20	30	..	..	Cloudless.
14	20	25	..	..	Cloudless.
15	25	35	..	..	Cloudless.
16	20	35	..	..	Cloudless.
17	20	30	..	..	Cloudless.
18	20	30	..	..	Cloudless ; lunar halo.
19	40	40	..	..	Cloudless ; lunar halo.
20	60	40	..	..	Cloudless ; fog and haze.
21	Out of range	40	1° to B	..	Partially cloudy.
22	60	40	..	..	Overcast.
23	80	40	..	..	Partially cloudy.
Dec. 15. 0	Out of range	40	1 to B	..	Cloudless.
1	Out of range	40	1 to B	..	Partially cloudy.
2	Out of range	40	1 to B	..	Partially cloudy.
3	80	40	..	..	Partially cloudy.
4	Out of range	40	1 to B	..	Partially cloudy.
5	Out of range	40	1 to B	..	Cloudless.
6	Out of range	40	1 to B	..	Cloudless.
7	Out of range	40	3 to B	2 in 1^s at 0·010	Partially cloudy.
8	Out of range	40	5 to B	2 in 1^s at 0·015	Partially cloudy.
9	Out of range	40	5 to B	4 in 1^s at 0·015	Partially cloudy ; haze.
10	Out of range	40	5 to B	..	Cloudless ; moon surrounded by mist.
11	Out of range	40	5 to B	..	Light clouds near the Moon.
Dec. 21. 12	60	40	..	..	Overcast.
13	10	10	..	..	Overcast.
14	10	10	..	..	Overcast.
15	5	10	..	..	Overcast ; strong wind.
16	5	10	..	..	Overcast ; strong wind.
17	10	20	..	..	Overcast ; strong wind.
18	30	40	..	..	Overcast ; strong wind.
19	40	40	..	..	Overcast ; very dark ; strong wind.
20	60	40	..	..	Overcast ; slight haze.
21	Out of range	40	..	..	Overcast.
22	70	40	..	..	Overcast.
23	60	40	..	..	Overcast.
Dec. 22. 0	60	40	..	..	Overcast.
1	80	40	..	..	Overcast.
2	Out of range	40	..	..	Overcast.
3	Out of range	40	3 to B	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	2 to B	..	Overcast ; thin fog.
6	80	40	..	..	Overcast ; fog and haze.
7	Out of range	40	2 to B	..	Overcast ; very dark.
8	Out of range	40	3 to B	..	Overcast ; thin fog.
9	60	40	2 to B	..	Overcast ; a very dark night.
10	Out of range	40	2 to B	..	Overcast.
11	Out of range	40	2 to B	..	Overcast.
Dec. 28. 12	Out of range	40	2 to B	1 in 1^s at 0·040	Cloudless.
13	Out of range	40	2 to B	1 in 1^s at 0·025	Cloudless.
14	30	30	..	..	Cloudless.

December 8. The insulating lamp on the Electrometer pole was not burning.

1856. Month, Day, and Hour.		Readings of			Hygrometrical Deductions.						Wind.		Clouds.	Ozone.
		Barometer corrected to 32° Fahr.	Dry Thermometer.	Wet Thermometer.	Dew Point.	Elastic Force of Vapour.	Vapour in a Cubic Foot of Air.	Vapour required to saturate a Cubic Foot of Air.	Degree of Humidity (Sat.=100)	Weight of a Cubic Foot of Air.	Direction.	Pressure.	0—10.	0—10.
d	h	in.	°	°	°	in.	gr.	gr.		gr.		lbs.		
Dec. 28.	15	29·771	27·8	27·5	26·5	·144	1·6	0·1	94	567	WSW	0·0	0	0
	16	29·787	28·4	27·9	26·1	·142	1·6	0·2	91	566	WSW	0·0	0	0
	17	29·801	27·1	26·9	26·2	·142	1·7	0·1	96	568	WSW	0·0	0	0
	18	29·839	27·0	26·8	25·9	·140	1·7	0·1	95	569	WSW	0·0	0	0
	19	29·867	26·6	26·4	25·6	·139	1·7	0·1	98	570	WSW	0·0	0	0
	20	29·892	28·8	28·5	27·6	·151	1·8	0·2	96	568	WSW	0·0	0	0
	21	29·912	29·0	28·5	26·7	·145	1·8	0·1	91	568	WSW	0·0	4	0
	22	29·931	30·8	29·5	26·0	·141	1·6	0·4	82	566	W	0·0	7	0
	23	29·955	33·9	31·6	27·6	·151	1·8	0·5	77	563	W	0·0	9	0
Dec. 29.	0	29·956	34·8	32·4	28·5	·156	1·8	0·5	77	562	W	0·0	10	0
	1	29·861	35·6	33·4	30·0	·167	1·9	0·5	80	559	W	0·0	10	0
	2	29·974	36·2	34·1	31·0	·174	2·0	0·5	81	560	W	0·0	10	0
	3	29·975	36·2	34·0	30·8	·172	2·0	0·5	81	560	W	0·0	10	0
	4	29·974	36·6	34·3	31·0	·174	2·0	0·5	80	560	W	0·0	8	0
	5	29·977	36·6	34·5	31·5	·177	2·0	0·5	82	560	W	0·0	10	0
	6	29·980	36·7	35·0	32·7	·186	2·1	0·4	85	560	W	0·0	10	0
	7	29·984	37·1	35·5	33·3	·190	2·2	0·4	86	560	WNW	0·0	10	0
	8	29·987	37·6	36·0	33·9	·195	2·2	0·4	86	559	WNW	0·0	10	0
	9	29·994	38·4	36·8	34·7	·201	2·4	0·4	87	559	WNW	0·0	10	0
	10	30·021	38·1	36·8	35·1	·204	2·4	0·3	88	559	WNW	0·0	10	0
	11	30·023	38·1	36·8	55·1	·204	2·4	0·3	88	559	WNW	0·0	10	0

1856. Month, Day, and Hour.	Electrical Indications. Divergence of Straws of Volta 1.	Inclination of Gold Leaf of Dry Pile.	Divergence of Needle of Galvanometer towards A or B.	Distance in Inches between Balls of Ronalds' Spark-measurer, No. of Sparks, &c.	Clouds and Weather.
d h	°	°			
Dec. 28. 15	40	40	..	..	Cloudless.
16	40	40	..	..	Cloudless.
17	70	40	..	..	Cloudless.
18	Out of range	40	2° to B	1 in 1″ at 0·025	Cloudless.
19	Out of range	40	3 to B	1 in 1″ at 0·020	Cloudless.
20	Out of range	40	2 to B	1 in 1″ at 0·015	Cloudless.
21	Out of range	40	3 to B	..	Light clouds here and there.
22	Out of range	40	3 to B	..	Partially cloudy.
23	Out of range	40	3 to B	..	Overcast.
Dec. 29. 0	Out of range	40	2 to B	..	Overcast.
1	Out of range	40	2 to B	..	Overcast.
2	Out of range	40	2 to B	..	Overcast.
3	Out of range	40	2 to B	..	Overcast.
4	Out of range	40	..	..	Overcast.
5	Out of range	40	..	..	Overcast; scud.
6	Out of range	40	..	..	Overcast; sleet falling.
7	Out of range	40	..	..	Overcast.
8	Out of range	40	..	..	Overcast.
9	Out of range	40	..	2 in 1″ at 0·025	Overcast.
10	Out of range	40	..	2 in 1″ at 0·025	Overcast.
11	Out of range	40	..	..	Overcast.

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, 1856.		Reading.	Approximate Mean Solar Time, 1856.		Reading.	Approximate Mean Solar Time, 1856.		Reading.	Approximate Mean Solar Time, 1856.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	12. 22. 30	30·550	January	7. 9. 0	28·854	July	29. 21. 0	30·142	July	23. 21. 0	29·500
	22. 9. 0	29·329		20. 9. 0	28·937	August	4. 21. 0	30·113	August	2. 9. 0	29·914
	31. 9. 0	30·083		24. 0. 0	28·830		12. 21. 0	29·855		8. 9. 0	29·502
February	5. 3. 0	30·056	February	4. 3. 0	29·851		19. 9. 0	29·491		17. 21. 0	29·299
	8. 9. 0	29·934		6. 9. 0	29·480		23. 3. 0	30·037		20. 21. 0	29·192
	16. 22. 15	29·752		13. 9. 0	29·537		26. 3. 0	29·839		25. 9. 0	29·699
March	1. 0. 0	30·527		18. 9. 0	29·603		29. 21. 0	30·049		28. 9. 0	29·606
	7. 9. 0	30·249	March	6. 3. 0	30·030	September	2. 21. 0	30·166	September	1. 9. 0	29·607
	15. 0. 0	30·041		12. 0. 0	29·846		14. 21. 0	30·103		6. 9. 0	29·572
	23. 8. 0	30·082		18. 21. 0	29·668		20. 9. 0	29·984		17. 9. 0	29·715
	29. 22. 30	30·144		26. 9. 0	29·768		25. 21. 0	29·485		24. 9. 0	28·953
April	7. 9. 0	29·383	April	6. 2. 45	29·142	October	2. 21. 0	29·724		27. 22. 50	28·688
	11. 0. 0	29·556		9. 21. 0	29·049		9. 21. 0	30·116	October	3. 21. 0	29·558
	19. 22. 30	30·172		11. 21. 0	29·358		12. 21. 0	30·103		11. 3. 0	29·864
	30. 9. 0	29·529		26. 9. 0	29·331		16. 21. 0	30·233		15. 3. 0	29·255
May	3. 9. 0	29·972	May	0. 21. 0	29·350		24. 9. 0	30·371		20. 3. 0	30·038
	8. 21. 0	30·039		6. 21. 0	29·271	November	1. 9. 0	30·266		30. 21. 0	29·992
	16. 21. 0	29·539		15. 9. 0	29·297		6. 21. 0	30·476	November	3. 3. 0	30·074
	19. 21. 0	29·936		18. 1. 0	29·331		16. 9. 0	30·140		11. 0. 0	29·220
	25. 21. 0	29·762		23. 9. 0	29·357		21. 9. 0	30·146		20. 0. 0	29·895
	29. 21. 0	30·002		27. 21. 0	29·468		25. 9. 0	29·943		24. 0. 0	29·686
June	7. 0. 0	30·146		31. 9. 0	29·583	December	2. 0. 0	29·852		26. 0. 0	29·444
	15. 21. 0	30·009	June	13. 9. 0	29·445		3. 21. 0	29·960	December	3. 0. 0	29·652
	28. 22. 20	30·153		19. 9. 0	29·382		7. 21. 0	29·464		6. 3. 0	29·348
July	2. 21. 0	30·115		30. 3. 0	29·894		11. 0. 0	29·394		10. 3. 0	29·181
	10. 3. 0	29·807	July	7. 21. 0	29·187		16. 0. 0	30·457		13. 0. 0	28·733
	14. 9. 0	29·878		12. 9. 0	29·659		20. 0. 0	30·428		18. 0. 0	29·742
	16. 21. 0	29·988		15. 21. 0	29·643		30. 21. 0	30·126		25. 21. 0	28·749

In the formation of this table several secondary waves have been included in addition to the primary waves mentioned in the foot notes to the *Results of Ordinary Meteorological Observations.*

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1856.

1856. Month.	Mean Reading of the Barometer.	Temperature of the Air.							Mean Temperature of Dew Point.
		Highest.	Lowest.	Range in the Month.	Mean of all the Highest.	Mean of all the Lowest.	Mean Daily Range.	Mean Temperature.	
	in.	°	°	°	°	°	°	°	°
January	29·468	54·0	24·3	29·7	43·8	35·2	8·6	39·3	36·4
February	29·899	58·0	27·5	30·5	47·4	37·6	9·8	42·0	38·1
March	30·011	58·0	24·7	33·3	45·7	33·3	12·4	38·9	33·1
April	29·614	73·0	30·6	42·4	57·4	38·2	19·2	46·8	38·7
May	29·647	72·0	29·8	42·2	59·1	42·6	16·5	49·5	43·0
June	29·877	83·1	41·1	42·0	70·8	50·0	20·8	58·8	51·3
July	29·831	87·5	44·0	43·5	73·3	52·4	20·9	61·1	54·2
August	29·746	89·8	45·0	44·8	75·9	54·7	21·2	63·6	55·8
September	29·653	72·5	40·0	32·5	65·5	47·6	17·9	55·2	47·5
October	29·991	66·2	31·4	34·8	59·9	45·8	14·1	51·7	49·0
November	29·902	58·0	19·4	38·6	47·1	35·1	12·0	40·7	36·8
December	29·645	58·9	18·5	40·4	45·1	35·3	9·8	40·2	37·2
Means	29·774	69·3	31·4	37·9	57·6	42·3	15·3	49·0	43·4

1856. Month.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required to saturate a Cubic Foot of Air.	Mean Degree of Humidity. (Sat. = 100.)	Mean Weight of a Cubic Foot of Air.	Wind.			Mean Amount of Cloud. 0–10	Rain.	
						Prevailing Direction.	Mean Daily Pressure in lbs. on Square Foot.	Mean Daily Horizontal Movement of Wind in Miles.		Number of Rainy Days.	Amount collected on the Ground.
	in.	gr.	gr.		gr.						in.
January	·215	2·5	0·4	90	547	S	0·12	97	7·6	18	2·1
February	·230	2·6	0·5	86	552	S; W	0·22	131	8·4	10	0·9
March	·188	2·2	0·6	81	558	E; N	0·14	99	8·0	6	1·1
April	·235	2·7	1·0	74	542	S; E	0·36	133	6·8	13	2·3
May	·277	3·1	0·9	79	539	N; S	0·43	148	8·1	18	3·5
June	·378	4·3	0·9	76	536	W; S	0·12	77	7·2	7	1·6
July	·421	4·7	1·3	78	529	W; S	0·27	90	7·1	13	0·9
August	·446	4·9	1·4	77	525	S; W	0·22	69	6·2	10	2·4
September	·329	3·8	1·1	76	533	W	0·15	94	6·7	17	2·8
October	·348	3·9	0·4	91	543	E	0·07	49	7·3	10	1·1
November	·218	2·5	0·4	86	554	N; W	0·15	94	7·5	10	1·1
December	·222	2·6	0·3	90	550	W; S	0·14	140	7·4	13	1·1
Means	·292	3·3	0·8	82	542	..	..	..	7·4	Sum 141	Sum 23·2

READINGS OF THERMOMETERS SUNK IN THE GROUND.

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

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·20	50·30	49·50	48·83	48·22	*S*	48·18	48·92	49·91	50·80	51·45	51·64
2	51·12	50·25	*S*	48·81	48·23	48·03	48·23	48·94	49·48	50·85	*S*	51·64
3	51·15	*S*	49·45	48·76	48·20	48·04	48·26	*S*	49·95	50·86	51·47	51·64
4	51·08	50·23	49·41	48·81	*S*	48·04	48·30	48·98	50·00	50·90	51·48	51·65
5	51·10	50·20	49·40	48·69	48·18	48·03	48·28	49·12	50·05	*S*	51·50	51·68
6	*S*	50·29	49·38	*S*	48·17	48·03	*S*	49·10	50·08	50·85	51·53	51·75
7	51·05	50·17	49·35	48·66	48·16	48·05	48·29	49·08	*S*	50·70	51·51	*S*
8	51·02	50·14	49·31	48·63	48·14	*S*	48·28	49·08	50·15	50·98	51·53	51·70
9	50·98	50·11	*S*	48·63	48·15	48·04	48·33	49·13	50·18	50·98	*S*	51·71
10	50·96	*S*	49·24	48·61	48·13	48·06	48·22	*S*	50·18	51·04	51·54	51·70
11	50·92	50·05	49·20	48·61	*S*	48·03	48·36	49·25	50·35	51·07	51·55	51·69
12	50·90	50·05	49·20	48·56	48·13	48·03	48·38	49·26	50·24	*S*	51·57	51·67
13	*S*	50·00	49·15	*S*	48·12	48·06	*S*	49·30	50·27	51·15	51·53	51·66
14	50·85	49·97	49·15	48·53	48·13	48·04	48·45	49·32	*S*	51·13	51·57	*S*
15	50·85	49·94	49·10	48·81	48·08	*S*	48·45	49·36	50·33	51·18	51·58	51·65
16	50·80	49·90	*S*	48·47	48·03	48·07	48·43	49·32	50·33	51·18	*S*	51·60
17	50·77	*S*	49·10	48·47	48·07	48·05	48·48	*S*	50·40	51·23	51·60	51·61
18	50·75	49·81	49·10	48·38	*S*	48·07	48·54	49·38	50·33	51·22	51·63	51·62
19	50·72	49·79	49·10	48·43	48·10	48·07	48·60	49·42	50·38	*S*	51·64	51·61
20	*S*	49·75	49·10	*S*	48·07	48·08	*S*	49·48	50·46	51·34	51·70	51·58
21	50·68	49·71	Good Friday.	48·40	48·09	48·08	48·58	49·48	*S*	51·33	51·65	*S*
22	50·60	49·70	49·00	48·37	48·07	*S*	48·64	49·53	50·56	51·35	51·65	51·55
23	50·64	49·68	*S*	48·46	48·06	48·14	48·65	49·54	50·57	51·32	*S*	51·53
24	50·58	*S*	48·90	48·36	48·05	48·14	48·64	*S*	50·60	51·35	51·66	51·53
25	50·55	49·64	48·92	48·35	*S*	48·15	48·68	49·63	50·64	51·35	51·65	Christ. Day.
26	50·52	49·64	48·87	48·31	48·07	48·18	48·71	49·65	50·68	*S*	51·70	51·46
27	*S*	49·60	48·87	*S*	48·04	48·16	*S*	49·68	50·70	51·42	51·67	51·45
28	50·44	49·55	48·87	48·27	48·00	48·18	48·77	49·73	*S*	51·38	51·65	*S*
29	50·39	49·55	48·85	48·26	48·00	*S*	48·87	49·75	50·73	51·38	51·64	51·40
30	50·35		*S*	48·24	48·02	48·18	48·85	49·85	50·80	51·40	*S*	51·42
31	50·34		48·80		48·01		48·88	*S*		51·42		51·42
Means	50·75	49·93	49·13	48·53	48·10	48·08	48·53	49·32	50·32	51·15	51·58	51·60

(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 the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	48·25	46·75	46·15	45·60	46·25	*S*	50·28	53·01	55·25	55·33	54·42	52·10
2	48·20	46·75	*S*	45·58	46·36	47·81	50·37	53·08	55·17	55·30	*S*	52·05
3	48·20	*S*	46·10	45·63	46·41	47·79	50·47	*S*	55·26	55·27	54·16	51·90
4	48·06	46·75	46·10	45·60	*S*	47·88	50·62	53·15	55·32	55·23	54·28	51·85
5	48·10	46·70	46·10	45·53	46·51	47·94	50·62	53·31	55·32	*S*	54·25	51·85
6	*S*	46·70	46·10	*S*	46·53	47·99	*S*	53·35	55·31	55·12	54·18	51·79
7	48·00	46·70	46·10	45·50	46·56	48·11	50·82	53·43	*S*	55·15	54·13	*S*
8	47·95	46·60	46·10	45·51	46·55	*S*	50·82	53·44	55·38	55·10	54·05	51·54
9	47·88	46·57	*S*	45·63	46·69	48·26	51·13	53·51	55·43	55·01	*S*	51·50
10	47·80	*S*	45·85	45·63	46·71	48·33	51·13	*S*	55·20	55·02	53·92	51·33
11	47·75	46·45	45·85	45·65	*S*	48·36	51·26	53·85	55·39	54·98	53·88	51·25
12	47·70	46·40	45·90	45·61	46·84	48·40	51·38	53·90	55·33	*S*	53·82	51·08

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

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
13	*S*	46·40	45·85	*S*	46·81	48·57	*S*	54·04	55·35	54·99	53·73	51·00
14	47·75	46·42	45·90	45·61	46·81	48·64	51·56	54·08	*S*	54·88	53·66	*S*
15	47·60	46·30	45·85	45·63	46·81	*S*	51·66	54·20	55·41	54·87	53·60	50·76
16	47·70	46·25	*S*	45·61	46·83	48·86	51·73	54·23	55·40	54·85	*S*	50·58
17	47·55	*S*	45·80	45·71	46·82	48·85	51·83	*S*	55·40	54·90	53·60	50·60
18	47·55	46·20	45·86	45·71	*S*	49·06	51·86	54·33	55·36	54·81	53·38	50·54
19	47·50	46·19	45·80	45·76	47·05	49·13	52·10	54·42	55·37	*S*	53·31	50·48
20	*S*	46·19	45·80	*S*	46·98	49·27	*S*	54·56	55·27	54·60	53·25	50·40
21	47·40	46·15	Good Friday.	45·86	47·05	49·33	52·18	54·60	*S*	54·85	53·13	*S*
22	47·18	46·20	45·80	45·81	47·08	*S*	52·24	54·69	55·45	54·80	53·06	50·30
23	47·20	46·20	*S*	45·91	47·11	49·55	52·33	54·73	55·42	54·70	*S*	50·23
24	47·15	*S*	45·60	45·98	47·16	49·68	52·34	*S*	55·41	54·70	52·91	50·20
25	47·05	46·21	45·87	46·07	*S*	49·77	52·42	54·90	55·41	54·65	52·70	Christ. Day
26	47·00	46·20	45·66	46·07	47·28	49·92	52·50	54·91	55·45	*S*	52·60	50·04
27	*S*	46·15	45·66	*S*	47·31	50·01	*S*	55·08	54·90	54·65	52·53	49·95
28	46·88	46·15	45·70	46·14	47·30	50·07	52·63	55·14	*S*	54·53	52·40	*S*
29	46·85	46·15	45·65	46·18	47·35	*S*	52·69	55·10	55·33	54·48	52·30	49·81
30	46·80		*S*	46·25	47·44	50·23	52·81	55·20	55·40	54·52	*S*	49·84
31	46·75		45·64		47·51		52·91	*S*		54·50		49·75
Means.	47·69	46·39	45·87	45·76	46·89	48·87	51·64	54·12	55·33	54·89	53·49	50·87

(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 the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	44·10	44·40	44·40	44·58	47·98	*S*	55·55	58·00	58·90	56·98	54·50	49·32
2	44·19	44·20	*S*	44·47	47·98	51·17	55·71	58·06	59·08	56·80	*S*	49·12
3	44·40	*S*	44·54	44·42	48·01	51·22	56·02	*S*	59·10	56·72	54·05	48·80
4	44·38	44·00	44·60	44·49	*S*	51·28	56·30	58·05	59·20	56·65	54·03	48·28
5	44·50	43·75	44·70	44·51	47·88	51·33	56·37	58·40	59·10	*S*	53·95	48·12
6	*S*	43·60	44·70	*S*	47·80	51·49	*S*	58·30	59·10	56·47	53·85	47·90
7	44·65	43·50	44·70	44·86	47·81	51·79	56·73	59·00	*S*	56·41	53·71	*S*
8	44·70	43·42	44·70	45·12	47·77	*S*	56·64	59·02	59·20	56·40	53·52	47·47
9	44·80	43·40	*S*	45·49	47·75	52·22	56·99	59·08	59·20	56·45	*S*	47·50
10	44·80	*S*	44·50	45·46	47·73	52·48	57·13	*S*	58·82	56·47	53·04	47·58
11	44·50	43·70	44·45	45·60	*S*	52·68	57·12	58·40	58·82	56·36	52·81	47·73
12	44·88	43·90	44·40	45·70	47·66	52·80	57·06	58·35	58·76	*S*	52·62	47·87
13	*S*	44·09	44·50	*S*	47·77	53·18	*S*	58·50	58·70	56·42	52·38	47·92
14	44·75	44·25	44·40	45·89	47·77	53·42	57·02	58·50	*S*	56·33	52·13	*S*
15	44·50	44·40	44·30	46·07	48·08	*S*	57·08	58·50	58·76	56·30	51·87	48·11
16	44·60	44·60	*S*	46·23	48·26	53·85	57·05	59·10	58·82	56·26	*S*	48·12
17	44·20	*S*	44·20	46·51	48·41	53·87	57·13	*S*	58·70	56·31	51·40	48·12
18	44·05	44·80	44·10	46·61	*S*	54·02	57·18	59·41	58·56	56·22	51·17	48·10
19	43·90	44·86	44·00	46·73	48·70	54·06	57·40	59·47	58·50	*S*	50·90	47·93
20	*S*	44·90	44·00	*S*	48·83	54·22	*S*	59·60	58·50	56·12	50·68	47·84
21	43·80	44·82	Good Friday.	46·90	48·95	54·28	57·24	59·20	*S*	56·03	50·40	*S*
22	43·79	44·78	44·10	46·96	48·99	*S*	57·42	59·24	58·60	55·92	50·30	47·50
23	43·90	44·67	*S*	47·08	49·14	54·41	57·53	59·18	58·50	55·80	*S*	47·41
24	44·10	*S*	44·10	47·19	49·38	54·48	57·59	*S*	58·40	55·70	50·16	47·42
25	44·20	44·31	44·43	47·31	*S*	54·61	57·54	59·22	58·50	55·62	49·98	Christ. Day
26	44·30	44·30	44·31	47·40	49·81	54·69	57·68	59·18	57·90	*S*	50·00	47·30

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

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°		°	°	°	°	°
27	*S*	44·27	44·59	*S*	49·99	54·79	*S*	59·20	57·80	55·53	49·98	47·14
28	44·60	44·25	44·60	47·69	50·12	54·88	57·54	59·11	*S*	55·30	49·88	*S*
29	44·55	44·30	44·60	47·85	50·30	*S*	57·62	59·05	57·18	55·07	49·61	46·83
30	44·60		*S*	47·95	50·58	55·37	57·90	58·80	57·10	55·02	*S*	46·71
31	44·50		44·57		50·72		57·80	*S*		54·80		46·40
Means.	44·38	44·22	44·42	46·12	48·60	53·29	57·05	58·84	58·61	56·09	51·88	47·79

At temperatures above 57°·5, the fluid of this thermometer enters the upper bulb; the estimated readings from July 23 to September 27 are therefore liable to some uncertainty.

(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 the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	41·30	40·10	42·80	42·14	48·01	*S*	60·77	63·43	61·90	55·99	51·83	44·08
2	41·18	39·60	*S*	42·50	47·69	52·89	61·00	64·08	61·75	55·95	*S*	43·40
3	41·40	*S*	42·90	42·36	47·21	53·11	61·22	*S*	61·60	55·91	52·17	45·76
4	41·40	39·10	42·85	43·90	*S*	53·82	61·40	64·90	61·20	56·10	52·07	42·10
5	41·88	38·90	42·80	44·40	47·00	54·63	61·31	65·30	60·90	*S*	51·75	41·90
6	*S*	39·10	42·60	*S*	46·91	55·31	*S*	65·20	60·55	56·58	51·31	42·00
7	42·40	39·70	42·50	44·74	46·92	55·55	61·33	65·90	*S*	56·65	50·60	*S*
8	42·50	40·60	42·30	44·97	46·88	*S*	61·13	65·60	60·50	56·60	50·30	44·13
9	42·50	41·50	*S*	45·20	46·77	56·12	60·64	65·40	60·40	56·50	*S*	45·03
10	42·10	*S*	41·85	45·29	46·68	56·81	60·00	*S*	60·26	56·38	49·51	45·70
11	42·60	42·60	41·90	45·63	*S*	57·25	59·72	65·40	60·38	56·33	49·05	46·30
12	41·05	43·00	42·00	45·89	47·99	57·60	59·95	65·20	60·65	*S*	48·50	46·50
13	*S*	43·30	41·60	*S*	48·83	57·82	*S*	65·10	60·72	56·42	48·03	46·50
14	40·10	43·70	41·40	46·80	48·83	57·77	59·16	65·20	*S*	56·38	47·70	*S*
15	39·70	43·80	41·25	47·12	49·51	*S*	60·31	65·30	60·32	56·28	47·37	46·12
16	39·50	43·95	*S*	47·09	49·44	57·39	60·47	64·90	59·96	56·02	*S*	45·45
17	39·10	*S*	41·00	47·03	49·62	57·20	60·72	*S*	59·78	55·92	46·40	44·80
18	39·40	43·00	41·10	47·03	*S*	57·52	60·41	64·40	59·50	55·70	45·90	44·12
19	40·00	43·10	41·60	47·13	49·75	57·51	60·57	64·01	59·37	*S*	45·78	44·00
20	*S*	42·55	42·00	*S*	48·88	57·54	*S*	63·50	58·80	55·30	45·88	43·95
21	41·30	42·10	Good Friday.	47·43	49·72	57·39	60·68	63·02	*S*	55·35	46·06	*S*
22	41·85	41·55	42·80	47·51	50·66	*S*	60·93	62·61	57·70	55·30	46·30	44·10
23	42·10	41·20	*S*	47·81	51·48	57·23	61·25	62·15	57·55	55·07	*S*	44·21
24	42·30	*S*	42·80	47·60	51·66	57·36	61·42	*S*	57·20	55·00	47·10	44·30
25	42·70	41·31	42·87	48·18	*S*	57·51	61·94	61·51	57·00	54·97	47·37	Christ. Day.
26	42·80	41·40	42·79	48·63	52·28	58·02	62·10	61·47	56·80	*S*	47·10	43·40
27	*S*	41·70	42·78	*S*	52·55	58·75	*S*	61·57	56·53	54·22	46·47	45·75
28	42·45	42·21	42·50	49·21	52·98	59·58	61·91	61·60	*S*	53·40	45·98	*S*
29	41·90	42·60	42·30	48·80	53·45	*S*	62·05	61·79	56·12	52·73	45·47	41·66
30	41·30		*S*	48·38	53·68	59·68	62·22	61·90	56·10	52·20	*S*	41·20
31	40·65		42·18		53·42		62·72	*S*		51·84		40·92
Means.	41·39	41·66	42·22	46·26	49·57	56·85	61·01	63·90	59·32	55·37	48·24	44·13

At temperatures exceeding 64°·5, the fluid of this thermometer enters the upper bulb; the estimated readings from August 4 to August 16 are therefore liable to some uncertainty.

(V.)—Reading of a Thermometer whose bulb is sunk to the depth of one inch below the surface of the soil, within the case which covers the tops of the deep-sunk Thermometers, at the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	42·0	36·0	44·5	49·0	47·0	*S*	64·1	74·8	63·0	56·0	51·5	34·0
2	43·0	35·5	*S*	53·0	46·8	58·3	64·3	75·8	60·8	56·4	*S*	32·5
3	44·0	*S*	40·3	51·3	45·8	61·3	64·7	*S*	60·3	58·4	49·2	37·0
4	43·8	37·0	41·7	50·1	*S*	64·1	65·5	70·8	61·0	60·1	42·2	34·0
5	44·0	41·0	41·0	49·0	46·8	61·8	64·8	72·0	60·5	*S*	47·8	42·0
6	*S*	45·0	43·0	*S*	48·1	59·9	*S*	69·0	61·9	56·6	43·8	48·2
7	44·0	49·0	41·5	48·0	45·8	61·9	63·3	70·4	*S*	50·0	45·0	*S*
8	42·0	49·0	39·0	49·3	46·8	*S*	55·9	67·5	60·6	57·0	45·0	52·7
9	40·0	48·0	*S*	48·0	47·1	63·7	58·2	67·4	61·0	54·8	*S*	52·0
10	39·0	*S*	41·5	50·5	51·3	66·0	61·4	*S*	64·4	56·2	44·5	51·9
11	36·0	47·6	41·5	51·5	*S*	65·0	63·7	72·0	64·0	56·5	41·8	49·0
12	36·0	49·0	40·0	53·1	53·0	64·8	64·9	70·5	63·3	*S*	42·8	48·8
13	*S*	48·0	39·0	*S*	54·3	62·0	*S*	71·3	60·7	56·5	42·3	46·0
14	37·0	48·0	40·0	52·0	54·3	60·0	64·2	67·5	*S*	56·1	42·8	*S*
15	34·0	47·0	38·0	50·3	52·4	*S*	64·7	68·0	60·6	55·5	39·2	41·7
16	38·0	45·0	*S*	48·9	51·9	61·2	66·1	67·8	60·4	54·4	*S*	36·8
17	42·0	*S*	42·0	47·4	53·7	61·8	62·4	*S*	59·4	55·5	37·9	37·0
18	47·0	39·0	44·0	49·1	*S*	62·9	61·8	62·0	58·0	55·0	42·2	44·0
19	45·0	39·5	46·0	49·1	52·0	58·2	66·0	62·0	55·0	*S*	43·8	41·8
20	*S*	38·1	45·0	*S*	51·1	59·8	*S*	63·0	53·8	50·7	47·1	42·8
21	47·0	38·0	Good Friday.	51·7	58·3	58·6	63·9	61·4	*S*	56·0	46·0	*S*
22	42·0	37·0	44·0	51·8	56·4	*S*	67·9	63·3	56·5	54·9	48·1	44·4
23	46·0	40·0	*S*	51·0	58·0	60·2	69·2	58·1	57·0	55·8	*S*	42·0
24	48·0	*S*	41·0	51·8	56·4	61·9	68·0	*S*	56·1	56·1	50·5	40·5
25	46·0	42·0	41·9	56·8	*S*	65·2	66·1	62·8	55·3	53·8	43·1	Christ. Day
26	45·0	46·0	41·8	55·0	59·9	68·1	66·4	61·8	55·0	*S*	40·2	36·0
27	*S*	47·0	42·2	*S*	60·1	71·3	*S*	65·0	55·0	49·3	45·3	35·8
28	40·5	46·0	40·5	48·6	59·0	69·2	65·0	63·3	*S*	45·0	39·9	*S*
29	36·0	46·0	41·0	47·0	59·0	*S*	67·5	64·0	55·1	44·8	35·3	34·0
30	36·0		*S*	47·1	54·7	67·4	68·0	63·5	56·5	49·0	*S*	40·0
31	36·0		43·3		51·3		72·9	*S*		53·0		43·7
Means.	41·5	43·3	41·7	50·4	52·6	63·0	64·8	66·7	59·0	54·5	43·9	41·9

(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 deep-sunk Thermometers, at the same times.

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	43·0	35·5	43·0	63·5	47·0	*S*	67·5	85·4	69·0	61·8	51·2	32·1
2	45·5	33·0	*S*	64·0	48·0	67·9	69·1	86·7	63·3	62·3	*S*	29·0
3	46·0	*S*	45·0	55·1	46·8	72·1	69·5	*S*	66·5	61·6	47·7	36·3
4	44·5	40·0	40·6	53·4	*S*	73·6	72·5	79·2	68·0	62·5	45·6	31·8
5	45·0	45·6	41·0	54·0	50·1	64·9	68·8	81·5	65·5	*S*	47·8	50·1
6	*S*	48·0	43·0	*S*	51·4	64·1	*S*	73·0	48·8	55·4	47·1	53·5
7	45·5	53·0	41·5	54·0	44·8	70·1	61·8	78·8	*S*	58·0	46·0	*S*
8	41·0	52·0	40·0	51·8	47·0	*S*	49·2	69·3	67·0	56·7	44·0	56·9
9	35·0	54·0	*S*	50·0	48·1	68·1	61·3	67·6	69·8	53·8	*S*	55·5
10	38·0	*S*	43·0	53·2	60·0	71·4	67·8	*S*	71·3	58·3	41·6	53·8
11	32·0	48·0	42·0	56·0	*S*	73·5	67·5	81·0	68·5	57·4	41·2	50·0
12	35·5	50·0	43·0	57·9	55·7	66·0	67·8	75·0	68·8	*S*	41·6	51·9
13	*S*	49·5	41·0	*S*	55·7	63·8	*S*	79·5	61·8	60·1	41·8	48·0
14	36·0	52·0	40·0	56·0	55·7	60·3	66·3	72·0	*S*	56·7	41·0	*S*
15	35·0	50·0	38·0	53·8	56·3	*S*	67·8	72·5	66·0	55·5	40·1	40·0

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

Day of the Month, 1856.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
16	37·0	50·0	*S*	52·2	53·9	68·7	67·3	76·2	63·8	55·5	*S*	32·2
17	45·0	*S*	42·0	51·9	56·5	64·0	67·8	*S*	62·6	59·4	37·7	37·0
18	50·0	35·0	46·0	55·0	*S*	66·9	61·3	59·8	58·0	57·5	43·5	46·5
19	47·0	37·0	50·0	49·5	57·0	56·4	75·5	61·8	56·3	*S*	44·6	40·9
20	*S*	37·0	46·0	*S*	65·0	61·4	*S*	64·0	54·3	62·0	49·8	45·0
21	49·5	35·0	Good Friday.	61·3	68·7	62·9	66·2	62·8	*S*	62·0	46·2	*S*
22	39·0	37·5	48·0	56·0	56·4	*S*	73·9	67·1	60·5	60·6	51·3	44·5
23	50·0	44·0	*S*	58·6	63·1	61·8	79·0	58·4	62·0	58·2	*S*	38·9
24	49·0	*S*	41·0	56·7	57·1	68·2	68·3	*S*	58·7	58·8	53·6	40·3
25	47·0	46·0	41·6	68·8	*S*	73·3	71·4	64·2	61·2	54·0	38·8	Christ. Day.
26	49·0	50·5	41·2	58·8	66·9	76·4	74·0	64·9	61·0	*S*	37·9	32·3
27	*S*	49·0	48·9	*S*	67·1	80·5	*S*	70·6	54·0	55·0	44·0	31·0
28	41·5	46·0	43·5	52·0	65·2	75·6	69·4	68·1	*S*	45·3	38·0	*S*
29	34·0	51·0	43·0	47·9	61·5	*S*	74·5	67·0	57·1	44·2	31·0	31·8
30	34·0		*S*	47·1	55·3	76·0	75·4	71·0	62·0	55·0	*S*	44·0
31	35·5		55·7		48·8		82·8	*S*		56·3		47·4
Means.	41·8	45·1	43·1	55·3	55·5	68·3	69·0	71·4	63·3	57·2	43·7	42·3

WEEKLY MEANS of READINGS of THERMOMETERS.

1856. Period.				Thermometers sunk in the ground. Bulb, 24 French Feet deep.	Bulb, 12 French Feet deep.	Bulb, 6 French Feet deep.	Bulb, 3 French Feet deep.	Bulb, 1 Inch deep.	Thermometer inclosed in the box which covers the scales of the deep-sunk Thermometers, and placed on a level with their scales.
	d		d	°	°	°	°	°	°
January	1	to	7	51·12	48·13	44·37	41·59	43·5	46·6
	8	to	14	50·94	47·81	44·74	41·81	38·3	36·3
	15	to	21	50·76	47·55	44·17	39·83	42·2	43·9
	22	to	28	50·56	47·08	44·15	42·37	44·6	45·9
	29	to February	4	50·31	46·78	44·37	40·44	36·1	34·6
February	5	to	11	50·16	46·62	43·56	40.40	46·6	50·1
	12	to	18	49·95	46·33	44·34	43·46	46·0	47·8
	19	to	25	49·71	46·16	44·72	41·97	39·1	39·4
	26	to March	4	49·53	46·14	44·42	42·35	44·5	46·4
March	5	to	11	49·31	46·02	44·62	42·33	41·3	41·8
	12	to	18	49·13	45·85	44·32	41·39	40·5	41·7
	19	to	25	49·00	45·77	44·12	42·41	43·6	45·3
	26	to April	1	48·85	45·65	44·54	42·45	43·0	51·0
April	2	to	8	48·73	45·56	44·64	43·81	50·1	55·4
	9	to	15	48·63	45·63	45·70	45·99	51·0	54·5
	16	to	22	48·42	45·74	46·66	47·20	49·7	54·3
	23	to	29	48·34	46·06	47·42	48·37	51·7	57·1
	30	to May	6	48·21	46·39	47·93	47·53	46·9	48·4
May	7	to	13	48·14	46·69	47·75	47·35	49·7	51·9
	14	to	20	48·08	46·88	48·34	49·34	52·6	57·4
	21	to	27	48·06	47·17	49·38	51·31	58·2	63·2
	28	to June	3	48·02	47·53	50·69	53·26	57·3	61·8
June	4	to	10	48·04	48·09	51·76	55·37	62·9	68·7
	11	to	17	48·05	48·61	53·30	57·51	62·5	66·0
	18	to	24	48·10	49·34	54·24	57·43	60·3	62·9
	25	to July	1	48·17	50·09	54·98	59·05	67·6	74·9
July	2	to	8	48·27	50·62	56·29	61·23	63·1	65·2
	9	to	15	48·37	51·35	57·07	59·96	62·9	66·4
	16	to	22	48·55	51·99	57·24	60·63	64·7	68·7
	23	to	29	48·72	52·40	57·58	61·78	67·0	72·8
	30	to August	5	48·95	53·05	58·04	63·78	72·4	81·8
August	6	to	12	49·15	53·58	58·69	65·45	69·5	74·1
	13	to	19	49·35	54·22	58·91	64·82	66·4	70·3
	20	to	26	49·55	54·73	59·27	62·38	61·7	63·6
	27	to September	2	49·73	55·16	59·02	61·75	63·3	68·2
September	3	to	9	50·07	55·34	59·15	60·86	60·9	67·6
	10	to	16	50·28	55·35	58·78	60·38	62·3	66·1
	17	to	23	50·45	55·38	58·56	58·78	56·6	58·9
	24	to	30	50·69	55·15	57·81	56·63	55·5	59·0
October	1	to	7	50·83	55·32	56·67	56·20	55·9	60·3
	8	to	14	51·06	55·00	56·41	56·44	56·2	57·2
	15	to	21	51·25	54·81	56·21	55·76	54·6	58·7
	22	to	28	51·36	54·67	55·65	54·66	52·5	55·3
	29	to November	4	51·43	54·39	54·58	52·14	48·3	50·0
November	5	to	11	51·53	54·07	53·48	50·42	44·7	44·6
	12	to	18	51·58	53·63	51·93	47·32	41·2	40·9
	19	to	25	51·66	53·06	50·40	46·42	46·4	47·4
	26	to December	2	51·66	52·33	49·65	45·42	37·9	35·3
December	3	to	9	51·69	51·74	48·01	43·49	44·3	47·4
	10	to	16	51·66	50·00	47·89	46·10	45 7	45·9
	17	to	23	51·68	50·43	47·82	44·20	42·0	42·1
	24	to	31	51·45	49·93	46·97	42·87	38·3	37·8

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	
1855.	Dec.	31.	12.	The direction of the wind was S.
1856.	Jan.	31.	12.	,, ,, S.W., which implies a direct motion of 45°.
	Jan.	2.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	22.	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 January was 405°.

		d	h	
1856.	Jan.	31.	12.	The direction of the wind was S.W.
	Feb.	29.	12.	,, ,, N.E., which implies a direct motion of 180°.
	Feb.	4.	3.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of February was 180°.

		d	h	
1856.	Feb.	29.	12.	The direction of the wind was N.E.
	March	31.	12.	,, ,, S.E., which implies a direct motion of 90°.
	March	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	18.	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 March was 810°.

		d	h	
1856.	March	31.	12.	The direction of the wind was S.E.
	April	30.	12.	,, ,, S.E., which implies a retrograde motion of 360°.
	April	3.	2.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	15.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	26.	0.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	26.	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 April was 720°.

		d	h	
1856.	April	30.	12.	The direction of the wind was S.E.
	May	31.	12.	,, ,, N.W., which implies a direct motion of 180°.
	April	30.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

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

		d	h	
1856.	May	31.	12.	The direction of the wind was N.W.
	June	30.	12.	,, ,, N.E., which implies a direct motion of 90°.
	June	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct 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	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct 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 direct motion in the month of June was 2250°.

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

		d	h	
1856.	June	30.	12.	The direction of the wind was **N.E.**
	July	31.	12.	,, ,, **S.E.**, which implies a direct motion of 90°.
	July	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	4.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	22.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	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 July was 1170°.

		d	h	
1856.	July	31.	12.	The direction of the wind was **S.E.**
	August	31.	12.	,, ,, **W.**, which implies a retrograde motion of 225°.
	August	6.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	August	15.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	20.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	21.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of August was 495°.

		d	h	
1856.	August	31.	12.	The direction of the wind was **W.**
	Sept.	30.	12.	,, ,, **W.S.W.**, which implies a retrograde motion of $22\frac{1}{2}$°.
	Sept.	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	6.	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 $697\frac{1}{2}$°.

		d	h	
1856.	Sept.	30.	12.	The direction of the wind was **W.S.W.**
	Oct.	31.	12.	,, ,, **W.N.W.**, which implies a direct motion of $67\frac{1}{2}$°.
	Oct.	30.	3.	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 October was $427\frac{1}{2}$°.

		d	h	
1856.	Oct.	31.	12.	The direction of the wind was **W.N.W.**
	Nov.	30.	12.	,, ,, **N.N.W.**, which implies a direct motion of 45°.

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

		d	h	
1856.	Nov.	30.	12.	The direction of the wind was **N.N.W.**
	Dec.	31.	12.	,, ,, **W.S.W.**, which implies a retrograde motion of 90°.
	Dec.	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Dec.	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of December was 90°.

The whole excess of direct motion to the end of the year was 5850°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1856.

1856, MONTH.	Monthly Amount of Rain collected in each Gauge.			
	Osler's Anemometer Gauge.	On the Roof of the Library.	Crosley's.	Cylinder partly sunk in the Ground.
	in.	in.	in.	in.
January	1·2	2·0	2·1	2·1
February	0·6	0·8	0·9	0·9
March	0·8	1·2	1·0	1·1
April	1·2	1·7	1·9	2·3
May	2·3	3·3	3·4	3·5
June	1·2	1·6	1·5	1·6
July	0·8	1·1	1·2	0·9
August	1·8	2·2	2·2	2·4
September	2·0	2·5	2·6	2·8
October	1·3	1·6	1·6	1·6
November	0·7	1·1	1·2	1·6
December	1·1	1·1	1·6	1·7
Sums	15·0	20·2	21·2	[illegible]

6/1.1/1/

9/2/8/23.2/

The heights of the receiving surfaces are as follows:—

	Above the Level of the Sea.			Above the Ground.	
	Ft.	In.		Ft.	In.
Osler's Anemometer Gauge	205	6	.....	50	8
Gauge on the Roof of the Library	177	2	.....	22	4
Crosley's Gauge	156	6	.....	1	8
Cylinder Gauge	155	3	.....	0	5