RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1855.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1855.)

ROYAL OBSERVATORY, GREENWICH.

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INDICATIONS

OF

MAGNETOMETERS.

1855.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1855, of Mr. Glaisher, the Superintendant, and Mr. 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 1855, 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 26, February 2, 24, March 2, 3, April 14, 18, May 25, 29, June 15, July 5, 14, August 24, 25, September 11, October 3, 27, November 1, December 7 and 25.

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 1854, December 28 and 29.

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER, were made on 1855, January 1 and 2. The angle determined was 43°. 6′. 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 143°. 5o′ (marked end West); and 23o°. 34′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 143°. 5o′.

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 observations.

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 $17^s{\cdot}00$; from April 1 to October 10, was $18^s{\cdot}13$; and from October 11 to the end of the year, was $17^s{\cdot}00$. 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 0·001341 till March 31; 0·001179 from April 1 to October 10 ; and 0·001341 from October 11 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 the six 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.
Jan. 1				Jan. 1		Jan. 1		
h m	° ′ ″	h m		h m		h m	°	°
0. 36	21. 52. 40			0. 40	·01130	1. 40		51 ·0
1. 0	53. 0			2. 15	·00986	3. 40		52 ·0
1. 55	51. 30			3. 25	·00860	9. 40		54 ·5
2. 0	52. 55			3. 35	·00890	21. 40		52 ·0
2. 35	52. 30			4. 47	·00870			
3. 20:	50. 0			5. 18	·00932			
3. 50	51. 10			6. 0	·00920			
5. 35	51. 0			8. 15	·00860			
6. 5	53. 0			13. 59	·00870			
7. 6	52. 0			20. 27	·00890			
	***			23. 40	·00930			
10. 30	50. 5							
	***							
15. 0	51. 0							
15. 16	52. 0							
18. 27	52. 50							
18. 40	54. 0							
19. 7	52. 0							
	***							
20. 6	53. 5							
20. 30	50. 10							
21. 5	53. 0							
	***							
22. 8	52. 45							
23. 0	53. 50							
23. 5	52. 25							
	***							
23. 57	53. 50							
Jan. 2		Jan. 2		Jan. 2		Jan. 2		
0. 0	21. 56. 30		(†)	0. 0	·00940	1. 40	53 ·0	54 ·0
0. 33	55. 35	1. 33	·1001	0. 57	·00920	3. 40	54 ·5	54 ·5
	***	2. 0	·1007	1. 59	·00870	9. 40	54 ·5	55 ·0
1. 22	57. 0		(†)	4. 25	·00910	21. 40	53 ·0	53 ·5
2. 7	54. 20	3. 45	·1000	4. 34	·01000			
4. 20	53. 50		***	4. 47	·01045			
5. 25	52. 0	4. 30	·0989	6. 25	·00980			
	***	5. 2	·0997	11. 40	·00947			
9. 1	49. 0	6. 0	·0998	13. 18	·00950			
9. 15	52. 0	6. 28	·0996	18. 30	·00980			
9. 30	49. 0		***	23. 59	·01060			
10. 30	49. 0	7. 30	·1007					
10. 50	45. 55	9. 27	·1005					
11. 37	49. 0	10. 35	·1007					
	***	10. 55	·1016					
14. 15	51. 35	11. 25	·1008					
14. 35	50. 0	13. 0	·1010					
	***	14. 30	·1016					
15. 34	52. 0		***					
	***	17. 0	·1017					
17. 20	51. 0	20. 30	·1017					
18. 2	51. 55	20. 40	·1013					
19. 0	49. 0		***					
	***	22. 30	·1012					
20. 30	52. 0		***					
20. 46	50. 25	23. 0	·1011					
20. 58	52. 30	23. 59	·1011					
21. 8	51. 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. 2								
h m	° ′ ″	h m		h m		h m	°	°
21. 25	21. 52. 0							
21. 44	50. 5							
23. 59	53. 40							
Jan. 3		Jan. 3		Jan. 3		Jan. 3		
0. 0	21. 53. 45	0. 0	·1012	0. 20	·01050	1. 40	54 ·0	55 ·0
0. 52	53. 0	0. 17	·1018	4. 8	·00878	3. 40	55 ·0	56 ·0
1. 0	54. 30		***	4. 16	·01100	9. 40	54 ·0	55 ·0
1. 30	52. 35	3. 0	·1016	5. 8	·01080	21. 40	52 ·5	53 ·0
2. 15	53. 20	3. 30	·1010	5. 46	·01130			
	***		***	11. 6	·01240			
3. 35	52. 30	3. 46	·1014	11. 31	·01228			
	***	4. 16	·1009	12. 39	·01280			
4. 45	54. 0	4. 47	·1009	21. 56	·01749			
5. 15	48. 55	5. 8	·0994	22. 24	·01747			
6. 0	52. 30	5. 26	·0988	23. 59	·01726			
	***	6. 14	·1004					
7. 22	52. 0	7. 4	·1007					
7. 59	47. 5		***					
	***	7. 58	·0995					
9. 5	49. 0	8. 15	·1006					
	***	8. 57	·1005					
10. 55	46. 30	9. 15	·1010					
11. 14	49. 0	10. 8	·1006					
11. 49	45. 0	10. 22	·1010					
12. 13	48. 0	10. 53	·1007					
12. 23	46. 5	11. 10	·1025					
12. 58	45. 30	11. 46	·1016					
13. 14	48. 0	12. 15	·1022					
17. 40	50. 45	12. 30	·1018					
	***	13. 14	·1018					
21. 6	49. 0	13. 46	·1024					
21. 30	51. 30	14. 16	·1014					
21. 53	50. 0	18. 10	·1018					
23. 15	50. 55		***					
23. 59	52. 5	19. 45	·1024					
		23. 15	·1011					
		23. 59	·1010					
Jan. 4		Jan. 4		Jan. 4		Jan. 4		
0. 0	21. 52. 10	0. 0	·1011	0. 19	·01723	1. 40	53 ·0	53 ·5
2. 23	53. 15		***	2. 14	·01650	3. 40	55 ·0	56 ·0
2. 31	54. 55	1. 30	·1013	7. 2:	·01340	9. 40	52 ·5	53 ·0
2. 50	52. 50	4. 0	·1012	9. 46	·01350	21. 40	49 ·0	50 ·0
	***		***	15. 51	·01500			
8. 24	49. 30	5. 20	·1009	21. 14	{ ·01720			
	***	11. 15	·1016		{ ·01650			
12. 30	48. 30	12. 3	·1015	22. 50	·01680			
	***	12. 30	·1020	23. 59	·01660			
19. 23	50. 0		***					
21. 16	52. 0	13. 30	·1018					
	***	16. 30	·1022					
22. 5	50. 0	18. 0	·1022					
	***		***					
23. 59	53. 35	19. 30	·1026					
		20. 0	·1023					
			***					
		21. 53	·1023					
			***					

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.

January 1. 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.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Jan. 4 h m		h m		h m	°	°
		22. 34	·1015					
		23. 0	·1014					
		23. 55	·1012					
Jan. 5		Jan. 5		Jan. 5		Jan. 5		
0. 41:	21. 52. 0	0. 5	·1015	0. 0	·01657	1. 40	54 ·0	55 ·0
1. 22	54. 30		***	2. 25	·01480	3. 40	54 ·0	54 ·5
2. 45	52. 35	1. 45	·1012	4. 59	·01260	9. 40	53 ·0	53 ·5
3. 23	54. 0		***		·01475	21. 40	52 ·5	52 ·8
3. 40	52. 30	3. 35	·1000	6. 15	·01468			
4. 7	55. 0	4. 0	·1006	7. 35	·01520			
4. 36	52. 30	4. 15	·1000	11. 30	·01510			
5. 6	55. 0		***	19. 25	·01610			
7. 9	51. 0	4. 35	·1004	23. 30	·01595			
7. 45	45. 0	4. 52	·1001					
7. 58	45. 45	5. 58	·1006					
8. 9	44. 30	6. 15	·1004					
8. 45	49. 15	6. 51	·0997					
10. 21	46. 30	7. 2	·0998					
11. 3:	46. 0	7. 15	·0994					
11. 34	47. 25		***					
11. 51	46. 0	7. 36	·0993					
12. 44	46. 0	8. 0	·0999					
13. 25	48. 30	8. 20	·1008					
21. 15	51. 30	8. 35	·1005					
21. 45	50. 25	10. 5	·1004					
23. 1	51. 5	10. 20	·1009					
23. 55	55. 0	10. 55	·1006					
		11. 15	·1011					
		11. 20	·1018					
		11. 30	·1018					
		11. 45	·1015					
		12. 15	·1021					
			***					
		14. 40	·1014					
		16. 50	·1018					
		17. 52	·1016					
		19. 50	·1025					
		21. 0	·1022					
			***					
		22. 30	·1013					
		23. 5	·1003					
		23. 30	·1003					
		23. 59	·1012					
Jan. 6		Jan. 6		Jan. 6		Jan. 6		
0. 0	21. 55. 5	0. 0	·1008	0. 0	·01560	1. 40	55 ·0	55 ·0
	***	1. 5	·1012	3. 0	·01317	3. 40	56 ·5	56 ·3
1. 30	52. 10	1. 32	·1009	4. 35	·01169	9. 40	57 ·0	57 ·0
1. 45	53. 0	2. 20	·1007	4. 44	·01198	23. 34	50 ·8	51 ·0
3. 0	51. 30	2. 50	·1012	5. 31	·01109			
3. 17	53. 20	3. 15	·1005	5. 45	·01190			
4. 9	53. 0	3. 40	·1010	7. 33	·01169			
4. 28	51. 5	4. 28	·0999	9. 16	·01180			
	***	4. 55	·1010	10. 20	·01150			
8. 10	50. 0		***	15. 15	·01255			
8. 50	34. 30	8. 12	·1007	20. 0	·01444			
9. 21	47. 20	8. 27	·0998	23. 45	·01571			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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 h m	° ′ ″	Jan. 6 h m		h m		h m	°	°
9. 45	21. 42. 35	8. 35	·0998					
	***	8. 53	·1012					
10. 35	46. 10	9. 0	·1008					
11. 19	43. 30	9. 14	·1029					
11. 46:	48. 35	9. 32	·1012					
12. 30	47. 0	9. 45	·1020					
13. 47	48. 0	10. 45	·1005					
14. 7	52. 0	13. 12	·1012					
	***	13. 30	·1009					
15. 5	53. 35	14. 35	·1023					
15. 55	48. 45	15. 15	·1014					
16. 25	48. 20	15. 47	·1020					
	***	16. 8	·1016					
18. 14	52. 25	16. 17	·1020					
22. 0:	49. 25	17. 40	·1016					
	***	18. 35	·1024					
23. 59	52. 15	19. 0	·1019					
		19. 40:	·1023					
		22. 0	·1014					
		23. 55	·1004					
Jan. 7		Jan. 7		Jan. 7		Jan. 7		
0. 0	21. 52. 20		(†)	0. 45	·01600	11. 40	53 ·0	53 ·0
0. 45	54. 0	2. 0	·1018	3. 0	·01648	21. 40	52 ·0	52 ·0
4. 45	49. 15		***	7. 15	·01548			
	***	3. 0	·1026	9. 27	·01530			
7. 0	51. 0	3. 30	·1023	9. 37	·01699			
10. 35	49. 0		***	13. 30	·01710			
	***	4. 40	·1028	15. 15	·01750			
14. 50	49. 10		***		·01720			
17. 46	53. 30	5. 55	·1012	19. 15	·01725			
18. 0	52. 5	6. 44	·1028	21. 35	·01730			
	***	7. 32	·1024					
19. 14	52. 0	8. 15	·1020					
19. 32	54. 0	9. 45	·1015					
21. 0	55. 30	11. 39	·1022					
	***	14. 30	·1020					
22. 23	53. 0	15. 43	·1013					
22. 35	54. 0	16. 35	·1016					
	(†)	17. 54	·1011					
		18. 5	·1014					
		18. 43	·1008					
		19. 30	·1016					
			***					
		20. 10	·1008					
		20. 35	·1015					
			***					
		22. 25	·1014					
		22. 44	·1011					
			(†)					
Jan. 8		Jan. 8		Jan. 8		Jan. 8		
0. 30	21. 52. 0	0. 25	·1008	0. 35	·01668	1. 40	53 ·0	53 ·0
1. 30	53. 30		***	1. 32	·01660	3. 40	54 ·0	55 ·0
4. 10	50. 25	2. 23	·1014		·01797	9. 40	54 ·2	54 ·5
5. 7	51. 35		***	3. 45	·01690	21. 40	50 ·0	51 ·0
6. 31	49. 30	4. 30	·1011	5. 35	·01760			
6. 49:	50. 55	5. 45	·1014	9. 50	·01780			
	***	7. 15	·1015	10. 53	·01820			

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. 8		Jan. 8		Jan. 8				
h m	° ′ ″	h m		h m		h m	°	°
7. 40	21. 49. 0	8. 0	·1016	11. 0	·01783			
13. 0	48. 30	11. 25	·1018	16. 20	·01775			
14. 0	51. 0	12. 0	·1017	23. 55	·01750			
15. 55	49. 0	14. 35	·1023					
			***					
22. 0	49. 0							
23. 10	50. 10	16. 25	·1022					
23. 59	52. 30	17. 15	·1026					
		18. 15	·1018					
			***					
		20. 15	·1028					
		21. 48	·1022					
		23. 15	·1016					
		23. 58	·1008					
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 0	21. 52. 30	0. 30	·1012	0. 30	·01732	1. 40	53 ·0	53 ·0
	***	1. 0	·1015	1. 14	·01680	3. 40	54 ·0	55 ·0
1. 12	55. 30	1. 40	·1013	4. 34	{·01320	9. 40	55 ·7	56 ·0
1. 35	54. 0	2. 55	·1024		{·01453	21. 40	49 ·0	50 ·5
	***		***	5. 15	·01420			
4. 0	51. 20	4. 50	·1017	7. 10	·01400			
7. 10	52. 0	5. 0	·1020	10. 37	·01465			
7. 25	50. 30	5. 12	·1015	13. 55	·01590			
8. 45	48. 35	6. 12	·1019	16. 44	{·01789			
9. 15	49. 30	7. 30	·1015		{·01740			
10. 15	46. 0	10. 15	·1018	18. 50	·01740			
	***	11. 8	·1025	23. 51	·01708			
11. 0	48. 30	11. 40	·1024					
11. 21	46. 25	13. 0	·1028					
11. 45	48. 5	15. 55	·1027					
12. 20	46. 5	19. 0	·1038					
	***	19. 20	·1034					
15. 15	50. 0	19. 35	·1037					
18. 0	49. 0	21. 0	·1034					
22. 6	50. 30	22. 45	·1020					
23. 59	53. 55	23. 12	·1026					
		23. 30	·1024					
		23. 59	·1024					
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
0. 0	21. 53. 55	0. 17	·1023	0. 49	·01720	1. 40	50 ·0	50 ·8
1. 0	53. 25	3. 50	·1033	2. 32	·01730	3. 40	50 ·8	51 ·5
1. 30	54. 30	4. 25	·1031	3. 26	·01727	9. 40	49 ·0	50 ·0
5. 10	52. 20	4. 50	·1026	4. 59	·01626	21. 40	41 ·0	43 ·0
9. 33	47. 20		***	7. 30:	·01520			
9. 55	44. 0	7. 0	·1034	9. 18	·01581			
10. 16	45. 10	8. 10	·1031	11. 0	{·01700			
10. 34	42. 0	8. 55	·1033		{·01640			
10. 44	43. 0	9. 55	·1028	15. 34	·01600			
11. 17	40. 35	10. 12	·1021	20. 30	·01568			
11. 48	41. 0	10. 20	·1022	23. 59	·01485			
12. 25	43. 55	10. 43	·1049					
13. 8	43. 0	11. 15	·1028					
	***	11. 30	·1027					
13. 55	47. 0	11. 40	·1019					
14. 55	48. 35	12. 0	·1024					
15. 15	47. 25	12. 30	·1034					
15. 50	49. 30	12. 45	·1031					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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						
h m	° ′ ″	h m:		h m		h m	°	°
20. 0	21. 49. 0	13. 47	·1029					
20. 10	51. 0	14. 30	·1037					
	***	15. 30	·1037					
22. 33	48. 30	17. 25	·1048					
22. 52	50. 5		***					
	***	19. 25	·1049					
23. 59	50. 30	21. 15	·1050					
		22. 30	·1041					
		23. 59	·1037					
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 0	21. 50. 30	0. 0	·1037	1. 38	·01390	1. 40	44 ·5	45 ·0
	***	1. 30	·1034	2. 40	·01322	3. 40	46 ·3	47 ·3
0. 45	53. 35	2. 24	·1038	5. 28	·01045	9. 40	46 ·5	47 ·0
1. 22	52. 20	4. 14	·1038	7. 36:	·00824	21. 40	44 ·0	45 ·0
1. 31	54. 0	4. 35	·1044	10. 2	·00740			
1. 46	52. 10	4. 55	·1038	17. 47	·00760			
4. 19	50. 25		***	22. 25	·00960			
4. 55	52. 20	6. 2	·1038	23. 57	·00976			
5. 26	50. 15	6. 20	·1032					
5. 42	52. 0	6. 43	·1036					
6. 15	46. 25	6. 50	·1030					
6. 33	50. 35	7. 15	·1043					
6. 53	38. 30	7. 40	·1036					
7. 30	48. 40	7. 45	·1039					
	***	8. 0	·1034					
8. 23	49. 55	8. 12	·1043					
11. 30	46. 10		***					
12. 7:	35. 0	8. 43	·1035					
	***	9. 17	·1044					
13. 10	46. 0	9. 58	·1042					
13. 29:	44. 35		***					
13. 50	47. 55	10. 55	·1042					
14. 19	48. 55	11. 47	·1036					
14. 30	46. 20	12. 30	·1042					
15. 0	48. 50	13. 8	·1039					
15. 39	45. 25	14. 0	·1036					
16. 16	49. 30	14. 15	·1045					
16. 40:	44. 30	14. 30	·1038					
17. 14	45. 40	15. 20	·1046					
17. 45	43. 30		***					
	***	15. 52	·1064					
20. 30	51. 0	16. 30	·1051					
	***	17. 0	·1053					
22. 23	49. 0	18. 15	·1053					
	***	18. 50	·1051					
23. 15	52. 0	19. 35	·1047					
	***	19. 45	·1052					
23. 59	50. 45	19. 58	·1048					
		20. 27	·1052					
		21. 48	·1040					
			***					
		23. 59	·1031					
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	21. 51. 0	0. 0	·1034	0. 0	·00950	1. 40	47 ·0	48 ·0
0. 30	56. 5		***	2. 13	·00830	3. 40	49. 0	49 ·5
1. 14	52. 40	0. 53	·1030	3. 48	·00680	9. 40	49 ·0	50 ·0
1. 39	53. 0	2. 15	·1037	3. 51	·00703	21. 40	45 ·0	46 ·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. 12	° ′ ″	Jan. 12		Jan. 12		Jan. 12	°	°
h m		h m		h m		h m		
2. 4	21. 54. 25	3. 2	·1044	6. 2	·00750			
	***	4. 0	·1037	10. 17	·00702			
2. 35	52. 30	4. 45	·1034	13. 10:	·00670			
2. 46	54. 0	5. 10	·1026	19. 10	·00906			
3. 16	53. 45		***	23. 59	·01128			
3. 41	50. 20	6. 15	·1037					
	***	6. 45	·1032					
4. 35	51. 35	6. 55	·1034					
5. 23	50. 0		***					
6. 55	52. 30	7. 40	·1029					
7. 20	52. 0	7. 46	·1044					
	***		***					
7. 46	40. 35	8. 28	·1028					
8. 23	48. 30	9. 0	·1056					
8. 45	40. 10	9. 24	·1025					
9. 11	46. 0	9. 40	·1032					
9. 30	42. 0	10. 12	·1022					
	***	10. 28	·1027					
10. 30	48. 20	10. 32	·1022					
	***	11. 14	·1028					
11. 46	48. 0	11. 30	·1032					
12. 5	51. 20	12. 0	·1044					
12. 53	47. 55	12. 43	·1038					
	***	14. 58	·1036					
15. 25	49. 0	17. 15	·1044					
16. 0	48. 0	18. 0	·1043					
17. 0	49. 30	19. 15	·1048					
	***	19. 25	·1044					
19. 45	49. 0	20. 0	·1049					
21. 15	47. 30	20. 40	·1049					
21. 40	49. 30		***					
	***	23. 30	·1036					
22. 50	49. 30							
	***							
23. 31	53. 0							
23. 45:	51. 20							
23. 59	51. 0							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	21. 51. 0	0. 10	·1029	0. 5	·01130	1. 40	48 ·0	49 ·0
	***	1. 30	·1030	1. 56:	·01060	3. 40	50 ·5	50 ·5
1. 1	54. 35	2. 8	·1036	4. 59	·00725	9. 40	50 ·3	50 ·5
1. 35	53. 35	3. 0	·1036		·00801	23. 3	43 ·0	44 ·0
2. 15	54. 55		***	8. 5	·00729			
	***	4. 0	·1032	9. 58	·00720			
4. 45	51. 0		***	12. 28	·00732			
5. 35	50. 30	7. 8	·1044	17. 40	·01058			
5. 59	52. 30	7. 45	·1034	23. 20	·01448			
6. 55	51. 0		***					
7. 14	52. 0	8. 0	·1033					
7. 30	50. 35	8. 15	·1035					
	***	8. 32	·1031					
8. 31	53. 0	9. 23	·1038					
9. 10	50. 0	11. 45	·1043					
10. 50	48. 0	12. 10	·1070					
11. 44	48. 30	12. 45	·1043					
11. 59	44. 0	12. 50	·1040					
12. 16	48. 0	13. 12	·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.
Jan. 13	° ′ ″	Jan. 13		h m		h m	°	°
h m		h m						
12. 39	21. 44. 0	13. 30	·1051					
	***	14. 17	·1040					
13. 6	43. 25	14. 30	·1043					
13. 26	41. 30	15. 0	·1046					
14. 0	45. 0		***					
14. 25	44. 0	18. 0	·1053					
15. 23	50. 0	20. 0	·1056					
16. 0	47. 0	22. 0	·1058					
16. 35	50. 20	23. 28	·1050					
16. 56	50. 30							
17. 9	49. 0							
17. 45	51. 0							
18. 55	48. 15							
20. 5	49. 40							
21. 40	48. 15							
23. 59	51. 0							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 0	21. 51. 0	0. 0	·1046	0. 0	·01504	9. 3	44 ·0	46 ·0
1. 45	55. 55	1. 0	·1048	1. 28	·01596	21. 40	39 ·0	40 ·0
	***	1. 50	·1055	3. 31	·01650			
4. 0	52. 20	3. 30	·1051	7. 15	·01579			
4. 30	50. 0	3. 37	·1044	9. 25	·01560			
6. 51	48. 20	3. 58	·1046	12. 20	·01646			
7. 21	42. 35	4. 8	·1041		·01500			
8. 25	48. 35	4. 41	·1050	17. 46	·01497			
10. 45	47. 30	5. 0	·1050	22. 11	·01492			
	***	6. 0	·1051		·01308			
14. 30	51. 0	7. 0	·1048	23. 59	·01330			
15. 15	47. 55	7. 16	·1045					
19. 20	50. 25	7. 33	·1052					
20. 30	49. 0	7. 57	·1054					
20. 45	51. 0	8. 30	·1048					
21. 5	50. 0	9. 9	·1051					
21. 51	50. 25	9. 34	·1051					
22. 45	49. 5	11. 30	·1054					
23. 59	52. 0	13. 0	·1054					
		13. 14	·1052					
		14. 30	·1056					
		14. 46	·1060					
		16. 25	·1055					
		17. 55	·1059					
		18. 4	·1064					
		18. 14	·1059					
		19. 6	·1060					
			***					
		20. 4	·1062					
		20. 31	·1063					
		21. 16	·1056					
		21. 25	·1062					
		21. 54	·1060					
		23. 0:	·1050					
		23. 30	·1052					
		23. 59	·1053					
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 0	21. 52. 5	0. 0	·1053	0. 45	·01340	1. 40	43 ·0	44 ·0
	***	0. 30	·1052	2. 26	·01291	3. 40	44 ·5	45 ·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.
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
h m	° ′ ″	h m		h m		h m	°	°
2. 15	21. 54. 0	1. 21	·1054	4. 0	·01160	9. 40	45 ·0	45 ·0
3. 5	51. 0	2. 24:	·1048	7. 15:	·00762	21. 40	41 ·0	42 ·0
4. 6	53. 0	3. 15	·1052	9. 3	·00690			
4. 30	51. 15	4. 0	·1050	13. 40	·00786			
6. 0	52. 0		***	20. 52	·01063			
8. 50	47. 30	5. 0	·1044	23. 25	·01087			
10. 35	46. 0	6. 45	·1042	23. 59	·01070			
10. 50	43. 0	9. 0	·1047					
11. 21	44. 35	10. 31	·1048					
11. 52	41. 30	11. 14	·1071					
	***	11. 30	·1068					
12. 26	47. 35	11. 55	·1053					
13. 17	43. 25	12. 8	·1055					
14. 1	48. 0	12. 30:	·1053					
14. 57	49. 0	12. 55:	·1055					
15. 8	48. 0	13. 22	·1048					
	***	14. 2	·1052					
19. 50	49. 40	14. 24	·1051					
	***	16. 0	·1054					
22. 35	48. 0	17. 0	·1056					
	***	19. 35	·1057					
23. 59	51. 0	22. 0	·1044					
		22. 30	·1045					
		23. 59	·1041					
Jan. 16		Jan. 16		Jan. 16		Jan. 16		
0. 0	21. 51. 10	0. 30	·1043	0. 18	·01044	1. 40	44 ·0	45 ·0
1. 11	52. 30		***	1. 16	·01002	3. 40	46 ·0	47 ·0
1. 50:	54. 35	1. 50	·1047	2. 56	·00860	9. 40	44 ·5	45 ·0
3. 1	52. 0	2. 45	·1044	4. 29	·00661	21. 40	37 ·5	38 ·0
3. 13	53. 55	3. 12	·1045	4. 32	·00690			
	***	4. 0	·1046	5. 31	·00700			
3. 45	51. 20	5. 0	·1044	7. 32	·00643			
5. 25	51. 0	7. 55	·1043	8. 49	·00649			
	***	8. 12	·1046	11. 36	·00830			
8. 30	47. 0	9. 30	·1045	17. 50	·01412			
	***	10. 5	·1042	18. 30	·01450			
11. 0	48. 55		***	18. 35	·01406			
14. 17	51. 30	11. 26	·1050	22. 13	·01410			
17. 25	50. 0	12. 0	·1052	23. 57	·01462			
	***	16. 5	·1056					
20. 33	47. 15	18. 0	·1061					
21. 10:	49. 25	20. 20	·1066					
22. 20	49. 25	21. 48	·1054					
23. 59	51. 40	22. 28	·1055					
		22. 33	·1059					
		23. 59	·1057					
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 0	21. 51. 40	0. 15	·1054	0. 10	·01472	1. 40	41 ·0	42 ·0
	***	1. 32	·1066	2. 6	·01451	3. 40	43 ·0	43 ·5
2. 0	54. 30	3. 30	·1065	2. 52:	·01400	9. 40	41 ·0	42 ·0
2. 30:	53. 0	5. 15	·1058	7. 13:	·01019	21. 40	33 ·5	35 ·0
4. 45	51. 10	6. 10	·1060	8. 58	·00980			
5. 44	52. 15	7. 47	·1059	14. 51	·01280			
6. 0	51. 0	8. 17	·1054	17. 34	·01441			
8. 0	50. 50	9. 10	·1062	18. 0	·01421			
8. 19	48. 35	10. 0	·1060	23. 12	·01441			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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		Jan. 17				Jan. 17		
h m	° ′ ″	h m		h m		h m	°	°
8. 39	21. 49. 15	10. 30	·1063					
	***	11. 5	·1065					
10. 55	47. 40	12. 10	·1066					
	***	12. 55	·1064					
14. 15	48. 30	13. 32	·1072					
16. 30	51. 0	14. 30	·1066					
	(†)	17. 0	·1075					
21. 10	51. 0	18. 0	·1076					
23. 10	50. 0	21. 55	·1070					
23. 37	52. 0		***					
23. 50	51. 0	23. 25	·1065					
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 0	21. 51. 25	0. 30	·1060	0. 7	·01480	1. 40	39 ·0	40 ·0
3. 0	54. 0	2. 15	·1056	1. 45:	·01448	3. 40	42 ·5	42 ·5
	***		***	2. 47	·01299	9. 40	43 ·0	44 ·0
3. 44	51. 10	4. 30	·1059	5. 42	·00704	21. 40	37 ·8	38 ·8
6. 11	49. 25	8. 0	·1058	5. 45	·00740			
8. 0	48. 50	11. 0	·1062	9. 41	·00650			
8. 24	49. 30	12. 0	·1064	16. 39	·00868			
9. 2	49. 0	12. 50	·1063	20. 28	·01080			
9. 16	50. 15		***	23. 4	·01325			
10. 0	49. 0	16. 0	·1066	23. 59	·01352			
10. 19	50. 0	17. 0	·1068					
11. 45	48. 45		***					
12. 18:	44. 30	18. 5	·1070					
14. 42	49. 0	21. 0	·1067					
15. 21	48. 25	21. 45	·1064					
16. 49	49. 30	22. 30	·1062					
20. 0	48. 55	23. 0	·1058					
20. 24	49. 30	23. 59	·1056					
22. 15	48. 0							
23. 25	53. 0							
23. 40	51. 5							
23. 59	51. 30							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 0	21. 51. 30	0. 0	·1056	0. 44	·01378	1. 40	39 ·0	39 ·0
0. 30	51. 0		***	1. 15:	·01395	3. 40	43 ·0	43 ·0
	***	0. 45	·1054	5. 16:	·01010	9. 40	40 ·0	41 ·0
2. 40	52. 30	1. 40	·1057	6. 52	·00979	21. 40	35 ·2	37 ·0
2. 51	53. 50		***	8. 58	·01001			
3. 11	51. 5	3. 45	·1058	9. 0	·01020			
3. 21	53. 20	5. 30	·1056	9. 55	·01070			
3. 31	51. 0	13. 0	·1065	15. 5	·01473			
3. 46	52. 0	15. 0	·1070		·01422			
5. 5	51. 0	18. 30	·1077	18. 5	·01411			
12. 1	48. 25	20. 15	·1080		(†)			
13. 30	49. 30	21. 0	·1078	21. 27	·01410			
	(†)	23. 55	·1067	23. 59	·01422			
23. 10	50. 25							
23. 59	52. 35							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 0	21. 52. 35	0. 0	·1064	0. 45	·01370	1. 40	39 ·0	39 ·0
0. 15	52. 10	2. 8	·1066	2. 55	·01273	3. 40	40 ·0	40 ·0
0. 46	55. 0	4. 0	·1062	4. 0	·01142	9. 40	41 ·0	41 ·5
1. 15:	52. 30	5. 0	·1064		·01204	23. 33	36 ·0	37 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 20		Jan. 20		Jan. 20				
h m	° ′ ″	h m		h m		h m	°	°
5. 0	21. 51. 30	7. 0	·1059	5. 17	·00950			
6. 20	50. 0	8. 30	·1065	7. 9:	·00750			
7. 33	50. 55	10. 17	·1066	7. 58:	·00711			
8. 40	49. 0	11. 30	·1066	11. 11	·00688			
11. 22	48. 30	14. 5	·1070	16. 20	·00751			
14. 15	49. 50	14. 30	·1068	20. 21	·00850			
15. 55	49. 55	15. 17	·1075	23. 59	·01063			
16. 49	47. 35	16. 0	·1072					
18. 50	47. 30	17. 0	·1074					
	***	17. 30	·1073					
22. 0	49. 0	18. 10	·1067					
23. 59	54. 0	19. 0	·1074					
		20. 0	·1078					
		21. 30	·1074					
		23. 59	·1068					
Jan. 21		Jan. 21		Jan. 21		Jan. 21		
0. 0	21. 54. 0	0. 0	·1063	0. 10	·01098	9. 6	36 ·0	37 ·0
2. 10	54. 0	2. 40	·1072	3. 15:	·01226	21. 40	33 ·0	35 ·0
5. 31	50. 0	4. 23	·1076	8. 20	·01152			
9. 34	49. 0	7. 45	·1077	14. 46	·01420			
13. 33	48. 55	10. 35	·1072		·01371			
	***	14. 30	·1072	18. 0	·01400			
14. 52	50. 30	15. 14	·1084	21. 35	·01485			
15. 32	47. 30	16. 43	·1079	23. 14	·01480			
16. 23	48. 30	17. 0	·1072	23. 45	·01430			
17. 10	55. 30	17. 45:	·1088					
17. 55	50. 30	18. 30	·1082					
19. 43	51. 35	19. 0	·1088					
	***	19. 30	·1083					
22. 15	55. 0	20. 5	·1074					
	***	20. 15	·1076					
22. 40	57. 30	22. 15	·1054					
23. 15	56. 15	22. 45	·1049					
23. 33	57. 25		***					
23. 59	54. 40	23. 45	·1054					
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	21. 54. 10	0. 10	·1056	1. 15	·01379	1. 40	37 ·0	37 ·0
	***	1. 0	·1050	2. 4	·01330	3. 40	39 ·0	40 ·0
0. 25	57. 0	2. 0	·1056	5. 0	·00922	9. 40	39 ·2	40 ·5
0. 35	55. 30	2. 30	·1049	7. 16	·00658	21. 40	36 ·5	37 ·0
1. 0	55. 30	3. 30	·1046	11. 32	·00625			
1. 14	55. 15	4. 15	·1049	15. 30	·00662			
2. 24	56. 30	4. 25	·1044	23. 8	·00930			
3. 35	54. 0	5. 0	·1043	23. 50	·00920			
4. 29	57. 25	6. 15	·1052					
4. 58	56. 0	7. 27	·1049					
5. 10	53. 30	9. 0	·1055					
7. 25	50. 0	11. 0	·1058					
9. 10	49. 15		***					
12. 35	49. 30	14. 0	·1064					
14. 30	51. 0		***					
17. 21	50. 20	17. 0	·1066					
	(†)	20. 0	·1070					
20. 45	51. 50	22. 0	·1066					
22. 14:	48. 0	23. 0	·1059					
22. 51	50. 55	23. 30	·1057					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 22								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	21. 49. 30							
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
0. 0	21. 49. 35	0. 0	·1060	0. 5	·00892	1. 40	42 ·0	43 ·0
	***	0. 50	·1054	2. 45	·00708	3. 40	42 ·5	43 ·0
1. 50	51. 35	1. 55	·1051		·00758	9. 48	43 ·0	43 ·0
2. 6	53. 30	2. 38	·1052	7. 50	·00695	21. 48	39 ·0	41 ·0
2. 21	52. 0		***	8. 5	·00765			
2. 45	52. 25	5. 15	·1053	8. 40	·00762			
3. 0	54. 0	6. 30	·1056	8. 48	·00850			
3. 20	52. 0	7. 15	·1050	11. 45	·00942			
4. 6	52. 10	8. 0	·1054	16. 30	·01112			
6. 6	49. 45	9. 51	·1057	20. 45	·01250			
10. 15	48. 40	11. 0	·1063	23. 30	·01302			
	***	14. 0	·1066					
16. 25	51. 35	16. 30	·1068					
	***	18. 0	·1073					
19. 59	51. 0	19. 0	·1075					
20. 21	49. 50	20. 15	·1076					
21. 0	51. 0	21. 0	·1074					
22. 0	50. 10	22. 0	·1066					
22. 20	47. 0	23. 0	·1060					
	***		***					
23. 30	49. 0	23. 59	·1052					
	***							
23. 59	50. 0							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 0	21. 51. 30	0. 0	·1052	0. 0	·01308	1. 40	43 ·2	44 ·0
	***	1. 0	·1048	3. 15	·01027	3. 40	45 ·0	45 ·5
2. 28	54. 10		***	4. 40	·00749	9. 40	45 ·0	45 ·3
9. 8	49. 30	2. 6	·1044		·00802	21. 40	40 ·5	42 ·0
9. 51	50. 0	4. 33	·1055	8. 32	·00748			
10. 22	48. 20	6. 12	·1054	14. 34	·00878			
10. 44	48. 15	9. 0	·1054	15. 50	·00831			
11. 9	44. 0		***	19. 30	·01065			
12. 0	47. 0	13. 0	·1057	23. 45	·01278			
12. 20	46. 25		***					
	***	14. 15	·1053					
13. 29	48. 0		***					
13. 55	45. 30	15. 50	·1074					
	***	16. 45	·1059					
14. 20	47. 0		***					
14. 40	58. 25	17. 0	·1062					
14. 49	55. 25	17. 35	·1066					
15. 7	58. 0	18. 15	·1059					
15. 52	44. 55	20. 0	·1062					
16. 6	45. 50		***					
16. 18	44. 20	21. 15	·1060					
16. 36	46. 30	22. 0	·1054					
17. 15	47. 0		***					
17. 40	51. 55	23. 45	·1044					
18. 6	50. 25							
18. 16	52. 0							
18. 31	49. 55							
18. 55	51. 20							
19. 24	50. 40							
19. 53	51. 30							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 24								
h m	° ′ ″	h m		h m		h m	°	°
20. 10	21. 54. 30							
20. 32	52. 40							
20. 49	54. 0							
21. 0	52. 30							
21. 25	54. 15							
22. 10	49. 20							
23. 5	51. 10							
23. 26	53. 35							
23. 50	52. 40							
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 0	21. 53. 0	0. 0	·1048	0. 0	·01270	1. 40	44 ·5	44 ·8
0. 21	53. 15		***	1. 45:	·01240	3. 40	46 ·0	47 ·0
0. 45:	52. 5	1. 0	·1040	3. 45	·01002	9. 40	46 ·0	47 ·0
1. 36	54. 30	2. 7	·1043	5. 45	·00819	21. 40	41 ·0	42 ·0
1. 48	53. 40	3. 0	·1040	8. 30	·00777			
3. 15	56. 0	3. 15	·1042	9. 15	·00830			
3. 30	53. 25	3. 30	·1036	13. 28	·00928			
4. 0	54. 0	4. 23	·1043	18. 15	·01157			
4. 30	52. 25	5. 8	·1039	21. 30	·01264			
5. 31	50. 0	6. 0	·1040	23. 55	·01388			
6. 0	53. 20	7. 0	·1047					
	***		***					
7. 20	51. 0	7. 50	·1050					
11. 5	48. 30		***					
13. 8	49. 30	9. 0	·1048					
13. 27	48. 25		***					
13. 46	50. 0	10. 15	·1054					
14. 2	49. 15	11. 0	·1055					
	***		***					
14. 45	49. 35	13. 25	·1060					
15. 15:	46. 35	14. 0	·1063					
15. 51	50. 25	14. 15	·1054					
15. 59	49. 20		***					
16. 31	57. 0	15. 0	·1056					
17. 10	49. 15		***					
18. 0	49. 55	16. 30	·1046					
18. 41	48. 50	17. 0	·1064					
20. 15	51. 0	17. 25	·1058					
21. 5	53. 0	19. 0	·1066					
21. 55	50. 35	19. 40	·1068					
22. 20	51. 15	21. 0	·1060					
23. 10	49. 0	21. 30	·1054					
23. 28	50. 35	22. 20	·1049					
23. 59	51. 0		***					
		23. 30	·1047					
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 0	21. 52. 0	0. 0	·1046	0. 5	·01388	1. 40	44 ·8	45 ·0
0. 15	51. 0	1. 35	·1026	2. 45	·01260	3. 40	45 ·0	46 ·5
	***	1. 45	·1028	5. 0:	·01009	9. 40	45 ·0	46 ·5
1. 30	54. 0	2. 0	·1029	7. 48	·00852	21. 40	39 ·5	41 ·0
2. 0	50. 0		***	7. 56	·00990			
3. 10	52. 35	3. 0	·1041	9. 31	·00968			
4. 30	51. 10		***	14. 45	·01190			
5. 51	51. 0	5. 10	·1046	20. 0	·01492			
6. 8	49. 20	5. 45	·1043	21. 31	·01610			
6. 22	44. 0	6. 0	·1033	21. 40	·01570			
7. 0	48. 0	6. 8	·1036	23. 40	·01598			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 26		Jan. 26						
h m	° ′ ″	h m		h m		h m	°	°
7. 30	21. 45. 25	6. 15	·1027					
8. 2	48. 30	6. 30	·1040					
8. 36	37. 0	6. 40	·1042					
9. 15	47. 0	7. 15:	·1037					
9. 30	45. 20	7. 34	·1040					
10. 2	49. 30	8. 10	·1037					
	***	8. 30	·1052					
14. 15	49. 0	8. 55	·1059					
14. 50:	50. 0	9. 15	·1052					
15. 30	49. 30	9. 23	·1046					
15. 55	54. 0	9. 50	·1042					
	***	10. 30	·1046					
16. 34	50. 5	11. 0	·1048					
17. 27	48. 0		***					
18. 0	49. 30	15. 30	·1056					
18. 55	49. 20	16. 0	·1061					
19. 30	48. 0	16. 20	·1062					
20. 0	49. 45	17. 0	·1056					
21. 0	50. 0	17. 30	·1060					
21. 10	52. 0	17. 45	·1058					
	***	19. 0	·1062					
22. 15	51. 15	20. 0	·1064					
23. 25	55. 0	20. 30	·1063					
23. 59	54. 0	21. 0	·1052					
		21. 33	·1055					
		22. 12	·1050					
		22. 30	·1054					
		22. 50	·1046					
		23. 35	·1042					
		23. 59	·1044					
Jan. 27		Jan. 27		Jan. 27		Jan. 27		
0. 0	21. 54. 0	0. 0	·1043	0. 2	·01630	1. 40	43 ·0	43 ·0
0. 8:	54. 10	0. 30	·1046	2. 15:	·01575	3. 40	45 ·5	46 ·5
1. 0	50. 15	2. 30	·1049	7. 0	·00810	9. 40	45 ·5	45 ·5
1. 31	50. 45	2. 50	·1047	7. 10	·00900	23. 1	39 ·0	40 ·0
1. 45	50. 5	3. 0	·1050	7. 45	·00910			
2. 23:	51. 35	3. 15	·1048	9. 30	·01000			
2. 51	50. 30	3. 30	·1045	15. 0	·01430			
3. 15	51. 10	4. 0	·1050	17. 32	·01630			
	***	4. 30	·1048	19. 45	·01595			
3. 54	49. 30	4. 52	·1042	23. 18	·01597			
4. 53	50. 25	5. 15	·1035					
5. 6	51. 40	5. 30	·1032					
5. 53	50. 0	6. 0	·1036					
6. 25	54. 0	6. 45	·1043					
7. 16	50. 30	7. 0	·1042					
7. 39	43. 10	7. 30	·1040					
8. 18	49. 25	8. 0	·1048					
	***	8. 30	·1044					
11. 49	48. 0	9. 0	·1046					
12. 14	44. 0	10. 0	·1050					
	***	10. 15	·1048					
13. 13	47. 0	10. 30	·1046					
13. 26	45. 30	11. 15	·1048					
14. 27	48. 30	12. 0	·1051					
14. 54	47. 30	12. 15	·1054					
16. 55	49. 45	12. 50	·1050					

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. 27		Jan. 27						
h m	° ′ ″	h m		h m		h m	°	°
18. 0	21. 48. 30	13. 0	·1048					
20. 45	50. 0	14. 0	·1054					
22. 0	50. 0	16. 0	·1056					
22. 55:	53. 50	17. 0	·1062					
23. 15	52. 30	17. 30	·1064					
23. 40	56. 5	19. 0	·1065					
23. 59	56. 0	20. 30	·1066					
		21. 0	·1068					
		22. 0	·1062					
		22. 55	·1056					
		23. 59	·1038					
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 0	21. 56. 0	0. 0	·1058	0. 0:	·01540	9. 33	40 ·0	42 ·5
1. 15	54. 0	0. 55	·1060	3. 5:	·01648	21. 40	38 ·0	41 ·0
1. 45	55. 30	2. 30	·1065	9. 34	·01540			
2. 11	54. 5	4. 50	·1057	15. 8	{·01645			
4. 20	53: 25	5. 15	·1042		{·01590			
5. 0	53. 35	5. 45	·1058	23. 59	·01583			
5. 25	51. 0	6. 0	·1060					
5. 55	51. 0	6. 30	·1062					
7. 14	48. 0	7. 0	·1064					
7. 45	49. 30	8. 30	·1056					
8. 34	49. 10	8. 45	·1050					
8. 56	45. 30	9. 25	·1054					
9. 15	48. 25	9. 45	·1070					
9. 44	40. 30	10. 0	·1060					
10. 42	48. 0	10. 25:	·1056					
11. 30	48. 0	10. 52	·1064					
12. 17	50. 0	11. 30	·1065					
	***	13. 30	·1063					
14. 0	50. 0	15. 25	·1064					
15. 0	51. 5	15. 45	·1074					
15. 15	50. 0	16. 0	·1076					
15. 47	55. 10		***					
16. 20:	50. 0	16. 45	·1066					
17. 21	47. 25	18. 20	·1066					
18. 45	50. 30	19. 0	·1070					
22. 46	49. 20	22. 10	·1064					
23. 53	55. 0	23. 59	·1038					
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 15	21. 53. 25	0. 0	·1036	0. 30	·01600	1. 40	43 ·0	43 ·0
0. 30	55. 0	0. 26	·1050	1. 15	·01558	3. 40	44 ·0	44 ·5
0. 55	53. 0	0. 40	·1045	4. 30	·01184	9. 40	44 ·0	44 ·0
1. 24	55. 50	1. 19	·1051	6. 15:	·00928	21. 40	38 ·0	39 ·5
1. 40	53. 0	1. 30	·1045	8. 10	·00815			
2. 29	53. 0		***	13. 0	·00984			
2. 51	54. 5	2. 17	·1052	13. 45	·00988			
3. 29	53. 0	2. 31	·1050	17. 15	·01197			
3. 49	46. 55	2. 52	·1055	19. 30	·01308			
4. 3	46. 0	3. 29	·1041	22. 43	·01438			
4. 39	51. 0	3. 40	·1031	23. 59	·01401			
5. 30	52. 0	3. 59	·1040					
	***	4. 17	·1054					
6. 36	51. 0		***					
7. 16	45. 50	6. 45	·1046					
7. 31	37. 30	7. 15	·1038					
7. 46	43. 55	7. 44	·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.
Ja. 29		Jan 29						
h m	° ′ ″	h m		h m		h m	°	°
8. 13	21. 36. 55	8. 3	·1050					
8. 40:	45. 0	8. 18:	·1058					
10. 5	48. 25	9. 2	·1047					
10. 25	47. 35		***					
12. 0	49. 0	10. 0	·1052					
12. 45	47. 0	10. 17	·1049					
13. 8	48. 25	10. 41	·1053					
13. 25	52. 30	11. 29	·1051					
14. 5:	47. 55	12. 7	·1057					
14. 31	50. 30	13. 4	·1053					
15. 0	49. 25	13. 30	·1077					
15. 54	51. 30	14. 15	·1058					
	***	14. 28	·1061					
18. 39	48. 25	14. 45	·1060					
	***	16. 0	·1061					
21. 36	50. 0	17. 0	·1067					
	***	17. 42	·1062					
22. 41	48. 30	18. 41	·1062					
	***	20. 30	·1066					
23. 59	52. 0		***					
		22. 45	·1053					
			***					
		23. 59	·1044					
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
0. 0	21. 52. 0	0. 0	·1044	0. 5	·01414	1. 40	43 ·0	44 ·0
	***	1. 0:	·1048	4. 30	·01028	3. 40	44 ·8	45 ·0
1. 28	56. 25	1. 45	·1039	7. 38:	·00808	9. 40	44 ·0	44 ·5
	***	1. 58	·1041	9. 0	·00802	21. 40	37 ·5	38 ·5
2. 36	53. 10	2. 2	·1036	13. 30	·01062			
2. 49	55. 45		***	17. 30	·01348			
3. 29	52. 0	3. 20	·1050	20. 30	·01542			
3. 40	53. 0	3. 58	·1048	20. 55	{·01568			
6. 3	48. 30	5. 33	·1049		{·01490			
6. 48	49. 40	5. 55	·1045	23. 59	·01534			
8. 36	49. 30	8. 43	·1048					
8. 54	45. 20	8. 50	·1044					
	***		***					
11. 0	49. 30	14. 31	·1059					
14. 28	49. 30	14. 44	·1065					
14. 44	52. 0	15. 15	·1065					
15. 30	48. 0	15. 33	·1062					
15. 46	51. 30	16. 45	·1060					
17. 45	50. 30	17. 30	·1068					
18. 47	50. 0	20. 29	·1073					
20. 17	51. 55	21. 0	·1059					
21. 5	58. 30		***					
	***	21. 58	·1078					
22. 28	52. 0	22. 5	·1069					
22. 40	53. 5	22. 16	·1073					
23. 3	51. 0	22. 59	·1064					
23. 31	53. 35	23. 59	·1067					
23. 59	54. 0							
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 0	21. 54. 0	0. 0	·1067	0. 32	·01510	1. 40	39 ·0	40 ·0
0. 25	52. 15	0. 15	·1068	1. 15	·01538	3. 40	41 ·0	41 ·0
0. 30	52. 0	0. 30	·1067	3. 30:	·01502	9. 40	41 ·0	41 ·5
1. 3	50. 10	1. 0	·1057	5. 0	·01370	21. 40	37 ·0	38 ·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.
Jan. 31		Jan. 31		Jan. 31				
h m	° ′ ″	h m		h m		h m	°	°
1. 19	21. 53. 10	1. 8	·1059	7. 45	·01176			
1. 59	21. 53. 0	1. 30	·1052	8. 30	·01164			
	***		***	15. 0	·01199			
3. 14	22. 0. 20	2. 20	·1047	19. 15	·01368			
3. 35	21. 55. 25		***	21. 30	·01450			
4. 6:	57. 10	2. 40	·1052	23. 59	·01500			
4. 22	53. 55		***					
4. 33	54. 0	3. 5	·1049					
4. 51:	52. 0	3. 16	·1038					
5. 12	54. 30	3. 58	·1043					
5. 32	51. 45		***					
5. 59	56. 0	4. 14	·1030					
6. 55	47. 55	4. 25	·1040					
7. 20	49. 40	4. 35	·1039					
7. 36	44. 40	5. 13	·1052					
7. 45	47. 0	5. 29	·1041					
7. 50	45. 0	5. 44	·1045					
8. 10	48. 0	6. 5	·1036					
8. 30	44. 25	6. 30	·1042					
8. 54	48. 30	6. 45	·1039					
	***	7. 15	·1049					
10. 10	49. 0	7. 28	·1045					
11. 58	47. 0	7. 36	·1051					
	***	7. 46	·1049					
14. 33	50. 0	7. 55	·1051					
15. 0	49. 0	8. 10	·1045					
17. 0	50. 25	8. 31	·1054					
17. 50	53. 20		***					
18. 24	50. 5	9. 0	·1051					
19. 2	49. 30	9. 44	·1056					
21. 15	50. 45	9. 55	·1051					
22. 0	49. 0	11. 30	·1058					
23. 5	49. 10	13. 0	·1056					
23. 59	51. 55	13. 30	·1062					
		14. 20	·1059					
		14. 45	·1063					
		16. 7	·1064					
		16. 55	·1070					
		17. 30	·1064					
		18. 36	·1071					
		20. 20	·1067					
		21. 30	·1071					
			***					
		23. 15	·1056					
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 0	21. 52. 0	0. 9	·1054	0. 14	·01478	1. 40	39 ·5	40 ·0
0. 15	50. 5	2. 55	·1058	1. 14:	·01481	3. 40	43 ·0	43 ·0
	***	3. 44	·1061	4. 28	·01230	9. 40	41 ·5	42 ·0
2. 24	54. 25		***	7. 31:	·00904	21. 40	35 ·5	36 ·5
	***	4. 35	·1059	10. 27	·00921			
3. 25	51. 10	5. 8	·1045		·00974			
4. 50	53. 0	5. 45	·1044	15. 12	·01188			
5. 15	51. 55	6. 3	·1056	19. 45	·01498			
6. 14	50. 0		***		·01450			
7. 0	52. 0	7. 52	·1052	22. 20	·01430			
8. 0	48. 15		***	23. 59	·01498			
	***	9. 48	·1056					
10. 41	48. 20	11. 1	·1065					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 1		Feb. 1						
h m	° ′ ″	h m		h m		h m	°	°
10. 59	21. 44. 0		***					
11. 30	47. 5	11. 43	·1059					
13. 40	50. 0		***					
	***	12. 8	·1063					
15. 35	49. 30	14. 4	·1071					
16. 41	52. 0		***					
17. 15	50. 30	16. 55	·1073					
17. 44	47. 0	17. 16	·1075					
18. 23	49. 30	19. 15	·1084					
	***	20. 20	·1074					
20. 15	50. 55	20. 42	·1082					
20. 30	52. 30		***					
21. 3	51. 0	22. 0	·1077					
21. 30	52. 5		***					
22. 14	49. 55	23. 30	·1063					
23. 20	49. 0	23. 59	·1067					
23. 46	49. 25							
23. 59	51. 0							
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 0	21. 51. 0	0. 0	·1067	0. 20	·01487	1. 40	58 ·5	39 ·0
	***	2. 59	·1062	1. 21:	·01488	3. 40	41 ·0	41 ·0
3. 46	52. 50	4. 40	·1065	4. 7	·01268	9. 40	40 ·0	41 ·0
	***	5. 31	·1056	6. 52:	·01008	21. 40	37 ·5	38 ·0
11. 0	47. 55		***	8. 19:	·00933			
11. 45	48. 45	6. 32	·1061	13. 40	·01041			
12. 45	47. 0	7. 43	·1067	19. 2	·01109			
13. 50	49. 5	9. 30	·1066	23. 57	·01180			
	***	9. 46	·1068					
17. 25	51. 45	10. 4	·1065					
	(†)	10. 45	·1068					
21. 0	50. 5	11. 50	·1071					
22. 36	49. 0	13. 6	·1069					
23. 59	50. 15	15. 2	·1075					
		15. 25	·1072					
		16. 59	·1076					
		17. 34	·1083					
		19. 30	·1086					
		21. 2	·1083					
		22. 45	·1073					
		23. 39	·1068					
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
0. 0	21. 50. 15	0. 0	·1062	0. 0	·01119	1. 40	41 ·5	42 ·0
1. 35	52. 0	1. 10	·1063	1. 37:	·01060	3. 40	44 ·0	44 ·0
2. 30:	54. 0	1. 30	·1059	4. 26	·00750	9. 40	45 ·5	46 ·5
3. 31	52. 30		***	4. 30	·00779	23. 28	43 ·0	44 ·0
3. 50	52. 20	4. 39	·1058	5. 58:	·00800			
4. 38	52. 0	5. 20	·1054	8. 16	·00778			
	(†)	6. 6	·1057	11. 14	·00740			
5. 54	45. 0	7. 6	·1046	17. 55	·00732			
6. 13	46. 0	7. 21	·1052	23. 29	·00920			
6. 23	52. 0	7. 40	·1071					
6. 38	45. 30	7. 45	·1071					
	***	7. 53	·1077					
6. 54	47. 35	8. 7	·1072					
	***	8. 15	·1065					
7. 20	39. 0	8. 45:	·1071					
	***	9. 14	·1055					

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. 3		Feb. 3						
h m	° ′ ″	h m		h m		h m	°	°
7. 26	21. 41. 0	9. 30	·1053					
	***	9. 50	·1059					
7. 46	34. 0	10. 10	·1055					
	***	11. 29	·1060					
9. 0	46. 0	11. 46	·1056					
	***	12. 10	·1061					
11. 15	48. 0	15. 20	·1057					
	***	16. 0	·1053					
12. 7	44. 55	16. 29	·1063					
	***	16. 53	·1065					
12. 28	47. 45	17. 6	·1059					
	***	17. 32	·1068					
12. 57	42. 0		***					
	***	18. 30	·1062					
13. 15	42. 0	19. 0	·1071					
	***	19. 34	·1062					
13. 36	44. 25	20. 15	·1066					
	***	20. 35	·1062					
15. 38:	46. 0	21. 40	·1066					
16. 15	54. 0	21. 59	·1063					
16. 36	49. 0	22. 18	·1066					
17. 0	53. 0	23. 20	·1052					
18. 5	45. 55							
18. 20	47. 0							
19. 29	45. 10							
19. 50	48. 30							
21. 10	46. 30							
23. 59	48. 0							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
0. 0	21. 48. 0	0. 0	·1051	0. 0	·00912	9. 34	43 ·5	44 ·5
0. 10	49. 0	0. 30	·1046	4. 47	·01003	21. 40	42 ·5	44 ·0
0. 16	47. 25	0. 45	·1038	10. 20	·00940			
0. 35	48. 50		***	13. 35	·00900			
	***	2. 25	·1055	17. 5	·01061			
2. 15	49. 40	4. 4	·1060	22. 10	·01090			
	***	4. 45	·1056	23. 59	·01118			
5. 0	48. 0	7. 15	·1056					
	***	9. 0	·1045					
8. 35	46. 0	9. 25	·1046					
9. 5	41. 0	9. 45	·1053					
9. 30	41. 35	10. 0	·1047					
9. 56	45. 0	10. 30	·1050					
	***	10. 50	·1056					
10. 46	44. 0	11. 4	·1052					
10. 59	46. 0	11. 30	·1074					
11. 21	45. 0	12. 0:	·1059					
11. 30	46. 0	13. 0	·1054					
12. 0	43. 40	15. 30	·1062					
	***	16. 0	·1059					
12. 30	46. 5	20. 30	·1067					
12. 55	45. 0	21. 0	·1061					
	***	21. 30	·1062					
15. 22	48. 0	22. 7	·1058					
15. 46	51. 5	23. 53	·1054					
16. 20	48. 0							
17. 5	48. 40							
18. 45	48. 0							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 4								
h m	° ′ ″	h m		h m		h m	°	°
20. 54	21. 46. 0							
	***							
21. 45	47. 0							
22. 23:	50. 35							
	***							
23. 5	49. 30							
	***							
23. 59	50. 35							
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 0	21. 50. 40	0. 1	·1053	0. 50	·01050	1. 40	45 ·8	46 ·0
	***	2. 3	·1056	1. 47:	·01000	3. 40	48 ·0	48 ·0
0. 30	52. 0	2. 45	·1057	3. 30	·00805	9. 40	49 ·0	49 ·5
1. 21	50. 35	3. 0	·1058		·00870	21. 40	43 ·5	44 ·5
3. 14	52. 45	3. 20	·1055	7. 30	·00824			
5. 20	49. 25		***	9. 35	·00800			
	***	4. 0	·1056	12. 15	·00852			
8. 0	48. 0	4. 30	·1052	16. 30	·01064			
	***	5. 0	·1048	21. 15	·01365			
11. 20	46. 0	5. 37	·1042	23. 59	·01508			
11. 39	40. 30	6. 45	·1050					
	***	8. 20	·1052					
12. 9	44. 0	9. 33	·1054					
	***	11. 30	·1058					
14. 0	48. 0	12. 0	·1056					
	***	13. 30	·1056					
15. 31	48. 0	15. 30	·1058					
	***		***					
21. 5	47. 55	17. 30	·1060					
21. 55	51. 45	19. 6	·1065					
22. 22	49. 30		***					
23. 16	48. 35	20. 46	·1060					
23. 59	40. 55	21. 26	·1051					
		23. 6	·1051					
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 0	21. 40. 55	0. 15	·1056	0. 10	·01528	1. 40	46 ·2	47 ·0
0. 35	48. 0	1. 15	·1050	3. 30	·01358	3. 40	47 ·5	48 ·5
0. 50	49. 40	2. 1	·1053	7. 45:	·01128	9. 40	46 ·0	46 ·5
	***	3. 57	·1052	11. 15	·01198	21. 40	42 ·0	43 ·0
1. 50	50. 0	5. 53	·1050	16. 15	·01527			
2. 10	52. 0	8. 5	·1058	18. 45	·01698			
2. 39	49. 35	12. 45	·1056	21. 30	·01610			
2. 45	51. 0	16. 40	·1066	23. 59	·01628			
4. 30	50. 30	19. 45	·1073					
	***		***					
5. 57	46. 0	23. 8	·1062					
	***	23. 59	·1062					
10. 10	46. 30							
	***							
12. 5	45. 5							
	***							
16. 30	48. 30							
	***							
21. 0	47. 0							
21. 25	48. 35							
21. 40	47. 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.
Feb. 6								
h m	° ′ ″	h m		h m		h	°	°
22. 23	21. 50. 30							
	***							
23. 40	48. 45							
	***							
23. 59	49. 0							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 0	21. 49. 0	0. 0	·1062	0. 15	·01640	1. 40	44 ·0	44 ·8
1. 6	48. 25	1. 15	·1058	2. 30:	·01538	3. 40	46 ·0	46 ·0
	***	2. 43	·1060	6. 45	·01188	9. 40	44 ·0	45 ·0
1. 23	50. 15	4. 10	·1058	8. 50	·01150	21. 40	39 ·0	39 ·8
1. 35	49. 0	6. 21	·1052	11. 30	·01238			
1. 45	50. 5	6. 45	·1057	15. 30	·01438			
	***	8. 32	·1057	17. 48	{ ·01617			
2. 27	49. 35	10. 15	·1065		{ ·01565			
2. 32	50. 40	10. 47	·1063	21. 0	·01560			
3. 9	49. 55	15. 35	·1066	23. 59	·01559			
3. 30	50. 55	15. 43	·1069					
	***	18. 33	·1074					
4. 0	50. 45	19. 17	·1072					
	***	20. 30	·1074					
4. 55	47. 0	22. 31	·1069					
	***	22. 41	·1077					
7. 45	46. 30	23. 13	·1071					
	***	23. 59	·1069					
8. 8	44. 0							
	***							
8. 44	45. 30							
	***							
9. 0	44. 0							
	***							
11. 54	44. 30							
	***							
16. 10	47. 0							
	***							
19. 44	46. 0							
	***							
20. 10	44. 30							
	***							
20. 45	47. 0							
	***							
21. 3	46. 0							
	***							
21. 39	47. 0							
	***							
21. 51	49. 30							
	***							
22. 30	47. 0							
	***							
23. 53	50. 20							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 5	21. 51. 0	0. 6	·1069	0. 10	·01545	1. 40	42 ·5	43 ·0
0. 44	52. 0	1. 45	·1065	1. 33:	·01496	3. 40	44 ·0	44 ·0
0. 54	50. 5	2. 34	·1071	4. 0	·01307	9. 40	44 ·0	44 ·5
	***	3. 32	·1071		***	21. 48	40 ·0	41 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 8		Feb. 8		Feb. 8				
h m	° ′ ″	h m		h m		h m	°	°
2. 12	21. 53. 30	3. 30	·1078	5. 45	·01200			
	***		***		***			
2. 21	52. 0							
2. 35	53. 20	4. 45	·1064	6. 20	·01202			
	***		***		***			
3. 20	51. 40							
3. 29	54. 0	5. 59	·1028	7. 0	·01208			
3. 46	53. 55	6. 15	·1044		***			
	***	6. 32	·1032	8. 0	·01127			
4. 40	59. 40	6. 52	·1041	8. 15	·01152			
4. 51	50. 50		***	8. 40	·00995			
	***	7. 13	·1014	11. 30	·01060			
5. 30	50. 0	7. 29	·1033	14. 0	·01147			
	***		***	18. 0	·01377			
5. 59	59. 30	7. 45	·1038	21. 22	·01553			
7. 0	49. 30	7. 58	·1031	22. 15	{ ·01593			
7. 20	42. 0	8. 14	·1095		{ ·01540			
7. 50	48. 0	8. 30	·1039	23. 59	·01562			
8. 11	31. 0	8. 43	·1043					
8. 21	58. 0		***					
8. 35	48. 15	8. 59	·1035					
8. 49	48. 55	9. 5	·1042					
	***	9. 21	·1029					
9. 0	44. 0	9. 35	·1039					
9. 10	44. 0	10. 16	·1043					
	***	10. 30	·1041					
9. 30	32. 0	11. 40	·1058					
	***	11. 48	·1065					
10. 9	41. 55	12. 15	·1053					
	***	12. 30	·1055					
11. 25	49. 20		***					
11. 36	44. 30	12. 54	·1040					
	***	13. 15	·1050					
13. 0	41. 0	13. 41	·1047					
	***		***					
13. 20	46. 55	15. 0	·1051					
	***	15. 21	·1055					
14. 30	47. 15		***					
	***	17. 44	·1058					
15. 30	45. 0	19. 0	·1057					
	***	19. 21	·1062					
16. 35	47. 0	19. 45	·1060					
	***	19. 53	·1068					
17. 38	45. 0	20. 20	·1059					
	***	21. 22	·1057					
19. 19	49. 55	21. 44	·1052					
19. 30	47. 55	21. 59	·1053					
	***	22. 44	·1048					
20. 30:	48. 0	23. 37	·1047					
	***		***					
22. 5	54. 0	23. 56	·1042					
22. 20	52. 30							
22. 32	54. 0							
22. 48	51. 35							
	***							
23. 59	54. 30							
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
0. 0	21. 55. 25	0. 0	·1044	0. 25	·01572	1. 40	43 ·0	44 ·0
	***		***	1. 10	·01590	3. 40	43 ·5	43 ·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.
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 51	21. 52. 50	1. 7	·1051	4. 54	·01412	9. 40	42 ·0	42 ·5
1. 23	55. 25	1. 39	·1053	7. 33:	·01260	21. 40	36 ·0	37 ·0
1. 50	54. 30	1. 59	·1049	8. 46	·01280			
2. 0	56. 0	2. 49	·1053	11. 20	·01370			
2. 58	53. 10	3. 30	·1052	15. 18	·01563			
3. 6	54. 30		***		·01520			
3. 25	52. 30	4. 36	·1030	19. 27	·01500			
3. 35	53. 55	4. 46	·1034	22. 55	·01462			
3. 46	53. 10	4. 55	·1030	23. 59	·01502			
4. 0	55. 0	5. 26	·1036					
4. 24	54. 15	5. 40	·1042					
4. 47	47. 30	5. 59	·1040					
6. 0	45. 10	7. 20	·1051					
	***	7. 48	·1048					
7. 10	45. 30	8. 20	·1050					
7. 29	48. 5	8. 45	·1046					
	***	9. 31	·1052					
8. 15	48. 0	10. 25	·1043					
8. 55	40. 35	11. 0	·1052					
9. 4	41. 55	11. 55	·1051					
	***		***					
9. 45	42. 0	12. 30	·1059					
9. 55	45. 10	12. 45	·1054					
	***	15. 16	·1058					
11. 55	44. 40	15. 46	·1066					
	***		***					
12. 24	49. 0	17. 0	·1063					
12. 46	45. 30	19. 10	·1069					
	***	20. 45	·1063					
13. 16	44. 25	21. 29	·1067					
	***	22. 5	·1066					
15. 10	47. 10	22. 36	·1070					
	***	23. 59	·1060					
15. 57	45. 0							
16. 30	48. 0							
16. 53	46. 35							
	***							
18. 48	50. 40							
	***							
20. 31	48. 25							
	(†)							
22. 0	50. 25							
22. 21	51. 35							
	***							
23. 0	51. 30							
23. 20	49. 35							
23. 31	50. 55							
23. 42	49. 0							
23. 59	50. 30							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 0	21. 50. 30	0. 0	·1060	1. 50	·01401	1. 40	39 ·0	40 ·0
0. 48	50. 45	0. 34	·1062	2. 30	·01320	3. 40	43 ·0	44 ·0
	(†)	2. 17	·1052	5. 17	·00743	9. 40	41 ·0	42 ·0
2. 36	52. 0	2. 42	·1054	5. 50	·00681	23. 10	29 ·0	29 ·5
3. 41	52. 20	4. 10	·1051	5. 58	·00706			
	(†)	4. 22	·1055	8. 33:	·00649			
7. 52	48. 0	4. 44	·1053	10. 34	·00742			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		Feb. 10				
h m	° ′ ″	h m		h m		h m	°	°
8. 29	21. 42. 35	5. 0	·1056	13. 3	·00987			
	***	5. 11	·1053	16. 41	·01430			
9. 15	44. 20		***		·01380			
9. 30	45. 30	7. 8	·1058	21. 42	·01420			
	***	8. 14	·1049	21. 46	·01320			
11. 15	46. 10	8. 22	·1057	23. 22	·01281			
11. 51	48. 0	9. 17	·1057					
12. 2	46. 0	9. 40	·1054					
14. 20	46. 55	12. 52	·1061					
15. 15	48. 0	13. 44	·1060					
15. 50	46. 45	16. 49	·1071					
	(†)	17. 35	·1075					
18. 30	48. 30	18. 33	·1076					
	***	20. 48	·1081					
20. 52	46. 30	21. 30	·1078					
22. 41	49. 20	23. 59	·1077					
23. 15	49. 0							
23. 59	49. 25							
Feb. 11		Feb. 11		Feb. 11		Feb. 11		
0. 0	21. 49. 25	0. 0	·1077	0. 0	·01272	8. 15	35 ·5	37 ·0
0. 22	49. 25	1. 0	·1070	4. 32	·01090	21. 40	35 ·0	36 ·0
	***	1. 16	·1071	8. 40	·00652			
1. 28	52. 0	2. 22	·1088	9. 50	·00594			
2. 8:	52. 5	2. 50	·1073	10. 3	·00600			
2. 43	54. 15	3. 44	·1078	10. 17	·00584			
	***	4. 15	·1052	13. 20	·00594			
3. 44	54. 5	4. 31	·1062	14. 47	·00531			
3. 59	55. 35	4. 39	·1055	17. 54	·00642			
4. 11	55. 20	5. 8	·1074	21. 58	·00759			
4. 22	52. 0	5. 30	·1083	23. 59	·00746			
4. 30	55. 5	6. 5	·1075					
4. 45	52. 0	6. 20	·1083					
6. 3	46. 0	6. 44	·1081					
	***	7. 0	·1074					
6. 46	50. 10	7. 30	·1075					
	***	7. 49	·1090					
7. 15	48. 25	8. 4	·1079					
7. 34	42. 0	8. 56	·1066					
7. 58	48. 15	9. 44	·1071					
	***	10. 6	·1100					
8. 51	46. 55	10. 32	·1070					
	***	10. 46	·1068					
9. 29	48. 0	11. 8	·1074					
9. 54	39. 35	13. 29	·1078					
10. 14	48. 10	14. 31	·1074					
	***	14. 40	·1077					
10. 55	41. 30	15. 10	·1070					
11. 18	44. 50		***					
	***	16. 30	·1075					
13. 1	45. 10		***					
	***	16. 52	·1080					
13. 51	41. 25	17. 14	·1073					
	***	17. 31	·1076					
14. 17	42. 50		***					
	***	17. 55	·1069					
15. 0:	41. 25	18. 46	·1079					
	***	18. 59	·1075					

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. 11		Feb. 11						
h m	° ′ ″	h m		h m		h m	°	°
15. 51	21. 45. 30	19. 15	·1076					
16. 11	41. 20	19. 46	·1085					
16. 22	43. 35	21. 14	·1081					
16. 36	43. 15	22. 16	·1083					
	***	22. 48	·1078					
17. 46	44. 35	23. 14	·1066					
18. 9	48. 30	23. 59	·1062					
19. 0	49. 55							
19. 30	48. 30							
20. 14	48. 0							
20. 45	50. 20							
21. 44	49. 25							
21. 57	52. 0							
22. 26	49. 25							
22. 46	50. 10							
23. 16	49. 5							
23. 30	52. 0							
23. 59	52. 10							
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
0. 0	21. 52. 15	0. 0:	·1062	0. 33	·00711	1. 40	41 ·0	42 ·5
0. 23	51. 10	0. 30	·1067	1. 18	·00669	3. 40	44 ·0	45 ·0
0. 55	53. 30		***		·00720	9. 40	44 ·0	44 ·0
1. 5	52. 55	1. 30	·1055	3. 32	·00864	21. 40	36 ·5	37 ·0
1. 36	54. 50	2. 14	·1059	4. 42	·00875			
2. 32	54. 0	3. 5	·1062	5. 26	·00854			
	***	3. 20	·1053	6. 27	·00898			
2. 55	21. 58. 0	3. 34	·1054	7. 10	·00920			
	***	3. 46	·1041	8. 0	·00918			
3. 44	22. 0. 30	4. 0	·1057	9. 30	·00990			
4. 0	21. 51. 20	4. 27	·1056	9. 57	·00999			
4. 30	50. 25	4. 40	·1065	10. 20	·00935			
4. 44	52. 20	4. 59	·1057	10. 30	·00964			
	***	5. 22	·1062	10. 35	·00950			
6. 45	41. 20	5. 34	·1054	10. 45	·00965			
	***	5. 44	·1054	11. 0	·00940			
7. 21	42. 0	6. 1	·1041	11. 15	·01011			
	***	6. 15	·1047	12. 32	·01020			
7. 50	47. 45	6. 25	·1036	12. 15	·01110			
8. 6	43. 30	6. 48	·1055	14. 10	·01188			
8. 15	46. 5	7. 0	·1069	17. 14	·01466			
8. 30	43. 30	7. 28	·1062	18. 46	·01618			
8. 40	45. 10	7. 44	·1054	18. 48	·01568			
9. 0	52. 0	7. 58	·1039	21. 20	·01600			
9. 16	44. 0	8. 10	·1044	23. 59	·01630			
9. 32	30. 30	8. 28	·1042					
9. 53	36. 30	8. 39	·1044					
10. 14	53. 55	8. 55	·1036					
10. 27	36. 0	9. 7	·1044					
10. 41	44. 55	9. 27	·1043					
10. 47	43. 15	10. 0	·1082					
10. 59	44. 0	10. 8	·1074					
11. 14	30. 0	10. 16	·1075					
11. 35	43. 10	10. 30	·1088					
11. 52	37. 30	10. 40	·1075					
12. 17	37. 0	10. 46	·1083					
12. 40	53. 35	11. 2	·1072					
13. 5	37. 25	11. 15	·1076					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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						
h m	° ′ ″	h m		h m		h m	°	°
14. 0	21. 53. 0	11. 40	·1063					
15. 0	33. 55	12. 32	·1072					
15. 47	46. 0	13. 14	·1081					
16. 6	44. 15	14. 31	·1054					
16. 30	47. 30	16. 9	·1058					
16. 52	44. 20	16. 50	·1052					
17. 15	44. 0	17. 31	·1057					
17. 33	48. 0	18. 15	·1062					
17. 50	48. 30	18. 25	·1067					
18. 44	48. 0	21. 8	·1056					
19. 30	50. 55	21. 38	·1059					
19. 51	49. 25	21. 47	·1055					
	***	22. 11	·1057					
20. 29	51. 0	22. 43	·1051					
21. 1	48. 30	23. 15	·1054					
21. 33	51. 0	23. 50	·1053					
23. 13	50. 25							
23. 59	51. 55							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 0	21. 52. 0	1. 40	·1049*	0. 45	·01588	1. 40	39 ·0	40 ·0
0. 45	54. 30	3. 40	·1052*	2. 46	·01486	3. 40	41 ·0	42 ·0
1. 0	51. 35	9. 40	·1065*	3. 30	·01460	9. 50	39 ·0	39 ·0
1. 15	55. 25	21. 40	·1066*	6. 21	·01185	21. 40	31 ·0	33 ·0
	***			8. 1	·01139			
2. 15	52. 35			8. 4	·01220			
2. 32	54. 30			10. 58	·01351			
3. 15	52. 40			14. 57	·01582			
3. 43	52. 55				·01536			
3. 45	55. 35			18. 51	·01493			
3. 51	51. 0			23. 59	·01478			
3. 55	55. 5							
4. 1	52. 0							
4. 6	53. 10							
	***							
4. 43	49. 0							
	***							
8. 51	45. 35							
	***							
11. 0	45. 50							
	***							
11. 50	44. 0							
12. 46	45. 30							
13. 26	44. 30							
14. 45	45. 30							
15. 8	47. 0							
16. 19	46. 25							
21. 11	46. 20							
21. 46	47. 35							
22. 14	46. 25							
23. 59	50. 25							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
1. 40	21. 54. 0*	1. 40	·1059*	0. 43	·01449	1. 40	35 ·0	37 ·0
3. 40	55. 40*	3. 40	·1060*	1. 21	·01422	3. 40	39 ·0	40 ·0
9. 0	37. 0*	9. 40	·1047*	3. 6:	·01200	9. 40	41 ·0	41 ·5
21. 0	46. 14*	21. 40	·1057*	4. 30	·00899	21. 40	36 ·0	37 ·0
				5. 35	·00690			

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

February 14. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for reduction to numbers.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		Feb. 14 h m		h m	°	°
				5. 37	·00730			
				6. 21:	·00759			
				8. 20	·00699			
				8. 31	·00638			
				10. 10	·00649			
				14. 12	·00660			
				18. 51	·00965			
				23. 25	·01239			
				23. 59	·01260			
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 51	21. 42. 0	1. 40	·1058*	0. 45	·01245	1. 40	39 ·0	40 ·0
1. 4	43. 0	3. 40	·1055*	3. 2	·00962	3. 40	43 ·0	43 ·5
3. 0	41. 0	9. 45	(†)		(†)	9. 40	44 ·0	45 ·0
3. 15	41. 10	10 29:	·1057	9. 27	·01029	21. 40	35 ·0	36 ·0
	(†)	11. 4	·1056	11. 19	·01113			
7. 0	34. 35	11. 15	·1070	14. 39	·01420			
9. 0:	34. 25	11. 44	·1068	16. 57	·01642			
9. 29:	38. 20	12. 35	·1072		·01586			
9. 53	34. 35	14. 15	·1061	19. 34	·01579			
	***	17. 16	·1068	21. 57	·01569			
10. 52	34. 20	18. 43	·1069		·01360			
11. 8	35. 55	21. 25	·1075	23. 59	·01424			
11. 33	33. 0	22. 55	·1073					
11. 48	34. 10	23. 29	·1060					
12. 6	31. 0	23. 59	·1062					
12. 48	35. 5		·1058					
13. 5	34. 15							
	***							
15. 20	36. 10							
	***							
18. 0	35. 0							
	(†)							
20. 45	37. 0							
21. 30	35. 55							
	***							
23. 59	37. 30							
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 0	21. 37. 30	0. 0	·1058	0. 47	·01409	1. 40	40 ·0	41 ·0
1. 48	44. 25	2. 15	·1064	2. 50	·01128	3. 40	33 ·0	44 ·0
	***	3. 55	·1054	5. 0	·00836	9. 40	42 ·5	42 ·5
2. 40	44. 45	4. 32	·1055		·00990	21. 40	33 ·0	33 ·5
4. 59	41. 25	5. 11	·1051	6. 59	·00850			
	***	6. 51	·1048	7. 5	·00929			
9. 5	37. 20	7. 44	·1058	8. 15	·00960			
	***	13. 7	·1072	10. 25	·01175			
9. 44	36. 0	13. 39	·1067	12. 50	·01451			
	***	13. 50	·1071	13. 40	·01519			
12. 44	35. 40	16. 52	·1070	15. 30	·01480			
	***	17. 30	·1079	16. 39	·01500			
14. 4	37. 16	18. 22	·1079	22. 17	·01442			
15. 44	36. 30	20. 7	·1083	23. 58	·01454			
	***	20. 44	·1081					
18. 12	38. 0	21. 18	·1083					
	***	22. 17	·1075					
21. 0	37. 55	22. 34	·1078					
21. 35:	39. 50	23. 28	·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.	Readings of Thermometers. Of V. F. Magnet.
Feb. 16 h m	° ′ ″	Feb. 16 h m		h m		h m	°	°
22. 15	21. 37. 0	23. 59	·1057					
22. 26	38. 0							
22. 45	36. 50							
23. 55	39. 25							
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 0	21. 51. 0	0. 0	·1057	0. 0	·01469	1. 40	38 ·0	39 ·0
0. 52	52. 0	2. 35	·1048	0. 45	·01457	3. 40	39 ·0	39 ·5
2. 21	56. 20	3. 47	·1048	1. 52	·01322	9. 40	39 ·0	39 ·0
2. 52	56. 0	4. 44	·1054	4. 15	·00972	23. 37	31 ·0	31 ·0
3. 2	57. 0	4. 50	·1044	5. 52	·00760			
3. 20	56. 5	5. 38	·1046	7. 13	·00660			
3. 39	57. 30	6. 22	·1025	8. 47	·00660			
5. 0	54. 20	7. 0	·1021	9. 0	·00626			
6. 0	52. 0	7. 8	·1025	9. 25	·00659			
6. 31	50. 0	7. 29	·1019	10. 30	·00670			
7. 0	49. 50	7. 58	·1016	12. 17	·00800			
	***	8. 14	·1020	15. 47	·01119			
8. 25	43. 0	8. 44	·1037	19. 4	·01403			
8. 45	47. 50	9. 0	·1023		·01360			
9. 6	37. 0	9. 27	·1041	22. 13	·01344			
	(†)	10. 2	·1031	22. 26	·01308			
9. 40	37. 44*	12. 13	·1041	23. 46	·01310			
23. 37	51. 0*	12. 45	·1049					
			(†)					
		23. 37	·1048*					
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 45	21. 54. 0	0. 0	·1046	0. 13	·01302	9. 48	35 ·0	37 ·0
1. 39:	56. 40	1. 15	·1052	1. 19	·01280	21. 40	27 ·5	29 ·5
3. 1	55. 30	1. 47	·1033	1. 28	·01254			
3. 40:	55. 15	2. 25	·1041	1. 47	·01241			
4. 19	53. 40	2. 30	·1039	3. 47	·01129			
	(†)	5. 15	·1057	6. 37	·00769			
6. 6	49. 20	5. 25	·1055	8. 15	·00550			
6. 44:	51. 0	6. 0	·1057	10. 28	·00498			
7. 43	44. 30	6. 28	·1064	11. 33	·00457			
8. 46	44. 0	7. 39	·1041	15. 10	·00710			
	***	8. 0	·1046	17. 0	·00899			
10. 30	48. 0	8. 15	·1042	20. 45	·01255			
10. 53	46. 50	8. 30	·1046	21. 46	·01323			
	***	10. 44	·1051	22. 1	·01308			
12. 0	47. 0	11. 0	·1048	22. 5	·01230			
12. 27	48. 30	12. 10	·1053	23. 55	·01170			
	***	12. 35	·1046					
13. 4	46. 0	14. 14	·1053					
13. 38	48. 0	14. 16	·1049					
14. 1	46. 0	14. 30	·1055					
14. 32	54. 55	14. 56	·1052					
14. 55	50. 20	15. 16	·1058					
15. 16	46. 30	16. 0	·1049					
15. 43	46. 35	16. 50	·1048					
16. 23	49. 40	17. 31	·1033					
16. 39	48. 10	18. 14	·1043					
17. 30	50. 40	18. 44	·1037					
	(†)	19. 14:	·1041					
21. 6	44. 0	19. 54	·1055					
21. 45	52. 0	20. 0	·1051					
	***	20. 31	·1058					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 18		Feb. 18						
h m	° ′ ″	h m		h m		h m	°	°
22. 36	21. 49. 55	20 45	·1056					
22. 53	51. 30	21. 0	·1060					
23. 5	50. 5		***					
23. 59	51. 0	22. 35	·1061					
		23. 44	·1054					
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 0	21. 51. 10	0. 0	·1036	0. 30	·01184	1. 40	33 ·0	34 ·0
0. 10	52. 20	1. 50	·1041	1. 47:	·01124	3. 40	36 ·0	37 ·5
0. 27	51. 40	3. 43	·1033	4. 12	·00722	9. 45	40 ·2	40 ·5
	***	4. 3	·1037	6. 32	·00774	21. 40	34 ·5	36 ·0
0. 44	53. 20	4. 32	·1033	8. 45	·00698			
0. 54	55. 25	5. 15	·1036	11. 40	·00758			
1. 15	53. 0		***	15. 10	·00813			
	***	6. 14	·1024	16. 18	·00824			
3. 23	54. 0	6. 34	·1027	19. 28	·01047			
5. 0	51. 45	6. 57	·1036	21. 45	·01235			
5. 39	51. 55	7. 22	·1031	23. 58	·01349			
6. 20:	43. 5	8. 10	·1032					
6. 31	46. 10	8. 36	·1028					
	***	9. 16	·1026					
7. 13	45. 30	9. 31	·1047					
	***	9. 46	·1034					
8. 35	49. 10	9. 57	·1044					
	***	10. 2	·1046					
8. 50	45. 30	10. 27	·1033					
	***	10. 45	·1038					
9. 0	46. 0	10. 59	·1031					
	***	11. 14	·1034					
9. 37	35. 30	14. 40	·1042					
	***	15. 7	·1051					
9. 51	36. 35	15. 15	·1048					
10. 10	48. 0	15. 45	·1059					
	***		***					
10. 39	49. 5	16. 25	·1040					
10. 47	46. 0		***					
	***	17. 22	·1044					
14. 15	48. 5	17. 31	·1048					
14. 44	46. 45	18. 14	·1045					
14. 50	48. 30	18. 50	·1054					
15. 20	38. 30	19. 44	·1044					
16. 0	41. 20	21. 0	·1052					
16. 25	42. 0	21. 33	·1042					
16. 35	45. 30	22. 20:	·1046					
16. 46	44. 30	23. 14	·1036					
17. 44	46. 30	23. 30	·1036					
18. 16	48. 0							
19. 0	47. 0							
20. 9	50. 5							
20. 20	49. 15							
20. 52	52. 55							
21. 17	50. 0							
21. 50	52. 5							
21. 59	50. 40							
	***							
22. 38	56. 0							
23. 21	53. 30							
23. 30	55. 10							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 19								
h m	° ′ ″	h m		h m		h m	°	°
23. 43	21. 53. 30							
23. 46	55. 0							
23. 55	52. 55							
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 20	21. 56. 15	0. 0	·1033	0. 30	·01324	1. 40	37 ·5	37 ·5
1. 4	54. 20	2. 45	·1037	2. 30:	·01204	3. 40	42 ·0	42 ·5
	***	3. 53	·1032		·00817	9. 40	43 ·0	43 ·0
1. 35	52. 25	5. 25	·1032	4. 18	·00890	21. 40	34 ·5	35 ·5
2. 30	53. 0	5. 42	·1012	5. 3	·00862			
2. 40	55. 50	6. 0	·1019	5. 5	·00942			
2. 46	53. 15	6. 38	·1015	6. 10	·00959			
3. 35	52. 55	7. 29	·1029	9. 30	·01144			
3. 45	53. 45	9. 37	·1033	10. 33	·01248			
5. 16	51. 40	10. 30	·1027	14. 50	·01645			
5. 27	52. 35	10. 46	·1035	15. 3	·01598			
6. 40:	49. 25	11. 11	·1032	18. 0	·01568			
7. 0:	52. 20	11. 40	·1033	20. 45	·01564			
7. 40	48. 50	14. 15	·1042		·01480			
9. 25:	48. 30	15. 44	·1044	23. 50	·01520			
9. 55	38. 20	16. 36	·1051					
10. 16	33. 30	17. 10	·1046					
10. 33	41. 0	17. 47	·1051					
10. 47	35. 30	18. 0	·1044					
11. 50	46. 0	18. 16	·1044					
	***	18. 36	·1051					
13. 22	46. 55	19. 31	·1044					
	***	20. 40	·1052					
14. 19	48. 35	20. 47	·1047					
14. 45	47. 25	21. 28	·1045					
	***	22. 16	·1016					
15. 17	50. 30	22. 45	·1027					
	***	23. 59	·1030					
16. 25	47. 0							
16. 36	48. 30							
16. 55	46. 0							
17. 20	49. 30							
17. 40	47. 20							
	***							
18. 30	48. 0							
18. 44	46. 40							
19. 0	48. 35							
	***							
20. 51	49. 0							
21. 9	52. 25							
	***							
22. 28	51. 30							
22. 35	53. 30							
23. 32	52. 30							
23. 51	53. 0							
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 5	21. 55. 0	0. 0	·1028	0. 0	·01518	1. 40	40 ·0	40 ·0
0. 32	54. 30	0. 41	·1016	1. 45:	·01422	3. 40	43 ·3	43 ·5
1. 5:	52. 0	1. 30	·1025	4. 44	·00970	9. 40	42 ·0	43 ·0
2. 7	54. 30	2. 9	·1007	6. 20:	·00784	21. 40	36 ·0	37 ·0
	***	2. 22	·1021	8. 32	·00905			
3. 24	52. 0	2. 35	·1026	8. 40	·00877			

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. 21		Feb. 21		Feb. 21				
h m	° ′ ″	h m		h m		h m	°	°
3. 35	21. 53. 0	3. 15	·1025	11. 30	·00947			
6. 11	49. 35	4. 37	·1028	13. 25	·00988			
6. 30	50. 30	5. 15	·1023	14. 15	·01038			
6. 45	49. 30	5. 45	·1020	14. 40	·01030			
	***	6. 0	·1025	18. 20	·01422			
8. 0	50. 35		***	20. 17	·01610			
8. 25	46. 30	6. 42	·1021	23. 45	·01584			
8. 30	48. 0		***					
	***	7. 30	·1026					
8. 45	41. 15	8. 33	·1008					
	***	8. 46	·1018					
9. 15	50. 0	9. 16	·1011					
	***	9. 35	·1015					
9. 30	46. 30	9. 46	·1012					
9. 45	49. 0	10. 0	·1024					
9. 59	47. 15	10. 15	·1014					
10. 7	48. 20	10. 32	·1021					
10. 31	44. 45	11. 25	·1004					
11. 6	49. 15	11. 43	·1014					
11. 35	49. 0	12. 0	·1011					
	***	12. 20	·1028					
12. 27:	44. 30	12. 30	·1024					
	***	13. 3	·1023					
12. 51	48. 0	13. 15	·1028					
13. 30	41. 0	13. 23	·1023					
	***	13. 31	·1030					
13. 53	44. 5	13. 45	·1026					
14. 5	51. 35	14. 21	·1031					
	***	14. 15	·1022					
14. 30	54. 0	14. 25	·1024					
14. 54	51. 45	14. 36	·1014					
	***	15. 20	·1028					
15. 25	51. 35	16. 16	·1032					
15. 59	44. 30	17. 21	·1022					
16. 16	44. 0	17. 58	·1029					
	***	19. 16	·1030					
18. 0	48. 25		***					
	***	20. 21	·1020					
19. 52	47. 25		***					
20. 23	52. 0	21. 17	·1027					
	***	22. 40	·1022					
20. 59	53. 0	23. 39	·1001					
21. 37	49. 35	23. 58	·1004					
21. 58	50. 10							
22. 30	49. 5							
23. 45	54. 20							
23. 58	54. 10							
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 0	21. 52. 30	0. 29	·1000	1. 6	·01419	1. 40	42 ·0	42 ·0
0. 15	51. 40	1. 45	·1006	1. 30	·01409	3. 40	47 ·0	47 ·5
0. 31	52. 0	3. 15	·1004	4. 4	·00940	9. 40	47 ·0	47 ·5
1. 0	53. 10	4. 10	·1000	4. 30	·00947	21. 40	37 ·5	39 ·0
1. 35:	51. 20		***	5. 10	·00929			
2. 15	53. 15	7. 20	·1006	7. 4	·01023			
2. 26	51. 0	7. 52	·1008	10. 20	·01090			
2. 45	52. 0	8. 7	·1004	10. 46	·01115			
4. 30	50. 30	10. 15	·1011	14. 32	·01442			
5. 5	51. 10	14. 30	·1020	16. 18	·01632			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 22		Feb. 22		Feb. 22				
h m	° ′ ″	h m		h m		h m	°	°
5. 59	21. 49. 30	16. 0	·1030	16. 28	·01570			
6. 6	49. 35	16. 30	·1043	18. 42	·01568			
	(†)	17. 0	·1034	20. 18	·01598			
12. 32	45. 25	17. 25	·1031	22. 11	·01578			
	***	17. 52	·1041	23. 0	·01586			
13. 1	45. 0	18. 22	·1034	23. 59	·01579			
	***	19. 0:	·1028					
14. 23	48. 10	20. 0	·1031					
	***	21. 25	·1033					
14. 57	45. 30	21. 32	·1026					
15. 16	48. 10	22. 10	·1021					
15. 38	46. 55	22. 18	·1024					
15. 59	49. 0	22. 33	·1015					
16. 45	48. 25	22. 47	·1022					
17. 20	49. 0	23. 5	·1016					
18. 7	49. 50	23. 59	·1020					
18. 39:	45. 0							
18. 57	46. 45							
19. 11	45. 35							
19. 31	48. 30							
	***							
20. 15	47. 30							
	***							
21. 0	48. 30							
	***							
21. 31	47. 10							
21. 54	49. 40							
	***							
23. 1	47. 40							
23. 53	48. 10							
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
1. 40	21. 53. 13*	0. 17	·1014	0. 26	·01520	1. 40	44 ·0	45 ·0
3. 40	53. 4*	0. 57	·1010	1. 20	·01494	3. 40	45 ·0	45 ·0
9. 40	54. 20*	1. 15	·1003	2. 58	·01321	9. 40	46 ·0	47 ·0
	(†)	1. 45	·0998	4. 34	·01168	21. 40	42 ·0	43 ·5
12. 0	53. 30	2. 30	·1006	6. 10	·00941			
13. 0	53. 0		***	8. 41:	·00769			
13. 22	56. 45	3. 45	·1012	10. 30	·00768			
14. 25:	52. 10		***	10. 48	·00761			
16. 1	52. 5	4. 15	·1007	12. 56	·00811			
17. 30	53. 15	4. 28	·1010	13. 30	·00800			
18. 0	52. 55	5. 50	·1006	18. 11	·01041			
18. 24	52. 0	6. 25	·1002	23. 35	·01287			
19. 25	53. 10	6. 37	·0996	23. 59	·01280			
19. 55	52. 30	7. 15	·1005					
20. 20	53. 30	7. 30	·1010					
	***	8. 30	·1011					
21. 54:	50. 35	9. 45	·1011					
23. 36	57. 25	10. 15:	·1048					
23. 59	56. 50	10. 55	·1012					
		11. 15	·1018					
		11. 40	·1000					
		11. 47	·1006					
		13. 0	·1016					
		13. 8	·1027					
		13. 45	·1015					
		15. 16	·1018					
		16. 15	·1016					

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	° ′ ″	Feb. 23 h m		h m		h m	°	°
		17. 15	·1021					
		19. 0	·1023					
		21. 30	·1019					
		23. 15	·1011					
		23. 45	·1010					
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 0	21. 56. 50	0. 16	·1011	0. 20	·01280	1. 40		
1. 15	54. 50	1. 45	·1008	2. 5:	·01111	3. 40		
2. 54	54. 5	2. 44	·1003	3. 23	·00919	9. 40	47 ·0	48 ·0
3. 5	56. 0	3. 8	·1006	3. 30	·00951	23. 4	50 ·0	50 ·5
5. 15	52. 0		***	3. 45	·00960		49 ·5	49 ·5
5. 33	54. 50	5. 0	·0996	4. 15	·00968		45 ·5	46 ·0
5. 50	53. 0	6. 37	·0992	5. 16	·00870			
6. 8	54. 20	7. 15	·0995	7. 4	·00938			
6. 30	53. 15	7. 47	·0989	7. 56	·00931			
7. 0	54. 20	8. 0	·0996	9. 5	·00941			
7. 49	51. 0	8. 30	·0992	10. 50	·01011			
8. 4	52. 0	9. 0	·1004	11. 28	·01079			
	***	9. 22	·0998	13. 21	·01245			
8. 30	48. 15	10. 0	·0988	14. 4	·01328			
9. 0	53. 15	10. 30	·1005	15. 50	·01448			
9. 19	46. 20	10. 45	·0996	16. 59	·01400			
9. 57	43. 0	11. 30	·1009	20. 57	·01159			
10. 30	55. 0	12. 15	·1004	23. 20	·00921			
	***	13. 0	·1010					
10. 46	54. 30	14. 15	·1008					
11. 2	48. 20	14. 45	·1014					
	***		***					
11. 46	48. 0	15. 55	·1016					
12. 0	50. 0	16. 15	·1008					
12. 52	50. 0	16. 43	·1009					
13. 8	45. 30	16. 55	·1004					
13. 48	54. 0	17. 15	·1013					
	***	18. 0	·1018					
14. 31	53. 0	18. 45	·1022					
14. 40	54. 0	19. 47	·1019					
15. 14	49. 0	21. 0	·1018					
15. 20	51. 0	22. 0	·1010					
	***	22. 45	·1008					
15. 50	50. 30	23. 0	·1010					
16. 13:	48. 0							
16. 52	56. 0							
17. 20	54. 0							
17. 55	54. 55							
21. 25	52. 30							
22. 35	53. 35							
23. 10	55. 35							
23. 30	52. 30							
	***							
23. 59	55. 0							
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 0	21. 55. 55	0. 30	·1008	0. 0	·00905	9. 27	50 ·0	50 ·0
0. 31:	54. 40		***	1. 46	·00798	21. 40	48 ·0	49 ·5
1. 0	56. 5	2. 45	·1006		·00830			
	***	3. 0	·1002	5. 26	·00862			
2. 15	56. 35	3. 30	·1005	8. 0	·00889			
2. 35	54. 40	4. 10	·1003	13. 32	·00831			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 h m	° ′ ″	Feb. 25 h m		Feb. 25 h m		h m	°	°
2. 59	21. 53. 0	4. 30	·1006	17. 10	·00912			
3. 24	54. 0	6. 55	·1008	21. 30	·01154			
4. 15	52. 30	7. 45	·1010	22. 9	·01163			
5. 37	51. 20	8. 0	·1012	22. 13	·01098			
6. 15	51. 55	9. 30	·1010	23. 59	·01121			
7. 0	51. 0	10. 0	·1012					
11. 15	51. 5	12. 0	·1009					
	***	13. 15	·1013					
12. 10	50. 0	14. 0	·1012					
	***	15. 8	·1010					
13. 53	51. 0	16. 2	·1012					
14. 9	51. 10	21. 45	·1012					
14. 31	50. 0		***					
15. 4	52. 0	22. 35	·1001					
15. 15	51. 30		***					
15. 30	50. 0	23. 59	·1000					
	***							
16. 13	49. 30							
20. 39	49. 10							
20. 59	50. 0							
21. 25	48. 10							
	***							
22. 50	49. 30							
	***							
23. 59	52. 0							
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 0	21. 52. 0	0. 0	·1000	0. 33	·01091	1. 40	50 ·0	50 ·5
0. 45	52. 0		***	1. 50	·01063	3. 40	51 ·0	51 ·5
1. 29	51. 10	1. 50	·1004	5. 1	·00844	9. 40	50 ·5	50 ·5
2. 21	51. 30		***		·00940	21. 40	44 ·5	45 ·3
3. 8	49. 30	4. 0	·1000	8. 46	·00888			
3. 36	53. 30	4. 6	·1002	10. 26	·00968			
4. 11	49. 25	4. 32	·0996	11. 10	·00986			
4. 43:	51. 0	5. 45	·1006	14. 40	·01244			
5. 8	48. 55	6. 17	·1002	17. 29	·01454			
5. 44	50. 45	7. 0	·1009	17. 35	·01362			
6. 51	48. 0	7. 15	·1006	18. 36	·01400			
7. 24	49. 30	8. 30	·1003	21. 0	·01402			
	***	8. 37	·1001	23. 59	·01358			
8. 15	49. 30	8. 50	·1006					
8. 23	51. 0	9. 15	·1003					
8. 44	49. 0	10. 0	·1010					
9. 15:	50. 20	10. 30	·1017					
10. 0	48. 5	10. 52	·1017					
10. 26	51. 55	11. 8	·1005					
10. 48	50. 15	11. 30	·1011					
10. 56	50. 35	13. 23	·1014					
11. 6	48. 30	14. 0	·1012					
12. 0	50. 0	16. 27	·1015					
13. 59	50. 10	17. 30	·1021					
14. 46	51. 15	18. 0	·1023					
16. 46	49. 45	20. 0	·1021					
17. 2	50. 35	21. 0	·1018					
18. 6	49. 0	21. 17	·1020					
18. 45	50. 0	22. 10	·1010					
	***	23. 59	·1015					
20. 6	49. 15							
20. 45	50. 15							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 26								
h m	° ′ ″	h m		h m		h m	°	°
21. 45	21. 49. 35							
22. 0	51. 20							
23. 59	53. 35							
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
0. 0	21. 53. 35	0. 45	·1012	0. 14	·01340	1. 40	47 ·0	48 ·0
1. 10	55. 0	***	***	2. 25	·01340	3. 40	47 ·0	49 ·0
1. 30	57. 0	1. 20	·1010	7. 11	·01048	9. 40	47 ·0	47 ·5
1. 41	56. 0	***	***	8. 50	·00960	21. 40	45 ·0	45 ·5
***		1. 31	·1006	10. 45	·00979			
2. 1	56. 55	***	***	13. 49	·01042			
***		2. 10	·1003	18. 16	·01152			
3. 19	52. 35	***	***	18. 24	·01104			
***		3. 0	·1010	20. 9	·01100			
5. 36	50. 35	***	***	22. 10	·01060			
6. 20	50. 0	4. 0	·1007	23. 59	·00965			
***		***	***					
9. 45	50. 0	4. 28	·1013					
***		5. 0	·1010					
11. 46	49. 20	***	***					
***		6. 2	·1013					
12. 41	51. 0	6. 30	·1010					
***		8. 15	·1016					
15. 0	50. 30	9. 0	·1018					
15. 13	49. 5	10. 44	·1010					
***		11. 8	·1020					
15. 51	49. 0	11. 30	·1016					
16. 19	50. 5	12. 30	·1020					
16. 31	49. 0	***	***					
16. 56	49. 35	15. 10	·1028					
17. 10	46. 30	15. 25	·1023					
17. 15	49. 0	***	***					
***		16. 57	·1032					
18. 15	51. 30	***	***					
18. 33	51. 30	17. 30	·1029					
19. 9	21. 58. 40	18. 5	·1022					
***		18. 45	·1014					
19. 45	22. 0. 35	***	***					
19. 59	21. 58. 30	19. 15	·1020					
20. 10	58. 0	20. 0	·1028					
20. 44	51. 30	20. 30	·1025					
20. 47	53. 20	21. 15	·1022					
21. 4	50. 0	22. 45	1016					
21. 35	46. 30	22. 55	·1000					
21. 45	48. 10	23. 55	·0994					
22. 7	47. 25							
***								
23. 14	52. 55							
23. 59	51. 20							
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 15	21. 56. 25	0. 15	·1004	0. 5	·00982	1. 40	50 ·0	50 ·5
0. 39	57. 30	0. 45	·1000	1. 26	·00858	3. 40	52 ·0	52 ·5
0. 50	21. 57. 10	1. 0	·0998		·00950	9. 40	53 ·5	53 ·5
1. 0	22. 0. 5	1. 20	·0993	2. 15	·00949	21. 40	47 ·0	48 ·5
1. 8	21. 57. 30	2. 17	·1009		***			
1. 10	53. 15	3. 0	·1003	5. 30	·01060			
1. 38	51. 25	3. 30	·0989	19. 25	·00870			
***								

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in 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. 28		Feb. 28		Feb. 28				
h m	° ′ ″	h m		h m		h m	°	°
2. 30	21. 56. 35	4. 0	·0989	0. 4	·00892			
***		4. 25	·0996	11. 0	·00899			
3. 3	55. 55	4. 48	·0993	14. 38	·01170			
***		5. 15	·0980	20. 28	·01731			
3. 40	59. 0	5. 30	·1011	21. 42	·01789			
***		6. 3	·1005	22. 19	·01780			
4. 15	52. 35	7. 35	·0996	22. 58	·01800			
***		8. 30	·1009	23. 44	·01781			
4. 31	53. 30	9. 28	·1005					
4. 43	52. 10	10. 27	·1010					
4. 49	53. 0	11. 0	·1004					
5. 21	35. 20	11. 45	·1026					
6. 15	49. 45	12. 15	·1013					
7. 15	50. 30	12. 40	·1018					
7. 48	43. 35	13. 20	·1008					
***		15. 0	·1012					
8. 18	44. 15	19. 15	·1019					
8. 44	48. 0	21. 0	·1003					
8. 59	48. 30	22. 0	·0994					
9. 21	46. 0	22. 28	·0974					
9. 50	48. 0	23. 0	·0992					
***		23. 59	·0999					
10. 23	46. 10							
***								
11. 32	48. 30							
11. 46	51. 10							
12. 15.	47. 30							
12. 43	49. 25							
13. 0	48. 0							
***								
13. 59	50. 0							
14. 15	48. 55							
***								
18. 21	47. 25							
***								
19. 30	48. 0							
***								
20. 45	54. 0							
21. 15	51. 5							
***								
21. 55	51. 0							
***								
22. 21	55. 0							
22. 31	50. 5							
***								
22. 53	52. 10							
23. 0	50. 30							
23. 20	54. 10							
23. 35	51. 15							
23. 59	51. 35							
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 0	21. 51. 35	0. 0	·1002	0. 7	·01675	1. 40	50 ·5	50 ·5
0. 59	58. 35	1. 0	·0998	1. 44	·01579	3. 40	53 ·5	53 ·5
1. 19	56. 55	1. 25	·1002	3. 15	·01380	9. 40	54 ·0	54 ·0
***		1. 46	·1006	5. 26	·00988	21. 40	48 ·0	49 ·0
1. 44	59. 0	2. 10	·0996		·01040			
		***	***					

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. 1		Mar. 1		Mar. 1				
h m	° ′ ″	h m		h m		h m	°	°
2. 6	21. 51. 0	3. 15	·1005	7. 16	·01007			
2. 15	57. 35	5. 15	·1005	8. 47	·00920			
4. 21	51. 0	5. 30	·1004	10. 9	·00941			
	***	5. 45	·1007	13. 16	·01185			
6. 55	48. 0	6. 15	·0998	14. 25	·01281			
7. 14	49. 0	6. 35	·1003	15. 32	·01439			
7. 30	43. 30	6. 45	·0996	19. 11	·01784			
8. 5	50. 0	7. 15	·1004	19. 15	·01760			
8. 30	47. 10	7. 30	·0996	21. 44	{ ·01769			
9. 0	49. 25	7. 45	·1008		{ ·01640			
	***	8. 30	·1004	22. 30	·01615			
10. 0	47. 0	8. 45	·1006	22. 54	·01572			
10. 30	49. 55	9. 41	·1006	23. 4	·01537			
	***	12. 15	·1013	23. 59	·01440			
11. 53	49. 30		***					
	***	13. 30:	·1023					
12. 51	52. 30	14. 15	·1013					
13. 5	51. 30	14. 36	·1012					
13. 26	53. 40	15. 0:	·1008					
13. 37	51. 25	15. 26	·1017					
	***	16. 0	·1014					
14. 36	49. 5	17. 15	·1014					
15. 1	51. 0		***					
	***	18. 30	·1025					
16. 18	50. 40	19. 22	·1025					
	***	20. 20	·1019					
16. 54	48. 55	21. 0	·1018					
	***		***					
17. 15	50. 30	22. 30	·1008					
17. 59	50. 40	23. 25	·0983					
19. 15	49. 35	23. 59	·0996					
19. 46	50. 30							
20. 1	53. 0							
20. 15	52. 0							
20. 21	53. 0							
	***							
21. 0	50. 15							
22. 15	49. 10							
23. 7	52. 20							
23. 30	51. 35							
23. 59	54. 0							
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
1. 40	21. 54. 42*	1. 40	·1003*	0. 21	·01412	1. 40	53 ·0	53 ·0
3. 40	51. 22*	3. 40	·1006*	2. 33	·01162	3. 40	55 ·0	55 ·0
9. 40	44. 10*	9. 40	·1010*	4. 2	·01008	9. 40	54 ·5	54 ·5
21. 40	48. 18*	21. 40	·1002*	7. 45	·00965	21. 40	47 ·0	47 ·5
				8. 47	·00947			
				10. 20	·00940			
				10. 45	·00920			
				13. 57	·01162			
				14. 31	·01220			
				18. 13	·00748			
				18. 15	·00719			
				19. 31	{ ·01718			
					{ ·01600			
				20. 49	·01660			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
				Mar. 2				
h m	° ′ ″	h m		h m		h m	°	°
				23. 1	·01678			
				23. 59	·01625			
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 34	21. 52. 35	0. 30	·1000	1. 32	·01502	1. 40	51 ·0	51 ·0
	***	1. 50	·1003	4. 15	·01241	3. 40	53 ·0	53 ·0
1. 14	54. 0	2. 15	·1006	6. 9:	·00950	9. 40	52 ·5	53 ·0
2. 55	53. 0	3. 46	·1004	7. 15	·00902	23. 3	44 ·0	44 ·0
3. 25	51. 10	4. 10	·1012	9. 8	·00855			
4. 15	51. 0	4. 30	·1006	11. 7	·00984			
5. 45	48. 5	5. 0	·1008	15. 30	·01392			
	***	5. 45	·1004	17. 46	{ ·01688			
9. 44	47. 15	7. 0	·1006		{ ·01630			
	***	7. 30	·1010	20. 15	·01679			
11. 22	47. 0	9. 36	·1009	21. 52	·01658			
11. 46	45. 0	10. 30	·1014	23. 26	·01690			
	***	12. 30	·1015					
13. 23	49. 30	13. 35	·1020					
13. 55	47. 0	14. 20	·1017					
14. 16	50. 30		***					
	***	15. 50	·1018					
15. 14	47. 30	16. 20	·1022					
15. 44	50. 25	17. 0	·1020					
	***	19. 0	·1022					
16. 36	47. 30	21. 0	·1020					
	***	23. 17	·1008					
18. 0	49. 30							
	***							
21. 0	48. 0							
	***							
23. 25	50. 30							
	***							
23. 59	53. 30							
	***							
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 34	21. 55. 55	0. 0	·1010	0. 0	·01575	11. 6	49 ·0	50 ·0
	***	1. 10	·1008	3. 16:	·01359	21. 40	45 ·0	45 ·0
1. 17	56. 35	1. 28	·1006	6. 26	·00863			
2. 0:	59. 10	2. 15	·1012	6. 30	·00901			
3. 10:	53. 55	2. 55	·1001	9. 41	·00828			
4. 0	53. 0	4. 5	·1018	14. 30	·00911			
	***	4. 45	·1012	21. 46	{ ·01540			
6. 10	48. 0	5. 0	·1013		{ ·01280			
	***	5. 30	·1014	23. 59	·01359			
7. 25	48. 0	6. 15	·1011					
7. 45	43. 45	6. 30	·1014					
	***	7. 30	·1013					
8. 16	42. 0	7. 40	·1006					
8. 44	43. 55	8. 15	·1016					
9. 5	43. 15	8. 30	·1023					
10. 14	46. 25	9. 0	·1008					
10. 47	45. 5	9. 55	·1010					
11. 10	46. 45	10. 30	·1008					
	***	11. 0	·1014					
15. 21	48. 35	16. 0	·1024					
	***	16. 46	·1028					
		17. 30	·1025					

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

March 2. The Photographic Trace for the Horizontal Force Magnet was too faint for use. There was no discoverable trace for the Declination Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 4		Mar. 4						
h m	° ′ ″	h m		h m		h m	°	°
19. 30	21 48. 30	19. 15	·1026					
	***	20. 30	·1024					
20. 59	46. 0	21. 0	·1021					
21. 22	49. 5	21. 45	·1018					
22. 16	47. 20	22. 30	·1010					
	***		(†)					
23. 50	52. 20							
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 0	21. 52. 15	0. 30	·1005	0. 30	·01340	1. 40	48 ·0	49 ·0
0. 59	53. 40	1. 15	·1006	1. 45	·01268	3. 40	51 ·5	52 ·0
1. 34	55. 5	1. 30	·1008	3. 33	·00979	9. 40	52 ·5	52 ·5
2. 37	53. 15	3. 0	·1009	4. 32	·00972	21. 40	45 ·0	46 ·5
2. 53	54. 10	3. 45	·1008	7. 29	·00960			
4. 30	51. 30	5. 0	·1010	8. 16	·00920			
	***	7. 0	·1011	10. 55	·00959			
6. 3	50. 35	8. 30	·1013	13. 34	·01128			
7. 15	48. 30	9. 0	·1011	19. 24	·01740			
	***	12. 0	·1008	19. 28	·01706			
9. 15	48. 0	12. 15	·1012	20. 46	·01704			
	***	12. 36	·1020	22. 57	·01682			
9. 45	44. 20	12. 50	·1014	23. 59	·01700			
10. 25	46. 10	14. 40	·1012					
	***	15. 10	·1014					
11. 45	46. 5	15. 40	·1021					
12. 9:	47. 0	15. 48	·1016					
12. 32	44. 5	16. 45	·1018					
13. 3	47. 55	19. 0	·1026					
	***	20. 30	·1020					
14. 20	47. 30	21. 15	·1018					
15. 15	50. 0	23. 30	·1002					
	***	23. 59	·0997					
16. 15	46. 15							
	***							
16. 57	47. 40							
18. 36	46. 35							
19. 38	45. 0							
	***							
21. 7	45. 10							
21. 15	48. 10							
22. 0	48. 0							
	***							
23. 5	50. 0							
23. 41	53. 0							
23. 59	53. 20							
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 0	21. 53. 25	0. 55	·1008	1. 5	·01680	1. 40	48 ·0	49 ·0
0. 46	52. 30	2. 55	·1014	3. 11	·01370	3. 40	52 ·0	52 ·5
1. 14:	53. 20	4. 0:	·1006	4. 47	·01018	9. 40	53 ·0	53 ·5
1. 47	51. 25	4. 50	·1013	4. 51	·01040	21. 40	44 ·0	44 ·5
	***	7. 47	·1008	7. 6	{·01029			
2. 31	51. 55	8. 0	·1012		{·01120			
2. 56	52. 55		***	7. 32	·01091			
3. 15	52. 0	9. 30	·1005	8. 21	·00900			
3. 31	52. 35	11. 20	·1013	12. 11	·01281			
4. 40	50. 0	13. 0	·1012	16. 33	·01759			
5. 25	50. 15	13. 30	·1014	16. 41	·01720			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		Mar. 6				
h m	° ′ ″	h m		h m		h m	°	°
5. 45	21. 51. 0	14. 0	·1012	23. 16	·01704			
6. 45	48. 10	15. 30	·1020	23. 59	·01726			
7. 25	44. 15	16. 0	·1024					
8. 39	48. 30	17. 0	·1028					
8. 49	46. 30	18. 0	·1030					
9. 48	47. 25	18. 30	·1032					
	***	19. 0	·1037					
10. 21	45. 5	19. 32	·1032					
	***	20. 0	·1036					
11. 15	46. 30		***					
	***	21. 45	·1022					
12. 14	46. 10	22. 30	·1019					
14. 47	47. 30	23. 0	·1010					
	***	23. 15	·1004					
17 14	47. 25	23. 59	·1001					
17. 25	45. 40							
20. 36	45. 55							
20. 44	49. 0							
20. 53	46. 5							
	***							
21. 31	48. 0							
21. 45	44. 10							
21. 49	47. 30							
	***							
23. 3	48. 30							
23. 59:	53. 50							
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 16	21. 51. 35	0. 19	·1010	0. 16	·01684	1. 40	47 ·0	47 ·0
3. 51	51. 0	3. 0	·1015	1. 30	·01663	3. 40	50 ·0	50 ·0
4. 48	50. 0	6. 0	·1016	3. 50	·01368	9. 40	51 ·0	51 ·0
6. 6	50. 0	7. 0:	·1013	6. 4	·00900	21. 40	41 ·5	42 ·5
	***	9. 0	·1020	6. 9	·00920			
9. 8	46. 0	11. 33	·1021	7. 20	·00944			
9. 45	48. 0	12. 0	·1026	9. 46	·00848			
	***	12. 15	·1022	11. 4	·00886			
11. 30	46. 0	13. 0	·1020	14. 6	·01190			
	***	16. 20	·1025	17. 20	{·01698			
12. 5	48. 35	18. 45	·1034		{·01638			
12. 25	45. 45	19. 30	·1036	23. 45	·01657			
12. 31	47. 15	20. 0	·1032					
	***	21. 23	·1026					
13. 0	46. 0	22. 0	·1020					
	***	22. 55	·1021					
13. 15	47. 25	23. 40	·1018					
	***							
14. 35	45. 25							
	***							
15. 30	47. 45							
	***							
17. 16	45. 0							
	***							
18. 51	46. 20							
	***							
20. 44	46. 0							
20. 55	48. 10							
21. 2	46. 35							
21. 14	48. 30							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7								
h m	° ′ ″	h m		h m		h m	°	°
22. 27	21. 47. 15							
23. 30	50. 0							
23. 51	49. 30							
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 0	21. 50. 25	0. 0	·1020	0. 0	·01631	1. 40	46 ·0	47 ·0
0. 54	53. 30	0. 30	·1016	0. 58	·01620	3. 40	49 ·0	50 ·5
1. 55	54. 30	1. 45	·1013	2. 1:	·01518	9. 40	51 ·0	52 ·0
	***	2. 0	·1010	4. 57	·00919	21. 40	40 ·0	40 ·5
2. 53	52. 55	2. 45	·1016	4. 59	·00963			
3. 0	53. 30	3. 15	·1017	7. 25	·00926			
	***	4. 35	·1015	8. 12	·00888			
5. 23	51. 0	5. 20	·1018	9. 11	·00825			
	***	5. 45	·1022		·00980			
6. 53	50. 35	6. 15	·1020	10. 39	·01031			
7. 5	49. 10	6. 30	·1018	13. 20	·01289			
	***	6. 45	·1016	16. 7	·01689			
7. 36:	48. 30	7. 30	·1014		·01630			
	***	8. 0	·1018	22. 29	·01612			
8. 16	42. 0	8. 30	·1021	23. 50	·01598			
	***	9. 45	·1020					
8. 51	47. 25	11. 0	·1022					
	***	11. 30	·1024					
9. 49	48. 0	13. 15	·1030					
	***	13. 30	·1032					
10. 15	46. 10	13. 50	·1030					
10. 30	47. 35	14. 15	·1038					
	***	14. 45	·1037					
13. 23	46. 0	15. 15	·1034					
13. 31	47. 35	16. 0	·1038					
13. 53	45. 0	17. 32	·1040					
	***	18. 45	·1042					
14. 15	45. 40	19. 30	·1044					
	***	20. 0	·1048					
15. 8	43. 30	20. 30	·1042					
	***	21. 0	·1038					
16. 2	44. 55	22. 0	·1033					
	***	23. 30	·1022					
16. 25	47. 35	23. 36	·1026					
	***							
18. 0	44. 0							
	***							
18. 35	46. 30							
	***							
19. 17	46. 30							
	***							
19. 52	43. 0							
	***							
21. 55	48. 10							
22. 15	47. 0							
23. 14	44. 0							
23. 39	51. 0							
23. 59	51. 15							
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 0	21. 51. 15	0. 0	·1010	0. 0	·01597	1. 40	44 ·0	45 ·0
0. 10	50. 0	1. 15	·1018	1. 12	·01548	3. 40	48 ·5	48 ·5
	***	1. 30	·1012	3. 15	·01242	9. 40	49 ·0	49 ·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.
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 25	21. 54. 0	1. 45	·1014	5. 17	·00884	21. 40	42 ·0	43 ·0
0. 37	52. 25	1. 50	·1010	5. 25	·00908			
	***	2. 39	·1017	6. 43	·00965			
1. 0	53. 30	2. 45	·1012		***			
1. 21	55. 35	3. 10	·1007	11. 0	·00775			
	***	3. 30	·1012	14. 0	·00958			
1. 51	53. 40	3. 48	·1016	18. 30	·01314			
	***	4. 46	·1006	21. 12	·01534			
2. 46	57. 30	5. 10	·1009	23. 0	·01658			
2. 55	59. 10	5. 46	·0998		·01575			
3. 6	57. 35	6. 10	·1012	23. 45	·01631			
	***	6. 29	·1001					
3. 19	21. 58. 0	6. 50	·1050					
3. 31	22. 1. 20	7. 16	·1022					
3. 45	21. 59. 35	7. 30	·1012					
	***	7. 42	·1006					
4. 37	22. 1. 15	7. 55	·1018					
5. 32	22. 0. 30	8. 10	·1011					
5. 55	21. 55. 30	9. 0	·1017					
6. 15	55. 10	9. 20	·1005					
6. 45	54. 15	9. 35	·1010					
7. 0	47. 0	10. 0	·1018					
7. 14	45. 0	10. 10	·1044					
7. 29	54. 0	10. 32	·1024					
7. 45	49. 30	10. 40	·1028					
7. 59	51. 0	11. 0	·1014					
8. 16	48. 5	11. 30	·1000					
	***	11. 45	·1012					
9. 11	46. 25	15. 5	·1023					
9. 40	43. 0	15. 54:	·1013					
10. 0	29. 0	17. 15:	·1029					
	***	18. 30	·1017					
10. 38	37. 0	19. 30	·1024					
	***	20. 0	·1029					
11. 16	36. 35	21. 30	·1022					
11. 46	42. 0	22. 20	·1013					
	***	22. 55	·1014					
12. 27	44. 0	23. 59	·1028					
	***							
12. 56	42. 30							
	***							
13. 15	43. 20							
	***							
13. 36	40. 40							
	***							
14. 37	49. 35							
14. 51	49. 0							
	***							
15. 46	49. 5							
16. 4	52. 35							
	***							
18. 23	48. 35							
19. 0	47. 15							
19. 44	46. 55							
	***							
20. 50	47. 0							
	***							
21. 15	48. 50							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 9								
h m	° ′ ″	h m		h m		h m	°	°
22. 20	21. 47. 0							
	***							
22. 48	49. 35							
23. 15	49. 25							
23. 59	50. 30							
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
0. 0	21. 50. 30	0. 18	·1012	0. 16	·01598	1. 40	44 ·0	45 ·0
0. 30	50. 0	1. 45	·1015	3. 30	·01450	3. 40	47 ·5	46 ·0
1. 45	53. 0	2. 45	·1020	6. 35	·01230	9. 40	45 ·0	45 ·0
4. 0	43. 15	3. 45	·1025	8. 0	·01198	23. 35	38 ·5	39 ·0
4. 13	52. 10	4. 2	·1032	9. 55	·01237			
5. 5	51. 20	4. 14	·1025	10. 17	·01233			
6. 15	50. 0	4. 52	·1032	14. 12	{·01620			
6. 35	46. 25	5. 5	·1024		{·01570			
7. 6	46. 0	5. 30	·1028	18. 0	·01572			
	***	6. 23	·1033	22. 30	·01536			
7. 55	48. 0	6. 30	·1028	23. 59	·01558			
8. 5	46. 5	7. 0	·1036					
	***	7. 40	·1036					
8. 25	47. 20	8. 0	·1026					
	***	9. 0	·1024					
9. 15	46. 0	9. 15	·1026					
9. 44	37. 30	9. 31	·1024					
	***	9. 50	·1052					
10. 15	46. 0	10. 45	·1038					
10. 21	45. 10	11. 30	·1032					
10. 35	47. 30	14. 30	·1034					
	***	16. 30:	·1044					
11. 26	48. 5	20. 30	·1040					
	***	21. 0	·1038					
12. 0	46. 0	22. 16	·1032					
	***	23. 30	·1040					
13. 0	47. 30	23. 59	·1031					
	***							
17. 0	47. 30							
18. 0	45. 50							
18. 15	48. 5							
18. 30	46. 30							
18. 52	46. 25							
19. 15	48. 35							
19. 55	50. 0							
	***							
21. 15	48. 0							
22. 20	48. 0							
23. 20	51. 0							
23. 30	50. 30							
23. 40	52. 25							
23. 59	52. 35							
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 0	21. 52. 30	0. 20	·1030	0. 15	·01560	10. 30	41 ·0	42 ·0
	***	4. 30	·1037	3. 0	·01470	21. 40	40 ·0	41 ·0
0. 25	52. 30	5. 0	·1034	4. 32	·01367			
0. 51	53. 55	5. 30	·1038	7. 15	·01240			
1. 8	53. 25	6. 0	·1034	9. 44	·01242			
1. 28	54. 30	7. 0	·1038	12. 0	·01299			
3. 28	53. 30	7. 15	·1034	16. 32	{·01400			
	***	7. 42	·1042		{·01280			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 11		Mar. 11		Mar. 11				
h m	° ′ ″	h m		h m		h m	°	°
8. 53	21. 47. 20	8. 5	·1034	18. 45	·01287			
	***	8. 45	·1042	20. 46	·01223			
9. 38	47. 30	9. 8	·1036	23. 59	·00930			
10. 19	45. 35	10. 0	·1038					
	***	11. 0	·1040					
11. 48	47. 30	12. 30	·1038					
12. 22	46. 30	13. 30	·1040					
	***	17. 0	·1046					
14. 31	48. 0	18. 0	·1048					
	***	19. 30	·1046					
15. 32	46. 20	21. 0	·1044					
	***	22. 29	·1036					
16. 31	47. 30	23. 40	·1040					
	***	23. 50	·1036					
18. 15	45. 0	23. 59	·1040					
	***							
19. 14	48. 50							
19. 38	45. 0							
	***							
20. 15	49. 55							
	***							
21. 14	49. 25							
	***							
22. 15	50. 30							
22. 31	52. 55							
22. 53	52. 0							
23. 14	56. 0							
23. 19	53. 30							
23. 24	55. 5							
23. 53	54. 30							
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 0	21. 56. 0	0. 34	·1047	0. 32	·00838	1. 40	45 ·0	46 ·0
0. 5	55. 0	0. 45	·1040	1. 30	·00702	3. 40	48 ·0	48 ·5
0. 20	57. 50	1. 8	·1044	2. 45	·00837	9. 40	50 ·0	49 ·0
0. 30	57. 35	1. 13	·1036	4. 30	·00948	21. 40	44 ·5	45 ·5
	***	1. 20	·1043	7. 0	·00987			
0. 46	21. 56. 35	1. 47	·1030	7. 30	·00980			
1. 4	22. 0. 0	1. 53	·1032	9. 3	·00867			
1. 13	21. 59. 0	2. 27	·1038	9. 40	·00830			
1. 15	59. 55	2. 30	·1048	10. 15	·00840			
1. 29	21. 56. 35	2. 37	·1030	11. 0	·00708			
	***	2. 45	·1010	11. 16	·00792			
2. 30	22. 8. 0	3. 0	·1030	11. 58	·00676			
2. 41	21. 57. 30	3. 15	·1033		***			
2. 46	59. 25	3. 30	·1024	12. 36	·00734			
	***	3. 45	·1031	12. 48	·00734			
3. 26	21. 57. 0	4. 0	·1016	13. 0	·00750			
3. 45	22. 1. 20	4. 26	·1027	14. 5	·00734			
	***	4. 45	·1011	14. 31	·00808			
4. 2	21. 59. 0	5. 0	·1012	14. 44	·00768			
4. 15	22. 0. 50	5. 15	·1008	15. 0	·00858			
4. 21	21. 58. 20	5. 33	·1002	15. 15	·00857			
4. 30	50. 35	5. 45	·1000	16. 0	·00958			
	***	6. 0	·1010	16. 46	·01002			
4. 53	21. 59. 35	6. 30	·1014	18. 0	·01038			
5. 6	22. 1. 0	7. 0	·1010	19. 15	·01184			
6. 15	21. 50. 20	7. 30	·1008	21. 30	·01328			
	***	8. 0	·1016	23. 10	·01407			

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				
h m	° ′ ″	h m		h m		h m	°	°
7. 20	21. 53. 30	8. 12	·1011	23. 59	·01424			
	***	8. 15	·1016					
7. 36	47. 0	8. 45	·0996					
	***	9. 0	·0998					
7. 55	45. 30	9. 10	·1016					
	***	9. 20	·1008					
8. 5	40. 0	9. 30	·0994					
	***	9. 42	·0986					
8. 15	48. 30	10. 20	·0989					
	***	10. 30	·1035					
8. 17	43. 30	11. 0	·0969					
	***	11. 30	·0986					
8. 30	51. 10	12. 0	·1001					
	***	12. 15	·0973					
8. 45	51. 0	12. 30	·0964					
	***	12. 45	·0967					
9. 8	42. 20	13. 0	·0955					
9. 20	45. 0	13. 8	·0964					
9. 27	42. 0	13. 30	·0994					
9. 45	44. 0	13. 45	·0990					
10. 5	38. 0	14. 15	·0982					
	***	14. 30	·0978					
10. 22	42. 15	14. 45	·0988					
10. 30	37. 20	15. 0	·0992					
	***	15. 15	·0998					
10. 54	50. 0	15. 30	·0992					
11. 45	13. 0	15. 45	·0986					
12. 0	22. 30	16. 30	·1003					
12. 25	12. 0	17. 0	·1012					
12. 55	26. 0	17. 30	·1018					
13. 4	24. 35	17. 50	·1030					
13. 19	27. 35	18. 30	·1014					
	***	18. 45	·1009					
13. 39	26. 25	19. 15	·1011					
	***	20. 0	·1006					
14. 25	30. 35	20. 45	·1010					
	***		***					
15. 17	41. 30	23. 59	·1004					
15. 31	41. 35							
16. 3	47. 0							
16. 30	48. 5							
16. 44	45. 0							
17. 0	45. 30							
17. 43	52. 35							
18. 55	48. 55							
	***							
20. 0	46. 25							
	***							
21. 8	47. 25							
	***							
21. 30	50. 30							
22. 3	49. 30							
	***							
22. 46	52. 20							
	***							
23. 59	52. 30							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 52. 30	0. 0	·1004	0. 30	·01430	1. 40	50 ·0	52 ·0
0. 8	53. 0		***	3. 0	·01212	3. 40	50 ·0	50 ·5
0. 15	51. 40	0. 30	·1012		·00946	9. 40	51 ·0	52 ·0
0. 21	54. 0	1. 0	·1002	4. 59	·01020	21. 40	45 ·0	46 ·5
0. 45	53. 30	1. 30	·1006	7. 0	·00957			
1. 55	54. 0	2. 30	·1010	10. 5	·00923			
2. 18	53. 0	3. 0	·1008	12. 35	·00961			
4. 7	51. 25	5. 15	·1008	14. 20	·01400			
5. 32	52. 30	5. 30	·1006	16. 0	·01177			
	***	6. 15	·1003	19. 0	·01454			
6. 0	49. 0	6. 30	·1023	21. 30	·01658			
6. 19	43. 0	6. 45	·1028	23. 59	·01770			
6. 30	43. 0	7. 0	·1002					
6. 36	46. 55	7. 5	·1002					
6. 51	48. 0	7. 20	·1021					
7. 14	37. 5	7. 30	·1012					
7. 21	41. 0	7. 41	·1020					
7. 31	38. 0	8. 0	·1006					
7. 50	42. 0	8. 7	·1010					
8. 2	41. 30	8. 30	·1001					
8. 14	46. 0	10. 30	·1007					
8. 25	44. 0	11. 30	·1014					
8. 36	44. 30	13. 30	·1012					
	***	15. 0	·1008					
9. 10	44. 0	16. 0	·1012					
9. 30	46. 0	17. 0	·1014					
9. 46	45. 0	17. 35	·1022					
9. 54	46. 10	18. 30	·1011					
10. 4	44. 55	19. 0	·1014					
	***	20. 0	·1018					
10. 30	46. 40	21. 30	·1017					
11. 0	45. 15	23. 0	·1012					
11. 16	46. 35	23. 59	·1016					
11. 36	43. 40							
11. 51	44. 35							
12. 4	41. 10							
	***							
12. 5	40. 0							
13. 15	44. 0							
13. 39	44. 35							
14. 2	49. 0							
14. 30:	45. 10							
	***							
15. 59	49. 0							
16. 26	47. 15							
16. 51	48. 30							
17. 59	49. 30							
18. 26	47. 55							
19. 12	47. 0							
	***							
20. 46	48. 0							
21. 20	52. 25							
	***							
22. 19	51. 10							
	***							
23. 44	54. 30							
23. 52	53. 40							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 14	° ′ ″	Mar. 14		Mar. 14		Mar. 14	°	°
h m		h m		h m		h m		
0. 8	21. 53. 20	0. 0	·1016	0. 15	·01768	1. 40	48 ·0	49 ·0
0. 55	54. 15	2. 30	·1019	3. 30	·01537	3. 40	50 ·0	50 ·5
3. 5	52. 0	4. 0	·1018	7. 59	·01099	9. 40	50 ·0	50 ·5
3. 31	50. 0	4. 45	·1013		·01245	21. 40	44 ·5	45 ·3
3. 44	50. 40	8. 30	·1016	9. 45	·01200			
4. 4	50. 15	10. 15	·1018	14. 15	·01378			
4. 18	49. 0	10. 30	·1036	18. 0	·01668			
4. 32	49. 35	10. 45	·1032	19. 58	·01798			
	***	12. 0	·1018		·01665			
7. 0	45. 0	14. 0	·1014	22. 15	·01720			
	***	16. 30	·1022	23. 45	·01738			
8. 24	44. 55	17. 0	·1020					
	***	18. 2	·1022					
8. 56	46. 0	18. 30	·1026					
9. 14	49. 5	22. 0	·1014					
9. 23	46. 0	23. 59	·1018					
9. 48	47. 0							
10. 6	45. 55							
10. 18	46. 25							
10. 30	41. 55							
10. 43	44. 35							
10. 59	43. 30							
	***							
11. 39	45. 25							
	***							
12. 27	43. 5							
12. 45	45. 0							
13. 5	44. 0							
13. 29	46. 20							
13. 45	44. 55							
14. 16	47. 40							
	***							
15. 1	45. 40							
	***							
15. 46:	48. 0							
16. 37	45. 55							
16. 57	49. 25							
17. 15	47. 55							
18. 12	48. 55							
	***							
19. 31	47. 40							
19. 52	49. 30							
	***							
21. 40	48. 0							
	***							
23. 59	53. 35							
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0. 0	21. 53. 40	0. 0	·1020	0. 15	·01718	1. 40	49 ·5	49 ·5
0. 51	58. 0	1. 30	·1012	4. 30	·01138	3. 40	51 ·0	51 ·5
2. 5	57. 5	2. 0	·1009	5. 40	·00978	9. 40	52 ·5	53 ·0
2. 28	58. 25	2. 20	·1012		·01094	21. 40	45 ·0	45 ·0
3. 45	55. 20	3. 15	·1001	9. 12	·01148			
4. 17	55. 25	3. 45	·1006	11. 45	·01237			
4. 40	53. 15	4. 15	·1008	17. 15	·01523			
6. 5	50. 30	4. 35	·1004	19. 16	·01527			
	***	8. 15	·1011	21. 35	·01568			
8. 56	45. 10	9. 0	·1016	23. 59	·01507			
	***	9. 30	·1013					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected or Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet
Mar. 15	° ′ ″	Mar. 15						
h m		h m		h m		h m	°	°
10. 4	21. 48. 15	12. 0	·1020					
	***	15. 30	·1028					
11. 0	46. 10	16. 0	·1022					
	***	16. 30	·1018					
12. 10	47. 30	17. 0	·1020					
	***	18. 0	·1028					
13. 45	47. 0	19. 0	·1026					
	***	21. 30	·1013					
14. 0	49. 20	22. 0	·1012					
	***	22. 45	·0996					
14. 49	50. 10	23. 35	·0992					
	***							
15. 51	45. 55							
16. 31	44. 35							
16. 55	47. 30							
	***							
17. 30	46. 0							
	***							
17. 45	47. 0							
17. 55	45. 10							
18. 4	46. 0							
	***							
18. 40	44. 35							
18. 59	45. 20							
	***							
19. 32	44. 15							
	***							
20. 40	55. 0							
21. 15	49. 5							
	***							
21. 58	50. 0							
22. 46	55. 0							
23. 35	55. 35							
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 30	21. 55. 30	0. 30	·1002	0. 30	·01417	1. 40	56 ·5	56 ·5
0. 48	56. 0	1. 15	·1010	2. 16	·01230	3. 40	56 ·0	56 ·5
3. 51	51. 0	2. 30	·1008	3. 32	·01037	9. 40	57 ·5	57 ·5
5. 15	51. 0	3. 30	·1006		·01154	21. 40	49 ·0	50 ·0
6. 1	49. 30	4. 15	·1002	5. 43	·01078			
	***	4. 30	·1006	5. 47	·01120			
8. 16	45. 0	5. 0	·1002	6. 2	·01120			
10. 0	45. 0	5. 30	·0998	6. 46	·01167			
10. 22	41. 30	6. 0	·0999	9. 50	·01510			
10. 55	41. 30	7. 15	·1002	11. 15	·01654			
11. 45	47. 0	8. 0	·0998	12. 55	·01822			
	***	8. 15	·0996	17. 10	·01754			
14. 32	49. 0	9. 0	·1002	19. 43	·01788			
	***	9. 45	·1008	22. 45	·01578			
17. 10	48. 30	10. 15	·1014	23. 59	·01484			
	***	10. 30	·1016					
19. 27	47. 0	11. 40	·1022					
20. 28	48. 0	12. 30	·1010					
21. 55	47. 0	13. 0	·1014					
23. 59	51. 40	14. 30	·1018					
		15. 30	·1022					
		17. 30	·1025					
		20. 0	·1026					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 16 h m		h m		h m	°	°
		21. 0	·1024					
		21. 30	·1022					
		23. 0	·1012					
		23. 33	·1011					
		23. 59	·1012					
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 0	21. 51. 35	0. 15	·1027	0. 0	·01458	1. 40	51 ·0	51 ·0
1. 16	57. 10	1. 0	·1031	1. 30	·01372	3. 40	52 ·6	53 ·0
1. 44	21. 55. 45	1. 30	·1026	5. 45	·01112	9. 40	52 ·0	53 ·0
2. 13	22. 0. 0	1. 45	·1024	8. 15	·01126	23. 10	46 ·0	47 ·0
2. 17	21. 56. 0	2. 45	·1030		***			
2. 28	57. 55	3. 0	·1028	8. 47	·01140			
	***	4. 0	·1032	9. 45:	·01058			
5. 4	54. 35	4. 15	·1037	11. 0	·01072			
	***	4. 30	·1044	12. 33	·01097			
6. 29	55. 0	4. 37	·1051	12. 47	·01080			
	***	5. 0	·1038	14. 5	·01190			
7. 6	52. 20	5. 15	·1034	14. 30	·01185			
7. 18	55. 0	6. 15	·1033	16. 40	·01480			
	***	6. 45	·1040	17. 47	·01540			
7. 45	54. 0	6. 50	·1029	17. 52	·01442			
8. 16	26. 30	7. 0	·1042	18. 45	·01528			
8. 52	48. 40	7. 30	·1022	21. 55	·01630			
	***	7. 45	·1028	23. 22	·01610			
9. 16	49. 0	8. 7	·1012					
9. 30	44. 0	8. 27	·1031					
	***		***					
10. 0	44. 0	8. 48	·1013					
	***	9. 0	·1031					
10. 38	46. 5	9. 15	·1018					
10. 53	44. 25	9. 30	·1023					
11. 14	46. 35	9. 45	·1018					
12. 8	47. 5	10. 0	·1013					
12. 25	45. 0	10. 45	·1028					
12. 38	47. 5	11. 0	·1034					
13. 3	40. 30	11. 30	·1028					
13. 44	47. 0	12. 45	·1050					
13. 54	46. 0	13. 0	·1040					
14. 15	59. 0	13. 30	·1028					
15. 6	45. 0	14. 30	·1038					
	***	15. 0	·1034					
16. 14	46. 0	15. 30	·1038					
16. 20	43. 30	15. 45	·1032					
16. 35	43. 0	16. 30	·1046					
17. 15	55. 10	17. 0	·1036					
	***	19. 0	·1038					
18. 0	47. 25	19. 15	·1032					
	***		***					
18. 45	48. 40	20. 45	·1040					
19. 0	46. 30	21. 30	·1031					
19. 22	46. 0	21. 45	·1026					
	***	22. 0	·1018					
20. 25	47. 20	22. 45	·1022					
20. 49	45. 30	23. 30	·1032					
	***	23. 59	·1016					
21. 51	53. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 17 h m	° ′ ″	h m		h m		h m	°	°
23. 30	21. 52. 20							
Mar. 18		Mar. 18		Mar. 18		Mar. 18		
0. 0	21. 52. 35	0. 0	·1016	0. 0	·01338	9. 30	50 ·0	51 ·0
0. 7	51. 30	0. 15	·1022	3. 30	·01147	21. 40	46 ·0	46 ·0
0. 24	55. 0	1. 0	·1032	7. 12	·00835			
0. 48	53. 25	1. 45	·1030	7. 30	·00847			
1. 15	55. 0	2. 30	·1024	11. 0	·00700			
	***	3. 0	·1016	12. 30	·00514			
3. 5	55. 0	3. 45	·1010	15. 30	·00640			
	***	4. 0	·1016	16. 5	·00641			
5. 15	50. 10	4. 30	·1020	20. 0	·01047			
6. 43	49. 10	6. 0	·1024	23. 15	·01252			
7. 26	17. 20	6. 30	·1028	23. 59	·01112			
7. 58:	37. 0	6. 45	·1022					
9. 6	43. 30	7. 0	·1002					
	***	7. 15	·1004					
11. 49	46. 25	7. 35	·1058					
12. 15:	44. 15	8. 25	·1018					
12. 35	46. 0	9. 0	·1014					
13. 31	47. 0	9. 30	·1020					
13. 52	44. 0	10. 0	·1014					
14. 15	43. 30	10. 30	·1022					
	***	11. 50	·1026					
15. 20	48. 30	12. 13	·1056					
15. 41	56. 0	12. 40	·1035					
15. 55	57. 30	14. 0	·1020					
16. 11	54. 35	14. 20	·1021					
16. 27	54. 40	14. 42	·1023					
17. 36	44. 5	14. 50	·1019					
18. 15	47. 0	15. 35	·1016					
	***	15. 45	·1010					
18. 43	45. 30	16. 0	·1016					
	(†)	16. 45	·1030					
20. 30	46. 30	17. 20	·1029					
	***	17. 30	·1026					
22. 0	49. 35	18. 30	·1032					
22. 21	48. 40	19. 0	·1026					
	***	19. 30	·1030					
23. 15	52. 30	20. 15	·1028					
23. 29	51. 55	20. 30	·1030					
	***	21. 0	·1025					
23. 59	53. 35	22. 0	·1020					
		22. 30	·1024					
		23. 0	·1012					
		23. 30	·1002					
		23. 59	·1007					
Mar. 19		Mar. 19		Mar. 19		Mar. 19		
0. 0	21. 53. 40	0. 55	·1015	0. 33	·01302	1. 40	50 ·0	50 ·0
	***	2. 6	·1014	2. 0:	·01198	3. 40	52 ·5	53 ·0
1. 44	57. 0	2. 32	·1022	3. 56	·00927	9. 40	56 ·0	55 ·5
2. 6	55. 35	3. 0	·1010		·01045	21. 40	48 ·5	49 ·0
2. 31	57. 0	3. 30	·1022	4. 57	·00992			
2. 44	55. 30	4. 30	·1018	7. 15	·01074			
3. 0	55. 30	4. 58	·1015	12. 20	·00817			
3. 21	51. 35	5. 5	·1028	17. 15	·01138			
3. 32	53. 25	5. 30	·1014	21. 0	·01518			

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. 19		Mar. 19		Mar. 19				
h m	° ′ ″	h m		h m		h m	°	°
4. 21	21. 54. 20	5. 45	·1016	23. 44	·01798			
5. 22	51. 25	6. 15	·1002					
5. 50	48. 30	6. 50	·0996					
6. 4	49. 30	7. 12	·1018					
6. 31	44. 0	8. 0	·1022					
6. 44	44. 40	9. 5	·1018					
7. 2	39. 30	9. 30	·1020					
7. 37	46. 0	10. 0	·1049					
8. 16	48. 30	10. 12	·1046					
	***	10. 40	·1024					
9. 5	48. 30		***					
	***	12. 0	·1019					
9. 59	44. 25	12. 25	·1010					
10. 9	40. 0	12. 35	·1054					
10. 30	44. 10	13. 0	·1026					
	***	14. 0	·1020					
11. 30	46. 15	14. 30	·1018					
	***	15. 10	·1024					
11. 50	44. 0	16. 30	·1026					
	***	17. 0	·1028					
12. 15	46. 0	17. 50	·1022					
12. 29	29. 10	18. 30	·1030					
12. 49	47. 35	20. 0	·1014					
13. 1	44. 55	21. 0	·1018					
13. 25	43. 30	22. 15	·1007					
14. 21	46. 30		***					
	***	23. 30	·1002					
14. 41	45. 0							
15. 36	49. 25							
	***							
18. 10	50. 55							
18. 21	52. 10							
19. 42	46. 20							
20. 32	51. 25							
21. 8	49. 0							
21. 16	50. 0							
21. 45	48. 0							
22. 35	51. 0							
23. 3	50. 0							
23. 14	52. 30							
23. 59	52. 35							
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 0	21. 52. 35	0. 0	·1002	1. 20	·01662	1. 40	52 ·0	53 ·0
	***	0. 30	·1008	4. 30	·01207	3. 40	54 ·5	55 ·5
0. 20	51. 50	1. 0	·1010	5. 32	·01011	9. 40	55 ·5	55 ·5
	***	2. 15	·1007		·01064	22. 48	47 ·0	48 ·0
2. 20	56. 0	3. 25	·1007	6. 55	·01066			
	***	3. 40	·1015	7. 45	·01000			
5. 26	52. 10	4. 0	·1006	10. 8	·01086			
5. 49	48. 30	4. 15	·1010	14. 18	·01460			
6. 27	47. 30		***	16. 44	·01800			
	***	5. 15	·1003		·01746			
7. 11	48. 0		***	19. 32	·01760			
	***	5. 45	·0992	20. 47	·01748			
8. 30	45. 30	6. 0	·1002	23. 14	·01687			
	***	6. 40	·0998					
11. 0	48. 0	6. 55	·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.	Readings of Thermometers. Of V. F. Magnet.
Mar. 20		Mar. 20						
h m	° ′ ″	h m		h m		h m	°	°
15. 18	21. 48. 0	7. 15	·1004					
15. 48	49. 0	7. 40	·1007					
16. 50	46. 45	7. 57	·1021					
17. 15	48. 0	8. 30	·1010					
18. 1	46. 15	9. 45	·1014					
18. 33	49. 30	11. 30	·1013					
18. 48	39. 0	14. 0	·1016					
19. 11	50. 30	14. 45	·1020					
19. 23	46. 30	15. 30	·1017					
	***	17. 0	·1024					
19. 36	46. 30	20. 0	·1026					
19. 51	40. 0	22. 0	·1018					
	***	22. 30	·1012					
20. 22	47. 0	23. 15	·1014					
	***							
22. 20	48. 30							
23. 15	51. 35							
23. 59	52. 25							
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 0	21. 52. 45	0. 0	·1015	0. 0	·01685	11. 0	46 ·5	47 ·0
	***	1. 30	·1018	4. 30:	·01728	21. 40	43 ·0	44 ·0
1. 32	56. 0	4. 25	·1026	7. 0	·01565			
2. 52	56. 30	8. 15	·1024	8. 15	·01520			
5. 0	51. 0	9. 0	·1018	12. 46	·01728			
	***	10. 0	·1018		·01620			
6. 0	50. 0	12. 0	·1024	17. 55	·01680			
	***	12. 30	·1033	18. 0	·01580			
9. 53	45. 0	12. 45	·1036	20. 0	·01682			
	***	12. 55	·1044	23. 45	·01590			
10. 14	46. 10	14. 0	·1031					
	***	15. 0	·1030					
11. 0	44. 30	16. 0	·1032					
	***	16. 45	·1031					
11. 34	45. 30	18. 10	·1032					
	***	18. 42	·1037					
12. 26	45. 0	19. 0	·1032					
12. 41	51. 35	19. 45	·1036					
	***	21. 30	·1031					
13. 8	47. 30		(†)					
	***							
13. 41	46. 0							
14. 22	48. 0							
15. 7	47. 0							
15. 35	48. 0							
15. 46	47. 0							
	***							
18. 45	47. 45							
	***							
20. 55	45. 30							
	***							
21. 30	48. 45							
	(†)							
23. 59	52. 40							
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 0	21. 52. 45	0. 15	·1026	0. 0	·01546	1. 40	45 ·0	46 ·0
	***	1. 0	·1022	0. 40	·01546	3. 40	47 ·5	48 ·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.22		Mar.22		Mar.22		Mar.22		
h m	° ′ ″	h m		h m		h m	°	°
1. 59	21. 56. 35	3. 0	·1031	1. 0	·01569	9. 40	45 ·5	46 ·5
2. 10	56. 0	6. 0	·1030	3. 50	·01448	21. 40	42 ·0	43 ·0
2. 44	58. 30	6. 45	·1024	7. 15	·01239			
3. 15	54. 0	7. 5	·1021	8. 30	·01190			
5. 15	53. 30	7. 15	·1034	9. 51	·01196			
	***	10. 0	·1036	19. 11	{ ·01656			
6. 52	48. 30	11. 0	·1033		{ ·01590			
7. 32	42. 30	12. 0	·1033	19. 40	·01598			
8. 20	48. 0	12. 45	·1042	19. 44	·01528			
	***	14. 0	·1038	21. 40	·01580			
10. 37	48. 30	14. 30	·1033	23. 30	·01539			
11. 0	46. 0	15. 0	·1028					
	***	15. 21	·1026					
12. 11	49. 15	16. 0	·1032					
	***	16. 5	·1028					
12. 44	46. 30		***					
13. 40	45. 5	18. 9	·1038					
13. 55	47. 25	21. 30	·1034					
14. 25	46. 0	22. 47	·1022					
15. 27	49. 10		(†)					
16. 30	48. 0							
17. 14	48. 20							
	***							
19. 10	48. 30							
	***							
20. 30	47. 20							
21. 14	48. 5							
21. 50	48. 0							
22. 50	49. 0							
	(†)							
Mar.23		Mar.23		Mar.23		Mar.23		
0. 0	21. 51. 0	0. 15	·1018	0. 20	·01509	1. 40	46 ·0	46 ·5
	***	1. 55	·1024	2. 15	·01354	3. 40	46 ·0	46 ·5
1. 56	56. 30	2. 45	·1018	5. 50	·00910	9. 40	48 ·0	48 ·8
	***	3. 15	·1024	8. 45	·00754	21. 40	41 ·5	42 ·0
2. 38	54. 30	4. 0	·1026	10. 30	·00712			
3. 45	54. 55	4. 40	·1017	15. 0	·00934			
4. 23	53. 0	5. 0	·1022	20. 35	·01244			
6. 8	49. 55	5. 31	·1023	22. 15	·01548			
7. 24	51. 0	5. 50	·1015	23. 45	·01550			
8. 7	48. 0	6. 15	·1012					
8. 15	51. 0	7. 0	·1020					
	***	8. 30	·1022					
8. 51	45. 0	9. 30	·1028					
9. 15	48. 30	10. 0	·1030					
10. 20	47. 30	10. 30	·1026					
10. 38	49. 15	11. 0	·1024					
10. 58	46. 50	11. 15	·1030					
11. 15	48. 0	11. 45	·1024					
11. 44	47. 30	12. 30	·1026					
12. 0	48. 35	15. 0	·1028					
	***	16. 30	·1034					
13. 39	47. 0	18. 20	·1030					
14. 46	49. 15	19. 20	·1032					
16. 55	47. 0	21. 0	·1030					
17. 14	48. 30	22. 0	·1026					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.23		Mar.23				Mar.24		
h m	° ′ ″	h m		h m		h m	°	°
18. 30	21. 48. 30	22. 30	·1024			1. 40	45 ·0	46 ·0
19. 40	47. 0		(†)			3. 40	47 ·0	48 ·0
	***					9. 40	45 ·5	45 ·5
21. 27	49. 45					23. 12	40 ·0	41 ·5
	***							
22. 18	48. 0							
	(†)							
Mar.24		Mar.24		Mar.24		Mar.24		
0. 30	21. 55. 20	0. 30	·1027	0. 25	·01552	1. 40	45 ·0	46 ·0
	***	1. 15	·1024	3. 15	·01280	3. 40	47 ·0	48 ·0
1. 15	57. 45	1. 20	·1020	7. 30:	·00896	9. 40	45 ·5	45 ·5
	***	1. 30	·1018	11. 50	·00962	23. 12	40 ·0	41 ·5
1. 31	56. 30	1. 45	·1028	13. 15	·01040			
2. 30	58. 35	3. 2	·1028	17. 15	·01298			
3. 2	57. 15	3. 15	·1016	19. 58	·01583			
3. 14	58. 25	3. 42	·1024	23. 0	·01555			
	***	4. 0	·1015					
4. 45	52. 5	4. 30	·1022					
	***	5. 5	·1030					
7. 42	48. 15	5. 32	·1023					
	***	5. 53	·1029					
12. 5	46. 5	8. 30	·1030					
	***	8. 36	·1034					
12. 59	47. 0	9. 0	·1030					
13. 25	44. 30	11. 50	·1032					
13. 45	46. 10	12. 5	·1036					
	***	12. 30	·1033					
15. 22	45. 30	13. 0	·1036					
15. 39	47. 30	13. 30	·1032					
16. 0	46. 30	14. 0	·1036					
	***	15. 0	·1033					
17. 15	48. 25	17. 45	·1040					
	***	18. 30	·1045					
18. 30	46. 30	19. 45	·1045					
	***	21. 8	·1038					
19. 48	45. 10	21. 22	·1040					
20. 20	47. 40	22. 0	·1032					
20. 32	45. 15	23. 3	·1028					
	***							
22. 10	48. 45							
	***							
22. 48	52. 10							
23. 39	53. 20							
23. 59	55. 30							
Mar.25		Mar.25		Mar.25		Mar.25		
0. 0	21. 55. 40	0. 0	·1036	0. 0	·01514	10. 13	45 ·0	45 ·0
	***	0. 30	·1034	1. 15	·01532	21. 40	38 ·5	39 ·5
1. 47	59. 40		***	5. 0	·01237			
3. 27	57. 0	1. 17	·1026	8. 15	·00942			
3. 40	58. 0	3. 0	·1040	11. 0	·00742			
	***		***	13. 15	·00818			
4. 51	52. 25	6. 31	·1038	14. 0	·00828			
5. 8	52. 50	6. 45	·1041	20. 30	{ ·01580			
5. 30	51. 30	8. 5	·1040		{ ·01520			
6. 50	52. 30	9. 0	·1028	23. 0	·01554			
7. 45	49. 5	9. 30	·1033					

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						
h m	° ′ ″	h m		h m		h m	°	°
8. 10	21. 44. 55	9. 56	·1044					
8. 37	47. 35	10. 15	·1048					
9. 20	48. 0	10. 39	·1035					
10. 0	43. 0	11. 0	·1032					
11. 15	47. 30	12. 0	·1028					
12. 0	48. 5	12. 45	·1020					
12. 32	46. 0		***					
13. 0	46. 30	15. 20	·1026					
13. 30	54. 35	15. 30	·1034					
	***	15. 45	·1029					
14. 45	47. 45	16. 21	·1024					
15. 14	48. 35		***					
	***	17. 2	·1031					
15. 50	46. 30	17. 30	·1033					
	***	18. 45	·1026					
17. 16	48. 0	19. 24	·1025					
	***	19. 30	·1032					
21. 0	48. 0		***					
21. 22	53. 30	20. 0	·1028					
22. 10	55. 30	21. 0	·1022					
23. 14	51. 0	21. 25	·1028					
23. 59	53. 0	21. 31	·1027					
		22. 50	·1024					
		22. 56	·1026					
		23. 59	·1031					
Mar.26		Mar.26		Mar.26		Mar.26		
0. 0	21. 53. 5	0. 0	·1031	1. 5	·01350	1. 40	44 ·0	45 ·0
0. 30	54. 30	0. 55	·1031	3. 30	·00823	3. 40	47 ·5	48 ·0
1. 0	57. 30	1. 10	·1028	4. 30	·00867	9. 40	50 ·5	51 ·4
	***	1. 17	·1037	7. 15	·00836	21. 40	43 ·5	44 ·0
1. 45	59. 5	1. 23	·1033	10. 15	·00804			
2. 21	56. 0	1. 30	·1029	14. 0	·00922			
2. 35	57. 30	2. 10	·1025	17. 15	·01178			
	***	2. 20	·1013	21. 15	·01480			
3. 55	51. 25	2. 30	·1020	23. 59	·01620			
4. 16	51. 35	3. 10	·1024					
4. 47	49. 15	3. 16	·1019					
5. 0	49. 25	3. 35	·1023					
5. 20	46. 30	3. 50	·1015					
6. 15	50. 0	4. 0	·1022					
6. 50	44. 30	4. 55	·1023					
7. 29	48. 30	5. 4	·1016					
7. 57	48. 30	5. 30	·1024					
8. 21	49. 30	6. 30	·1018					
9. 5	46. 50	6. 45	·1026					
	***	7. 15	·1026					
10. 5	49. 25	7. 30	·1021					
10. 30	57. 50	8. 25	·1024					
10. 43	50. 0	8. 55	·1019					
11. 36	48. 0	9. 7	·1024					
11. 50	49. 25	11. 32	·1030					
12. 20	47. 30	11. 54	·1021					
12. 45	49. 0	12. 45	·1020					
19. 26	47. 30	14. 30	·1024					
	***	14. 59	·1026					
20. 24	46. 0	18. 30	·1028					
	***	19. 8	·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.
Mar.26		Mar.26						
h m	° ′ ″	h m		h m		h m	°	°
21. 5	21. 48. 20	21. 0	·1027					
	***	22. 0	·1022					
22. 39	47. 0	23. 0	·1018					
	***	23. 30	·1016					
23. 59	52. 10	23. 59	·1020					
Mar.27		Mar.27		Mar.27		Mar.27		
0. 0	21. 52. 20	0. 58	·1018	0. 40	·01600	1. 40	46 ·5	47 ·0
0. 15	53. 15	1. 30	·1021	4. 0	·01238	3. 40	48 ·5	49 ·0
0. 30	53. 20	2. 20	·1020	6. 30	·00907	9. 40	49 ·0	50 ·0
1. 0	54. 35	3. 45	·1025	7. 18	·00842	21. 40	44 ·0	45 ·3
1. 14	53. 30	4. 45	·1024		·00965			
1. 36	55. 20	6. 0	·1026	8. 25	·00899			
6. 14	48. 40	6. 30	·1028	9. 43	·00900			
7. 0	49. 0	7. 30	·1028	13. 0	·00977			
	***	8. 15	·1032	14. 0	·01002			
9. 15	49. 0	8. 45	·1028	18. 0	·01360			
9. 50	50. 30	9. 34	·1026	21. 30	·01640			
10. 32	48. 20	12. 30	·1032	23. 0	·01708			
12. 55	47. 30	13. 45	·1041	23. 59	·01698			
13. 20	49. 0	14. 32	·1033					
13. 32	48. 25	15. 5	·1038					
13. 45	49. 30	16. 0	·1036					
14. 19	46. 10	19. 0	·1034					
14. 45	49. 20	20. 15	·1025					
15. 0	48. 0	21. 47	·1019					
15. 44	48. 30	22. 30	·1015					
16. 6	46. 30		***					
17. 3	45. 0	23. 31	·1014					
	***	23. 59	·1019					
18. 50	45. 10							
19. 15	44. 20							
	***							
20. 18	46. 35							
20. 30	45. 35							
20. 55	46. 5							
21. 5	49. 30							
22. 0	48. 0							
	***							
23. 36	55. 15							
Mar.28		Mar.28		Mar.28		Mar.28		
0. 0	21. 54. 0	0. 0	·1014	0. 38	·01645	1. 40	48 ·0	49 ·0
	***	0. 30	·1011	2. 4	·01529	3. 40	50 ·5	51 ·0
0. 51	59. 0	0. 41	·1010	5. 35	·01018	9. 40	51 ·0	51 ·5
1. 26	57. 40	1. 12	·1016	6. 45	·00862	21. 40	44 ·0	45 ·0
1. 51	58. 0	1. 28	·1012	6. 47	·00901			
4. 36	51. 50	2. 15	·1019	8. 35	·00856			
	***	3. 30	·1022		·00990			
5. 45	51. 0	4. 20	·1021	9. 54	·00970			
6. 30	45. 30	5. 0	·1033	13. 26	·01132			
7. 6	48. 40	5. 15	·1023	19. 47	·01724			
8. 5	47. 10	5. 47	·1008	19. 56	·01672			
	***	6. 15	·1016	21. 20	·01663			
10. 12	49. 0	7. 0	·1018	22. 15	·01630			
	***	8. 0	·1024	23. 26	·01659			
11. 10	46. 30	10. 0	·1027					
	***	10. 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.
Mar.28		Mar.28						
h m	° ′ ″	h m		h m		h m	°	°
12. 8	21. 47. 0	12. 15	·1024					
	***	12. 35	·1033					
12. 59	45. 20	13. 0	·1029					
13. 30	50. 15	13. 22	·1025					
14. 14	47. 35	13. 48	·1032					
14. 50	48. 30	15. 0	·1026					
	***	15. 25	·1028					
20. 44	45. 0	17. 15	·1032					
	***	20. 0	·1031					
21. 30	47. 30	21. 45	·1022					
	***	22. 15	·1016					
22. 14	45. 30	23. 59	·1009					
23. 45	52. 15							
23. 59	52. 15							
Mar.29		Mar.29		Mar.29		Mar.29		
0. 0	21. 52. 0	0. 18	·1012	0. 28	·01680	1. 40	48 ·0	49 ·0
1. 15	55. 0	2. 45	·1013	2. 11:	·01561	3. 40	50 ·0	50 ·5
2. 25	55. 0	3. 25	·1016	4. 28	·01200	9. 40	52 ·0	52 ·5
5. 40	49. 30	4. 22	·1014	7. 2	·00840	21. 40	44 ·0	45 ·0
6. 30	49. 0	5. 13	·1021		·00890			
7. 38	47. 0	5. 22	·1018	7. 24	·00884			
	***	6. 47	·1022		·01020			
11. 0	48. 0	7. 15	·1019	10. 30	·01400			
11. 20	47. 0	10. 30	·1022	13. 43	·01235			
11. 50	48. 30	10. 58	·1028	19. 21	·01705			
	***	11. 32	·1021	21. 33	·01672			
16. 0	47. 0	12. 15	·1024	21. 36	·01638			
16. 35	48. 15	15. 46	·1030	23. 59	·01630			
	***	17. 37	·1036					
17. 16	47. 0	18. 22	·1034					
	***	19. 15	·1036					
20. 21	45. 15	20. 30	·1032					
21. 15	45. 20	21. 6	·1031					
22. 20	48. 0	23. 0	·1028					
	***	23. 55	·1024					
22. 29	49. 0							
22. 49	47. 30							
	***							
23. 59	54. 30							
Mar.30		Mar.30		Mar.30		Mar.30		
0. 0	21. 54. 35	0. 30	·1016	0. 35	·01661	1. 40	48 ·0	49 ·0
0. 30	53. 20	0. 50	·1016	2. 0:	·01579	3. 40	50 ·0	50 ·5
0. 44	55. 30	1. 0	·1030	4. 15	·01280	9. 40	51 ·5	52 ·5
0. 52	54. 30	1. 15	·1027	6. 59	·00866	21. 40	44 ·0	45 ·0
1. 9	57. 35	2. 0	·1019		·00919			
1. 16	57. 0	2. 30	·1020	9. 2	·00840			
1. 49	59. 0	2. 46	·1025	9. 9	·00940			
2. 15	57. 0	3. 13	·1031	11. 0	·01008			
	***	3. 30	·1022	16. 8	·01444			
3. 15	57. 0	3. 46	·1024	19. 4	·01734			
	***	4. 0	·1016	19. 7	·01690			
3. 50	55. 10	4. 30	·1029	23. 59	·01689			
4. 12	52. 0	5. 0	·1022					
	***	5. 19	·1018					
5. 48	53. 15	5. 57	·1024					
	***	6. 30	·1019					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.30		Mar.30						
h m	° ′ ″	h m		h m		h m	°	°
9. 7	21. 48. 0	7. 0	·1026					
	***	7. 15	·1024					
12. 20	47. 35	8. 0	·1026					
	***	9. 27	·1024					
14. 15	49. 35	10. 30	·1028					
15. 59	48. 0	11. 45	·1032					
17. 14	48. 0	14. 30	·1034					
	***	18. 15	·1038					
20. 55	44. 30	19. 8	·1036					
	***	20. 30	·1039					
21. 15	46. 35	21. 0:	·1036					
	***	21. 45	·1024					
22. 6	45. 30	23. 59	·1018					
	***							
23. 59	51. 30							
Mar.31		Mar.31		Mar.31		Mar.31		
0. 0	21. 51. 35	0. 45	·1021	0. 32	·01648	1. 40	49 ·0	50 ·0
	***	3. 30	·1021	2. 51:	·01409	3. 40	52 ·0	53 ·0
1. 55	55. 0	4. 20	·1025	5. 6	·00906	9. 40	52 ·5	53 ·0
4. 6	51. 15	4. 30	·1019	5. 13	·00940	23. 30	41 ·0	42 ·0
5. 5	49. 40	6. 27	·1026	7. 5	·00901			
	***	8. 15	·1026	7. 15	·00982			
7. 28	47. 25	9. 5:	·1018	7. 33	·00972			
	***	10. 45	·1038	9. 55	·01110			
8. 20	47. 30	11. 30	·1034	10. 25:	·01138			
8. 55	46. 0	14. 45	·1036	11. 45	·01262			
10. 29	50. 30	15. 45	·1042	15. 4	·01738			
11. 6	48. 0	17. 0	·1046	15. 10	·01681			
12. 38	48. 55	18. 56	·1028	21. 0	·01678			
	***	20. 30	·1044	23. 44	·01598			
14. 33	47. 0	21. 45	·1039					
15. 9	51. 0	22. 15	·1034					
15. 50	47. 30	23. 45	·1032					
18. 50	46. 55	23. 59	·1026					
	***							
20. 25	44. 30							
22. 6	48. 50							
22. 13	48. 0							
22. 28	51. 0							
23. 7	52. 50							
23. 17	54. 30							
23. 59	55. 25							
Apr. 1		Apr. 1		Apr. 1		Apr. 1		
0. 0	21. 55. 25	0. 17	·1032	0. 0	·01604	9. 44	49 ·0	50 ·0
1. 21	58. 30	1. 15	·1031	1. 20	·01598	21. 40	41 ·5	43 ·0
2. 9	57. 50	2. 15	·1036	3. 46:	·01341			
3. 25	54. 0	3. 0	·1038	7. 44:	·01001			
7. 55	47. 25	4. 0	·1040	9. 36	·00898			
10. 5	46. 0	5. 30	·1038		·00930			
11. 0	48. 30	6. 43	·1040	13. 13	·00900			
12. 0	48. 15	9. 0	·1038	16. 23	·01081			
16. 13	48. 35	11. 30	·1034	19. 56	·01438			
18. 35	46. 0	12. 15	·1038	22. 14	·01660			
	***	13. 15	·1042	22. 17	·01645			
20. 46	45. 0	14. 45	·1044	23. 59	·01624			
21. 14	47. 30	18. 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.
Apr. 1		Apr. 1						
h m	° ′ ″	h m		h m		h m	°	°
23. 2	21. 48. 35	18. 45	·1044					
23. 35	51. 30	20. 30	·1043					
23. 59	52. 35	21. 15	·1037					
		22. 15	·1030					
		22. 45	·1025					
		23. 59	·1026					
Apr. 2		Apr. 2		Apr. 2		Apr. 2		
0. 0	21. 52. 40	0. 8	·1031	0. 15	·01628	1. 40	44 ·8	45 ·0
1. 10	56. 0	1. 0	·1033	1. 55	·01609	3. 40	46 ·5	48 ·5
2. 20	57. 0	1. 46	·1039		·01476	9. 40	51 ·0	51 ·0
4. 0	52. 0	3. 0	·1032	3. 31	·01232	21. 40	44 ·0	45 ·0
5. 16	49. 40	4. 15	·1037	5. 0	·00968			
7. 15	49. 40	5. 20	·1034	5. 8	·00994			
7. 48	48. 0	6. 45	·1034	8. 28	·00940			
8. 2	49. 0	7. 30	·1032	11. 34	·01068			
	***	10. 45	·1034	15. 50	·01344			
13. 1	47. 0	11. 15	·1036	20. 1	·01652			
	***	12. 15	·1040	22. 13:	·01701			
13. 33	49. 0	13. 15	·1038	23. 59	·01650			
14. 8	46. 30	13. 45	·1046					
14. 50	48. 0	14. 45:	·1038					
	***	15. 15	·1043					
16. 15	46. 0	16. 43	·1044					
19. 0	45. 0	18. 15	·1046					
	***	19. 57	·1048					
20. 45	42. 30	20. 30	·1046					
	***	21. 15	·1039					
21. 45	46. 35	21. 30	·1034					
	***	22. 45	·1032					
22. 14	46. 30	23. 6	·1028					
	***	23. 16	·1032					
23. 59	54. 30	23. 59	·1027					
Apr. 3		Apr. 3		Apr. 3		Apr. 3		
1. 40	21. 56. 57*		(†)	0. 28	·01598	1. 40	48 ·5	49 ·0
3. 40	56. 10*	2. 31	·1043	5. 30	·01080	3. 40	50 ·5	51 ·0
9. 40	49. 12*	3. 46	·1041	7. 9	·00960	9. 40	52 ·0	52 ·5
21. 40	54. 35*	4. 0	·1036		·00990	21. 40	47 ·5	48 ·0
		4. 15	·1035	11. 17	·00950			
		4. 22	·1048	14. 30	·01004			
		4. 45	·1036	18. 40	·01210			
		4. 52	·1050		***			
		5. 10	·1034	22. 54	·01365			
		5. 22	·1038	23. 59	·01359			
		5. 35	·1030					
		5. 48	·1039					
		6. 5	·1033					
		7. 15	·1031					
		7. 37	·1020					
		7. 58	·1024					
		8. 3	·1014					
		8. 16	·1011					
		8. 33	·1015					
		8. 47	·1014					
		9. 3	·1034					
		9. 30	·1033					
		10. 8	·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.
		Apr. 3						
h m	° ′ ″	h m		h m		h m	°	°
		10. 27	·1016					
		10. 40	·1027					
		10. 50	·1018					
		11. 0	·1024					
			***					
		11. 32	·1002					
		12. 0	·1032					
			***					
		12. 30	·1024					
		12. 50	·1027					
		13. 5	·1024					
		13. 30	·1037					
		14. 0:	·1041					
		14. 30	·1039					
		15. 0	·1031					
		17. 0	·1027					
		19. 2	·1043					
		19. 30	·1039					
		20. 0	·1042					
		21. 15	·1036					
		21. 30	·1040					
		22. 0	·1037					
		22. 45	·1031					
		23. 10	·1028					
		23. 30	·1040					
		23. 59	·1002					
Apr. 4		Apr. 4		Apr. 4		Apr. 4		
0. 20	21. 59. 30	0. 24	·1007	0. 28	·01352	1. 40	52 ·0	53 ·0
0. 45	22. 4. 0	0. 29	·1017	2. 35:	·01211	3. 40	55 ·0	55 ·5
0. 52	6. 35	0. 43	·1006		***	9. 40	55 ·5	56 ·0
1. 9	1. 0	0. 53	·1012	3. 46	·01040	21. 40	55 ·5	56 ·0
1. 28	22. 3. 20	1. 6	·1002		·01120			
1. 47	21. 58. 0	1. 29	·1018		***			
	***	1. 55	·1012	4. 54	·01147			
2. 56	55. 20	2. 27	·1024		***			
3. 6	57. 0	2. 43	·1020	5. 34	·01230			
	***	3. 15	·1022		***			
4. 3	55. 30	4. 17	·1037	6. 25	·01210			
4. 29	58. 0	5. 0	·1022	7. 40	·01196			
4. 35	21. 57. 30	5. 29	·0970	8. 3	·01146			
	***	5. 33	·0986	8. 13	·01212			
4. 50	22. 0. 0	5. 43	·0974	8. 29:	·01200			
	***	6. 6	·1011	8. 58	·01226			
5. 15	21. 56. 0	6. 18	·1006	9. 16	·01140			
5. 55	57. 30	6. 37	·1003	10. 14	·01180			
6. 11	43. 30	6. 45	·1008	10. 45	·01243			
6. 20	43. 30	7. 0	·1005	11. 0	·01230			
6. 35	48. 35	7. 15	·1016	11. 30	·01261			
6. 45	47. 0	7. 32	·1008	11. 46	·01240			
7. 0	49. 0	7. 36	·1029	12. 0	·01310			
7. 14	46. 0	7. 47	·1011	13. 30	·01424			
7. 22	48. 0	8. 0	·1023	13. 49	·01529			
7. 33	39. 0	8. 10	·1022	14. 43	·01578			
7. 44	44. 35	8. 35	·0996	15. 51	·01743			
7. 51	39. 0	9. 0	·1054		·01690			
8. 10	46. 0	9. 12	·1007	20. 46	·01731			
	***							

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

April 3. There was no Photographic Trace for the Declination Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 4		Apr. 4		Apr. 4				
h m	° ′ ″	h m		h m		h m	°	°
8. 30	21. 47. 0	9. 25	·1025	22. 58:	·01708			
8. 45	42. 0	9. 55	·1024	23. 59	·01605			
8. 57	32. 30	10. 20	·0998					
9. 6	46. 0	10. 45	·1014					
9. 20	32. 0	10. 50	·1002					
	***	11. 0	·1016					
9. 58	38. 0	11. 25	·1008					
10. 8	44. 25	11. 53	·1007					
	***	12. 10	·1053					
10. 40	41. 25	12. 28	·1028					
10. 45	42. 0	13. 10	·1024					
11. 4	31. 30	13. 37	·1002					
11. 36	41. 50	14. 0	·1012					
11. 52	34. 0	14. 47	·1006					
12. 15	46. 0	15. 30	·1016					
12. 28	42. 0	15. 54	·1022					
12. 36	42. 30	16. 8	·1013					
12. 45	41. 0	16. 25	·1036					
13. 26	44. 30	17. 5	·1014					
13. 44	43. 0	18. 0	·1010					
	***	18. 50	·1014					
15. 25	52. 0	19. 30	·1019					
15. 49	47. 30	20. 30	·1025					
16. 46	44. 0	21. 45	·1016					
17. 0	45. 55	22. 2	·1006					
17. 14	45. 0	22. 30	·1012					
17. 45	47. 5	23. 15	·0999					
18. 0	46. 30	23. 59	·1001					
18. 16	49. 20							
	***							
21. 0	48. 0							
21. 14	49. 50							
	***							
21. 33	49. 20							
21. 47	52. 20							
22. 20	50. 35							
23. 15	56. 35							
23. 42	57. 20							
23. 59	56. 30							
Apr. 5		Apr. 5		Apr. 5		Apr. 5		
0. 5	21. 57. 0	0. 20	·1012	0. 12	·01575	1. 40	49 ·0	50 ·0
0. 30	57. 30	1. 23	·1020	0. 30	·01569	3. 40	54 ·0	55 ·5
1. 8	56. 30	2. 33	·1010	0. 58	·01520	9. 40	58 ·0	58 ·5
1. 31	59. 0	3. 2	·1016	3. 2	{·01100	22. 52	51 ·0	52 ·0
1. 40	58. 0	3. 9	·1008		{·01130			
	***	3. 32	·1004	3. 28	{·01146			
2. 20	58. 0	3. 44	·1014		{·01220			
2. 38	55. 5		***	5. 0	·01149			
	***	4. 30	·1010	5. 30	·01147			
3. 23	54. 0		***	5. 42	·01140			
	***	5. 10	·1002	6. 0	·01176			
5. 0	54. 30	5. 28	·1020	6. 31	·01139			
5. 20	49. 0	5. 41	·1002	7. 58	·01211			
5. 28	49. 55	5. 57	·1034	8. 14	·01191			
5. 46	38. 30	6. 32	·1002	9. 16	·01237			
6. 27	47. 10	6. 55	·1015		***			
6. 47	44. 0	7. 12	·1006	11. 32	·01348			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
Apr. 5		Apr. 5		Apr. 5				
h m	° ′ ″	h m		h m		h m	°	°
7. 20	21. 49. 0	7. 37	·1000	16. 45	·01710			
	***	7. 58	·1020	18. 48	{·01892			
8. 41	44. 25	8. 30	·1005		{·01850			
9. 5	47. 30	9. 45	·1008	20. 30	·01831			
9. 45	46. 30	10. 6	·1047	22. 0	·01850			
10. 1	32. 30	10. 30	·1031	23. 24	·01812			
10. 19	34. 0	10. 45	·1012					
	***	11. 15	·1011					
10. 44	47. 0	11. 28	·1001					
11. 2	42. 0	12. 0	·1006					
11. 27	46. 0	15. 0	·1011					
11. 39	45. 30	16. 0	·1014					
12. 1	48. 30	18. 0	·1011					
	***	19. 0	·1008					
14. 15	46. 30	19. 55	·1009					
15. 10	50. 35	20. 30	·1014					
	***	21. 10	·1012					
16. 23	45. 30	22. 0	·0998					
16. 40	47. 10	22. 55	·0994					
	***	23. 20	·0995					
17. 13	46. 10							
17. 29	48. 35							
17. 35	46. 0							
18. 0	45. 5							
	***							
19. 35	47. 30							
19. 54	44. 0							
20. 6	47. 0							
20. 44	49. 0							
21. 16	47. 30							
	***							
23. 23	55. 35							
Apr. 6		Apr. 6		Apr. 6		Apr. 6		
0. 0	21. 53. 55	0. 0	·0996	0. 0	·01757	9. 40	61 ·0	62 ·0
0. 30	58. 0	0. 40	·0997	1. 10	·01657	21. 40	56 ·0	57 ·0
1. 30	57. 0	1. 0	·1009	4. 46	{·01181			
	***	2. 25	·1028		{·01230			
3. 9	57. 30	2. 40	·1018	7. 50	·01162			
4. 22	53. 35	3. 45	·1024	8. 1	·01210			
4. 36	55. 0	3. 58	·1014	9. 59	·01200			
	***	4. 15	·1023	10. 20:	·01167			
5. 25	50. 15	4. 30	·1021	13. 40	·01260			
6. 35	50. 0	4. 45	·1000	14. 16:	·01290			
7. 14	51. 0	4. 59	·0997	16. 25	·01469			
8. 50	49. 30	5. 37	·1014	21. 25	{·01880			
9. 16	45. 0	8. 0	·1010		{·01800			
10. 0	53. 30	9. 30	·1010	23. 55	·01635			
10. 46	45. 30	10. 15	·1020					
11. 15	47. 40	11. 0	·1019					
12. 25	46. 0	11. 30	·1010					
13. 5	49. 30	13. 3	·1020					
14. 12	49. 30	14. 30	·1016					
14. 51	46. 0	15. 0	·1014					
17. 5	46. 0	16. 35	·1018					
17. 21	49. 30	17. 0	·1011					
18. 50	45. 0	17. 28	·1006					
	***	18. 30	·1004					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 6		Apr. 6						
h m	° ′ ″	h m		h m		h m	°	°
20. 15	21. 44. 30	19. 0	·1014					
21. 16	45. 0	20. 10	·1021					
	***	21. 10	·1014					
21. 45	48. 30	21. 22	·1024					
	***	21. 55	·1012					
23. 20	51. 30	23. 25	·1005					
23. 59	54. 25							
Apr. 7		Apr. 7		Apr. 7		Apr. 7		
0. 20	21. 54. 30	0. 30	·1009	0. 21	·01823	1. 40	59 ·0	60 ·0
1. 6	57. 35	2. 0	·1013	1. 24	·01798	3. 40	60 ·0	62 ·0
2. 25	57. 0	3. 0	·1016	3. 45	·01602	9. 40	59 ·5	59 ·5
	***	3. 45	·1016	5. 20	·01680	23. 9	50 ·0	50 ·0
5. 40	51. 30	4. 3	·1027		***			
6. 0	50. 20	4. 45	·1021	7. 32	·01501			
6. 16	37. 35	5. 12	·1028	7. 42	·01625			
6. 25	49. 0	5. 20	·1018	10. 16	·01695			
	***	5. 45	·1024	13. 16	{·01875			
6. 50	35. 30	6. 2	·1034		{·01830			
7. 13	42. 5	6. 15	·1023	18. 26	·01796			
7. 44	42. 30	6. 45	·1028	23. 0	·01750			
8. 15	44. 50	7. 15	·1016					
8. 34	43. 30	7. 45	·1004					
	***	8. 10	·1006					
9. 13	47. 0	8. 30	·1002					
9. 34	45. 25	9. 8	·1010					
10. 19	48. 30	9. 15	·1006					
10. 45	46. 25	10. 19	·1012					
11. 0	46. 30	10. 44	·1007					
11. 15	49. 0	11. 15	·1016					
11. 59	46. 35	12. 0	·1020					
12. 8	47. 30	12. 45	·1016					
12. 38	47. 30	14. 15	·1022					
12. 59	45. 35	18. 0	·1026					
13. 23	47. 0	19. 45	·1032					
13. 25	46. 0	20. 0	·1026					
14. 29	46. 20	20. 50	·1027					
	***	23. 5	·1012					
15. 13	44. 30	23. 59	·1028					
	***							
17. 44	46. 0							
21. 16	45. 0							
22. 50	49. 25							
23. 59	52. 0							
Apr. 8		Apr. 8		Apr. 8		Apr. 8		
0. 0	21. 52. 10	0. 0	·1029	0. 0	·01740	9. 40	52 ·0	52 ·0
1. 45	56. 0	0. 32	·1020	0. 50	·01726	21. 40	49 ·0	49 ·5
5. 0	49. 20	3. 0	·1034	2. 15	·01761			
5. 30	49. 0	5. 0	·1037	3. 30	·01760			
5. 51	45. 30	5. 45	·1040	5. 55	·01718			
	***	6. 30	·1034	12. 46	·01580			
6. 30	46. 30	6. 45	·1044	14. 10	·01587			
6. 45	48. 30	7. 0	·1026	17. 44	{·01760			
7. 5	45. 0	7. 15	·1034		{·01680			
7. 51	48. 0	8. 45	·1039	17. 54	{·01680			
	***	10. 0	·1031		{·01592			
8. 29	42. 0	10. 30	·1026	18. 45	·01613			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 8		Apr. 8		Apr. 8				
h m	° ′ ″	h m		h m		h m	°	°
9. 33	21. 41. 15	11. 15	·1028	21. 14	·01556			
9. 53	44. 20	12. 0	·1033	23. 59	·01370			
11. 30	47. 15	12. 58	·1040					
11. 44	45. 30	13. 15	·1034					
11. 56	46. 0	14. 0	·1040					
12. 30	52. 40	15. 0	·1030					
13. 30	46. 0	16. 8	·1038					
14. 28	52. 55	16. 30	·1045					
15. 58	45. 0	19. 8	·1041					
16. 10	53. 35	19. 30	·1051					
16. 34	47. 0	20. 6	·1024					
17. 22	44. 20	21. 0	·1040					
	***	21. 10	·1026					
20. 5	47. 0	22. 45	·1033					
	***	23. 14	·1037					
20. 27	44. 50							
	***							
21. 23	45. 50							
	***							
21. 31	48. 5							
	***							
22. 11	47. 30							
	***							
22. 58	49. 20							
23. 32	53. 30							
23. 46	53. 0							
23. 59	54. 50							
Apr. 9		Apr. 9		Apr. 9		Apr. 9		
0. 0	21. 55. 0	0. 32	·1020	0. 33	·01340	1. 40	53 ·0	54 ·0
0. 30	21. 57. 10	1. 4	·1008	1. 30	·01300	3. 40	53 ·5	54 ·0
1. 20	22. 1. 45	1. 45	·1017	5. 20	·00947	9. 40	56 ·0	57 ·0
2. 37	21. 55. 20	2. 28	·1028	6. 57	·00959	21. 40	51 ·5	52 ·5
	***	3. 15	·1032	7. 28	·00968			
5. 14	52. 30	4. 0	·1034	7. 45	·00960			
6. 29	48. 15	5. 18	·1036	10. 44	·00916			
	***	5. 47	·1029	11. 25	·00886			
7. 1	48. 20	6. 12	·1034	11. 57	·00900			
	***	6. 45	·1026	15. 52	·01025			
7. 29	44. 0	7. 45	·1037	18. 47	·01208			
	***	8. 2	·1040	23. 6	·01580			
8. 34	48. 0	9. 30	·1034	23. 59	·01593			
9. 28	44. 25	10. 40	·1028					
	***	10. 53	·1043					
10. 29	46. 0		***					
10. 36	44. 30	11. 25	·1046					
	***	12. 0	·1034					
11. 5	45. 10	12. 20	·1030					
11. 16	43. 0	12. 45	·1035					
	***	14. 0	·1028					
11. 52	44. 0	16. 10	·1028					
12. 15	41. 30	17. 0	·1032					
13. 0	44. 55	17. 45	·1029					
13. 32	42. 30	19. 0	·1033					
14. 2	47. 30	19. 45	·1040					
	***	20. 30	·1033					
14. 44	43. 30	21. 15	·1038					
	***	22. 15	·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.
Apr. 9		Apr. 9						
h m	° ′ ″	h m		h m		h m	°	°
15. 29	21. 47. 35	22. 43	·1025					
	***	23. 30	·1017					
16. 30	44. 30	23. 55	·1003					
17. 36	46. 35							
18. 10	45. 0							
19. 15:	50. 30							
20. 51	46. 0							
	***							
22. 3	50. 40							
22. 25	48. 30							
22. 45	51. 30							
23. 30	55. 0							
23. 44	54. 55							
23. 50	55. 35							
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 5	21. 56. 0	0. 0	·1003	0. 41	·01600	1. 40	54 ·0	54 ·5
1. 19	56. 30	0. 25	·1001	1. 25	·01627	3. 40	55 ·0	56 ·0
1. 45	58. 35	1. 0	·1016	3. 43	·01516	9. 40	54 ·0	55 ·0
2. 1	57. 30	1. 43	·1025	5. 30:	·01360	21. 40	49 ·0	50 ·0
2. 20	58. 40	1. 58	·1019	7. 40	·01340			
3. 30	57. 0	2. 21	·1026	8. 14	·01377			
	***	2. 52	·1018	10. 30:	·01468			
6. 40	44. 10	3. 47	·1034	11. 30	·01460			
7. 20	46. 10	4. 15	·1034	16. 25	{ ·01765			
8. 15	45. 10	5. 22	·1018		{ ·01670			
9. 21	46. 5	6. 14	·1032	19. 15	·01718			
	***	6. 27	·1027	23. 46	·01715			
10. 39	43. 0	6. 54	·1037					
	***	7. 15	·1030					
11. 30	44. 35	8. 15	·1036					
11. 46	43. 30	10. 15	·1034					
12. 0	45. 0	10. 52	·1057					
12. 44	43. 0	12. 0	·1043					
13. 7	44. 40	12. 47	·1046					
14. 15	41. 40	13. 30	·1040					
15. 3	46. 0	14. 15	·1031					
16. 28	45. 0	16. 0	·1035					
	***	17. 0	·1032					
18. 45	47. 0	18. 0	·1035					
	***	18. 45	·1040					
20. 25	46. 0	20. 15	·1037					
	***	23. 55	·1028					
21. 59	49. 0							
	***							
22. 40	48. 45							
23. 45	51. 30							
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 0	21. 51. 25	0. 0	·1026	0. 0	·01705	1. 40	51 ·0	52 ·0
0. 36	54. 30	0. 17	·1022	3. 6:	·01507	3. 40	54 ·0	54 ·5
	***	1. 43	·1028	6. 0	·01140	9. 40	56 ·0	56 ·5
2. 0	55. 30	2. 30	·1031	7. 34	·01007	21. 40	52 ·5	53 ·0
3. 27	53. 0	4. 6	·1034	7. 43	·01100			
4. 2	53. 0	4. 30	·1034	8. 0	·01090			
6. 37	49. 15	4. 45	·1036	12. 15	·01193			
	***	7. 26	·1040	15. 30	·01326			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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		Apr. 11		Apr. 11				
h m	° ′ ″	h m		h m		h m	°	°
7. 40	21. 47. 20	8. 0	·1034	21. 36	{ ·01476			
8. 50	47. 0	11. 55	·1038		{ ·01260			
9. 16	45. 15	12. 4	·1045	23. 59	·01234			
	***	12. 35	·1040					
10. 14	47. 10	14. 0	·1037					
	***	15. 23	·1036					
11. 46	46. 0	17. 0	·1041					
12. 2	49. 30	18. 15	·1036					
12. 29	46. 0	19. 0	·1043					
	***	20. 30	·1038					
14. 14	45. 0	23. 6	·1024					
14. 30	46. 0							
	***							
15. 9	45. 0							
15. 25	45. 30							
15. 35	48. 0							
15. 52	46. 0							
	***							
16. 31	45. 5							
17. 35	42. 0							
18. 30	45. 0							
	***							
19. 45	43. 30							
	***							
21. 45	46. 10							
23. 58	53. 20							
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 5	21. 54. 50	1. 40	·1025*	0. 48	·01201	1. 40	55 ·5	55 ·5
1. 15	57. 10	3. 40	·1002*	3. 0	·01067	3. 40	57 ·0	57 ·5
	***	9. 40	·1030*	3. 34	·01047	9. 40	61 ·0	60 ·0
3. 5	21. 57. 30	21. 40	·1018*		***	21. 40	55 ·0	56 ·0
3. 14	22. 0. 30			4. 56	·01040			
3. 28	21. 56. 30			5. 14	·01015			
3. 51	57. 40			6. 15	·01040			
4. 14	57. 5			6. 20	·01111			
	***			6. 35	·01116			
5. 0	59. 0			8. 14	·01309			
5. 21	56. 35			9. 16	·01366			
	***			11. 21	·01428			
6. 1	45. 0			11. 40	·01359			
	***			12. 28	·01312			
7. 15	47. 0			13. 14	·01410			
	***			13. 45	·01399			
10. 0	45. 15				***			
10. 25	44. 0			15. 32	·01619			
10. 50	28. 30			17. 10	·01746			
11. 0	27. 0			17. 55	·01765			
11. 19	39. 30			18. 45	·01858			
11. 50	25. 0			18. 53	·01810			
12. 11	34. 0			21. 43	·01810			
12. 31	28. 30			23. 59	·01719			
13. 5	29. 0							
13. 20	51. 30							
13. 35	45. 35							
	***							
14. 1	41. 35							
14. 15	43. 30							
14. 37	42. 40							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 12								
h m	° ′ ″	h m		h m		h m	°	°
14. 51	21. 44. 30							
	***							
15. 17	41. 30							
15. 35	47. 0							
	***							
16. 1	46. 0							
	***							
17. 0	58. 30							
17. 17	54. 0							
17. 25	54. 35							
18. 0:	50. 35							
19. 15	49. 35							
19. 29	48. 0							
19. 34	46. 0							
20. 5	49. 0							
	***							
20. 48	46. 0							
	***							
22. 15	49. 30							
22. 34	52. 0							
23. 27	53. 0							
23. 59	56. 35							
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 16	21. 55. 15	0. 47	·1013	0. 14	·01692	1. 40	56 ·0	57 ·0
	***	1. 17	·1018	7. 29	·01498	3. 40	57 ·5	58 ·0
1. 46	58. 0	2. 4	·1011	9. 45	·01380	9. 47	58 ·0	59 ·0
3. 50	54. 35		***	11. 29	·01378	21. 40	53 ·0	54 ·5
6. 30	48. 25	3. 45	·1014	11. 40	·01398			
6. 57	49. 0	3. 51	·1011	11. 59	·01368			
7. 21	48. 30	4. 6	·1016	15. 57	·01580			
8. 33	51. 0	4. 30	·1011		·01500			
9. 0	48. 0	4. 45	·1017	18. 45	·01559			
9. 20	50. 30	5. 45	·1007	21. 20	·01540			
	***	6. 0	·1004	21. 50	·01535			
10. 32	56. 30	6. 44	·1014	22. 31	·01538			
11. 14	48. 0	7. 12	·1010	22. 55	·01498			
11. 40	45. 30		(†)	23. 55	·01496			
11. 49	48. 35	10. 0	·1016					
12. 11	45. 25	11. 0	·1013					
12. 29	47. 0	11. 28	·1027					
12. 58	43. 25	11. 41	·1054					
14. 0	47. 0	12. 6	·1032					
18. 15	45. 0	12. 17	·1042					
	***	12. 42	·1040					
19. 26	43. 25	13. 15	·1028					
	***	15. 18	·1034					
21. 20	44. 35		***					
	***	17. 0	·1036					
22. 12	50. 10	19. 15	·1034					
22. 45	50. 30	20. 40	·1031					
23. 14	54. 0	21. 40	·1017					
	***		***					
23. 59	54. 30	23. 59	·1015					
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 0	21. 54. 35	0. 5	·1016	0. 40	·01420	1. 40	58 ·0	59 ·0
0. 45	57. 0	1. 15	·1023	2. 0:	·01283	3. 40	60 ·0	60 ·5
					***			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 57. 10	2. 30	·1020	2. 16	·01071	9. 40	62 ·0	62 ·5
2. 23	54. 0	3. 5	·1034	4. 0	·01187	23. 4	53 ·0	54 ·0
3. 15	51. 0	3. 45	·1030	6. 50:	·01081			
6. 6	48. 0	4. 10	·1023	8. 44	·01220			
6. 36	48. 35	4. 26	·1033	12. 20	·01521			
8. 19	46. 15	4. 32	·1028	13. 50	·01608			
	***	4. 40	·1036	14. 30	·01640			
9. 14	47. 30	5. 15	·1027	15. 14	·01684			
	***	6. 0	·1034	16. 4	·01808			
10. 15	33. 35	6. 35	·1006	16. 11	·01778			
10. 45	38. 0	7. 13	·1037		***			
11. 30	46. 30	7. 54	·1045	18. 0	·01778			
	***	8. 35	·1020	18. 40	·01741			
12. 58	47. 30	9. 0	·1026	18. 48	·01766			
	***	9. 15	·1016	19. 45	·01730			
13. 30	53. 35	9. 40	·1016	23. 16	·01752			
13. 58	50. 10	10. 0	·1006					
14. 8	50. 45	10. 20	·1016					
	***	10. 55	·1014					
15. 15	44. 0	12. 5	·1026					
15. 50	44. 0	12. 25	·1016					
16. 5	47. 20		***					
16. 11	45. 30	14. 15	·1014					
16. 17	48. 0	14. 30	·1010					
	***	15. 0	·1019					
16. 49	45. 20	15. 45	·1018					
17. 5	48. 0	16. 0	·1026					
17. 16	45. 15	20. 10	·1021					
17. 43	48. 0	20. 25	·1031					
17. 55	48. 0	21. 30	·1013					
18. 23	53. 0	22. 0	·1000					
18. 34	51. 10	22. 30	·1005					
18. 50	55. 30	23. 13	·1014					
19. 7	52. 30	23. 59	·0996					
	***							
19. 55	53. 0							
21. 0	47. 30							
21. 16	50. 0							
21. 25	49. 30							
21. 43	53. 30							
21. 55	52. 20							
22. 13	53. 15							
22. 36	50. 30							
	***							
23. 46	56. 0							
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 0	21. 55. 35	0. 0	·0989	0. 0	·01688	8. 48	61 ·0	62 ·0
0. 13	57. 10	0. 13	·0979	1. 25	·01610	21. 40	56 ·0	57 ·0
0. 20	56. 0	1. 30	·1012	3. 31	·01408			
0. 46	57. 0	2. 0	·1002	6. 10	·01063			
	***		***		·01130			
2. 19	57. 15	3. 0	·1011	9. 1	·01080			
2. 45	55. 30	3. 30	·1020	11. 16	·01008			
	***	4. 10	·1004	12. 4	·01001			
4. 14	54. 0		***	12. 46	·01038			
4. 30	49. 30	4. 30	·1024	14. 0	·01040			
5. 16	52. 30	5. 0	·1026	17. 25	·01400			

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. 15		Apr. 15		Apr. 15				
h m	° ′ ″	h m		h m		h m	°	°
6. 17	21. 50. 0	5. 30	·1030	17. 59	·01441			
6. 45	49. 40	6. 30	·1026	20. 30	·01688			
6. 55	50. 30	8. 15	·1019	22. 1	·01779			
7. 16	49. 20	8. 36	·1027	23. 59	·01659			
7. 29	46. 30	9. 0	·1020					
7. 53	48. 30	9. 45	·1025					
8. 3	47. 0	11. 0	·1025					
8. 15	47. 35	11. 29	·1030					
8. 29	43. 15	11. 44	·1042					
	***	12. 32	·1012					
8. 54	46. 0	12. 59	·1051					
	***	13. 10	·1050					
11. 8	46. 0	13. 44	·1030					
12. 15	37. 0	14. 30	·1020					
12. 39	46. 30	16. 9	·1024					
12. 49	45. 35	17. 0	·1028					
	***	17. 47	·1025					
13. 31	50. 30	19. 45	·1016					
14. 0	44. 0	20. 29	·1014					
14. 35	42. 50	21. 6	·0990					
15. 8	44. 30	21. 15	·0998					
15. 18	43. 30	21. 30	·0992					
15. 46	44. 35	21. 45	·0997					
16. 30	42. 30	22. 28	·0986					
	***	22. 46	·0996					
17. 14	47. 30	23. 15	·0984					
	***	23. 30	·0999					
17. 45	45. 30	23. 46	·0992					
18. 0	46. 35	23. 59	·0997					
	***							
19. 2	45. 0							
19. 16	48. 30							
19. 37	45. 30							
	***							
20. 30	48. 35							
	***							
21. 5	45. 10							
21. 15	49. 0							
21. 35	46. 20							
	***							
22. 10	52.. 0							
22. 31	49. 50							
23. 8	54. 0							
23. 25	50. 0							
23. 59	51. 30							
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
0. 0	21. 51. 30	0. 0	·0996	0. 20	·01600	1. 40	61 ·5	62 ·0
0. 25	53. 0	1. 5	·1005	2. 31	·01148	3. 40	69 ·0	71 ·0
2. 10	55. 0	3. 0	·0992		·01220	9. 40	70 ·0	72 ·0
5. 5	50. 0	3. 30	·0998	3. 25	·01168	21. 40	60 ·0	61 ·0
7. 16	48. 0	4. 25	·0993		·01220			
8. 10	42. 30	4. 50	·1002	6. 0	·01089			
8. 36	45. 0	5. 15	·0998	6. 59	·01242			
9. 0	41. 10	5. 42	·1005	7. 54	·01450			
10. 32	43. 30		***	9. 32	·01730			
	***	6. 30	·0996	9. 50	·01740			
11. 59	47. 0	7. 0	·1002	10. 31	·01862			
12. 14	49. 0	7. 20	·1012		·01810			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 16		Apr. 16		Apr. 16				
h m	° ′ ″	h m		h m		h m	°	°
12. 39	21. 46. 0	7. 45	·0994	14. 16	·01766			
15. 10	47. 35		***	18. 53	·01690			
15. 33	48. 35	8. 37	·1004	23. 0	·01640			
16. 4	51. 30	9. 15	·1008	23. 45	·01610			
16. 45	49. 40	10. 15	·0998					
17. 2	47. 30	10. 32	·0995					
17. 45	51. 30	11. 0	·1004					
	(†)	11. 35	·1001					
20. 0	46. 10	12. 15	·1013					
	***	13. 15	·1007					
21. 49	45. 20	16. 30	·1018					
22. 45	47. 35	16. 45	·1025					
	***	17. 30	·1016					
23. 29	50. 40	18. 0	·1023					
23. 45	50. 30	18. 30	·1028					
		19. 0	·1020					
		19. 30	·1026					
		21. 30	·1011					
		22. 15	·1009					
		23. 0	·0998					
		23. 46	·0996					
		23. 59	·1002					
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 0	21. 48. 0	0. 0	·1003	0. 6	·01564	1. 40	63 ·5	64 ·5
	***	0. 45	·1009	2. 19:	·01370	3. 40	65 ·5	67 ·0
2. 14	54. 0	1. 30	·1012	4. 45:	·00970	9. 40	65 ·0	65 ·5
3. 0	51. 0	2. 0	·1000	6. 40	·00914	21. 40	51 ·5	52 ·0
3. 40	51. 0	2. 45	·1008	7. 30	·01049			
5. 55	45. 10	3. 18	·1003	10. 30	·01296			
6. 20	45. 30	4. 50	·1018	13. 24	·01681			
6. 59	41. 25	6. 45	·1012		·01590			
7. 35	44. 50	7. 20	·1021	19. 50	·01615			
	***	7. 45	·0988		·01420			
8. 20	43. 25	10. 0	·0992	22. 0	·01405			
9. 51	44. 20	11. 0	·0996	23. 8	·01340			
	***	12. 28	·0995					
11. 50	42. 30	12. 55	·1004					
	***	13. 40	·1002					
12. 45	49. 0	14. 13	·1011					
13. 6	46. 30	14. 55	·1004					
13. 34	45. 30	15. 45	·1010					
	***	16. 10	·1003					
13. 56	46. 35	16. 30	·1008					
	***	17. 35	·1013					
14. 44	44. 30	17. 48	·1009					
15. 15	47. 20	19. 0	·1014					
17. 28	44. 30	20. 0	·1008					
18. 26	46. 35	21. 5	·1006					
18. 55	49. 30	22. 0	·0988					
	***	22. 30	·0986					
20. 34	50. 30	23. 59	·0996					
20. 45	46. 30							
	***							
21. 9	46. 0							
	***							
21. 26	49. 30							
21. 36	48. 10							
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 17	° ′ ″							
h m		h m		h m		h m	°	°
22 6	21. 52. 30							
	***							
22. 25	51. 0							
22. 50	51. 40							
	(†)							
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
1. 15	22. 0. 0	0. 15	·0997	0. 12	·01282	1. 40	56 ·0	57 ·0
2. 2	21. 59. 0	0. 50	·0996		***	3. 40	59 ·0	60 ·0
2. 34	22. 1. 0	1. 15	·1007	3. 43	·00852	10. 0	57 ·0	58 ·0
3. 22	21. 56. 0	1. 45	·0995		***	21. 40	47 ·5	48 ·0
4. 58	53. 45	2. 20	·0988	5. 29	{·00840			
	(†)	2. 28	·0994		{·00946			
7. 5	48. 0	2. 45	·0981	5. 43	{·00940			
8. 30	49. 0	3. 3	·0976		{·01010			
9. 55	46. 30	3. 30	·0986	8. 6	·01082			
10. 3	47. 40	4. 0	·0997	11. 13	·01249			
10. 30	45. 15	5. 0	·1000	14. 14	·01582			
11. 20	49. 0	5. 5	·0992	15. 45	·01538			
13. 15	49. 30	5. 20	·0996	19. 15	·01560			
13. 46	51. 30	5. 30	·0983	20. 45	·01528			
14. 16	49. 40	5. 47	·0977	22. 0	·01506			
	***	6. 10	·0993	23. 59	·01382			
15. 18	53. 0	7. 30	·0996					
15. 54	49. 35	9. 30	·1000					
16. 14	50. 30	10. 30	·1012					
16. 35	48. 10	11. 0	·1008					
17. 6	51. 0	12. 0	·1010					
	***	13. 0	·1014					
18. 45	49. 30	14. 30	·1018					
	***	15. 55	·1022					
20. 55	46. 0	17. 0	·1018					
	***	18. 0	·1013					
21. 29	46. 40	18. 45	·1022					
23. 59	53. 0	19. 30	·1026					
		20. 15:	·1024					
		21. 40	·1006					
		22. 45	·1001					
		23. 59	·1002					
Apr. 19		Apr. 19		Apr. 19		Apr. 19		
0. 0	21. 53. 10	0. 0	·1002	0. 35	·01336	1. 40	52 ·0	53 ·5
1. 20	56. 5	2. 0	·1010	2. 20	·01134	3. 40	57 ·5	58 ·0
2. 2	56. 35	2. 30	·1004	3. 15	{·00940	9. 40	64 ·0	64 ·5
5. 0	52. 35	3. 25	·1005		{·00980	21. 40	54 ·8	55 ·5
5. 16	50. 35	3. 32	·1013	5. 14	{·01026			
9. 5	45. 30	3. 54	·1012		{·01160			
9. 41	47. 30	4. 10	·0996	7. 20	·01220			
9. 48	46. 0	4. 30	·0992	8. 28	·01318			
10. 7	46. 0	4. 55	·0998	10. 0	·01400			
10. 44	39. 15	5. 12	·0990	10. 42	·01380			
11. 1	42. 30	5. 45	·0994	14. 29	·01712			
11. 16	42. 30	7. 0	·0986	17. 52	·01708			
12. 20	47. 50	9. 30	·0984	19. 42	·01670			
12. 44	48. 0	10. 17	·0997	23. 59	·01640			
13. 0	51. 30	10. 35	·0992					
13. 30	48. 25	11. 15	·0986					
17. 35	49. 15	12. 0	·0983					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 19	° ′ ″	Apr. 19						
h m		h m		h m		h m	°	°
22. 15	21. 47. 30	12. 25	·0997					
23. 15	49. 10	13. 0	·0998					
23. 59	51. 10	14. 15	·0994					
		15. 46	·1001					
		18. 0	·1006					
		20. 45	·1002					
		22. 15	·0984					
		23. 0	·0978					
		23. 59	·0972					
Apr. 20		Apr. 20		Apr. 20		Apr. 20		
0. 0	21. 51. 20	0. 40	·0973	0. 13	·01572	1. 40	58 ·5	59 ·0
2. 20:	55. 0	1. 15	·0980	1. 34:	·01488	3. 40	61 ·0	62 ·0
5. 50	52. 45	2. 15	·0986	4. 31	·00948	9. 40	62 ·5	63 ·0
8. 46	43. 35	4. 0	·0990	5. 44	·00951	21. 40	49 ·0	50 ·5
10. 21	46. 10	4. 57	·0998	10. 0	·01180			
10. 44	44. 5	8. 10	·0996	14. 16	{·01664			
10. 55	45. 0	9. 0	·0989		{·01576			
11. 23	43. 30	10. 30	·0992	19. 10	·01605			
11. 36	44. 30	11. 0	·1009	21. 26	·01581			
12. 15	38. 30	11. 30	·1002	21. 33	·01565			
12. 58	42. 30	12. 20	·1006	23. 59	·01570			
	***	13. 30	·0998					
13. 49	44. 20	14. 11	·1008					
	***	15. 17:	·0995					
14. 35	42. 15	16. 45	·1018					
15. 30	53. 0	17. 45	·1004					
17. 6	48. 25	18. 56	·1014					
18. 0	51. 0	19. 35	·1012					
21. 40	47. 0	20. 0	·1015					
22. 14	46. 0	23. 16	·0992					
23. 59	52. 30							
Apr. 21		Apr. 21		Apr. 21		Apr. 21		
0. 0	21. 52. 40	0. 41	·0992	0. 45	·01501	1. 40	54 ·0	55 ·0
2. 0	56. 0		***	3. 0:	·01339	3. 40	60 ·0	61 ·0
7. 20	48. 35	3. 21	·1002	5. 30:	·00916	9. 40	55 ·5	56 ·0
7. 40	49. 0	4. 0	·1000	7. 50	·00968	23. 23	47 ·5	47 ·5
8. 19	46. 15	4. 45	·1004	11. 2	·01126			
8. 35	47. 30	7. 10	·1003	15. 14	{·01608			
9. 3	45. 35	7. 35	·1006		{·01530			
10. 45	48. 40	8. 43	·0998	18. 6	·01562			
11. 35	48. 35	10. 52	·1009	19. 39	·01574			
12. 17	50. 0	11. 10	·1006	23. 59	·01462			
12. 36	49. 40	13. 0:	·1022					
12. 55	51. 30	14. 32	·1018					
13. 20	50. 0	15. 15	·1025					
13. 53	50. 20	16. 44	·1017					
14. 15	48. 25	18. 0	·1026					
14. 52	51. 0	19. 59	·1031					
15. 29	48. 10	21. 15	·1025					
16. 26	47. 30	22. 30	·1014					
17. 5	51. 30	23. 55	·1006					
17. 43	50. 0							
20. 4	48. 30							
21. 30	46. 30							
23. 59	52. 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.
Apr. 22	° ′ ″	Apr. 22		Apr. 22		Apr. 22	°	°
h m		h m		h m		h m		
0. 0	21. 52. 0	0. 13	·1002	0. 16	·01432	9. 24	54 ·8	55 ·3
1. 57	56. 0	1. 58	·1011	3. 28:	·01235	21. 40	47 ·5	48 ·0
7. 40	48. 0	2. 50	·1005	6. 57:	·00817			
8. 6	46. 20	5. 6	·1021	11. 29	·00870			
10. 36	58. 40	7. 30	·1017	16. 41	·01245			
11. 15	48. 0	9. 10	·1012	19. 0	·01405			
14. 0	49. 10	10. 30	·1016	21. 0	·01438			
14. 15	50. 30	11. 45	·1020	21. 55	·01427			
	***	14. 45	·1022	22. 45:	·01450			
18. 0	48. 10	17. 32	·1028	23. 59	·01400			
	***	19. 25	·1028					
21. 22	45. 40	21. 30	·1018					
22. 8	47. 15	22. 30	·1011					
23. 31	52. 15	23. 15	·1002					
23. 59	52. 35	23. 32	·1004					
Apr. 23		Apr. 23		Apr. 23		Apr. 23		
0. 0	21. 52. 35	0. 0	·1009	0. 30	·01278	1. 40	53 ·0	54 ·0
1. 45	54. 30	1. 30	·1003		***	3. 40	56 ·5	57 ·0
3. 15	54. 25	2. 35	·1004	1. 30	·01158	9. 40	59 ·5	59 ·5
7. 45	48. 30	3. 40	·0998	3. 5	·00815	21. 40	48 ·5	49 ·0
8. 15	41. 30	5. 15	·1000	4. 5	·00867			
9. 15	48. 35	7. 31	·1008	4. 55	·00844			
14. 30	50. 25	8. 0	·0992	7. 45	·00944			
17. 30	50. 30	8. 18	·1007	9. 40	·01014			
20. 59	46. 0	9. 15	·0998	11. 45	·01130			
22. 23	50. 40	11. 20	·1008	15. 15	·01506			
23. 59	54. 0	17. 25	·1015	16. 30	·01684			
		19. 15	·1022		·01595			
		22. 0	·1012	19. 30	·01603			
		23. 59	·1011	22. 0	·01564			
				23. 15	·01527			
				23. 30	·01506			
				23. 55	·01454			
Apr. 24		Apr. 24		Apr. 24		Apr. 24		
0. 0	21. 54. 5	0. 33	·1005	0. 38	·01427	1. 40	53 ·0	54 ·0
0. 20	54. 5	7. 0	·1000	2. 2	·01184	3. 40	58 ·0	59 ·5
1. 45	55. 0	11. 57	·1008	3. 8	·00884	9. 40	61 ·0	62 ·0
7. 0	48. 0	14. 30	·1011		·00950	21. 40	54 ·5	55 ·0
21. 25	47. 0	16. 0	·1015	4. 17	·00954			
23. 42	52. 0	17. 0	·1012	4. 40	·00922			
23. 49	53, 20	18. 30	·1018	7. 10	·01060			
		21. 0	·1015	8. 15	·01100			
		23. 0	·1013	10. 45	·01157			
		23. 58	·1011	14. 15	·01397			
				17. 15	·01638			
				19. 0	·01698			
				19. 5	·01650			
				22. 15	·01617			
				23. 59	·01584			
Apr. 25		Apr. 25		Apr. 25		Apr. 25		
0. 0	21. 53. 30	0. 43	·1016	0. 30	·01585	1. 40	54 ·0	55 ·0
0. 47	56. 0	1. 16	·1012	1. 16	·01608	3. 40	55 ·5	56 ·5
2. 50	56. 30	2. 40	·1024		·01400	9. 40	55 ·5	56 ·0
5. 45	50. 35	3. 45	·1028	2. 40	·01390	21. 40	47 ·5	49 ·0
8. 51	49. 25	5. 10	·1031	7. 35	·01230			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 25	° ′ ″	Apr. 25		Apr. 25		h m	°	°
h m		h m		h m				
9. 9	21. 47. 0	5. 30	·1024	9. 45	·01228			
9. 36	48. 55	6. 6	·1030	11. 15:	·01250			
10. 10:	47. 30	7. 15	·1026	14. 14	·01492			
10. 42	49. 30	9. 30	·1026	20. 0	·01470			
11. 17	48. 0	10. 23	·1030	23. 30	·01456			
11. 59	50. 15	10. 40	·1040					
17. 0	49. 15	11. 35	·1033					
19. 45	46. 30	17. 30	·1038					
21. 45	47. 10	19. 30	·1038					
23. 13	51. 25	21. 30	·1028					
23. 35	51. 20	23. 32	·1024					
Apr. 26		Apr. 26		Apr. 26		Apr. 26		
1. 40	21. 55. 50*	0. 0	·1024	0. 0	·01430	1. 40	51 ·0	52 ·0
3. 40	53. 40*	0. 30	·1028	1. 0	·01438	3. 40	54 ·5	56 ·0
9. 40	47. 42*	1. 45	·1025	2. 8:	·01260	9. 40	59 ·5	61 ·0
21. 40	46. 55*	3. 45	·1027	3. 40	·00883	21. 40	51 ·5	52 ·5
		5. 40	·1019	5. 29	·00877			
		6. 28	·1012	6. 12	·00910			
		7. 45	·1016	7. 25	·00910			
		12. 30	·1020	8. 30:	·00961			
		16. 30	·1026	10. 30	·00996			
		18. 30	·1028	11. 30	·01600			
		20. 30	·1022	16. 0	·01387			
		23. 15	·1012	18. 15	·01607			
		23. 35	·1012	19. 32	·01640			
					·01584			
				22. 0	·01562			
				23. 20	·01544			
Apr. 27		Apr. 27		Apr. 27		Apr. 27		
0. 0	21. 56. 30	0. 0	·1016	0. 0	·01540	1. 40	55 ·0	56 ·0
	***	2. 0	·1014	0. 46	·01520	3. 40	58 ·0	59 ·5
0. 25	57. 35	3. 15	·1016	1. 0	·01460	9. 40	61 ·0	61 ·5
0. 30	54. 45	4. 0	·1011	2. 11:	·01128	21. 40	51 ·0	53 ·0
1. 8	56. 0	6. 20	·1008	4. 14	·00891			
2. 45	55. 0	10. 30	·1010	10. 47	·01008			
3. 30	53. 30	11. 15	·1013	14. 50	·01350			
4. 25	50. 0	12. 45	·1010	17. 32	·01672			
5. 46	48. 5	14. 0	·1018		·01600			
10. 45	49. 35	15. 15	·1021	23. 59	·01553			
12. 0	47. 30	17. 0	·1025					
	***	20. 0	·1022					
13. 29	50. 0	21. 0	·1016					
14. 2	49. 30	22. 0	·1010					
14. 25	50. 10	23. 0	·1005					
15. 33	49. 30	23. 30	·1011					
15. 50	50. 15	23. 45	·1014					
18. 6	58. 30							
20. 21	44. 25							
20. 45	44. 0							
22. 18	45. 10							
	***							
23. 59	53. 10							
Apr. 28		Apr. 28		Apr. 28		Apr. 28		
0. 0	21. 53. 20	0. 20	·1011	0. 29	·01546	1. 40	54 ·0	55 ·0
1. 14	50. 55	1. 50	·1020	1. 50	·01644	3. 40	57 ·0	57 ·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.

April 26. There was no Photographic Trace for the Declination Magnet.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.28	° ′ ″	Apr.28		Apr.28		Apr.28	°	°
h m		h m		h m		h m		
2. 24	21. 56. 20	3. 0	·1024	4. 34	·01119	9. 40	57 ·5	58 ·0
6. 15	49. 40	3. 30	·1020	6. 28:	·00989	23. 6	50 ·0	51 ·0
7. 25	49. 10	5 40	·1019	8. 30	·01006			
10. 35	50. 0	6. 0	·1024	11. 31	·01110			
17. 23	49. 55	7. 0	·1020	17. 1	·01611			
	***	8. 8	·1024		·01540			
20. 30	44. 30	9. 15	·1015	19. 12	·01590			
22. 0	46. 0	10. 45	·1028	20. 42	·01550			
23. 59	51. 0	13. 15	·1030	23. 20	·01471			
		15. 0	·1032					
		18. 15	·1034					
		20. 0	·1028					
		21. 45	·1024					
		23. 13	·1028					
		23. 59	·1022					
Apr.29		Apr.29		Apr.29		Apr.29		
0. 0	21. 51. 10	0. 15	·1025	0. 0	·01451	9. 10	55 ·0	54 ·5
1. 38	55. 20	0. 40	·1017	3. 24	·01460	21. 40	50 ·0	51 ·0
3. 26	55. 30	1. 30	·1024	7. 0	·01219			
6. 16	50. 10	2. 25	·1023	10. 30	·01010			
6. 30	50. 30	3. 15	·1036	12. 40	·00986			
7. 39	48. 30	3. 47	·1030	18. 47	·01440			
	***	4. 30	·1034		***			
9. 27	49. 30	4. 50	·1041	20. 30	·01406			
10. 20	49. 0	5. 15	·1038	23. 59	·01269			
11. 8	39. 35	5. 45	·1042					
11. 36	38. 20	5. 55	·1034					
	***	6. 8	·1044					
12. 22	39. 30	7. 0	·1038					
12. 35	38. 20	7. 30	·1035					
13. 30	43. 20	9. 44	·1032					
	***	10. 8	·1037					
15. 7	44. 30	10. 22	·1035					
	***	10. 50	·1045					
16. 24	49. 40	12. 0	·1022					
17. 5	47. 0	13. 0	·1028					
	***	14. 45	·1022					
17. 32	48. 15	16. 15	·1032					
	***	16. 35	·1030					
18. 3	46. 35	20. 30	·1018					
	***	21. 46	·1013					
19. 4	46. 30	22. 30	·1021					
19. 21	45. 0	23. 59	·1021					
19. 45	46. 0							
	***							
20. 17	44. 45							
	***							
22. 31	49. 15							
23. 59	55. 10							
Apr.30		Apr.30		Apr.30		Apr.30		
0. 0	21. 55. 10	0. 0	·1028	1. 0	·01284	1. 40	52 ·0	53 ·0
0. 45	57. 30	1. 0	·1016	2. 45	·01226	3. 40	54 ·0	54 ·5
1. 29	57. 30	1. 20	·1024	3. 57:	·01139	9. 40	57 ·0	57 ·5
1. 45	55. 50	2. 45	·1027	6. 45	·00845	21. 40	50 ·0	53 ·0
2. 27	56. 15	3. 30	·1032	7. 52	·00759			
3. 35	54. 0	3. 33	·1025	8. 0	·00801			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.30	° ′ ″	Apr.30		Apr.30		h m	°	°
h m		h m		h m				
4. 0	21. 55. 10	3. 52	·1025	10. 46	·00738			
4. 10	53. 45	4. 0	·1028	11. 24	·00705			
	***	4. 10	·1022	11. 47	·00729			
4. 40	54. 20	4. 45	·1026	12. 1	·00716			
5. 29	52. 0	5. 8	·1015	12. 27	·00752			
6. 45	51. 45	5. 30	·1013	13. 15	·00760			
7. 16	44. 25	5. 44	·1024	13. 44	·00795			
7. 35	44. 50	6. 0	·1028	14. 56	·00901			
8. 7	46. 30	6. 28	·1030	17. 30	·01194			
8. 15	46. 30	6. 40	·1024	20. 44	·01439			
8. 31	48. 35	7. 57	·1024	20. 55	·01384			
10. 14	49. 30	8. 20	·1031	23. 47	·01390			
10. 30	48. 0	8. 28	·1025					
10. 55	56. 0	9. 30	·1028					
11. 15	50. 40	9. 58	·1016					
11. 44	33. 55	10. 13	·1024					
12. 9	34. 0	10. 29	·1023					
12. 30	49. 20	10. 40	·1011					
12. 44	48. 0	10. 51	·1023					
13. 0:	49. 5	11. 15	·1012					
13. 25	45. 20	11. 28	·0996					
13. 44	44. 20	11. 58	·1012					
14. 22	50. 40	12. 15	·1004					
	***	12. 45	·1002					
15. 8	44. 10	13. 0	·1013					
15. 31	44. 0	13. 20	·1009					
	***	13. 47	·1014					
16. 15	46. 45	14. 42	·1033					
16. 37	46. 0	14. 57	·1029					
16. 57	47. 15	15. 0	·1023					
17. 22	46. 10	16. 0	·1019					
18. 0	52. 0	17. 0	·1023					
18. 15	50. 45	17. 45	·1014					
18. 44	52. 25	18. 30	·1012					
18. 50	51. 0	19. 3	·1008					
19. 5	54. 25	19. 30	·1014					
19. 44	48. 25	20. 0	·1020					
20. 15	49. 0	20. 20	·1018					
20. 35	52. 0	20. 25	·1021					
21. 0	50. 0	21. 0	·1013					
22. 0	51. 10	21. 40	·1010					
22. 30	54. 20	23. 0	·1016					
23. 59	58. 0	23. 45	·1017					
May 1		May 1		May 1		May 1		
0. 16	21. 59. 0	0. 22	·1008	0. 0	·01391	1. 40	51 ·5	52 ·0
	***	0. 30	·1010	2. 7	·01406	3. 40	53 ·5	54 ·0
1. 0	59. 25	0. 35	·1005	6. 0	·01139	9. 40	55 ·5	56 ·0
1. 45	56. 10	0. 50	·1008	7. 17	·01022	21. 40	50 ·0	50 ·5
4. 30	52. 0	1. 23	·0998	10. 6	·00848			
4. 45	52. 30	1. 53	·1015	11. 45	·00823			
5. 31	52. 5	2. 17	·1008	13. 59	·00960			
	***	2. 40	·1010	19. 13	·01536			
6. 45	48. 10	2. 55	·1004	19. 29	·01460			
8. 0	50. 30	3. 18	·1006	21. 46	·01443			
10. 20	50. 20	3. 27	·1012	22. 47:	·01394			
11. 4	47. 30	3. 50	·1006	23. 45	·01308			
11. 27	53. 25	4. 25	·1010					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 1		May 1						
h m	° ′ ″	h m		h m		h m	°	°
11. 58	21. 45. 0	4. 45	·1016					
	***	5. 15	·1014					
12. 30	46. 30	5. 45	·1016					
13. 5	51. 35	6. 0	·1011					
13. 20	51. 30	6. 10	·1013					
13. 45	46. 25	6. 20	·1010					
14. 21	47. 10	7. 3	·1019					
15. 0	53. 55	8. 50	·1014					
	***	10. 3	·1019					
16. 30	48. 30	10. 8	·1017					
16. 46	49. 30	10. 38	·1021					
17. 15	48. 0	11. 10	·1016					
18. 7	46. 30	11. 12	·1021					
18. 16	44. 30	13. 0	·1016					
18. 40	44. 35	13. 22	·1026					
18. 47	47. 25	13. 55	·1024					
19. 34	46. 20	14. 40	·1012					
19. 47	47. 35	14. 50	·1016					
	***	15. 10	·1011					
20. 24	45. 25	15. 55	·1023					
	***	16. 20	·1021					
23. 0	55. 30	16. 49	·1017					
23. 59	56. 55	17. 38	·1022					
		18. 0	·1019					
		18. 12	·1019					
		18. 31	·1008					
		18. 57	·1016					
		19. 55	·1016					
		20. 0	·1018					
		20. 20	·1012					
		22. 41	·1005					
		22. 52	·0998					
		23. 28	·0997					
May 2		May 2		May 2		May 2		
0. 0	21. 56. 55	0. 0	·0995	0. 0	·01282	1. 40	56 ·0	57 ·0
1. 10	57. 30	1. 0	·0993	0. 41:	·01216	3. 40	59 ·0	60 ·5
2. 45	57. 0		***	2. 14	·00910	9. 40	59 ·0	59 ·5
3. 0	55. 0	2. 39	·1005		***	21. 40	48 ·5	49 ·0
3. 16	55. 20	2. 48	·0996	5. 0	·00928			
4. 17	51. 0	3. 3	·0996		***			
5. 8	51. 0	3. 25	·1004	7. 25	·01140			
6. 26	49. 20	3. 40	·0990	8. 57	·01241			
7. 18	41. 0		***	12. 39	·01394			
7. 44	40. 35	4. 12	·1006	14. 36	{ ·01641			
7. 59	44. 0	4. 25	·0993		{ ·01570			
8. 14	41. 55	4. 42	·0988	21. 40	{ ·01568			
8. 36	42. 0	5. 15	·0993		{ ·01426			
8. 58	44. 20	5. 18	·1004	22. 1	{ ·01420			
	***	5. 27	·1000		{ ·01300			
10. 45	43. 0	5. 33	·1004	23. 15	·01259			
11. 0	41. 0	6. 15	·0998	23. 59	·01163			
11. 30	48. 35	6. 30	·0986					
	***	6. 55	·0998					
12. 0	51. 50	7. 0	·0994					
13. 1	47. 10	7. 22	·1014					
13. 34	50. 30	7. 40	·1012					
14. 8	48. 0	7. 58	·0991					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
May 2		May 2						
h m	° ′ ″	h m		h m		h m	°	°
14. 22	21. 51. 30	8. 12	·0997					
14. 55	51. 30	8. 33	·0998					
15. 20	54. 0		***					
16. 16	50. 0	9. 12	·0996					
17. 30	48. 35	10. 30	·0994					
18. 45	46. 50	10. 42	·0996					
19. 18	48. 30	10. 53	·0993					
20. 30	44. 50	11. 35	·0988					
21. 30	46. 30	12. 17	·1011					
23. 30	55. 40	12. 50	·1001					
23. 45	56. 0	13. 30	·1011					
		13. 40	·1008					
		13. 50	·1010					
		14. 14	·1009					
		14. 18	·1014					
		15. 25	·1004					
		15. 46	·1011					
		16. 33	·1008					
		17. 25	·1014					
		19. 0	·1013					
		19. 30	·1009					
		20. 0	·1010					
		20. 49	·1014					
		20. 54	·1010					
		21. 0	·1011					
		22. 15	·1008					
		23. 3	·1001					
May 3		May 3		May 3		May 3		
0. 30	21. 55. 45	0. 7	·0991	0. 45	·01080	1. 40	54 ·5	56 ·5
1. 28	58. 0	0. 30	·0989	2. 0	·00830	3. 40	58 ·0	59 ·5
2. 37	57. 30	0. 50	·0997	3. 31	{ ·00928	9. 40	60 ·0	60 ·5
3. 30	54. 35	2. 15	·0995		{ ·01000	21. 40	49 ·5	50 ·0
4. 15	55. 10	2. 46	·0987	5. 6	·00958			
6. 51	48. 0	3. 17	·0996	8. 2	·01110			
8. 30	47. 5	3. 25	·0991	9. 40	·01219			
9. 15	37. 40	4. 32	·0998	14. 11	·01662			
9. 36	43. 0	4. 45	·0992	14. 16	·01621			
9. 45	41. 25	6. 32	·0998	19. 22	·01589			
10. 1	43. 30	7. 0	·1005	22. 13	{ ·01526			
10. 15	42. 30		***		{ ·01430			
11. 9	46. 0	8. 40	·1004	23. 59	·01471			
12. 15	45. 5	8. 48	·0998					
13. 1	48. 35	9. 4	·0998					
	***	9. 20	·1020					
15. 17	45. 10	9. 42	·1004					
16. 0	48. 55	10. 0	·1007					
16. 30	48. 0	10. 15	.1000					
17. 23	48. 30	11. 15	·0996					
18. 6	47. 15	11. 42	·1004					
18. 52	51. 0	15. 0	·1015					
21. 5	45. 35	15. 30:	·1013					
22. 1	46. 0	16. 0	·1017					
23. 59	53. 30	17. 15	·1017					
			***					
		17. 48	·1011					
		18. 30	·1010					
		19. 45	·1017					

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	° ′ ″	May 3 h m		h m		h m	°	°
		22. 25	·1009					
		23. 49	·0994					
May 4		May 4		May 4		May 4		
0. 0	21. 53. 35	0. 26	·0996	0. 45	·01460	1. 40	52 ·0	53 ·0
0. 53	52. 55	2. 0	·0998	1. 45:	·01460	3. 40	54 ·0	55 ·0
1. 33	54. 35	3. 0	·1003	3. 30	·01342	9. 40	54 ·0	55 ·5
3. 27	56. 0	3. 12	·1002	6. 25:	·01183	21. 40	45 ·0	46 ·5
5. 28	53. 25	3. 30	·1006	8. 27	·01170			
6. 45	48. 20	4. 2	·1008	11. 40	·01218			
8. 4	48. 15	4. 58	·1007	14. 48	{·01488			
	***	5. 17	·1012		{·01510			
11. 57	47. 40	5. 46	·1009	17. 28	{·01526			
	***	6. 34	·1014		{·01460			
12. 45	49. 20	6. 55	·1019	19. 43	·01485			
13. 3	48. 40	7. 30	·1017	23. 59	·01439			
14. 29	50. 35	7. 42	·1019					
	***	8. 22	·1014					
16. 41	49. 25	10. 10	·1016					
17. 50	50. 50	10. 18	·1019					
21. 26	45. 10	11. 0	·1016					
23. 59	52. 0	11. 7	·1020					
		11. 18	·1018					
		12. 10	·1019					
		12. 15	·1022					
		12. 30	·1021					
		14. 0	·1022					
		16. 15	·1028					
		18. 40	·1025					
		20. 15	·1025					
		21. 40	·1013					
		23. 59	·1009					
May 5		May 5		May 5		May 5		
0. 0	21. 52. 0	0. 0	·1009	0. 10	·01418	1. 40	51 ·0	52 ·5
1. 46	56. 30	2. 30	·1018	1. 19:	·01362	3. 40	55 ·0	56 ·0
2. 32	56. 30	3. 3	·0999	3. 43	·00900	9. 40	59 ·5	59 ·5
3. 46	54. 0	3. 45	·1012	3. 47	·00914	22. 56	51 ·0	52 ·5
5. 30	54. 20	4. 15	·1007	7. 0	·00905			
9. 7	48. 30	4. 25	·1013	10. 47	·00990			
11. 30	47. 0	5. 20	·1013	16. 0:	·01506			
12. 52	48. 15	5. 32	·1028	17. 16	·01562			
16. 30	47. 35	6. 4	·1006	20. 47	{·01625			
16. 50	48. 55	6. 11	·1009		{·01530			
18. 50	45. 5	6. 26	·1010	23. 13	·01472			
19. 23	43. 30	6. 33	·1006					
	***	7. 12	·1015					
21. 0	44. 0	10. 0	·1007					
22. 30	50. 0	12. 25	·1006					
23. 15	51. 10	16. 15	·1016					
22. 59	52. 0	17. 20	·1022					
		19. 30	·1022					
		22. 30	·1005					
		23. 59	·1003					
May 6		May 6		May 6		May 6		
0. 0	21. 52. 5	0. 0	·1002	0. 0	·01441	9. 43	58 ·5	59 ·0
1. 0	54. 55	0. 35	·1008	4. 4	·01171	21. 40	54 ·5	55 ·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.
May 6 h m	° ′ ″	May 6 h m		May 6 h m		h m	°	°
1. 37	21. 55. 0	1. 12	·1007	7. 6	·00880			
2. 30	57. 0	1. 20	·1010	8. 1	·00918			
	***	1. 37	·1002	10. 46	·00838			
3. 46	56. 30	2. 17	·1010	11. 47	·00820			
	***		***	12. 0	·00826			
4. 15	55. 0	3. 33	·1007	12. 28:	·00740			
	***	3. 50	·1014	14. 16	·00828			
4. 46	55. 55	4. 3	·1009	16. 44	·00974			
5. 1	54. 25	4. 30	·1012	18. 58	·01178			
5. 20	54. 0	4. 35	·1009	20. 46	·01281			
	***	5. 9	·1012	23. 59	·01280			
6. 35	51. 0	5. 15	·1008					
6. 51	51. 30	6. 23	·1016					
7. 30	48. 25	6. 30	·1013					
7. 53	39. 30	7. 2	·1020					
8. 31	45. 50	7. 45	·1013					
9. 0	44. 40	8. 3	·1024					
11. 45	48. 30	8. 30	·1022					
12. 4	53. 0	8. 40	·1011					
12. 50	44. 50	9. 0	·1011					
13. 6	45. 30	9. 30	·1000					
13. 30	44. 30	10. 14	·1008					
13. 54	41. 20	11. 47	·1007					
14. 20	44. 0	12. 7	·1028					
14. 46	49. 0	12. 15	·1023					
15. 28	49. 0	12. 45	·1015					
15. 46	50. 35	12. 55	·1019					
16. 5	48. 30	13. 30	·1017					
17. 45	45. 0	13. 53	·1010					
18. 0	45. 10	14. 2	·1011					
18. 50	43. 30	15. 10	·1008					
19. 1	44. 45	15. 15	·1015					
	***	16. 0	·1011					
19. 33	43. 30	16. 40	·1016					
20. 20	45. 0	18. 35	·1015					
21. 16	45. 0	19. 0	·1012					
23. 59	50. 40	20. 0	·1013					
		23. 20	·1004					
May 7		May 7		May 7		May 7		
0. 0	21. 50. 45	0. 15	·1003	0. 14	·01304	1. 40	57 ·0	58 ·5
1. 0	52. 30	2. 0	·1002	1. 40	·01256	3. 40	59 ·6	60 ·0
4. 20	50. 0	3. 41	·1006	2. 59	·01145	9. 40	59 ·0	60 ·0
	***	3. 48	·1011	5. 35	{·00818	21. 40	53 ·0	54 ·5
8. 40	47. 35	4. 8	·1012		{·00910			
9. 30	40. 20	4. 20	·1022	7. 30	·00846			
10. 15	45. 0	5. 3	·1013	11. 30	·01100			
10. 28	44. 0		***	13. 20	·01247			
10. 45	46. 35	6. 30	·1019	13. 40	·01212			
11. 5	45. 30	6. 42	·1026	16. 30	·01297			
11. 46	48. 20	7. 15	·1016	19. 0	·01370			
12. 7	47. 5	8. 30	·1016	21. 30	·01482			
	***	9. 0	·1010	23. 45	·01537			
13. 15	48. 0	9. 47	·1017					
14. 0	49. 35	10. 22	·1007					
14. 55	48. 40	10. 37	·1013					
15. 30	46. 30	11. 13	·1008					
16. 53	49. 0	12. 37	·1007					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 7		May 7						
h m	° ′ ″	h m		h m		h m	°	°
17. 36	21. 46. 30	13. 27	·1016					
18. 0	45. 30	14. 25	·1015					
	***	15. 33	·1015					
20. 48	45. 30	16. 0:	·1013					
23. 59	53. 5	16. 20	·1010					
		16. 48	·1013					
		17. 8	·1019					
		18. 30	·1020					
		20. 30	·1010					
		21. 30	·1002					
		22. 18	·0996					
		22. 45	·1000					
		23. 58	·1005					
May 8		May 8		May 8		May 8		
0. 0	21. 53. 10	0. 10	·1005	0. 25	·01536	1. 40	55 ·0	56 ·0
1. 31	58. 35	1. 15	·1007	1. 30	·01615	3. 40	56 ·0	57 ·5
	***	1. 32	·1008	3. 20	·01600	9. 40	57 ·5	58 ·0
2. 35	56. 40	2. 5:	·1004	6. 0	·01480	21. 40	49 ·5	50 ·0
3. 16	59. 0	2. 50	·1015	9. 15	·01292			
3. 30	56. 10	3. 15	·1014	10. 30	·01230			
3. 40	57. 30	3. 20	·1019	11. 15:	·01172			
	***	3. 32	·0996	14. 0	·01337			
4. 25	57. 0	3. 38	·1004	15. 58	·01634			
	***	4. 3	·1012	18. 30	·01600			
5. 13	53. 20	4. 40	·1006	18. 46	·01562			
5. 31	55. 30	4. 50	·1012	22. 15	·01537			
	***	5. 3	·1013	23. 55	·01546			
6. 21	49. 0	5. 10	·1019					
6. 31	51. 35	5. 25	·1019					
7. 5	48. 50	5. 34	·1010					
	***	6. 5	·1019					
7. 25	49. 50	6. 15	·1014					
	***	6. 30	·1014					
8. 20	43. 0	6. 47	·1001					
8. 41	43. 35		***					
9. 1	38. 0	7. 25	·1020					
9. 45	44. 0	7. 55	·1001					
10. 8	45. 0	8. 15	·1008					
10. 15	44. 0		***					
10. 29	49. 0	8. 50	·1005					
10. 40	38. 20	9. 3	·1012					
11. 0	45. 40	9. 13	·1000					
11. 29	41. 25	9. 55	·0994					
11. 42	43. 30	10. 30	·1024					
11. 50	41. 25	10. 45	·1043					
12. 30	48. 0	11. 20	·0999					
12. 45	45. 30	12. 47	·1000					
13. 16	49. 35	12. 55	·1006					
13. 36	47. 0	13. 28	·1014					
14. 15	45. 5	14. 15	·1009					
14. 36	45. 40	15. 20	·1008					
15. 46	43. 15	16. 55	·1008					
16. 4	44. 25	18. 42	·1016					
16. 30	43. 30	18. 55	·1019					
	***	20. 30	·1005					
17. 7	45. 5	21. 40	·0998					
18. 2	50. 35	22. 45	·0993					
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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		May 8						
h m	° ′	h m		h m		h m	°	°
18. 59	21. 46. 35	23. 36	·0994					
19. 58	48. 15							
	***							
21. 15	47. 50							
23. 44	55. 30							
May 9		May 9		May 9		May 9		
0. 0	21. 55. 30	0. 0	·0994	0. 0	·01517	1. 40	54 ·0	55 ·0
	***	1. 10	·0994	1. 0	·01487	3. 40	57 ·5	57 ·5
1. 45	56. 40	1. 40:	·1002	3. 45	·01048	9. 40	58 ·5	59 ·0
4. 10	50. 0	2. 0	·0999	6. 15	·00965	21. 40	56 ·0	56 ·8
	***	5. 2	·1000	8. 0	·00984			
8. 35	47. 20	5. 25	·0990	9. 44	·00950			
9. 0	43. 55	6. 13	·0993	9. 47	·00900			
10. 0	42. 30	6. 47	·1005	11. 30	·00900			
10. 30	44. 0	7. 0	·1005	14. 30	·01074			
	***	7. 12	·1007	18. 15	·01100			
11. 30	47. 5	7. 29	·1001	22. 0	·01016			
12. 0	49. 40	7. 42	·0991	23. 35	·00920			
12. 20	48. 15	8. 8	·0993					
12. 30	49. 0	8. 15	·0992					
13. 29	45. 20	9. 8	·0998					
14. 10	44. 55	9. 17	·1002					
14. 45	42. 0	9. 45	·1003					
15. 22	41. 20	10. 0	·0998					
16. 5:	45. 10	10. 50	·0991					
16. 31	44. 30	13. 0	·1002					
18. 15	43. 0	13. 28	·1010					
21. 55	48. 20	14. 22	·1002					
23. 45	54. 15	14. 50	·1006					
		16. 6	·1004					
		16. 15	·1006					
		16. 42	·1006					
		17. 47	·1012					
		20. 25	·0997					
		23. 50	·0984					
May 10		May 10		May 10		May 10		
0. 0	21. 54. 30	0. 8	·0987	0. 0	·00942	1. 40	59 ·0	61 ·0
0. 36:	57. 0	0. 57:	·0996	2. 0	{·00850	3. 40	61 ·7	62 ·5
1. 16	56. 30	1. 16	·0991		{·00917	9. 40	63 ·0	63 ·0
	***	1. 25	·0996	3. 0	·00940	21. 40	56 ·5	57 ·0
1. 45	57. 0	1. 38	·0993	6. 0	·00862			
	***	1. 45	·0997	10. 0	·00905			
2. 30	53. 50	1. 54	·0991	12. 0	·00983			
3. 35	52. 0	2. 27	·0993	13. 0	·01030			
4. 0	52. 35	2. 50	·1006	16. 0	·01360			
4. 29	51. 0	3. 17	·1007	18. 30	·01615			
5. 0	53. 0	3. 25	·1013	20. 45:	·01698			
5. 20	51. 30	3. 32	·1008	22. 15	·01674			
5. 50	51. 35	4. 30	.1016	23. 15:	·01700			
6. 20	47. 30	5. 35	·1013	23. 35	·01686			
8. 55	49. 20	6. 30	·1014					
10. 30	50. 5	7. 30	·1019					
	***	8. 15	·1017					
12. 30	48. 5	8. 55	·1009					
12. 51	46. 0	9. 3	·1010					
13. 30	38. 30	9. 21	·1007					

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. 10		May. 10						
h m	° ′ ″	h m		h m		h m	°	°
13. 48	21. 42. 0	9. 30	·1010					
14. 0	41. 15	10. 33	·1011					
14. 36	47. 0	10. 50	·1009					
	***	12. 16	·1014					
15. 33	47. 25	12. 25	·1012					
16. 5	46. 5	12. 43	·1010					
16. 15	48. 10	12. 57	·1020					
16. 55	43. 20	13. 8	·1016					
17. 15	44. 50	13. 13	·1019					
17. 26	44. 0	13. 26	·1010					
	***		***					
18. 37	48. 40	14. 30	·1002					
	***	15. 30	·1007					
19. 46	44. 55	16. 13	·1013					
	***	16. 45	·1000					
20. 39	45. 10	17. 0	·1015					
	***	17. 38	·1098					
21. 29	49. 0	17. 43	·1003					
21. 45	47. 50	17. 55	·1098					
22. 8	48. 30	18. 5	·1083					
	***	18. 20	·1093					
22. 46	54. 30	19. 2	·1093					
	(†)	20. 10	·1006					
		20. 22	·1004					
		21. 3	·1013					
		21. 51	·1014					
		22. 30:	·1091					
		22. 55	·1093					
			(†)					
May 11		May 11		May 11		May 11		
0. 49	21. 58. 40	0. 46	·0987	1. 40	·01663*	1. 40	59 ·0	60 ·0
1. 7	58. 0	1. 57	·0984	3. 40	·01489*	3. 40	61 ·0	61 ·5
1. 31	58. 40	2. 17	·0990	9. 40	·01041*	9. 40	62 ·0	62 ·5
1. 49	57. 10	3. 30	·0991	21. 40	·01595*	21. 40	52 ·5	53 ·0
5. 38	51. 30	3. 43	·0995					
5. 55	51. 45		***					
7. 41	48. 35	5. 33	·0994					
8. 20	42. 20	5. 47	·1005					
8. 40	43. 55	6. 7	·0992					
9. 0	41. 0	6. 40	·1003					
9. 28	44. 20	6. 45	·1001					
9. 44	44. 0	6. 52	·1012					
10. 30	48. 5	7. 10	·1006					
10. 51	48. 0	7. 37	·1006					
11. 9	49. 15	7. 45	·0997					
	***	8. 5	·0990					
12. 1	49. 30	8. 20	·0994					
12. 15	51. 0	8. 32	·1002					
12. 31	51. 20	8. 50	·0988					
13. 6	48. 25		***					
13. 30	48. 35	9. 15	·1000					
13. 50:	50. 30	10. 18	·1000					
14. 13	48. 35	10. 25	·0995					
	***	11. 0	·1004					
14. 30	49. 40	11. 30	·1004					
14. 59	44. 30	12. 20	·1007					
	***	13. 50	·1011					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 11		May 11						
h m	° ′ ″	h m		h m		h m	°	°
15. 25	21. 49. 0	14. 20	·1007					
15. 51	48. 0	14. 30	·1013					
16. 35	49. 50	15. 5	·1013					
16. 45	48. 35	15. 25	·1005					
16. 56	49. 25	15. 47	·1010					
17. 15	48. 0	16. 55	·1009					
17. 45	51. 5	17. 55	·1013					
18. 4	49. 10	20. 25	·1010					
18. 41	49. 35	22. 0	·1006					
19. 16	47. 10	22. 48	·0997					
	***	23. 20	·0996					
22. 16	49. 5	23. 41	·0992					
22. 46	51. 50	23. 59	·0994					
23. 3	51. 15							
23. 40	54. 30							
23. 59	53. 40							
May 12		May 12		May 12		May 12		
0. 0	21. 53. 40	0. 0	·0993	0. 15	·01568	1. 40	54 ·0	55 ·0
	***	0. 45	·0997	2. 30	·01564	3. 40	56 ·5	56 ·5
1. 31	54. 45	1. 20	·1002	4. 30:	·01440	9. 40	57 ·0	58 ·0
1. 45	45. 15	2. 31	·1010	5. 35:	·01266	23. 26	49 ·0	50 ·0
2. 21	54. 50	2. 40	·1006	6. 35	·01198			
2. 40	53. 20	4. 25	·1012	10. 0	·01057			
6. 25	50. 10	5. 40:	·1005	11. 30	·01083			
7. 26	50. 0	5. 59	·1016	14. 0:	·01187			
8. 40	44. 30	6. 17:	·1004	17. 14	·01610			
9. 21	48. 0	6. 43	·1023		·01533			
10. 0	46. 0	6. 55	·1004	18. 0	·01520			
10. 31	48. 30	8. 10	·1009	18. 55	·01540			
	***	8. 15	·1005	19. 15	·01500			
11. 16	48. 5	9. 3	·1013	21. 0	·01508			
11. 55	46. 10	10. 5	·1008	23. 25	·01511			
12. 9	48. 35	10. 31	·1012					
12. 24	47. 0	11. 2	·1009					
12. 34	48. 0	11. 10	·1014					
13. 23	45. 5	11. 20	·1012					
13. 50	51. 10	11. 35	·1021					
14. 15	53. 40	11. 50	·1025					
14. 46	46. 30	12. 0	·1022					
15. 8	46. 0	12. 10	·1026					
15. 31	49. 10	12. 50	·1008					
16. 15	48. 30	13. 57	·1011					
16. 40	47. 0	14. 42	·1029					
	***	15. 32	·1010					
17. 30	48. 40	16. 0	·1014					
17. 45	51. 30		***					
18. 2	50. 10	17. 25	·1012					
	***	18. 5	·0997					
19. 0	50. 30	19. 45	·1013					
19. 30	47. 30	21. 0	·1007					
20. 56	44. 45	22. 50	·0997					
	***	23. 15	·1002					
23. 59	52. 35	23. 27	·0995					
May 13		May 13		May 13		May 13		
0. 0	21. 52. 40	0. 0	·1006	0. 10	·01480	11. 7	50 ·5	50 ·0
	***		***	2. 44	·01484	21. 40	49 ·0	51 ·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 13		May 13		May 13				
h m	° ′ ″	h m		h m		h m	°	°
0. 47	21. 55. 10	0. 50:	·1007	4. 0	·01463			
1. 45	55. 25		***	4. 33	·01500			
2. 23	54. 0	1. 33	·1027	8. 55	·01348			
	***		***	9. 33	·01340			
3. 29	54. 10	2. 35	·1030	10. 2	·01305			
3. 45	52. 20	2. 50	·1036	11. 55	·01223			
4. 8	41. 15	3. 7	·1025	17. 26	·01290			
4. 22	41. 5	3. 20	·1032	17. 53	·01286			
4. 34	45. 0	3. 32	·1044	21. 13	·01306			
5. 29	48. 35	4. 0	·1012	23. 59	·01210			
6. 29	49. 30	4. 12	·1026					
7. 20	49. 15	4. 19	·1044					
7. 51	50. 30		***					
8. 54	49. 35	4. 40	·1049					
9. 21	50. 30	5. 12	·1026					
14. 45	48. 50	5. 42	·1032					
14. 51	49. 50	6. 0	·1024					
15. 14	48. 45	6. 30	·1033					
15. 30	50. 5	6. 35	·1027					
	***	6. 50	·1041					
15. 47	50. 10	7. 7	·1031					
16. 1	48. 20	7. 33	·1026					
	***	7. 42	·1032					
16. 35	48. 40	8. 0	·1030					
16. 55	50. 0	8. 4	·1034					
	***	8. 33	·1026					
17. 28	48. 20	9. 35	·1029					
	***	13. 20	·1030					
19. 0	48. 40	13. 25	·1026					
19. 33	45. 30		***					
20. 32	46. 0	16. 40	·1024					
	***	19. 5	·1020					
21. 51	47. 45	22. 40	·0997					
23. 59	54. 10	23. 50	·1006					
May 14		May 14		May 14		May 14		
0. 0	21. 54. 15	0. 58	·1007	1. 15	·01198	1. 40	52 ·0	53 ·0
0. 45	58. 15		***	2. 6	·01150	3. 40	54 ·5	55 ·0
1. 0	58. 0	1. 42	·1000	3. 0	·01044	9. 40	57 ·0	57 ·0
1. 11	56. 40		***		***	21. 40	49 ·0	50 ·0
1. 25	57. 5	2. 38	·1018	5. 12	·00754			
1. 50	55. 20	3. 8	·1002	8. 30	·00766			
2. 5	56. 50	3. 19	·1021	11. 15	·00720			
2. 53	56. 0	3. 29	·1014	13. 36:	·00780			
3. 7	53. 30		***	15. 0	·00862			
3. 16	53. 0	4. 39	·1008	18. 30	·01254			
3. 30	50. 25	4. 52	·1026	21. 15	·01526			
	***		***	21. 35	·01520			
4. 20	52. 55	6. 0	·1012	22. 0	·01454			
	***	6. 14	·1022	23. 59	·01472			
4. 45	52. 30	6. 30	·1009					
	***	6. 50	·1012					
5. 56	50. 10	7. 7	·1012					
6. 46	50. 20	7. 22	·1006					
7. 30	46. 40	8. 15	·1017					
	***	8. 33	·1008					
8. 1	49. 0	8. 55	·1010					
8. 15	48. 30	9. 5	·1008					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 14		May 14						
h m	° ′ ″	h m		h m		h m	°	°
11. 30	21. 50. 5	10. 0	·1011					
12. 5	48. 25		***					
13. 28	49. 55	12. 5	·1012					
14. 10	49. 50	12. 32	·1014					
14. 44	48. 35		***					
15. 30	50. 0	14. 20	·1016					
	***	15. 10	·1013					
17. 50	48. 0	15. 32	·1016					
	***	17. 42	·1018					
18. 14	51. 10	18. 0	·1017					
18. 40	49. 5	18. 10	·1010					
18. 49	49. 0	19. 20	·1013					
19. 5	47. 45	19. 30	·1018					
19. 29	49. 40	20. 10	·1014					
19. 45	47. 15	20. 17	·1016					
	***	21. 28	·1007					
20. 49	46. 10	22. 3	·0996					
21. 11	49. 0		***					
	***	22. 46	·1004					
23. 0	49. 50	22. 59	·0998					
23. 44	52. 0	23. 3	·1003					
		23. 42	·1002					
May 15		May 15		May 15		May 15		
0. 15	21. 53. 0	0. 12	·0997	0. 15	·01462	1. 40	52 ·0	53 ·0
1. 44	55. 40	1. 18	·1002	2. 6	·01440	3. 40	54 ·0	55 ·0
3. 19	56. 0	2. 25	·0994	3. 15	·01404	9. 40	55 ·5	57 ·0
3. 39	53. 5	2. 36	·1002	6. 30:	·01132	21. 40	52 ·0	53 ·0
4. 2	53. 30	2. 52	·0997	11. 15	·00917			
4. 14	52. 25	3. 28	·1007	12. 15	·00918			
	***	3. 40	·1005	15. 45	·01017			
4. 36	52. 35	4. 5	·1018	19. 15	·01284			
4. 50	50. 40	4. 22	·1006	19. 20	·01250			
5. 16	42. 0	4. 55	·1013	22. 0	·01300			
5. 45	48. 0	5. 3	·1012	23. 45	·01278			
6. 0	47. 30	5. 16	·1037					
6. 29	48. 35	5. 32	·1036					
8. 15	49. 20	5. 56	·1010					
8. 54	48. 5	6. 10	·1008					
9. 4	48. 30	6. 31	·1015					
9. 38	45. 35	6. 45	·1011					
10. 8	48. 35	8. 2	·1011					
	***	8. 20	·1006					
11. 16	48. 30	8. 38	·1013					
11. 43	50. 35	9. 36	·1004					
12. 0	49. 50	9. 46	·1012					
12. 14	50. 0		***					
12. 39	48. 20	10. 52	·1004					
13. 0	50. 10	11. 5	·1011					
13. 35	48. 40	11. 26	·1007					
13. 46	48. 0	12. 30	·1009					
14. 30	51. 0	12. 43	·1017					
15. 0	51. 0	13. 42	·1007					
15. 21	55. 40	15. 20	·1020					
16. 8	44. 55	15. 30	·1024					
	***	17. 12	·1005					
18. 15	46. 0	18. 0	·1007					
	***	19. 35	·1005					

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 15		May 15						
h m	° ′ ″	h m		h m		h m	°	°
20. 54	21. 44. 20	21. 10	·0996					
	***	22. 0	·0987					
22. 46	49. 30	22. 15	·0980					
23. 15	49. 0	22. 54	·0979					
23. 59	50. 35		***					
		23. 45	·0992					
May 16		May 16		May 16		May 16		
0. 0	21. 50. 40	0. 0	·0991	0. 0	·01280	1. 40	54 ·0	54 ·5
2. 23	55. 20	1. 45	·1004	2. 0	·01240	3. 40	56 ·0	57 ·0
4. 35	51. 0		***	6. 0	·00908	9. 40	57 ·0	57 ·5
4. 49	51. 15	4. 18	·1009	7. 30:	·00800	21. 40	51 ·5	52 ·0
5. 5	49. 10	4. 36	·0996	11. 40	·00790			
	***	4. 55	·0997	14. 0	·00903			
5. 45	49. 40	5. 2	·1002	17. 45	·01286			
10. 37	49. 55	5. 18	·0995	20. 50	·01582			
11. 31	46. 30	5. 30	·1004	21. 30:	·01517			
11. 48	46. 0	5. 42	·0998	23. 59	·01417			
12. 35	49. 10	6. 2	·0997					
13. 40	50. 0	8. 12	·1002					
	***	10. 47	·1002					
16. 6	49. 5	11. 5	·1006					
16. 30	50. 0	11. 27	·1000					
	***	17. 45	·1014					
18. 7	48. 25	18. 15	·1011					
	***	18. 25	·1004					
20. 17	51. 15	18. 45	·1005					
21. 0	49. 0	19. 40	·0991					
21. 45	48. 40		***					
23. 59	55. 30	20. 45	·0996					
		22. 15	·0987					
			***					
		23. 10	·0975					
			***					
		23. 59	·0980					
May 17		May 17		May 17		May 17		
0. 0	21. 56. 0	0. 0	·0981	0. 30	·01360	1. 40	55 ·0	56 ·5
0. 35	57. 5		***	2. 30	·01048	3. 40	58 ·5	59 ·5
	***	2. 17	·0988	3. 12	·00902	9. 40	60 ·0	61 ·0
2. 36	55. 40		***		·00940	21. 40	54 ·0	54 ·5
3. 20	53. 0	2. 58	·0975	4. 17	·00880			
5. 15	50. 35	3. 20	·0991	7. 15	·00860			
6. 29	46. 30	4. 15	·0997	11. 0	·00838			
8. 0	48. 15	4. 26	·0993	12. 20:	·00860			
13. 51	49. 55	5. 15	·1004	15. 40	·01127			
14. 1	51. 50	5. 53	·0986	20. 0	·01660			
14. 21	52. 0		***		·01597			
	***	6. 43	·1000	22. 15	·01638			
15. 14	48. 35	7. 6	·0995		·01434			
16. 44	48. 30	7. 25	·1000	23. 59	·01352			
17. 0	47. 0	7. 48	·0995					
17. 30	48. 0	10. 55	·0996					
17. 45	47. 10	13. 55	·1001					
18. 3	49. 0	14. 32	·0999					
18. 15	48. 50	17. 25	·1006					
18. 25	50. 10	17. 40	·1001					
19. 0	50. 15	18. 42	·1001					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
May 17		May 17						
h m	° ′ ″	h m		h m		h m	°	°
20. 7	21. 45. 35	19. 15	·1006					
	***	21. 30	·0990					
21. 32	46. 0		***					
	***	23. 5	·0977					
22. 36	52. 20	23. 59	·0975					
23. 59	53. 10							
May 18		May 18		May 18		May 18		
0. 0	21. 53. 5	0. 0	·0975	0. 15	·01306	1. 40	59 ·0	59 ·0
0. 31	54. 15	2. 50	·0969	1. 35	·01168	3. 40	63 ·0	64 ·0
2. 29	53. 15	3. 0	·0972	2. 35	·00959	9. 40	63 ·5	64 ·0
3. 55	50. 0	3. 12	·0966	4. 32	·00968	21. 40	56 ·0	57·0
8. 5	45. 0	5. 12	·0983		·01046			
10. 40	47. 30	5. 27	·0979	6. 33	·00964			
11. 35	46. 35	5. 58	·0987	10. 15	·01040			
12. 0	50. 35	6. 15	·0980	12. 5	·01152			
12. 16	48. 20	6. 49	·0982	14. 15	·01330			
13. 45	48. 55	7. 18	·0986	17. 16	·01660			
14. 9	48. 0	8. 47	·0985	20. 0	·01670			
20. 0	44. 15	9. 2	·0980	22. 30	·01650			
22. 5	46. 30	9. 23	·0985	23. 59	·01552			
23. 0	50. 10	10. 3	·0979					
23. 59	51. 0	10. 12	·0983					
		12. 40	·0991					
		13. 5	·0985					
		16. 14	·0995					
		19. 15	·0995					
		19. 45	·0992					
			(†)					
May 19		May 19		May 19		May 19		
0. 0	21. 51. 5	0. 31	·0974	0. 30	·01516	1. 40	60 ·0	61 ·0
0. 30	54. 55	2. 28	·0977	2. 0:	·01360	3. 40	63 ·0	65 ·0
2. 35	55. 10	2. 41	·0982	3. 49	·00952	9. 40	56 ·5	57 ·0
4. 40	51. 30		***		·01004	23. 14	59 ·5	61 ·0
7. 0	48. 30	3. 43	·0983	5. 45	·00968			
7. 53	49. 5	4. 4	·0986	8. 30	·00972			
8. 51	49. 30	4. 11	·0970	12. 20	·01007			
9. 10	48. 30	4. 17	·0987	14. 30	·01182			
10. 25	48. 0	4. 43	·0988	17. 15	·01426			
11. 30	50. 0	4. 48	·0992	20. 35	·01720			
15. 15	50. 20	5. 27	·0985		·01697			
17. 0	48. 30	5. 47	·0987	22. 0	·01708			
19. 10	45. 0	6. 7	·0980	23. 30	·01686			
20. 20	46. 0	7. 32	·0992					
22. 0	48. 40	9. 15	·0982					
23. 59	53. 0	13. 7	·0984					
		15. 20	·0992					
		18. 0	·0992					
		19. 37	·0987					
		21. 46	·0978					
		23. 32	·0977					
May 20		May 20		May 20		May 20		
0. 0	21. 53. 10	0. 0	·0973	0. 0	·01645	10. 42	66 ·0	66 ·5
1. 0	55. 20		***	2. 33:	·01462	21. 40	56 ·0	56 ·8
2. 20	54. 0	2. 52	·0987	4. 28	·01342			
4. 2	50. 35	3. 16	·0976	5. 48	·01150			
10. 5	48. 0		***	7. 30	·00986			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 20		May 20		May 20				
h m	° ′ ″	h m		h m		h m	°	°
10. 44	21. 44. 40	4. 7	·0975	7. 40	·01014			
11. 55	43. 5	4. 24	·0987	11. 15	·01119			
12. 46	44. 0	4. 42	·0989	13. 16	·01270			
13. 25	46. 0	5. 3	·0982	15. 5	·01463			
15. 15	46. 55	5. 31	·0986	16. 40	{·01721			
16. 31	44. 45	5. 40	·0982		{·01680			
17. 0	46. 0	6. 2	·0989	21. 28	·01639			
21. 36	47. 15	6. 20	·0985	22. 55	{·01630			
23. 0	49. 0	6. 33	·0991		{·01428			
23. 6	49. 40	7. 7	·0993	23. 59	·01425			
		9. 7	·0995					
		9. 28	·0991					
		9. 38	·0984					
		9. 55	·0995					
		10. 10	·0986					
		10. 20	·0989					
		10. 38	·0982					
		11. 10	·0991					
		11. 25	·0984					
		12. 0	·0988					
		12. 44	·0981					
			***					
		15. 0	·0994					
		18. 18	·1002					
			(†)					
May 21		May 21		May 21		May 21		
0. 48	21. 56. 0		(†)	1. 17	·01398	1. 40	56 ·5	57 ·0
1. 40	57. 20	1. 36	·1004	5. 15	·01304	3. 40	58 ·5	59 ·0
3. 31	52. 15	2. 52	·1014	8. 0	·01160	9. 40	59 ·5	60 ·0
5. 5	51. 30	3. 20	·1011	10. 44:	·01122	21. 40	55 ·0	56 ·0
5. 59	50. 0	4. 0	·1017	13. 58	·01270			
11. 15	50. 5	4. 27	·1008	15. 42	·01392			
11. 59	48. 35	4. 48	·1011	15. 57	·01360			
12. 47	49. 10	5. 12	·1004	17. 28	·01434			
13. 0	50. 0	5. 40	·1002	21. 2	·01504			
13. 34	48. 40	5. 58	·1010	23. 25	·01482			
14. 23	51. 0	6. 26	·1012					
14. 50	49. 5	6. 30	·1008					
15. 20	49. 30	7. 3	·1014					
16. 15	47. 35		***					
16. 45	48. 30	7. 40	·1011					
18. 0	46. 0	7. 45	·1014					
	***	10. 30	·1010					
19. 10	44. 30	13. 0	·1007					
20. 45	45. 0	15. 50	·1010					
22. 1	47. 30	17. 40	·1015					
23. 59	53. 0	19. 5	·1014					
		22. 0	·1000					
		23. 20	·0994					
May 22		May 22		May 22		May 22		
0. 0	21. 53. 10	0. 0	·0990	0. 0	·01516	1. 40	56 ·0	57 ·0
1. 30:	56. 0	0. 48	·0992	1. 58	·01534	3. 40	57 ·5	58 ·5
5. 22	49. 5	3. 45	·0998	3. 15:	·01489	9. 40	61 ·5	62 ·0
6. 47	48. 0	5. 13	·1005	8. 40	·00906	21. 40	56 ·0	56 ·5
10. 15	49. 20	5. 24	·0998	10. 55	·00808			
15. 0	48. 35	6. 2	·1005	13. 30:	·00936			
17. 0	50. 0	8. 3	·1006	16. 0	·01202			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 22		May 22		May 22				
h m	° ′ ″	h m		h m		h m	°	°
17. 22	21. 49. 0	10. 15	·1004	18. 55	·01600			
	***	13. 15	·1003	19. 16	·01537			
19. 50	47. 50	16. 47	·1012	21. 15:	·01564			
21. 35	49. 40	17. 30	·1016	22. 45	·01530			
23. 59	55. 0	18. 0	·1015					
		19. 12	·1015					
		22. 26	·0995					
		22. 42	·0996					
		23. 59	·0987					
May 23		May 23		May 23		May 23		
0. 0	21. 55. 5	0. 0	·0987	0. 0	·01469	1. 40	58 ·5	60 ·0
0. 45	56. 0		***	2. 37	·01228	3. 40	61 ·5	62 ·0
1. 37	55. 50	3. 42	·0990		(†)	9. 40	62 ·0	63 ·0
3. 45	51. 40	5. 13	·1002	3. 40	·01067*	21. 40	56 ·0	57 ·0
5. 45	48. 45	5. 25	·0997		(†)			
9. 48	49. 30	5. 32	·1006	10. 0	·00810			
15. 17	49. 20	7. 30	·1007		(†)			
16. 44	48. 20	8. 20	·1004	21. 40	·01515*			
	***	11. 5	·1007		(†)			
19. 21	46. 0	11. 56	·1005					
22. 21	53. 0	14. 10	·1011					
22. 45	52. 25	17. 0	·1015					
	(†)	21. 0	·1004					
		22. 33	·1004					
			(†)					
May 24		May 24		May 24		May 24		
1. 40	21. 54. 36*	1. 40	·0978	0. 0	·01362	1. 40	62 ·0	63 ·0
3. 40	53. 57*	3. 40	·0989	1. 40	{·01200	3. 40	65 ·0	66 ·0
9. 40	49. 6*	9. 40	·1036		{·01090	9. 40	67 ·5	67 ·5
21. 40	48. 5*	21. 40	·1039	3. 5	·00844	21. 40	61 ·0	62 ·0
				3. 45	·00882			
				7. 15	·00828			
				10. 0	·00837			
				12. 45	·00900			
				13. 50	·00923			
				15. 15	·01058			
				18. 0	·01417			
				20. 12	{·01700			
					{·01617			
				22. 45	·01602			
May 25		May 25		May 25		May 25		
0. 0	21. 53. 0	0. 0	·1016	0. 0	·01514	1. 40	66 ·0	66 ·5
0. 16	54. 40	0. 13	·1012	1. 30:	·01354	3. 40	68 ·5	69 ·0
0. 47	52. 20	0. 20	·1016	3. 29	·00942	9. 30	72 ·0	73 ·0
1. 1	56. 25	0. 42	·0992	7. 45	·00864	21. 40	65 ·0	65 ·5
1. 14	54. 50	1. 2	·1021	11. 0	·00885			
2. 0	55. 40	1. 10	·1007	12. 30:	·00940			
3. 10	54. 20	1. 17	·1008	16. 0	·01328			
3. 40	52. 50	1. 26	·1017	18. 15	·01700			
6. 8	49. 0	1. 38	·1012	18. 17	·01640			
8. 40	48. 15	1. 47	·1017	21. 30	·01640			
16. 45	47. 0	1. 57	·1015	23. 20	·01412			
20. 22	44. 40	2. 1	·1018					
23. 0	51. 35	2. 50	·1002					
23. 30	52. 0		***					
23. 59	52. 30							

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

May $23^{d}.\ 2^{h}.\ 40^{m}$. The Vertical Force time-piece stopped; it was started at $6^{h}.$; the change of force within those times was $-0'004$. It stopped again at 10^{h}, and the change of force between $10^{h}.$ and $23^{h}.$ was $+0'008$.

May 24. The time-piece having stopped, the Photographic Traces for the Horizontal Force and Declination Magnets cannot be used.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		h m		h m	°	°
		May 25						
		4. 42	·1012					
			***					
		7. 5	·1010					
			***					
		13. 45	·1024					
		16. 26	·1030					
		16. 33	·1026					
		18. 10	·1028					
		19. 9	·1027					
		19. 50	·1018					
		23. 30	·1006					
May 26		May 26		May 26		May 26		
0. 0	21. 52. 35	0. 0	·1005	0. 0	·01314	1. 40	72 ·0	73 ·0
1. 47	55. 5	0. 50	·1006	2. 10	·00900	3. 40	76 ·0	77 ·0
3. 15	51. 25		***		·00953	9. 40	75 ·0	75 ·5
4. 45	49. 20	1. 17	·0974	5. 0	·00844	23. 30	68 ·0	69 ·0
6. 36	50. 0	1. 33	·0974	6. 38	·00804			
8. 16	49. 15	1. 49	·0960	9. 15	·00920			
8. 32	50. 0	1. 51	·0990	14. 30	·01486			
9. 0	48. 30		***	15. 18	·01620			
9. 14	49. 5	3. 27	·0993		·01546			
9. 56	46. 0		***	17. 15	·01580			
	***	4. 48	·1007	20. 30	·01527			
12. 5	48. 10	6. 16	·1011	23. 0	·01476			
12. 49	46. 20	6. 58	·1015					
13. 51	46. 30	7. 3	·1011					
	***	7. 15	·1019					
15. 5	42. 0	7. 50	·1021					
15. 44	44. 50	8. 0	·1014					
15. 59	43. 40	8. 17	·1009					
16. 14	44. 20	8. 37	·1011					
17. 0	42. 40	8. 52	·1002					
17. 5	44. 35	9. 10	·1006					
17. 15	42. 30	9. 18	·1004					
	***	10. 5	·1011					
17. 46	44. 0	10. 17	·1002					
18. 8	41. 0	10. 25	·1010					
	***	10. 33	·1005					
19. 9	51. 30	10. 53	·1000					
	***		***					
19. 50	55. 10	14. 40	·1022					
20. 5	53. 0	14. 50	·1026					
	***	15. 0	·1018					
20. 46	56. 30	15. 8	·1022					
21. 29	49. 15	17. 8	·1022					
21. 44	49. 50	17. 42	·1028					
22. 15	58. 0	19. 17	·0985					
22. 30	55. 0	20. 12	·1010					
	(†)	21. 17	·1002					
		22. 13	·1000					
		22. 25	·0982					
		22. 30	·0997					
		23. 16	·0090					
May 27		May 27		May 27		May 27		
1. 36	21. 55. 5	0. 0	·1012	1. 0	·01537	9. 40	72 ·5	72 ·5
	***	1. 37	·1019	3. 30	·01342	21. 40	63 ·5	64 ·0
2. 0	56. 0	1. 48	·1014	5. 0	·01180			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected or Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F Magnet.
h m	° ′ ″	h m		h m		h m	°	°
May 27		May 27		May 27				
2. 15	21. 58. 30	2. 13	·1025	7. 0	·00884			
2. 45	55. 35	2. 35	·0993	7. 45	·00818			
2. 59	58. 0	2. 47	·0994		***			
3. 10	56. 30	2. 59	·1018	9. 5	·00762			
3. 20	57. 30		***	10. 15	·00746			
3. 44	54. 0	3. 24	·1018	11. 15	·00780			
	***	3. 30	·0997	14. 15	·01018			
4. 16	54. 0		***	16. 0	·01232			
4. 26	51. 0	3. 55	·0992	16. 45	·01300			
5. 43	48. 0	4. 5	·0994	18. 3	·01517			
6. 45	50. 0	4. 13	·1005		·01450			
7. 17	48. 35	4. 22	·1001	21. 0	·01418			
7. 48	40. 30	4. 45	·1010	23. 49	·01474			
8. 10	43. 45	4. 53	·1006					
8. 30	37. 20	5. 0	·1010					
8. 53	45. 0	5. 5	·1005					
9. 11	43. 25	5. 10	·1009					
9. 39	45. 0	5. 13	·1004					
	***	5. 30	·1022					
10. 22	40. 30	5. 47	·1008					
10. 47	43. 20	6. 2	·1007					
11. 20	42. 0	6. 32	·1017					
	***	7. 12	·1011					
12. 28	47. 0	7. 18	·1011					
12. 45	45. 15	7. 34	·0996					
13. 1	39. 30	8. 0	·1012					
13. 19	39. 0	8. 28	·1014					
13. 48	43. 25	8. 43	·1026					
14. 33	40. 25	9. 2	·1008					
	***	10. 5	·1015					
15. 20	43. 0	10. 17	·1004					
15. 40	41. 0	10. 31	·1006					
16. 0	46. 0	11. 45	·0998					
16. 15	46. 30	11. 55	·1005					
16. 46	54. 40	12. 27	·1008					
17. 0	54. 30	12. 42	·1018					
	***	13. 2	·1017					
18. 21	43. 0	13. 12	·1022					
	***	13. 39	·1022					
19. 15	52. 0	14. 12	·1040					
19. 35	21. 51. 30	14. 48	·1021					
20. 8	22. 0. 0	15. 2	·1029					
20. 39	21. 53. 0	15. 10	·1028					
20. 50	53. 25	15. 30	·1019					
21. 45	51. 0	16. 6	·1023					
	**	16. 28	·0994					
23. 45	56. 20	17. 57	·1024					
23. 59	56. 20	18. 0	·1021					
		18. 5	·1022					
		18. 16	·1018					
		18. 35	·1024					
		18. 57	·1021					
		19. 15	·1015					
		19. 45	·0984					
		20. 17	·1016					
		20. 45	·1024					
		22. 58	·1016					
			(†)					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 28	° ′ ″	May 28		May 28		May 28	°	°
h m		h m		h m		h m		
1. 40	21. 55. 7*	0. 45	·1018	1. 0	·01486	1. 40	62 ·0	63 ·0
3. 40	51. 18*	1. 40	·1024	3. 35	·01582	3. 40	63 ·0	63 ·5
9. 40	46. 35*	2. 13	·1034		·01550	9. 40	61 ·0	62 ·5
21. 40	48. 49*	2. 47	·1032	9. 14	·01561	21. 40	51 ·5	52 ·5
		3. 11	·1012	9. 59	·01550			
		3. 40	·1038	10. 31	·01475			
		5. 35	·1038	14. 30	·01492			
		5. 58	·1048	17. 35	·01460			
		6. 25	·1042		(†)			
		7. 13	·1058					
		8. 10	·1042					
		8. 30	·1059					
		9. 52	·1040					
		10. 10	·1056					
		11. 15	·1037					
		17. 0	·1046					
			(†)					
		21. 40	·1031*					
May 29		May 29		May 29		May 29		
0. 15	21. 55. 0	0. 15	·1034	0. 0	·01395	1. 40	54 ·0	55 ·0
	***	1. 15	·1032	1. 33	·01400	3. 40	58 ·0	59 ·0
1. 21	57. 0	1. 30	·1022	2. 32:	·01340	9. 40	56 ·0	57 ·0
2. 0	54. 55		***	6. 18	·00838	21. 40	51 ·0	51 ·5
5. 30	49. 40	5. 0	·1027	8. 32:	·00682			
5. 56	50. 5	5. 35	·1022	9. 58	·00716			
6. 35	49. 5	5. 55	·1031	11. 46	·00880			
7. 1	50. 0	6. 15	·1018	14. 45	·01160			
7. 25	48. 35	6. 48	·1019	18. 11	·01482			
7. 55	50. 0	7. 2	·1027		·01399			
8. 4	48. 35		***	20. 14	·01416			
9. 0	50. 40	7. 55	·1034	21. 16	·01400			
10. 0	50. 50		***	22. 16:	·01421			
10. 30	49. 10	9. 0	·1033	23. 59	·01329			
10. 45	49. 50	10. 25	·1035					
11. 48	48. 30	11. 42	·1037					
12. 5	51. 20	12. 47	·1031					
13. 45	51. 0	13. 48	·1042					
14. 15	48. 40	14. 58	·1034					
14. 45	49. 30	16. 30	·1042					
15. 14	52. 25	18. 22	·1032					
15. 51	50. 20	18. 47	·1028					
17. 45	47. 0	21. 0	·1035					
	***	23. 59	·1022					
19. 32	48. 5							
	***							
20. 0	46. 35							
	***							
21. 29	47. 0							
23. 59	53. 50							
May 30		May 30		May 30		May 30		
1. 48	21. 53. 0*	1. 48	·1016*	1. 48	·01240*	1. 48	54 ·0	55 ·0
3. 40	54. 19*	3. 40	·1020*	3. 40	·00971*	3. 40	56 ·5	57 ·0
9. 40	48. 56*	9. 40	·1029*	9. 40	·00556*	9. 40	57 ·0	59 ·0
21. 40	46. 30*	21. 40	·1026*	21. 40	·01266*	21. 40	52 ·5	53 ·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.
May 31	° ′ ″	May 31		May 31		May 31	°	°
h m		h m		h m		h m		
0. 0	21. 51. 25	0. 0	·1030	0. 0	·01181	1. 40	55 ·0	56 ·0
2. 0	54. 30	1. 10	·1026	2. 13	·01042	3. 40	57 ·0	57 ·5
	***	1. 30	·1030	6. 41:	·00627	9. 40	57 ·5	58 ·0
3. 24	54. 0	2. 29	·1023	9. 0	·00540	21. 40	55 ·0	56 ·0
5. 8	50. 40	2. 42	·1030	14. 25:	·00551			
8. 59	49. 35	3. 0	·1027	18. 32	·00848			
9. 26	48. 5	3. 16	·1034	20. 31	·00949			
10. 47	48. 50	4. 4	·1031	22. 6	·00968			
11. 15	47. 30	4. 50	·1035	22. 24	·00858			
	***		***	22. 56	·00871			
13. 0	46. 40	6. 43	·1038					
13. 31	45. 0	7. 0	·1046					
15. 30	47. 0	7. 12	·1041					
18. 0	46. 0	7. 40	·1037					
18. 15	46. 45	8. 43	·1037					
18. 43	45. 15	8. 53	·1039					
19. 30	47. 0	10. 28	·1035					
21. 30	47. 25	11. 10	·1036					
23. 0	50. 15	12. 0	·1046					
		12. 32	·1038					
		13. 15	·1037					
		14. 15	·1040					
		14. 32	·1038					
		14. 50	·1041					
		16. 0	·1040					
		17. 33	·1038					
		19. 52	·1026					
		20. 53	·1031					
		22. 16	·1030					
		23. 4	·1034					
June 1		June 1		June 1		June 1		
0. 15	21. 57. 30	0. 0	·1030	0. 30	·00902	1. 40	56 ·0	57 ·0
3. 45	58. 55	1. 5	·1026	2. 31:	·00918	3. 40	56 ·5	57 ·0
5. 25	56. 10	2. 0	·1034	4. 31	·00778	9. 40	59 ·0	60 ·0
	***	2. 28	·1028	8. 1	·00510	21. 40	54 ·5	55 ·0
10. 35	52. 35	3. 0	·1034		·00600			
11. 6	51. 10	3. 15	·1042	11. 16	·00541			
12. 0	52. 0	4. 15	·1032	15. 0:	·00700			
12. 59	51. 5	4. 30	·1036	19. 18	·01202			
13. 30	53. 0	5. 0	·1031	19. 29	·01172			
14. 2	52. 5	5. 30	·1039	20. 59:	·01216			
14. 32	54. 35	6. 0	·1028	22. 58	·01203			
15. 33	52. 30	6. 27	·1040	23. 0	·01260			
18. 0	49. 0	7. 0	·1032	23. 6	·01245			
19. 45	49. 5	7. 32	·1039		·01200			
21. 55	52. 0	8. 0	·1030	23. 45	·01200			
23. 6	51. 30	11. 50	·1031					
23. 39	56. 30	13. 0	·1026					
		14. 0	·1036					
		15. 30	·1032					
		17. 30	·1034					
		19. 15	·1032					
		21. 30	·1020					
		23. 37	·1022					

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

May 28. The Photographic Trace for the Horizontal Force was very faint, and was lost after 17^h.

May 30. There were no Photographic Traces for the Horizontal Force and Declination Magnets.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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	° ′ ″ (†)	June 2 h m	(†)	June 2 h m	(†)	June 2 h m	°	°
6. 36	21. 52. 40	6. 45	·1030	7. 0	·00792	1. 40	57 ·0	57 ·5
9. 20	52. 20	8. 0	·1026	7. 29:	·00831	9. 40	62 ·0	64 ·0
9. 46	49. 35	8. 45	·1024	9. 30	·00850	23. 10	57 ·0	58 ·0
11. 35	52. 10	10. 15	·1028	11. 20:	·00776			
	***	12. 30	·1032	12. 31	·00832			
16. 8	51. 30	13. 15	·1026	14. 42:	·01100			
19. 38	48. 30	13. 45	·1040	17. 31	·01643			
20. 45	52. 0	16. 0	·1044		·01590			
21. 7	51. 15	17. 30	·1051	21. 45	·01690			
22. 7	52. 0	19. 0	·1051	22. 13:	·01559			
23. 59	56. 35	20. 30	·1036	22. 58	·01460			
		21. 0	·1032	23. 17	·01372			
		22. 15	·1020					
		23. 0	·1016					
		23. 59	·1018					
June 3		June 3		June 3		June 3		
0. 0	21. 56. 40	0. 0	·1030	0. 0	·01208	11. 32	59 ·0	60 ·0
1. 0	22. 0. 30	0. 45	·1034	2. 0	·00770	21. 40	59 ·0	60 ·0
3. 46	21. 57. 0	1. 45	·1046		·00840			
6. 55	50. 40	3. 0	·1040	5. 34	·00900			
7. 53	50. 15	3. 30	·1047	6. 58	·00814			
	(†)	4. 10	·1024	10. 0	·00900			
9. 50	50. 10	5. 15	·1050	14. 15	·01316			
10. 16	46. 35	7. 30	·1046	16. 23	·01620			
11. 25	51. 0	8. 30	·1020	17. 11	·01696			
12. 58	49. 30	9. 0	·1034		·01640			
13. 30:	55. 0	12. 25	·1031	20. 27	·01672			
14. 14	49. 55	14. 0	·1015	22. 13	·01604			
16. 0	50. 0	15. 15	·1022	23. 59	·01448			
17. 16	48. 30	17. 30	·1014					
17. 48	49. 50	18. 30	·1026					
18. 15	48. 25	19. 45	·1030					
18. 31	49. 0	21. 15	·1028					
19. 17	46. 5		(†)					
23. 59	55. 40							
June 4		June 4		June 4		June 4		
0. 45	21. 57. 30	1. 57	·1031*	0. 30	·01382	1. 40	51 ·0	63 ·0
2. 0	59. 0	3. 40	·1016*	1. 30	·01328	3. 40	64 ·5	65 ·0
7. 15	51. 0	9. 50	·1023*	4. 50	·00911	9. 50	63 ·0	63 ·5
	(†)	21. 40	·1034*		·00960	21. 40	59 ·5	60 ·0
10. 15	48. 30			7. 57	·00908			
10. 45	49. 50			8. 24	·00900			
13. 40	48. 35			9. 40	·00913			
14. 14	51. 25			10. 18	·00886			
15. 40	44. 40			11. 15	·00871			
16. 15	46. 45			12. 32	·01022			
	***			14. 58	·01310			
18. 0	45. 50			17. 34	·01721			
19. 30	48. 0				·01655			
20. 35	47. 45			20. 33	·01680			
22. 10	51. 10			20. 40	·01642			
23. 30	52. 50			21. 53	·01639			
23. 59	53. 35			23. 28	·01503			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 5 h m	° ′ ″	June 5 h m		June 5 h m		June 5 h m	°	°
0. 0	21. 53. 40	0. 0	·1020	0. 0	·01475	1. 40	61 ·0	62 ·0
1. 15	56. 0	3. 15	·1022	3. 13	·01139	3. 40	64 ·0	65 ·0
2. 5	56. 0	3. 45	·1016	4. 57	·00873	9. 40	68 ·5	70 ·0
3. 0	53. 30	4. 30	·1020		·00916	21. 40	69 ·0	70 ·0
4. 40	53. 30	6. 0	·1024	7. 44	·00946			
9. 40	49. 30	8. 30	·1024	8. 35	·01024			
10. 0	48. 0	10. 30	·1018	9. 27	·01010			
10. 45	49. 35	11. 0	·1014	11. 25	·00927			
12. 15	48. 45	14. 0	·1015	14. 40	·00950			
12. 44	49. 30	15. 45	·1018	15. 14	·00975			
13. 40	47. 35	18. 45	·1023	19. 16	·01050			
14. 15	47. 40	19. 15	·1012	20. 55:	·01280			
15. 35	48. 30	20. 15	·1008	22. 59	·01073			
16. 31	45. 35	20. 45	·1002					
17. 14	46. 0	22. 30	·1006					
18. 36	48. 0	23. 59	·1002					
19. 55	47. 15							
23. 32	51. 10							
June 6		June 6		June 6		June 6		
0. 0	21. 54. 0	0. 0	·1002	0. 0	·00871	1. 40	73 ·0	74 ·0
3. 44	21. 59. 0	0. 45	·0996		·00945	3. 40	77 ·5	79 ·5
	***	1. 49	·0998	1. 30:	·01044	9. 40	79 ·0	81 ·5
5. 14	22. 1. 35	2. 40	·0988	2. 14	·01060	21. 40	67 ·5	68 ·0
	***	3. 5	·1000		·01120			
5. 54	21. 58. 30	3. 30	·0992		***			
6. 15	53. 0	3. 50	·0982	3. 44	·01000			
6. 52	55. 0	4. 15	·1006		·01060			
8. 51	51. 0	4. 33	·1021		***			
9. 21	51. 25	4. 48	·1009	7. 0	·00949			
10. 31	51. 10	5. 10	·1003	8. 46	·01018			
10. 52	58. 30	5. 15	·1013	10. 0:	·01131			
12. 46	52. 0	5. 45	·0978	11. 0	·01138			
13. 17	41. 20	6. 30	·1010	12. 32	·01220			
15. 1	49. 30	6. 50	·1004	13. 14	·01210			
15. 15	48. 0		***	15. 28	·01600			
16. 17	50. 30	7. 28	·1016	18. 15	·01584			
17. 15	48. 0	7. 40	·0990	18. 45	·01560			
17. 59	51. 50		***	21. 17	·01542			
19. 14	50. 30	8. 40	·0996	23. 56	·01548			
19. 40	52. 30	8. 50	·1023					
20. 30	51. 30	9. 15	·0980					
21. 0	21. 49. 40		***					
22. 5	22. 1. 5	10. 0	·0994					
	(†)		***					
		12. 0	·1013					
		12. 44	·1012					
		13. 5	·1038					
		14. 0	·1010					
			***					
		15. 0	·1021					
			***					
		16. 45	·1026					
			***					
		19. 30	·1034					
		21. 0	·1020					
			(†)					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 7		June 7		June 7		June 7		
h m	° ′ ″	h m		h m		h m	°	°
0. 10	22. 0. 0	0. 0	·1016	0. 0	·01570	1. 40	66 ·0	67 ·0
0. 35	21. 57. 30	1. 0	·1030	2. 32	·01561	3. 40	69 ·0	70 ·5
	***	1. 15	·1014	5. 1:	·01369	9. 40	67 ·0	68 ·0
2. 44	56. 15	1. 30	·1024		***	21. 40	64 ·0	65 ·0
2. 48	57. 50	2. 0	·1014	7. 0	·01284			
3. 16	57. 5	2. 14	·1022	9. 0:	·01320			
3. 24	59. 0	2. 30	·1016	11. 0:	·01399			
	***	2. 50	·1045	13. 4	{·01598			
4. 7	54. 0	3. 14	·1008		{·01500			
	***	3. 30	·1006	14. 27	·01498			
4. 35	55. 20	3. 35	·1016	15. 25	·01480			
5. 0	53. 30		***	16. 0	·01537			
	***	4. 15	·1020	17. 15	·01544			
6. 30	55. 0	4. 34	·1028	18. 0	·01510			
8. 0	51. 40	4. 49	·1040	19. 44	·01562			
9. 53	51. 20	5. 20	·1020	21. 59	·01568			
11. 0	49. 0	5. 32	·1042		(†)			
11. 45	51. 30	5. 55	·1024					
12. 7	50. 0	6. 45	·1035					
	***	7. 0	·1029					
13. 6	55. 30	7. 30	·1033					
13. 46	49. 40	8. 30	·1040					
14. 25	49. 35		***					
15. 0	50. 35	9. 15	·1034					
15. 30	49. 0		***					
17. 15	47. 30	10. 20	·1038					
18. 32	46. 30	13. 0	·1041					
	***	13. 30	·1036					
21. 10	49. 0	14. 15	·1030					
21. 36	50. 20	18. 15	·1049					
	(†)	19. 0	·1042					
		21. 0	·1038					
			(†)					
June 8		June 8		June 8		June 8		
1. 40	21. 55. 54*		(†)	0. 0	·01362	1. 40	64 ·0	65 ·5
3. 40	54. 37*	3. 15	·1020		(†)	3. 40	67 ·0	67 ·5
9. 40	44. 39*	4. 0	·1036	3. 25	·01120	9. 40	68 ·5	70 ·0
21. 40	51. 2*		***		***	21. 40	64 ·0	66 ·0
		4. 52	·1017	6. 30	·00760			
		5. 12	·1036	8. 11:	·00610			
			***	10. 16	·00585			
		7. 2	·1025		***			
		7. 48	·1042	11. 44	·00653			
		7. 58	·1032	14. 43	·00998			
		8. 51	·1033	17. 56	{·01419			
		9. 5	·1051		{·01340			
		9. 32	·1040	21. 59	·01416			
		9. 46	·1046	23. 15	·01401			
		10. 10	·1022	23. 44	·01380			
		10. 57	·1029					
		11. 25	·1021					
		12. 2	·1032					
		12. 50	·1037					
		15. 17	·1036					
		15. 22	·1030					
		17. 7	·1045					
		20. 49	·1024					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 8 h m		h m		June 9 h m	°	°
		21. 3	·1033					
		23. 59	·1030					
June 9		June 9		June 9		June 9		
0. 45	21. 54. 0	0. 45	·1028	1. 0	·01326	1. 40	65 ·0	66 ·0
2. 50	55. 15	1. 35	·1023	3. 44	·00992	3. 40	66 ·5	68 ·0
5. 8	51. 15	3. 0	·1033		***	9. 40	67 ·5	69 ·5
8. 45	51. 0	3. 30	·1028	5. 54	·00669	22. 40	64 ·5	65 ·5
	***	3. 45	·1038	10. 4	·00711			
9. 52	50. 20		***	16. 14	·01279			
10. 38	46. 40	4. 10	·1029	18. 25	{·01511			
10. 51	48. 50	4. 45	·1034		{·01450			
11. 46	49. 50	5. 15	·1024	21. 1	·01511			
12. 14	48. 30	6. 5	·1022	23. 14	·01458			
12. 29	50. 45	6. 45	·1028					
13. 1	49. 30	8. 0	·1031					
13. 24	51. 0	10. 22	·1031					
13. 51	54. 30	10. 45	·1039					
14. 31	51. 10	11. 0	·1033					
14. 44	53. 0	11. 18	·1038					
14. 54	50. 50	12. 30	·1026					
15. 0	51. 0	13. 30	·1030					
15. 29	48. 0	16. 0	·1024					
15. 50	48. 0	16. 45	·1018					
16. 13	50. 0	18. 0	·1027					
16. 27	48. 35		***					
17. 0	50. 0	19. 30	·1023					
17. 23:	52. 55	21. 0	·1019					
	***		***					
18. 25	47. 0	23. 15	·1022					
	***	23. 59	·1017					
21. 0	48. 20							
23. 15	53. 0							
June 10		June 10		June 10		June 10		
0. 0	21. 53. 35	0. 0	·1016	0. 0	·01348	9. 55	73 ·0	73 ·0
3. 0	54. 30	3. 30	·1006	2. 18:	·01062	21. 40	66 ·0	67 ·0
5. 35	51. 0	4. 0	·1009	3. 59	{·00744			
6. 47	50. 35	5. 0	·1012		{·00778			
14. 47	50. 15	5. 45	·1016	7. 35	·00759			
15. 28	51. 0	7. 30	·1011	11. 30	·00739			
16. 4	49. 35	8. 30	·1013	15. 40	·01190			
	***		***	18. 20	{·01545			
16. 55	49. 30	11. 0	·1016		{·01450			
17. 10	51. 0	13. 30	·1021	21. 20	·01472			
20. 0	47. 0		***	22. 44	·01550			
20. 21	47. 0	15. 0	·1022	23. 40	·01533			
21. 0	50. 0	15. 15	·1019	23. 59	·01508			
22. 0	50. 20	15. 40	·1027					
22. 8	49. 15	16. 30	·1030					
22. 27	52. 30	17. 43	·1034					
23. 14	53. 0	18. 30	·1025					
23. 50	55. 30	18. 50	·1029					
		19. 30	·1017					
		21. 0	·1013					
		22. 15	·1005					
		23. 30	·1010					
		23. 59	·1008					

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 11		June 11		June 11		June 11		
h m	° ′ ″	h m		h m		h m	°	°
1. 0	21. 59. 30	0. 5	·1003	1. 0	·01282	1. 40	69 ·0	70 ·0
1. 22	22. 0. 0	1. 0	·1006	3. 15	·00866	3. 40	69 ·5	70 ·0
1. 45	21. 56. 40	1. 37	·0976	4. 5	·00756	9. 40	73 ·5	75 ·0
2. 45	53. 30	2. 0	·0999		·00815	21. 40	62 ·0	63 ·0
4. 21	52. 30	3. 16	·0996	6. 0	·00802			
5. 8	53. 30	3. 30	·1007	8. 30	·00838			
6. 21	50. 35	3. 48	·1002	10. 50	·00836			
8. 0	49. 25	4. 13	·1006	12. 15	·00932			
8. 30	43. 20	4. 45	·0996	15. 15	·01348			
8. 53:	45. 15	6. 8	·1009	16. 40	·01575			
9. 27	45. 0	6. 20	·1006		·01516			
10. 14:	58. 30	7. 0	·1016	19. 30	·01544			
10. 49	43. 0	8. 20	·1009	21. 0	·01528			
12. 1	50. 40	8. 40	·1015	22. 15	·01538			
	***	9. 0	·1021	23. 10	·01528			
14. 2	49. 20	9. 30	·1007	23. 59	·01470			
14. 24	50. 35	10. 0	·1002					
14. 51	50. 0	11. 0	·1014					
15. 8	51. 35	11. 45	·1008					
	***	13. 45	·1011					
16. 55	48. 0	15. 0	·1018					
18. 22	48. 0	19. 30	·1024					
	***	21. 15	·1016					
20. 7	47. 55		***					
20. 22	46. 5	23. 59	·1008					
	***							
22. 16	48. 30							
23. 59	54. 10							
June 12		June 12		June 12		June 12		
0. 0	21. 54. 20	0. 0	·1008	0. 40	·01402	1. 40	66 ·0	67 ·0
1. 0	56. 30	0. 30	·1004	3. 15	·01120	3. 40	68 ·5	70 ·0
3. 0	56. 10	1. 5	·1003	6. 15:	·00784	9. 40	68 ·5	71 ·0
8. 0	48. 35	1. 35	·1010	7. 39	·00702	21. 40	64 ·0	65 ·0
10. 15	50. 30	3. 22	·1020		·00770			
12. 14	51. 0	3. 45	·1014	9. 0:	·00748			
13. 12	49. 10	6. 30	·1022	11. 0:	·00818			
13. 30	50. 40	7. 45	·1030	14. 15	·01200			
13. 49	49. 50	8. 30	·1028	16. 27	·01530			
14. 21	51. 0	13. 10	·1033	18. 15	·01502			
	***	16. 0	·1039	21. 0	·01516			
16. 15	50. 30		(†)	23. 20	·01468			
17. 0	54. 0							
17. 25	54. 0							
18. 25	47. 5							
	***							
19. 49	47. 30							
21. 38	49. 45							
23. 34	53. 30							
June 13		June 13		June 13		June 13		
1. 40	21. 57. 15*	1. 40	·1004*	0. 0	·01444	1. 40	64 ·0	65 ·0
3. 40	57. 11*	3. 40	·1006*	1. 15	·01382	3. 40	70 ·0	71 ·0
9. 40	51. 2*	9. 40	·1008*	2. 15:	·01320	9. 40	69 ·0	70 ·0
21. 40	50. 20*	21. 40	·1010*	4. 15	·00958	21. 40	60 ·0	61 ·0
				5. 0	·00804			
					·00852			
				7. 15	·00756			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 13				
h m	° ′ ″	h m		h m		h m	°	°
				8. 5	·00730			
				10. 0	·00820			
				12. 0	·01198			
				13. 58	·01560			
					·01495			
				16. 30	·01530			
				20. 0	·01482			
				22. 0	·01537			
				23. 55	·01504			
June 14		June 14		June 14		June 14		
0. 20	21. 54. 10	0. 10	·1039	0. 30	·01515	1. 40	62 ·5	63 ·5
2. 0	54. 20	1. 0	·1043	2. 15	·01542	3. 40	61 ·0	62 ·0
3. 4	56. 15	1. 40	·1037	3. 41	·01508	9. 40	63 ·5	65 ·0
3. 51	55. 30	2. 20	·1046	8. 0	·01190	21. 40	62 ·0	62 ·5
5. 21	53. 0	3. 15	·1032	10. 0:	·01132			
8. 30	49. 30	3. 30	·1036	14. 0	·01300			
11. 46	50. 15	4. 18	·1033	16. 0	·01508			
12. 16	51. 30	5. 0	·1036	18. 45	·01538			
13. 16	49. 35	5. 50	·0998		·01460			
13. 51	51. 0	7. 15	·1040	21. 0	·01445			
14. 26	48. 55	8. 20	·1038	23. 0	·01378			
15. 25	50. 20	8. 38	·1043	23. 59	·01337			
18. 1	46. 0	9. 0	·1036					
18. 20	46. 30	11. 33	·1041					
18. 44	44. 30	12. 30	·1032					
19. 0	46. 25	13. 45	·1041					
20. 6	44. 50	14. 25	·1046					
21. 25	49. 25	15. 30	·1044					
23. 15	52. 0	17. 0	·1050					
23. 59	54. 5	18. 15	·1046					
		20. 10	·1038					
		22. 45	·1036					
		23. 59	·1034					
June 15		June 15		June 15		June 15		
0. 0	21. 54. 20	0. 0	·1034	0. 30	·01312	1. 40	62 ·0	63 ·0
1. 46	57. 30	1. 0	·1046	3. 11	·01124	3. 40	63 ·5	65 ·0
2. 43	57. 30	2. 30	·1052	7. 30:	·00695	9. 40	63 ·5	63 ·5
5. 55	52. 0	5. 0	·1046	10. 30:	·00584	21. 40	59 ·0	60 ·5
9. 10	52. 20	7. 0	·1049	13. 0	·00780			
12. 15	51. 0	8. 0	·1043	15. 0	·01040			
13. 0	51. 40	9. 15	·1040	17. 32	·01466			
13. 40	51. 30	10. 30	·1042		·01420			
14. 0	53. 30	13. 0	·1037		***			
14. 25	51. 20	14. 30	·1052	20. 0	·01440			
15. 0	50. 40	16. 0	·1050	21. 28	·01488			
15. 29	51. 30	18. 0	·1050	23. 50	·01376			
15. 46	50. 0	20. 0	·1038					
16. 1	51. 25	20. 45	·1028					
16. 27	51. 20	21. 0	·1025					
16. 50	48. 25	22. 15	·1036					
17. 20	49. 30	23. 55	·1030					
18. 14	47. 40							
18. 35	48. 15							
19. 37	46. 35							
21. 9	49. 40							
21. 57	48. 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.
June 15 h m	° ′ ″	h m		h m		h m	°	°
23. 52	21. 52. 35							
June 16		June 16		June 16		June 16		
0. 0	21. 54. 45	0. 50	·1026	0. 0	·01360	1. 40	63 ·0	63 ·0
1. 14	58. 30	2. 0	·1033	2. 30	·01050	3. 40	64 ·0	65 ·0
2. 30	59. 0	5. 0	·1032	5. 44	·00627	9. 43	65 ·0	66 ·0
5. 44	51. 5	5. 37	·1026	7. 30	·00654	22. 58	53 ·5	55 ·0
7. 47	51. 30	6. 25	·1033	8. 27	·00638			
8. 30	49. 30	6. 42	·1028	9. 25	·00670			
10. 2	51. 30	7. 16	·1032	11. 0:	·00610			
15. 15	53. 10	7. 28	·1026	13. 0	·00734			
16. 30	50. 0	8. 45	·1030	15. 30	·00978			
17. 50	49. 30	10. 45	·1032	18. 15	·01320			
	***	15. 15	·1036	19. 45	{·01500			
21. 0	49. 20	18. 45	·1038		{·01436			
22. 15	51. 0	21. 30	·1030	21. 30	·01428			
23. 59	55. 20	22. 30	·1026	23. 6	·01447			
		22. 55	·1025					
			(†)					
June 17		June 17		June 17		June 17		
0. 0	21. 55. 30	0. 30	·1023	0. 0	·01420	10. 10	60 ·0	63 ·0
1. 30:	59. 5	3. 15	·1030	3. 30:	·01503	21. 40	57 ·0	57 ·8
4. 25:	52. 30	5. 45	·1041	6. 30:	·01362			
7. 0	49. 45	6. 45	·1046	11. 10	·01290			
10. 20	50. 0	7. 43	·1042	13. 0	·01348			
16. 7	50. 35	14. 30	·1044	15. 11	{·01590			
18. 2	47. 30	18. 15	·1048		{·01417			
20. 32	46. 0	19. 30	·1042	16. 50	·01455			
22. 36:	47. 55	20. 45	·1033	18. 45	{·01420			
23. 59	52. 0	22. 30	·1018		{·01238			
		23. 0	·1017	20. 0	·01360			
		23. 59	·1024	21. 30:	·01420			
				23. 59	·01274			
June 18		June 18		June 18		June 18		
0. 0	21. 52. 10	0. 0	·1024	0. 45	·01206	1. 40	59 ·0	59 ·0
1. 0	55. 25	1. 45	·1028	2. 45	·00936	3. 40	63 ·0	64 ·0
2. 11	55. 0	2. 30	·1034	4. 30:	·00748	9. 40	59 ·0	60 ·0
3. 0	55. 30		***	7. 29	·00786	21. 40	55 ·0	56 ·0
4. 45	55. 0	4. 42	·1004	9. 28	·00830			
8. 7	51. 25	5. 15	·1040	12. 32	·00811			
11. 35	52. 0	6. 45	·1046	21. 40	(†)			
13. 10	50. 45	8. 30	·1051	22. 56	·01210			
14. 30	50. 35	11. 0	·1055	23. 18	·01306			
	(†)	15. 10	·1057					
22. 6	49. 10		(†)					
23. 30	53. 35	22. 0	·1043					
		23. 25	·1037					
June 19		June 19		June 19		June 19		
0. 0	21. 56. 15	0. 0	·1040	0. 0	·01263	1. 40	58 ·0	59 ·0
0. 22	56. 50	1. 30	·1038	1. 25:	·01145	3. 40	62 ·0	63 ·0
1. 45	54. 30	1. 47	·1032	3. 47	·00640	9. 40	62 ·0	63 ·0
3. 0	54. 40	3. 0	·1030	5. 40	·00638	21. 40	55 ·5	56 ·5
6. 30	50. 5	4. 0	·1033	8. 0	·00682			
8. 13	50. 5	5. 30	·1027	9. 59:	·00649			
8. 30	49. 35	7. 30	·1038	13. 3	·00972			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 19 h m	° ′ ″	June 19 h m		June 19 h m		h m	°	°
12. 0	21. 50. 20	8. 0	·1034	16. 1	{·01482			
15. 45	49. 30	9. 10	·1033		{·01420			
17. 55	46. 0	10. 10	·1028	22. 30	·01416			
22. 0	47. 0	13. 0	·1035	23. 28	·01340			
23. 10	49. 30	15. 30	·1045					
		17. 30:	·1049					
		18. 30	·1044					
			(†)					
		23. 59	·1021					
June 20		June 20		June 20		June 20		
0. 8	21. 54. 0	0. 0	·1021	0. 0	·01333	1. 40	58 ·0	59 ·0
1. 35	56. 30	1. 30	·1029	1. 5:	·01259	3. 40	61 ·0	62 ·0
5. 21	52. 0	2. 45	·1032	3. 18	·00801	9. 40	63 ·0	64 ·0
10. 11	50. 40	3. 5	·1037	4. 10	·00640	21. 40	56 ·0	57 ·0
12. 5	52. 30	4. 27	·1031	4. 14	·00664			
12. 46	49. 25	5. 30	·1035	6. 14:	·00739			
13. 16	50. 20	6. 45	·1032	8. 15	·00708			
14. 0	48. 50	8. 0	·1036	10. 16	·00651			
14. 13	50. 5	8. 30	·1030	12. 23	·00794			
14. 47	50. 30	9. 15	·1034	14. 13	·01119			
15. 14	49. 10	11. 30	·1036	15. 54	{·01459			
16. 55	49. 50	12. 40	·1039		{·01430			
17. 56	48. 0	13. 15	·1046	20. 14	·01418			
22. 8	49. 0	14. 15	·1042	22. 0:	·01442			
23. 45	52. 30	16. 0	·1049	23. 30	·01300			
		17. 0	·1053					
		18. 30	·1049					
		20. 15	·1041					
		21. 27	·1038					
		23. 46	·1030					
June 21		June 21		June 21		June 21		
0. 18	21. 52. 40	0. 0	·1033	0. 0	·01230	1. 40	59 ·0	60 ·0
2. 50	57. 0	1. 30	·1028	2. 13	{·00676	3. 40	66 ·0	67 ·0
4. 15	57. 0	3. 0	·1025		{·00720	9. 40	68 ·0	70 ·5
7. 30	49. 30	4. 30	·1032	4. 0	·00792	21. 40	59 ·0	61 ·0
13. 38	49. 30	5. 15	·1030	8. 6	·00796			
15. 22	51. 35	6. 0	·1028	10. 0	·00742			
16. 30	50. 0	9. 0	·1022	11. 30	·00780			
17. 0	48. 0	9. 5	·1023	14. 0:	·01064			
18. 0	46. 30	15. 0	·1030	16. 47	{·01560			
21. 6	46. 30	17. 15	·1038		{·01500			
22. 39	48. 35	19. 45	·1035	20. 0	·01476			
23. 59	53. 0	20. 28	·1028	22. 15	·01513			
		21. 39	·1019	23. 0	·01504			
		22. 29	·1015					
		23. 59	·1017					
June 22		June 22		June 22		June 22		
0. 0	21. 53. 5	0. 0	·1017	0. 0	·01358	1. 40	64 ·0	65 ·0
3. 15	57. 0	2. 18	·1028	2. 41	·00776	3. 40	64 ·0	66 ·0
	***	2. 26	·1031		***	9. 40	71 ·0	74 ·0
3. 59	59. 20	2. 40	·1022	4. 45	·00860	21. 40	68 ·0	70 ·0
4. 14	21. 58. 10	3. 0	·1030		***			
4. 44:	22. 1. 30	3. 16	·1013	6. 25	·00841			
5. 8	21. 59. 0		***		***			
	***	4. 12	·1014	8. 10	·00914			

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.
June22 h m	° ′ ″	June22 h m		June22 h m		h m	°	°
6. 14	21. 58. 0	4. 47	·1074	10. 15	·00816			
	***	5. 14	·1012	12. 0	·00848			
7. 9	52. 25	5. 30	·0998	14. 50	·01037			
7. 32	55. 15	6. 3	·1063	15. 30:	·01030			
8. 13	43. 30	6. 30	·1033		***			
8. 22	44. 50	7. 24	·1034	17. 16	·01244			
8. 35	44. 30	7. 45	·1007	19. 0	·01464			
8. 45	46. 0	8. 30	·1024	21. 30:	·01672			
9. 3	45. 10	9. 15	·1012	23. 5	·01638			
	***	9. 45	·1017					
10. 8	49. 0	10. 20	·1004					
10. 30	47. 10	11. 0	·1011					
11. 6	48. 25	12. 30	·1016					
11. 26	47. 30	13. 35	·1015					
12. 0	50. 0	14. 0	·1027					
12. 53	47. 50		***					
13. 40	48. 0	15. 15	·1018					
	***		***					
14. 30	41. 30	16. 10	·1036					
15. 4	53. 30	16. 32	·1024					
15. 47	43. 0	17. 15	·1044					
	***	18. 30	·1016					
16. 45	40. 35	18. 44	·1011					
16. 55	38. 30	19. 5	·1021					
17. 5	41. 30	19. 15	·1004					
17. 11	41. 0	19. 30	·1018					
17. 21	44. 30	20. 0	·1018					
17. 30	39. 0		(†)					
17. 55	41. 30	23. 10	·1004					
18. 30	42. 0	23. 39	·1012					
18. 45	40. 25	23. 59	·1008					
19. 7	47. 35							
19. 15	43. 30							
19. 34	49. 30							
19. 46	45. 20							
	***							
20. 30	48. 0							
20. 39	50. 40							
	***							
21. 4	48. 0							
21. 15	50. 0							
21. 30	48. 25							
	***							
23. 0	53. 50							
	***							
23. 59	54. 0							
June23		June23		June23		June23		
0. 0	21. 54. 10	0. 0	·1008	0. 0	·01562	1. 40	68·5	69·0
0. 30	56. 0	0. 55	·1003	1. 16	·01448	3. 40	70·0	71·0
1. 0	54. 35	1. 12	·1018		***	9. 40	65·0	66·0
1. 5	56. 10	1. 30	·1010	3. 26	·01446	22. 58	61·0	62·5
1. 20	54. 40	2. 15	·1015	4. 35	·01484			
1. 56	56. 10		***	6. 0	{·01640			
	***	3. 16	·1032		{·01581			
2. 50	54. 35	3. 30	·1024		***			
3. 10	56. 0	4. 0	·1033	7. 55	·01600			
3. 21	55. 0	4. 23	·1043	8. 15	·01622			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H F. Magnet.	Of V. F. Magnet.
June23 h m	° ′ ″	June23 h m		June23 h m		h m	°	°
4. 19	21. 55. 25	4. 43	·1025	10. 30	·01566			
4. 45	53. 20	5. 30	·1042	14. 15	·01488			
	***	6. 15	·1028	18. 4	·01484			
5. 45	53. 30	6. 30	·1044	22. 36	·01512			
6. 13	51. 5	7. 0	·1034					
7. 8	51. 30	7. 36	·1050					
7. 29	48. 30	7. 50	·1034					
7. 37	49. 30	8. 15	·1047					
8. 0	44. 0	8. 44	·1047					
8. 20	48. 10	9. 30	·1032					
8. 33	46. 40	11. 0	·1045					
9. 46	51. 15	11. 30	·1034					
10. 15	46. 30	11. 50	·1041					
10. 30	47. 0	12. 46	·1036					
10. 53	52. 20	13. 15	·1024					
11. 15	49. 0	14. 30	·1037					
11. 44	48. 0	18. 0	·1034					
11. 55	49. 30	19. 15	·1040					
12. 15	46. 0	20. 0	·1040					
	***	22. 30	·1021					
12. 45	45. 0	23. 59	·1016					
13. 10	52. 5							
13. 31	54. 35							
14. 8	53. 20							
14. 16	55. 35							
	***							
14. 31	55. 35							
	***							
15. 41	49. 0							
	***							
16. 38	49. 25							
17. 15	48. 40							
17. 35	49. 35							
18. 9	47. 30							
	***							
20. 14	45. 30							
	***							
23. 59	53. 0							
June24		June24		June24		June24		
0. 0	21. 53. 5	0. 0	·1016	0. 0	·01472	9. 23	69·0	70·0
1. 8	54. 0	1. 15	·1014	2. 30	·01238	21. 40	61·0	62·5
	***	2. 0	·1010	6. 15	{·00630			
2. 36	56. 30		***		{·00702			
5. 14	52. 20	2. 58	·1018	9. 30	·00686			
6. 0	51. 35	3. 15	·1012	11. 0	·00630			
	***	3. 47	·1025	12. 0:	·00662			
6. 45	50. 10	5. 15	·1020	15. 0	·01023			
	***	5. 45	·1028	17. 45	{·01500			
8. 43	50. 30	6. 24	·1024		{·01403			
9. 44	42. 20	6. 32	·1035	21. 30	·01494			
	***	7. 0	·1027	23. 59	·01300			
10. 40	48. 25	7. 30	·1032					
10. 59	47. 25	8. 0	·1026					
11. 20	48. 30	9. 33	·1022					
11. 40	45. 35		***					
12. 0	49. 15	11. 30	·1017					
12. 16	47. 35	12. 28	·1020					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June24		June24						
h m	° ′ ″	h m		h m		h m	°	°
12. 40	21. 52. 25	14. 0	·1030					
	***	15. 0	·1034					
13. 27	53. 0	15. 30	·1030					
	***		***					
15. 1	48. 30	19. 0	·1041					
15. 31	52. 20	20. 0	·1034					
16. 0	51. 35	22. 8	·1026					
	***	23. 59	·1017					
16. 30	53. 0							
17. 15	53. 5							
	***							
19. 25	48. 0							
	***							
21. 37	49. 40							
21. 46	48. 20							
	***							
23. 59	54. 30							
June25		June25		June25		June25		
0. 0	21. 54. 35	1. 4	·1021	1. 0	·01084	1. 40	65 ·0	66 ·0
	***	2. 45	·1026	3. 20	·00648	3. 40	67 ·0	68 ·0
1. 33	53. 15	3. 46	·1034	8. 0	·00692	9. 40	67 ·5	69 ·0
	***	5. 33	·1031	9. 43	·00672	21. 40	65 ·5	66 ·5
2. 30	54. 40	9. 30	·1032	12. 30	·00858			
	***	12. 0	·1030	16. 30	·01348			
4. 15	51. 20	13. 30	·1041	18. 17	{ ·01558			
5. 16	54. 25	16. 0	·1044		{ ·01486			
6. 0	50. 15	18. 0	·1035	21. 0	·01502			
	***	20. 15	·1029	22. 0:	·01440			
7. 0	49. 45	21. 30	·1024	23. 17	·01256			
	***	22. 52	·1018					
9. 21	51. 15	23. 59	·1027					
10. 19	49. 10							
	***							
12. 29	53. 15							
	***							
15. 0	53. 0							
	***							
16. 31	50. 20							
16. 55	51. 0							
17. 22	48. 30							
	***							
20. 0	49. 0							
	***							
22. 49	51. 0							
June26		June26		June26		June26		
0. 15	21. 52. 0	0. 0	·1027		(†)	1. 40	68 ·5	70 ·0
	***	1. 50	·1030	2. 20	·00908	3. 40	70 ·5	71 ·5
2. 29	53. 30	2. 45	·1024	3. 14	·00764	9. 40	73 ·0	74 ·0
5. 15	49. 20	3. 45	·1024	8. 0	·00774	21. 40	67 ·0	68 ·0
6. 22	49. 30	3. 52	·1035	9. 50	·00746			
8. 45	53. 0	4. 15	·1027	13. 30	·01052			
	***	5. 0	·1034	16. 0	·01400			
12. 39	54. 5	5. 47	·1023	17. 50	{ ·01638			
13. 5	51. 35	6. 13	·1034		{ ·01578			
	***	6. 22	·1023	20. 30	·01594			
14. 31	51. 0	7. 30	·1029	22. 25:	·01580			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June26		June26		June26				
h m	° ′ ″	h m		h m		h m	°	°
15. 30	21. 52. 40	8. 13	·1026	23. 15	·01524			
	***	10. 30	·1026					
17. 30	49. 0	13. 40	·1040					
18. 30	49. 25	14. 30	·1036					
19. 19	48. 0	16. 30	·1038					
19. 48	49. 30	18. 25	·1035					
21. 13	44. 0	19. 30	·1022					
	***	23. 0	·1031					
23. 55	51. 50	23. 59	·1025					
June27		June27		June27		June27		
0. 0	21. 54. 30	0. 0	·1025	0. 0	·01464	1. 40	72 ·0	73 ·0
	***	1. 0	·1019	2. 43	·00831	3. 40	76 ·0	77 ·0
2. 3	48. 15	2. 55	·1022	4. 30	·00876	9. 40	78 ·0	78 ·0
	***	3. 15	·1014	7. 30	·00828	21. 40	68 ·5	70 ·0
3. 30	49. 20	5. 0	·1010	9. 22	·00800			
4. 45	47. 0	6. 15	·1012	10. 10:	·00814			
5. 45	47. 5	7. 15	·1016	11. 15	·00978			
	***	9. 30	·1018	14. 45	{ ·01608			
6. 30	51. 0	11. 0	·1020		{ ·01556			
8. 15	53. 0	13. 0	·1025	17. 0	·01516			
8. 40	51. 10	14. 15	·1034	20. 0	·01550			
	***	15. 15	·1030	21. 10	·01602			
9. 45	55. 0	17. 30	·1028	22. 30	·01530			
	***		(†)					
12. 40	55. 40	21. 40	·1003*					
	***							
13. 15	54. 0							
	***							
14. 15	57. 0							
14. 39	52. 50							
15. 0	54. 35							
	***							
16. 14	49. 30							
	***							
19. 0	49. 15							
19. 30	46. 45							
	***							
20. 40	50. 25							
21. 4	49. 15							
	(†)							
June28		June28		June28		June28		
0. 0	21. 54. 50	0. 0	·1002	0. 0	·01238	1. 40	74 ·0	75 ·0
0. 52	56. 0	1. 8	·0996	1. 48	{ ·00786	3. 40	77 ·0	78 ·0
	***	1. 43	·0995		{ ·00840	9. 40	73 ·5	75 ·0
2. 0	55. 45	1. 52	·1004	5. 0	·00862	21. 40	66 ·5	68 ·0
	***	2. 30	·0996	7. 30:	·00812			
3. 43	51. 5	3. 15	·1000	10. 0:	·00968			
4. 7	53. 0	4. 25	·1004	13. 5	{ ·01608			
	***	5. 0	·0996		{ ·01540			
5. 45	48. 0	5. 30	·0993	17. 0	·01542			
	***	6. 15	·0998	21. 0:	·01596			
6. 44	48. 0	6. 36	·0994	22. 15	·01518			
	***	7. 5	·1002					
8. 50	52. 55		***					
	***	10. 45	·1013					
9. 55	53. 0	12. 15	·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.

June 25. The times, both of the Declination and Horizontal Force, may be a little in error on this day.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 28		June 28						
h m	° ′ ″	h m		h m		h m	°	°
10. 22	21. 50. 30	14. 0	·1022					
	***	15. 15:	·1030					
11. 29	53. 0	16. 0	·1025					
11. 47	49. 55	18. 45	·1030					
	***	20. 0	·1017					
13. 0	50. 0	23. 59	·1011					
13. 47	54. 0							
	***							
15. 15	51. 30							
15. 47	48. 0							
16. 23	50. 10							
	***							
17. 55	45. 0							
18. 53	48. 0							
	***							
20. 13	48. 50							
20. 40	45. 30							
21. 43	48. 40							
23. 59	54. 20							
June 29		June 29		June 29		June 29		
0. 0	21. 54. 0	0. 0	·1012	0. 0	·01264	1. 40	74 ·0	75 ·5
	***	0. 37	·1006	2. 8	·00816	3. 40	76 ·0	77 ·0
1. 36	56. 30	1. 20:	·1020	4. 13	·00880	9. 40	76 ·0	77 ·0
1. 45	55. 10	1. 45	·1014		·00957	21. 40	71 ·5	73 ·0
	***	2. 15	·1022	4. 26	·00920			
2. 0	57. 0	2. 39	·1009		·00980			
2. 30	55. 0	3. 10	·1014	8. 0	·00798			
2. 45	57. 30	4. 0	·1003	9. 0	·00800			
3. 2	54. 0	4. 30	·1014	12. 55	·01242			
	***	5. 0	·1009	13. 15:	·01234			
3. 40	55. 0	5. 40	·1003	15. 5	·01578			
3. 52	53. 5		(†)	17. 30	·01578			
4. 4	44. 10	9. 15	·1016	20. 0	·01616			
4. 17	52. 0	10. 30	·1006	21. 0	·01584			
4. 27	54. 35	10. 50	·1016	23. 25	·01598			
4. 37	53. 0	11. 35	·0996					
5. 7	50. 0	12. 45	·0998					
5. 16	51. 55	13. 5:	·1034					
5. 30	44. 30	13. 36	·1018					
5. 40	51. 15	15. 15	·1019					
5. 52	49. 30	15. 45	·1004					
6. 0	50. 30	16. 36	·1024					
	(†)	17. 35	·1024					
9. 1	48. 30		(†)					
	***	21. 40	·0987*					
9. 45	46. 15							
10. 15	44. 30							
10. 35	45. 0							
11. 25	40. 0							
11. 45	43. 30							
12. 15	39. 55							
12. 30	46. 0							
13. 15	56. 0							
13. 30	53. 0							
14. 0	46. 30							
14. 15	46. 10							
14. 40	43. 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.
June 29								
h m	° ′ ″	h m		h m		h m	°	°
15. 25	21. 49. 0							
15. 43	54. 15							
16. 30	51. 30							
17. 30	46. 10							
	(†)							
21. 40	52. 3*							
June 30		June 30		June 30		June 30		
0. 15	21. 51. 30	0. 0	·1001	0. 0	·01572	1. 40	74 ·2	75 ·0
	***		***	2. 0	·01362	3. 40	75 ·5	77 ·0
1. 16	56. 0	1. 20	·1004	4. 30:	·00984	9. 40	74 ·0	75 ·0
	***	1. 45	·0990	5. 30:	·00918	22. 52	67 ·0	68 ·5
2. 17	54. 15	2. 0	·1000	8. 0	·00987			
2. 25	56. 0	2. 34	·1004	10. 15	·01212			
2. 33	55. 30	4. 0	·0998	12. 26	·01570			
2. 44	58. 55	5. 0	·1000		·01486			
2. 57	55. 0	5. 45	·0986	15. 0	·01507			
	***	6. 18	·1012	16. 15	·01504			
3. 29	51. 20		***	19. 0	·01522			
3. 45	54. 0	8. 0	·0997	21. 30	·01603			
	***	12. 0	·1020	23. 15	·01536			
4. 40	50. 0	13. 0	·1014					
	***	15. 45	·1027					
5. 20	51. 0	18. 30	·1017					
5. 50	46. 35	20. 0	·1014					
6. 14	47. 30	21. 0	·1007					
6. 31	51. 0	22. 30	·1004					
	***		(†)					
7. 34	53. 0							
7. 46	51. 0							
8. 22	50. 35							
8. 45	51. 55							
	***							
12. 32	48. 30							
14. 55	50. 10							
15. 15	54. 40							
15. 41	49. 0							
	***							
17. 0	46. 50							
18. 6	49. 0							
20. 23	43. 30							
21. 40	45. 30							
23. 15	51. 0							
July 1		July 1		July 1		July 1		
9. 50	21. 49. 25*	9. 50	·1010*	0. 0	·01500	9. 50	73 ·0	74 ·0
21. 40	46. 22*	21. 40	·0998*	1. 30:	·01364	21. 40	70 ·0	71 ·5
				4. 15	·00900			
				5. 30	·00712			
					·00760			
				10. 30:	·00672			
				14. 0	·00988			
				16. 15	·01258			
				19. 0	·01546			
				21. 14	·01652			
					·01545			
				22. 25:	·01548			
				23. 45	·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.	Readings of Thermometers. Of V. F. Magnet.
July 2		July 2		July 2		July 2		
h m	° ′ ″	h m		h m		h m	°	°
1. 50	21. 57. 34*	1. 50	·0997*	0. 0	·01328	1. 50	73 ·5	74 ·0
3. 40	54. 16*	3. 40	·1007*	2. 30	·00996	3. 40	74 ·5	76 ·0
9. 40	46. 46*	9. 40	·1004*	4. 35	·00670	9. 40	76 ·0	76 ·5
21. 40	45. 11*	21. 40	·1003*	5. 28	·00652 (†)	21. 40	72 ·0	73 ·0
				9. 40	·00598			
				11. 30	·00606			
				12. 30	·00692			
				13. 5	·00700 ***			
				17. 15	·01228 (†)			
				21. 40	·01500*			
July 3		July 3		July 3		July 3		
0. 0	21. 50. 25	0. 0	·0978	0. 0	·01448	1. 40	74 ·5	76 ·0
0. 17	51. 0	3. 0	·0979	1. 30	·01216 ***	3. 40	76 ·0	77 ·5
0. 29	49. 20	3. 30	·0982			9. 40	78 ·0	79 ·5
0. 31	53. 0 ***	3. 47	·0988	4. 15	·00818	21. 40	71 ·5	73 ·0
		4. 12	·0980	7. 30:	·00848			
1. 30	49. 20 ***	4. 25	·0986	10. 0	·00804			
		4. 40	·0987	11. 30	·00818			
3. 29	49. 0 ***	4. 53	·0992 ***	14. 0	·01030			
				16. 30	·01378			
3. 50	45. 30 ***	6. 18	·0994	18. 38	{·01678			
		6. 36	·0992		{·01610			
4. 38	47. 50	7. 17	·0995	22. 15	·01620			
5. 0	44. 10 ***	7. 33	·0990	23. 45	·01660			
		8. 31	·0996					
6. 46	45. 30	8. 56	·0990					
8. 22	47. 20	9. 20	·0996					
8. 40	49. 10 ***	10. 0	·0995 (†)					
9. 8	48. 0 ***	21. 40	·1006*					
9. 30	50. 0 ***							
9. 55	47. 30							
10. 14	49. 10							
10. 30	46. 30 ***							
11. 35	46. 30 ***							
11. 50	41. 30 ***							
12. 45	48. 0 (†)							
17. 2	49. 35 ***							
18. 40	46. 20 ***							
20. 30	51. 0							
20. 46	48. 0 ***							
21. 30	50. 10 (†)							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F Magnet.
July 4		July 4		July 4		July 4		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 50. 40 ***	0. 0	·0995 ***	0. 0	·01630	1. 40	73 ·0	75 ·0
				2. 0:	·01608	3. 40	76 ·0	77 ·0
0. 31	53. 0	1. 39	·0993	4. 30	·01200	9. 40	76 ·0	76 ·5
0. 44	51. 30 ***	1. 48	·0987	8. 0:	·00864	21. 40	64 ·5	66 ·0
		2. 26	·0989	9. 24:	·00838			
1. 12	53. 50 ***	2. 36	·0996	11. 15	·01074			
		2. 55	·0993	13. 0	·01418			
3. 5	51. 15	3. 12	·1008	13. 38	·01503			
3. 20	53. 15	3. 15	·1000	15. 55	·01514			
3. 30	50. 30 ***		***	18. 0	·01478			
		4. 17	·1005	21. 30	·01466			
7. 40	46. 0 ***	4. 47	·1002	22. 30	·01504			
		5. 7	·1015	23. 15	·01498			
8. 58	46. 0	5. 23	·1005					
9. 16	48. 0	5. 43	·1002					
9. 37	44. 5	6. 10	·1009					
9. 57	48. 0	6. 53	·1004					
10. 23	45. 5 ***	7. 15	·1009					
		7. 58	·0999					
10. 52	49. 10 ***	8. 45	·0997					
		9. 7	·1007					
12. 0	49. 20	9. 12	·0998					
12. 21	48. 0	10. 24	·1004					
12. 31	50. 40	10. 37	·1012					
12. 45	49. 40	10. 55	·1008					
13. 13	54. 0	11. 35	·1015					
14. 5	42. 0	11. 47	·1024					
14. 29	54. 45 ***	12. 22	·1006					
		12. 47	·1008					
15. 15	43. 30	13. 2	·1021					
15. 43	47. 0	13. 30	·1013 ***					
16. 14	48. 40 ***							
		15. 3	·1024					
18. 25	46. 0 ***	15. 40	·1016 ***					
20. 20	56. 5	18. 17	·1023 ***					
21. 25	50. 0							
22. 22	45. 5 ***	20. 0	·1010					
		20. 20	·1010					
22. 51	49. 20 ***	20. 40	·1019					
		21. 2	·1023					
23. 59	49. 40	22. 42	·1010 (†)					
July 5		July 5		July 5		July 5		
0. 15	21. 49. 0 ***	0. 0	·1010	0. 0	·01478	1. 40	67 ·0	69 ·0
		0. 20	·1002	1. 30	·01310	3. 40	72 ·0	72 ·0
0. 55	52. 40 ***	0. 52	·1009	3. 45	·00690 (†)	9. 40	75 ·0	76 ·5
		1. 30	·0998			21. 40	76 ·0	76 ·5
2. 46	54. 15	1. 48	·0996	6. 30	·00605			
3. 5	48. 25	2. 10	·1003	8. 0	·00710			
3. 45	49. 0 (†)	2. 25	·0995	9. 0	·00724			
		3. 13	·0996	11. 0	·00652			
6. 30	49. 0	3. 18	·0990	12. 0:	·00724			
7. 0	45. 15	4. 10	·0998	13. 30	·00978			
8. 0	45. 30		(†)	16. 34	{·01563			
9. 0:	49. 0	6. 1	·1008		{·01495			
9. 21	43. 10	6. 43	·1003 ***	20. 30	·01542 (†)			

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 reading. 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.

July 3. Some little uncertainty prevails over the times on this day, both in the results of the Declination and Horizontal Force.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 5		July 5						
h m	° ′ ″	h m		h m		h m	°	°
10. 10	21. 46. 15	7. 29	·1009	21. 40	·01437*			
	***	7. 33	·1003					
12. 46	49. 0	7. 48	·1009					
13. 0	44. 55	8. 3	·1007					
	***	8. 11	·1012					
14. 50	51. 0	8. 45	·1011					
	***	9. 2	·1016					
15. 5	48. 30	9. 16	·1009					
	***	9. 26	·1016					
18. 55	47. 0	10. 5	·1004					
	***	10. 43	·1004					
19. 50	45. 50	10. 50	·1011					
20. 25	47. 30	11. 5	·1007					
	(†)	11. 13	·1010					
		12. 30	·1014					
		12. 50	·1018					
		13. 3	·1014					
		14. 25	·1015					
		14. 38	·1018					
		15. 55	·1014					
		19. 15	·1024					
		20. 27	·1023					
			(†)					
		21. 40	·1016*					
July 6		July 6		July 6		July 6		
1. 40	21. 51. 40*	1. 40	·1006*	0. 0	·01493	1. 40	67 ·0	67 ·5
3. 40	51. 40*	3. 40	·1016*		(†)	3. 40	73 ·0	73 ·0
9. 40	49. 22*	9. 40	·1010*	4. 5	·00812	9. 40	75 ·0	75 ·5
21. 40	48. 13*	21. 40	·1020*	5. 0	·00610	21. 40	65 ·5	67 ·0
				7. 0:	·00782			
				9. 15	·00706			
				10. 30	·00660			
				12. 0:	·00758			
				14. 30	·01144			
				16. 24	·01550			
				19. 0	·01498			
				21. 0	·01466			
				22. 45	·01488			
				23. 58	·01482			
July 7		July 7		July 7		July 7		
0. 6	21. 51. 10	0. 12	·1014	0. 20	·01482	1. 40	65 ·0	66 ·0
1. 2	52. 30	3. 0	·1024	2. 15	·01330	3. 40	68 ·5	70 ·0
1. 16	55. 35		***	4. 14	·01008	9. 40	69 ·5	71 ·0
	***	3. 47	·1026	6. 15	·00610	23. 24	66 ·0	67 ·0
2. 15	52. 30		***	6. 24	·00640			
	***	5. 0	·1015	9. 40:	·00582			
4. 54	50. 15	6. 0	·1015	14. 0	·01248			
	***	7. 40	·1019	15. 28	{·01408			
5. 29	51. 30	7. 48	·1025		{·01350			
	***	7. 56	·1021	17. 29	·01414			
7. 35	48. 30	8. 2	·1026	20. 30	·01420			
8. 30	51. 30	8. 31	·1020	22. 32	·01340			
	***	9. 12	·1024					
9. 15	49. 25	9. 45	·1022					
	***	10. 5	·1015					
9. 55	51. 5	10. 40	·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.
July 7		July 7						
h m	° ′ ″	h m		h m		h m	°	°
10. 46	21. 50. 0	10. 50	·1023					
11. 8	51. 50	11. 16	·1019					
	***	11. 52	·1027					
12. 33	49. 30	12. 43	·1032					
13. 44	52. 10	12. 48	·1028					
14. 15	50. 15	12. 56	·1034					
14. 46	57. 40	13. 7	·1034					
	***	13. 17	·1029					
15. 30	48. 0	13. 37	·1035					
	***	14. 23	·1034					
17. 24	48. 30	14. 45	·1016					
19. 20	47. 40	15. 20	·1040					
19. 46	49. 0	16. 18	·1034					
20. 7	46. 0	19. 15	·1038					
20. 44	50. 10	19. 52	·1030					
	***	21. 10	·1024					
21. 15	49. 35	22. 20	·1010					
21. 38	45. 0	22. 53	·1011					
22. 8	47. 5							
22. 30	45. 35							
22. 50	49. 0							
July 8		July 8		July 8		July 8		
0. 0	21. 53. 0	0. 0	·1005	0. 0	·01156	9. 40	72 ·5	73 ·0
	***		***	1. 40:	·00828	21. 40	64 ·0	66 ·0
0. 22	55. 30	1. 1	·1000	2. 30	·00618			
	***		***	2. 39	·00660			
1. 15	53. 35	1. 57	·0976	4. 40	·00718			
	***	2. 15	·0987	6. 31:	·00717			
1. 31	54. 40	2. 25	·0982	9. 46:	·00648			
	***	2. 35	·0988	15. 46	·01520			
3. 28	52. 0		***	15. 52	·01479			
3. 42	49. 35	3. 20	·0982	21. 57	·01450			
3. 45	51. 0		***	23. 20	·01442			
4. 0	49. 30	4. 5	·0989	23. 59	·01401			
4. 15	50. 30		***					
4. 21	49. 0	5. 0	·0985					
5. 8	45. 35		***					
5. 35	46. 30	5. 25	·0993					
6. 0	50. 0		***					
8. 32	49. 40	5. 50	·0984					
9. 15	51. 20	6. 7	·0989					
	***	7. 20	·0990					
14. 10	50. 0		***					
	***	13. 30	·1017					
16. 0	52. 0	15. 47	·1016					
17. 37	50. 5	18. 23	·1021					
18. 0	48. 0		***					
18. 22	50. 0	23. 59	·1008					
	***							
20. 5	49. 40							
	***							
20. 45	48. 5							
	***							
22. 30	51. 0							
	***							
23. 30	49. 10							
23. 59	50. 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.
July 9		July 9		July 9		July 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 50. 35	0. 0	·1008	1 18	·01310	2. 40	69 ·5	70 ·0
1. 15	54. 0	0. 55	·1009	2 24	·01200	3. 40	71 ·5	73 ·0
	***	1. 40	·0998	4. 10	·00700	9. 40	72 ·5	74 ·0
1. 49	53. 30		***	4. 15	·00743	21. 40	68 ·5	70 ·0
1. 57	56. 30	4. 0	·1020	5. 15	·00764			
2. 20	53. 0	4. 28	·1019	10. 0	·00700			
	***	4. 40	·1012	11. 45	·00802			
6. 5	47. 50	5. 12	·1019	12. 5	·00810			
8. 0	53. 10		***	17. 0	·01492			
	***	6. 7	·1011	18. 3	·01600			
11. 47	51. 30		***	18. 13	·01530			
12. 15	48. 30	7. 0	·1017	22. 14	·01576			
12. 29	50. 10		***	23. 11:	·01518			
	***	11. 28	·1028	23. 59	·01381			
13. 56	47. 15	11. 50	·1046					
14. 39	50. 30	12. 11	·1035					
	***	12. 30	·1030					
15. 45	49. 30	13. 50	·1029					
16. 20	53. 0	14. 20	·1024					
18. 0	49. 15	15. 15	·1030					
19. 39	51. 40	16. 29	·1030					
	***	17. 3	·1037					
21. 13	50. 20	18. 0	·1033					
21. 44	46. 0	21. 48	·1012					
	***	22. 45	·1011					
23. 29	50. 30	23. 56	·1014					
July 10		July 10		July 10		July 10		
0. 0	21. 53. 0	0. 15	·1013	0. 0	·01338	1. 40	72 ·0	73 ·0
	***	0. 26	·1011	2. 46	{·00762	3. 40	74 ·0	75 ·0
1. 40	55. 0	0. 59	·1020		{·00806	9. 40	76 ·5	77 ·0
1. 47	57. 15		***		***	21. 40	68 ·5	71 ·0
2. 1	55. 0	1. 30	·1013	8. 0	·00822			
	***	1. 44	·1013	10. 0	·00763			
2. 14	57. 35	1. 55	·1007	15. 0	·01254			
	***		***	17. 20	·01600			
3. 46	55. 15	3. 12	·1011	20. 0	·01544			
	***	3. 25	·1018	21. 30	·01516			
4. 15	51. 20	3. 42	·1000	23. 30	·01528			
4. 30	53. 10	4. 16	·1010					
5. 0	52. 0	4. 22	·1021					
5. 15	52. 55		***					
	***	4. 52	·1018					
5. 44	50. 25	5. 3	·1007					
5. 50	51. 15	5. 30	·1020					
6. 1	50. 0	5. 34	·1014					
	***	5. 48	·1025					
6. 46	51. 40	6. 3	·1000					
7. 28	51. 0	6. 33	·1009					
7. 57	46. 30	6. 47	·1026					
8. 25	49. 10	7. 1	·1008					
8. 37	48. 0	7. 42	·1004					
	***	8. 2	·1017					
10. 19	51. 0		***					
11. 37	50. 30	9. 44	·1011					
11. 45	47. 0	10. 17	·1016					
12. 14	48. 35	10. 42	·1010					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 10		July 10						
h m	° ′ ″	h m		h m		h m	°	°
13. 25	21. 48. 0	13. 30	·1014					
14. 6	53. 5	13. 47	·1020					
	***	14. 15	·1018					
15. 6	48. 0	14. 47	·1026					
15. 21	49. 10	15. 35	·1023					
	***	16. 1	·1030					
16. 0	49. 0	17. 2	·1017					
16. 15	46. 30	18. 15	·1032					
16. 30	50. 30	19. 50	·1023					
17. 0	53. 0	20. 45	·1023					
17. 30	52. 0	21. 30	·1018					
17. 55	53. 55		(†)					
18. 10	51. 5							
	***							
19. 10	48. 0							
20. 15	49. 40							
	***							
21. 15	48. 0							
	***							
22. 45	52. 30							
23. 0	49. 20							
23. 30	50. 0							
July 11		July 11		July 11		July 11		
0. 1	21. 52. 40	0. 0	·1016	0. 0	·01538	1. 40	66 ·5	68 ·0
0. 20	57. 15	2. 48	·1045	4. 30	·01605	3. 40	66 ·0	69 ·0
	***	3. 20	·1039	7. 0	·01568	9. 40	66 ·0	67 ·0
3. 3	54. 40	5. 5	·1046	10. 40	·01509	21. 40	64 ·0	65 ·5
3. 15	56. 0		***	15. 27	·01479			
	***	8. 18	·1059	19. 11	·01482			
3. 55	56. 20	8. 30	·1068	21. 45	·01434			
4. 15	54. 20	9. 40	·1052	23. 30	·01281			
6. 16	52. 0	9. 55	·1067					
6. 45	50. 20	10. 23	·1057					
	***	10. 28	·1060					
8. 54	51. 0	11. 10	·1034					
9. 36	48. 0	11. 28	·1040					
9. 55	47. 45		***					
10. 3	45. 25	13. 0	·1043					
10. 21	45. 20	13. 15	·1041					
10. 35	48. 5	14. 54	·1046					
	***	15. 15	·1041					
11. 32	50. 15	19. 28	·1048					
11. 45	49. 25	20. 15	·1044					
	***	22. 20	·1025					
12. 16	50. 30	23. 33	·1020					
12. 52	48. 30							
	***							
14. 45	51. 35							
	***							
16. 40	51. 35							
	***							
17. 48	49. 15							
18. 0	47. 30							
18. 35	49. 0							
18. 55	47. 45							
	***							

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 11								
h m	° ′ ″	h m		h m		h m	°	°
20. 45	21. 49. 50							
21. 2	48. 45							
23. 0	50. 35							
23. 11	51. 35							
23. 28	50. 0							
July 12		July 12		July 12		July 12		
1. 40	21. 53. 44*	0. 0	·1034	0. 0	·01259	1. 40	68 ·5	70 ·5
3. 40	51. 29*	2. 30	·1034	1. 35	·01120	3. 40	71 ·0	72 ·5
9. 40	48. 58*	4. 5	·1023	3. 39	·00672	9. 40	75 ·0	76 ·5
21. 40	44. 59*	4. 45	·1030	5. 10	·00762	21. 40	68 ·5	72 ·0
		5. 15	·1021	6. 26	·00801			
		5. 29	·1010	7. 45	·00804			
			***	10. 39	·00714			
		6. 29	·1020	13. 0:	·00915			
		10. 17	·1021	16. 17	·01599			
		11. 0	·1025		·01530			
		12. 10	·1020	21. 55:	·01569			
		17. 16	·1039	22. 30	·01533			
		18. 55	·1040	23. 59	·01218			
		23. 59	·1004					
July 13		July 13		July 13		July 13		
0. 48	21. 55. 40	0. 0	·1004	0. 45	·01068	1. 40	74 ·0	76 ·5
	***		***	2. 14	·00778	3. 40	79 ·0	79 ·5
1. 45	55. 30	2. 20	·0998		·00820	9. 40	76 ·0	77 ·0
	***		***	5. 16	·00866	21. 40	69 ·5	72 ·0
4. 29	48. 30	6. 0	·0995	9. 20:	·00790			
	***		***	11. 10	·00886			
5. 0	49. 15	7. 0	·1004	15. 25	·01628			
5. 12	47. 30		***		·01580			
	***	10. 10	·1010	18. 14	·01606			
7. 15	44. 15	10. 17	·1005	20. 30	·01597			
	***	10. 32	·1010	22. 5	·01607			
8. 15	46. 0		***		·01486			
10. 0	52. 0	13. 7	·1015	23. 48	·01338			
14. 15	51. 0		***					
	***	17. 31	·1034					
16. 15	51. 50		***					
	***	19. 43	·1030					
17. 50	47. 55		***					
	***	23. 5	·1006					
20. 45	48. 10	23. 29	·1010					
21. 35	44. 20	23. 53	·1003					
	***							
23. 45	50. 40							
July 14		July 14		July 14		July 14		
0. 0	21. 51. 0	0. 12	·1000	0. 0	·01306	1. 40	74 ·0	75 ·0
1. 4	50. 30	1. 9	·1002	2. 30	·01003	3. 40	75 ·0	76 ·0
	***	1. 12	·0997	3. 30	·00817	9. 40	74 ·0	75 ·0
2. 0	53. 50	1. 30	·1003	3. 55	·00816	23. 0	69 ·0	71 ·0
2. 22	51. 30	2. 45	·1001		·00912			
	***	3. 10	·1009	6. 45	·00814			
4. 39	47. 0	3. 30	·1004	8. 15:	·00798			
	***	3. 39	·1011	10. 30	·00983			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 14								
h m	° ′ ″	h m		h m		h m	°	°
6. 45	21. 44. 50	3. 45	·1004	12. 50	·01570			
7. 30	47. 0		***		·01505			
8. 46	51. 0	5. 56	·1002	16. 0	·01538			
9. 32	50. 25	6. 30	·0999	18. 30	·01557			
	***	6. 57	·1006	21. 30:	·01578			
15. 0	50. 0	8. 11	·1006	23. 30	·01420			
16. 5	49. 0	9. 11	·1009					
16. 27	50. 55		***					
	***	14. 57	·1038					
16. 45	48. 15		***					
19. 16	44. 30	16. 5	·1035					
20. 14	41. 35	18. 52	·1043					
	***	19. 45	·1025					
22. 37	46. 30	21. 15	·1015					
	(†)		***					
		22. 58	·1010					
			(†)					
July 15		July 15		July 15		July 15		
10. 0	21. 49. 20*	10. 0	·1017*	0. 0	·01360	10. 0	72 ·5	74 ·0
21. 40	48. 38*	21. 40	·1026*	2. 0:	·01005	21. 40	65 ·0	67 ·0
				3. 15	·00714			
				6. 30	·00730			
				8. 45:	·00700			
				10. 30	·00810			
				14. 0	·01377			
				15. 14	·01580			
					·01515			
				17. 30	·01558			
				20. 0	·01540			
				21. 30	·01517			
				22. 30	·01503			
				23. 35	·01518			
July 16		July 16		July 16		July 16		
1. 15	21. 53. 50	1. 12	·1021	1. 20	·01508	1. 40	67 ·0	68 ·0
1. 32	53. 15		***	2. 35:	·01426	3. 40	70 ·0	71 ·5
1. 51	56. 55	3. 35	·1032	4. 0	·01145	9. 40	67 ·5	68 ·5
2. 30	53. 0		***	5. 55	·00652	21. 40	62 ·5	63 ·5
	***	4. 54	·1026	8. 0:	·00618			
4. 45	47. 0		***	10. 15	·00818			
	***	6. 12	·1036	12. 30	·01280			
6. 14	52. 0		***	16. 0	·01465			
	***	8. 55	·1039	19. 30	·01450			
7. 15	51. 20	15. 3	·1039	22. 0	·01408			
7. 30	50. 35	15. 45	·1044	23. 30	·01370			
7. 59	53. 0	17. 30	·1043					
	***	20. 30	·1030					
8. 41	50. 30	22. 17	·1022					
	***	23. 48	·1019					
9. 53	51. 0							
10. 16	48. 0							
	***							
11. 45	50. 55							
12. 16	49. 50							
13. 2	52. 30							
13. 15	51. 0							
14. 45	50. 30							

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

July 15. 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.	Readings of Thermometers. Of V. F. Magnet.
July 16								
h m	° ′ ″	h m		h m		h m	°	°
15. 15	21. 51. 40							
	***							
16. 45	47. 0							
17. 30	46. 50							
	(†)							
19. 15	47. 5							
20. 7	48. 0							
20. 31	47. 0							
20. 53	47. 5							
21. 40	43. 30							
23. 35	47. 50							
July 17		July 17		July 17		July 17		
0. 0	21. 49. 0	0. 0	·1016	0. 0	·01338	1 40	67 ·0	68 ·5
0. 28	48. 20	1. 45	·1020	2. 0	·00868	3. 40	67 ·5	69 ·0
0. 38	51. 10	3. 27	·1027	3. 26	·00564	9. 40	68 ·5	69 ·0
0. 46	50. 0	5. 32	·1020		·00686	21. 40	65 ·0	66 ·0
	***	7. 45	·1025	7. 0	·00618			
2. 0	52. 0	8. 47	·1024	12. 30	·00610			
2. 23	50. 10	11. 28	·1023	16. 0:	·00875			
2. 45	51. 35	13. 0	·1027	18. 30	·01185			
	***	18. 17	·1035	21. 0	·01438			
4. 0	49. 40	19. 15	·1037	22. 20:	·01474			
4. 7	48. 15	21. 30	·1032	23. 0	·01435			
5. 16	49. 0	23. 10	·1022					
6. 0	48. 10							
7. 53	51. 0							
10. 17	49. 5							
	***							
11. 30	50. 35							
	***							
14. 17	48. 25							
15. 20	50. 50							
	***							
18. 25	48. 0							
18. 35	45. 30							
	***							
19. 29	47. 35							
	***							
19. 45	45. 0							
	***							
20. 50	46. 35							
21. 27	46. 0							
21. 44	47. 20							
	***							
22. 29	44. 20							
22. 31	46. 10							
22. 44	44. 30							
23. 8	45. 0							
July 18		July 18		July 18		July 18		
0. 0	21. 50. 0	0. 0	·1003	0. 0	·01342	1. 40	68 ·5	70 ·0
1. 0	52. 45		***	2. 0	·00912	3. 40	72 ·0	73 ·0
4. 35	49. 25	1. 14	·0994	2. 45	·00721	9. 40	71 ·0	72 ·0
8. 15	48. 15	2. 39	·1004	4. 25	·00746	21. 40	63 ·5	64 ·5
11. 35	46. 0	4. 20	·1000		·00820			
12. 45	47. 40	5. 15	·1004	8. 0	·00750			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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 18		July 18		July 18				
h m	° ′ ″	h m		h m		h m	°	°
14. 12	21. 46. 0	6. 5	·0998	10. 0	·00698			
15. 1	43. 30		***	12. 0:	·00850			
16. 30	46. 0	9. 0	·1007	13. 30	·01098			
18. 34	41. 20	13. 5	·1010	15. 30	·01530			
19. 51	41. 0	13. 35	·1014	15. 32	·01484			
21. 10	41. 15	13. 47	·1011	23. 0	·01462			
21. 21	46. 35	14. 0	·1016					
21. 45	42. 15	15. 47	·1014					
23. 0	48. 15	17. 32	·1022					
23. 20	48. 40	17. 40	·1033					
			***					
		19. 40	·1039					
		21. 11	·1039					
		21. 23	·1029					
			***					
		22. 57	·1013					
		23. 20	·1020					
July 19		July 19		July 19		July 19		
0. 2	21. 49 5.	0. 0	·1023	0. 0	·01500	1. 40	66 ·0	67 ·0
	***	0. 46	·1034	2. 2	·01483	3. 40	67 ·0	68 ·0
2. 0	53. 0	1. 0	·1032		***	9. 40	62 ·0	63 ·5
	***	1. 5	·1039	4. 50	·01410	21. 40	64 ·0	65 ·0
4. 30	51. 10		***	5. 30	·01372			
4. 44	53. 0	1. 29	·1034		***			
4. 55	51. 15		***	7. 28	·01230			
	***	2. 2	·1040		***			
6. 15	51. 0		(†)	9. 8	·01310			
6. 42	55. 10	3. 12	·1041		***			
	***	3. 25	·1047	10. 40	·01208			
7. 44	49. 0		***	10. 52	·01220			
	***	3. 38	·1040	11. 14	·01192			
8. 0	49. 20		***		***			
8. 16	45. 30	3. 47	·1047	12. 6	·01370			
8. 30	47. 30		***	12. 27	·01400			
8. 48	40. 0	4. 8	·1038	12. 42	·01348			
9. 1	39. 25		***	12. 58	·01420			
9. 14	42. 30	4. 13	·1055		·01350			
9. 30	35. 0	4. 17	·1042		***			
9. 39	39. 0	4. 20	·1051	13. 27	·01408			
	***		***	13. 34	·01383			
10. 7	39. 0	4. 33	·1036	13. 58	·01398			
10. 20	34. 50	4. 47	·1065	14. 11	·01362			
10. 37	47. 45	5. 2	·1042	14. 27	·01382			
11. 9	32. 20	5. 12	·1037		***			
11. 21	38. 40		***	15. 55	·01374			
11. 31	35. 25	5. 35	·1049		***			
11. 45	37. 50		***	16. 15	·01328			
	***	5. 39	·1043		***			
12. 9	37. 0	5. 43	·1053	17. 45	·01439			
12. 30	43. 0	5. 57	·1060		***			
12. 44	56. 30		***	18. 44	·01404			
12. 59	46. 0	6. 15	·1030	19. 12	·01359			
13. 9	44. 10		***		***			
	***	6. 30	·1032	20. 14	·01439			
13. 37	48. 0	6. 55	·1048	22. 10	·01490			
13. 47	46. 55	7. 2	·1067	23. 27	·01422			
14. 14	48. 30		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 19		July 19						
h m	° ′ ″	h m		h m		h m	°	°
14. 29	21. 44. 30	7. 27	·1034					
14. 54	48. 10	7. 32	·1044					
	***	7. 38	·1038					
15. 30	46. 40	7. 46	·1049					
15. 40	48. 30		***					
15. 47	48. 0	8. 17	·1031					
16. 0	55. 20		***					
16. 32	46. 45	8. 42	·1014					
16. 46	46. 45	9. 7	·1024					
17. 25	40. 50	9. 20	·0995					
17. 30	43. 30	9. 30	·1004					
17. 35	42. 0	9. 45	·0986					
	***	10. 3	·0985					
18. 9	47. 0	10. 10	·0978					
18. 16	44. 10		***					
	***	10. 25	·0976					
18. 59	56. 0	10. 29	·0987					
19. 10	56. 10	10. 40	·0997					
	***	10. 45	·0992					
19. 30	54. 20	11. 0	·1018					
19. 45	51. 25	11. 15	·0990					
20. 5	50. 0	11. 20	·0998					
20. 16	53. 15	11. 32	·0998					
	***	11. 40	·0990					
20. 40	49. 35	11. 47	·0989					
	***	12. 0	·1000					
21. 25	51. 50	12. 30	·0981					
21. 45	50. 10	12. 40	·0962					
22. 5	50. 15	13. 4	·1012					
22. 33	54. 0	13. 25	·1019					
22. 43	54. 0	13. 40	·1013					
		13. 48	·1019					
		14. 5	·1011					
		14. 15	·1000					
		14. 32	·1011					
			***					
		15. 5	·0998					
			***					
		15. 42	·1000					
		15. 48	·0991					
			***					
		16. 25	·0990					
			***					
		17. 30	·1024					
		17. 35	·1021					
		17. 46	·1031					
		17. 56	·1024					
		18. 13	·1024					
		18. 16	·1018					
		18. 27	·1019					
		18. 33	·1006					
		18. 40	·1009					
		19. 0	·0971					
		19. 17	·0971					
		19. 23	·0983					
		19. 28	·0978					
		19. 31	·0990					
		19. 38	·0984					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		July 19						
h m	° ′ ″	h m		h m		h m	°	°
		20. 28	·0994					
		20. 35	·0990					
			***					
		21. 0	·0993					
			***					
		21. 40	·0983					
		22. 30	·0984					
		22. 42	·0973					
		22. 47	·0973					
			(†)					
July 20		July 20		July 20		July 20		
1. 40	21. 47. 38*	1. 40	·0985*	0. 0	·01401	1. 40	65 ·5	67 ·0
3. 40	52. 9*	3. 40	·0990*	1. 34	·01262	3. 40	67 ·5	69 ·0
9. 40	47. 31*	9. 40	·1006*	2. 32	·01084	9. 40	69 ·5	70 ·5
21. 40	45. 12*	21. 40	·0998*		(†)	21. 40	65 ·0	66 ·5
				5. 14	·00679			
				6. 31	·00711			
				7. 0	·00762			
				10. 16	·00671			
				10. 29	·00624			
				11. 0	·00619			
				12. 30	·00660			
				14. 27	·00810			
					(†)			
				16. 42	·01230			
				18. 1	·01508			
					·01460			
				21. 44	·01506			
				22. 31	·01514			
				23. 1	·01478			
July 21		July 21		July 21		July 21		
0. 0	21. 54. 5	0. 0	·0992	0. 0	·01391	1. 40	67 ·5	69 ·0
0. 36	56. 35	0. 15	·0993	1. 40	·01138	3. 40	72 ·0	73 ·0
1. 1	55. 10		***	3. 29	·00682	9. 40	71 ·0	74 ·0
1. 15	56. 10	0. 33	·0981	3. 31	·00728	23. 50	67 ·0	68 ·5
	***	0. 43	·0990	7. 40	·00806			
3. 30	56. 10		***	10. 29:	·00710			
4. 25	54. 55	1. 0	·0984	13. 45	·00943			
4. 48	52. 0	1. 15	·0993	15. 1	·01178			
6. 15	51. 20	1. 28	·0991	16. 47	·01542			
7. 1	50. 30	1. 45	·0997		·01500			
8. 29	44. 25		***	20. 14	·01482			
8. 57	47. 55	2. 12	·0996	22. 15	·01530			
9. 20	42. 20	2. 40	·1004	23. 3	·01479			
9. 44	42. 0	2. 50	·0998					
10. 5	46. 25	3. 7	·1006					
11. 14	49. 25	3. 45	·0998					
11. 22	48. 55	3. 47	·1004					
12. 1	49. 40	3. 55	·1000					
12. 19	48. 0	4. 35	·0997					
12. 55	49. 45	4. 48	·1002					
13. 36	44. 0	5. 15	·0998					
14. 1	50. 20		***					
14. 34	46. 0	5. 55	·1005					
	***	6. 2	·1000					
15. 10	46. 55	6. 15	·1005					

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 21		July 21						
h m	° ′ ″	h m		hm		h m	°	°
16. 8	21. 44. 5	6. 45	·1006					
16. 45	48. 0	7. 4	·1015					
	***	7. 31	·1015					
18. 0	48. 30	7. 58	·1005					
18. 14	51. 20		***					
18. 44	48. 15	8. 35	·1018					
18. 59	51. 0	8. 44	·1025					
	***	8. 53	·1019					
20. 14	49. 30	9. 3	·0997					
	***	9. 35	·1021					
20. 50	52. 15	10. 12	·1005					
21. 0	51. 30	11. 48	·1011					
22. 30	54. 30		***					
	(†)	12. 40	·1007					
		13. 15	·1027					
		13. 30	·1022					
		13. 42	·1029					
		14. 31	·1010					
		14. 35	·1014					
		14. 42	·1009					
		14. 50	·1012					
		15. 5	·1008					
		16. 0	·1016					
			***					
		16. 42	·1013					
			***					
		18. 12	·1018					
		18. 18	·1011					
		19. 10	·1004					
		19. 16	·1009					
		19. 27	·1008					
			***					
		20. 2	·1013					
		21. 5	·1011					
		21. 35	·1005					
		22. 43	·1000					
			(†)					
July 22		July 22		July 22		July 22		
0. 0	21. 51. 25	0. 0	·1009	0. 0	·01342	9. 40	76 ·0	77 ·0
1. 58	58. 15		***	1. 46	·01020	21. 40	71 ·0	72 ·5
2. 10	54. 25	1. 25	·1000	2. 44	{·00800			
2. 29	53. 10	1. 32	·0991		{·00835			
2. 45	55. 0	1. 42	·1001		***			
3. 15	53. 30	1. 55	·1002	3. 31	·00878			
3. 39	53. 30	2. 12	·0984	10. 0	·00780			
	(†)	2. 25	·0988	14. 1	·01125			
6. 10	52. 30	2. 33	·1003	16. 51	·01620			
6. 48	49. 40		***	16. 58	·01582			
7. 10	50. 0	3. 17	·1012	22. 17	{·01602			
7. 31	42. 15	3. 32	·1006		{·01450			
7. 45	45. 30		***	23. 59	·01364			
8. 1	44. 50	3. 47	·1008					
8. 44	50. 25	3. 52	·1011					
11. 46	49. 0		***					
12. 18	45. 35	4. 23	·1004					
12. 45	46. 30	4. 30	·1010					
13. 30	53. 55	5. 18	·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.	Of V. F. Magnet.
July 22		July 22						
h m	° ′ ″	h m		h m		h m	°	°
13. 57	21. 54. 50	5. 32	·1012					
14. 6	44. 0	5. 58	·1013					
	***	6. 5	·1018					
15. 29	49. 55	6. 15	·1014					
18. 0	48. 0	6. 42	·1015					
	***	7. 2	·1023					
19. 31	49. 0	7. 20	·1015					
20. 25	55. 40	7. 35	·1036					
21. 0	54. 35	8. 0	·1018					
22. 20	53. 35	8. 5	·1021					
22. 44	55. 0	8. 48	·1004					
23. 59	54. 40		***					
		11. 0	·1013					
		12. 12	·1016					
		12. 57	·1025					
		13. 17	·1017					
		13. 47	·1013					
		15. 32	·1016					
		15. 47	·1019					
		16. 5	·1016					
		17. 15	·1020					
		19. 10	·1015					
			***					
		20. 5	·1003					
		21. 35	·1011					
		22. 58	·1008					
			***					
		23. 59	·1010					
July 23		July 23		July 23		July 23		
0. 0	21. 54. 40	0. 0	·1010	1. 2	·01259	1. 40	73 ·0	74 ·0
1. 5	54. 0	0. 50	·1004	3. 15	·00816	3. 40	74 ·5	76 ·0
1. 30	52. 35		***		***	9. 40	73 ·0	74 ·0
2. 10	53. 0	2. 36	·1015	3. 46	{·00799	21. 40	66 ·0	67 ·5
4. 50	50. 0	3. 32	·1015		{·00938			
5. 37	50. 10		***	6. 25:	·00810			
6. 9	49. 30	5. 20	·1002	9. 30:	·00878			
8. 0	50. 0		***	12. 30	·01126			
11. 15	49. 0	7. 5	·1005	15. 29	·01584			
11. 23	50. 35		***	15. 32	·01545			
11. 32	49. 50	8. 7	·1009	20. 46	·01548			
11. 59	51. 35		***	21. 17	·01540			
12. 50	47. 50	11. 5	·1019	23. 59	·01590			
	***	11. 25	·1022					
15. 31	49. 15	11. 40	·1028					
18. 15	46. 40	13. 35	·1017					
21. 25	48. 25	14. 15	·1021					
23. 59	54. 0	15. 30	·1023					
		16. 45	·1024					
		18. 0	·1023					
		19. 0	·1023					
		21. 10	·1017					
		23. 30	·1015					
		23. 59	·1016					
July 24		July 24		July 24		July 24		
0. 0	21. 54. 5	0. 0	·1017	1. 0	·01554	1. 40	68 ·5	70 ·0
0. 30	55. 35	1. 40	·1015	3. 1	·01494	3. 40	69 ·0	70 ·5

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July24 h m	° ′ ″	July24 h m		July24 h m		July24 h m	°	°
0. 44	21. 58. 0	2. 45	·1019	7. 20:	·01081	9. 40	69 ·0	73 ·0
3. 9	56. 20		***	8. 44	·01012	21. 40	63 ·5	65 ·0
4. 0	54. 0	3. 20	·1016	9. 8	·01010			
5. 45	51. 0		***	9. 17	·00996			
7. 46	50. 0	4. 30	·1019	9. 45	·01014			
	***		***	13. 30	·01288			
8. 10	51. 10	5. 50	·1014	15. 15	·01360			
8. 55	48. 30		***	18. 13	·01406			
9. 14	51. 35	8. 22	·1024	21. 29	·01422			
9. 36	50. 15	8. 48	·1020		·01245			
9. 48	51. 40	8. 59	·1025	23. 13	·01260			
10. 8	49. 40	9. 8	·1044					
10. 35	49. 0	9. 20	·1027					
	***	9. 46	·1020					
11. 45	50. 50	10. 4	·1014					
12. 30	49. 0	10. 16	·1018					
13. 15	49. 40	10. 42	·1020					
13. 36	51. 20	10. 50	·1017					
14. 15	49. 0	11. 7	·1023					
15. 14	49. 30	11. 45	·1018					
15. 56	53. 0	13. 25	·1016					
16. 11	52. 50	14. 12	·1024					
17. 13	48. 30	14. 35	·1014					
18. 13	47. 35		***					
	***	15. 40	·1014					
22. 7	51. 0	16. 33	·1023					
23. 0	55. 5	17. 30	·1019					
		18. 5	·1022					
		20. 0	·1012					
		23. 0	·1014					
		23. 7	·1009					
July25		July25		July25		July25		
0. 0	21. 56. 30	0. 0	·1014	0. 0	·01246	1. 40	67 ·5	69 ·0
1. 1	58. 0		***	3. 58	·00906	3. 40	68 ·5	70 ·0
2. 46	54. 15	1. 20	·1010	8. 0	·00540	9. 40	68 ·0	70 ·0
3. 50	55. 20		***	9. 0:	·00540	21. 40	64 ·0	65 ·0
4. 20	55. 0	2. 15	·1014	13. 30	·00909			
	***		***	15. 32	·01208			
5. 32	51. 10	3. 12	·1011	17. 10	·01363			
	***	3. 21	·1022	17. 13	·01318			
8. 30	48. 5	3. 29	·1020	21. 25	·01362			
9. 55	49. 15	3. 37	·1023	23. 57	·01246			
10. 47	46. 5	3. 43	·1022					
11. 20	46. 30	3. 56	·1025					
11. 43	48. 25	4. 18	·1022					
11. 55	47. 0	4. 42	·1011					
12. 15	47. 50	5. 0	·1014					
12. 38	50. 35	5. 15	·1009					
13. 7	48. 45	5. 20	·1012					
14. 50	45. 10		***					
15. 30:	50. 0	6. 27	·1012					
17. 28	45. 25	7. 12	·1017					
	***	7. 15	·1019					
18. 31	46. 30	7. 25	·1019					
18. 45	45. 25		***					
19. 59	45. 30	7. 47	·1027					
20. 56	47. 45	8. 25	·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.
July25 h m	° ′ ″	July25 h m		h m		h m	°	°
21. 2	21. 46. 0	8. 31	·1016					
23. 53	53. 10	8. 35	·1020					
		9. 0	·1023					
		9. 43	·1019					
		10. 0	·1024					
		10. 15	·1020					
		10. 35	·1023					
		11. 15	·1014					
		12. 3	·1023					
		12. 42	·1014					
		13. 53	·1022					
		14. 0	·1020					
		14. 40	·1018					
		14. 58	·1020					
		15. 15	·1012					
		16. 0	·1023					
		17. 0	·1022					
		18. 30	·1012					
		20. 50	·1017					
		21. 0	·1019					
		21. 2	·1016					
		21. 10	·1019					
		23. 57	·1024					
July26		July26		July26		July26		
0. 0	21. 53. 15	0. 0	·1021	0. 0	·01199	1. 40	65 ·0	67 ·0
0. 32	55. 0	0. 18	·1018	2. 44	·00980	3. 40	67 ·0	67 ·5
	***	0. 29	·1023	4. 45	·00826	9. 40	66 ·0	67 ·0
2. 22	56. 0	0. 50	·1019	6. 55	·00780	21. 40	64 ·5	66 ·5
3. 36	53. 25	1. 12	·1022	10. 0	·00714			
	***	1. 33	·1012	15. 40	·00806			
7. 56	49. 35	1. 43	·1019	20. 10	·00848			
9. 46	51. 0	2. 27	·1022	22. 0:	·00570			
11. 5	51. 0	2. 42	·1015	23. 59	·00516			
	***	2. 47	·1020					
14. 59	48. 35	4. 1	·1030					
15. 29	50. 35	4. 11	·1026					
15. 44	50. 5	4. 18	·1033					
16. 17	51. 25	4. 25	·1026					
17. 9	49. 50	4. 38	·1027					
18. 0	48. 0	4. 49	·1022					
20. 14	48. 25	5. 1	·1027					
20. 28	46. 45	5. 35	·1026					
20. 31	48. 0	5. 47	·1030					
	***	5. 58	·1023					
20. 52	47. 30	6. 35	·1029					
	***		***					
21. 52	50. 50	7. 18	·1026					
22. 13	49. 35	8. 30	·1033					
	***	8. 43	·1028					
23. 31	50. 30	11. 0	·1032					
		13. 3	·1028					
		13. 11	·1034					
		13. 16	·1030					
		14. 30	·1030					
		14. 45	·1026					
		15. 5	·1030					
		16. 16	·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.
h m	° ′ ″	July 26 h m		h m		h m	°	°
		19. 5	·1023					
		22. 7	·1010					
		22. 30	·1012 (†)					
July 27		July 27		July 27		July 27		
0. 45	21. 54. 45	0. 49	·1021	0. 55	·00458	1. 40	68 ·0	70 ·0
2. 35	57. 0	2. 21	·1010	3. 25	·00580	3. 40	69 ·5	71 ·0
5. 0	52. 30	2. 31	·1014	6. 46	·00627	9. 40	69 ·5	72 ·0
5. 40	52. 35	2. 45	·1009 ***	8. 39	·00614	21. 40	66 ·0	67 ·5
5. 55	51. 5			10. 26	·00588			
7. 27	51. 25	3. 48	·1007	12. 30	·00708			
8. 16	49. 15	4. 2	·1016 ***	14. 32	·00861			
8. 37	47. 0			19. 45	·01486			
10. 15	50. 20 ***	4. 54	·1009	19. 54	·01450			
		5. 5	·1014 ***	21. 37	·01466			
11. 45	51. 10			22. 30:	·01468			
12. 20	49. 35	5. 47	·1007	23. 46	·01376			
13. 1	52. 10	6. 0	·1014					
14. 18	48. 0	6. 40	·1016					
15. 16	52. 35	7. 5	·1010					
16. 0	49. 50	8. 0	·1022					
18. 5	49. 30	8. 5	·1030					
20. 0	47. 10	8. 32	·1020					
20. 13	48. 15	9. 15	·1013					
20. 22	46. 35	10. 25	·1017					
20. 59	45. 30	10. 32	·1013					
23. 1	51. 45	11. 12	·1020					
23. 13	51. 0	11. 20	·1017					
23. 16	52. 30	11. 50	·1021					
		12. 12	·1018					
		13. 0	·1024					
		14. 47	·1013					
		15. 10	·1013					
		15. 47	·1020					
		18. 15	·1023					
		21. 0	·1019					
		22. 20	·1010					
		23. 20	·1011					
July 28		July 28		July 28		July 28		
0. 1	21. 53. 30 ***	0. 0	·1005 ***	0. 0	·01365	1. 40	69 ·5	71 ·0
				1. 19	·01210	3. 40	70 ·0	71 ·5
1. 8	56. 10 ***	1. 0	·1005	4. 1	·00665	9. 40	72 ·0	73 ·5
		1. 5	·1014 ***	4. 14	·00686	22. 55	65 ·0	66 ·0
3. 2	53. 40			10. 16	·00642			
3. 29	51. 35	1. 30	·1012	13. 31	·00764			
5. 4	49. 0	1. 33	·1007	18. 59	{·01486			
7. 15	48. 0	1. 41	·1012		{·01440			
8. 33	50. 15	2. 18	·1014	22. 45	·01456			
9. 28	39. 25	2. 25	·1019	23. 20	·01408			
10. 35	48. 15	2. 30	·1014					
12. 8	48. 0	2. 35	·1020					
12. 22	46. 0	3. 17	·1015					
12. 35	48. 30	3. 25	·1007					
12. 59	47. 0	3. 35	·1013					
13. 16	47. 40	4. 25	·1015					
14. 45	45. 25	5. 0	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
July 28 h m	° ′ ″	July 28 h m		h m		h m	°	°
15. 31	21. 47. 30	5. 58	·1010					
16. 15	47. 35 ***	7. 22	·1015					
		7. 27	·1026					
18. 0	43. 30 ***	7. 30	·1024					
		7. 35	·1036					
18. 35	43. 10	7. 40	·1026					
18. 43	44. 30	7. 46	·1024					
18. 53	43. 20	7. 57	·1028					
19. 0	44. 50	8. 5	·1025					
19. 10	53. 20	8. 15	·1031					
19. 36	47. 30	8. 24	·1030					
19. 47	46. 35	8. 28	·1024					
20. 30	47. 0	8. 32	·1023					
21. 2	52. 50	8. 40	·1015					
21. 30	53. 0	8. 45	·1018					
22. 28	55. 40	9. 0	·1015					
22. 31	54. 0	9. 3	·1003					
22. 45	55. 5	9. 15	·1019					
23. 15	54. 55	10. 0	·1014					
		10. 5	·1006 ***					
		10. 47	·1008					
		11. 18	·1016					
		12. 0	·1012					
		12. 30	·1019					
		12. 50	·1033					
		13. 30	·1018					
		14. 0	·1016					
		14. 17	·1022					
		14. 30	·1019					
		15. 50	·1024 ***					
		18. 10	·1027 ***					
		18. 50	·1023 ***					
		19. 28	·1009					
		19. 42	·1010					
		20. 0	·0994					
		20. 25	·0990					
		20. 50	·0996					
		21. 20	·1000					
		21. 31	·0992					
		21. 40	·0999					
		22. 11	·0992 ***					
		22. 40	·0995					
		22. 57	·0989					
		23. 5	·0995					
		23. 17	·0994					
July 29		July 29		July 29		July 29		
0. 0	21. 59. 35	0. 0	·0995 ***	0. 0	·01311 ***	9. 40	74 ·0	76 ·0
0. 29	22. 3. 50					21. 40	70 ·0	71 ·0
0. 35	2. 30	0. 48	·0988 ***	1. 32	·01080 ***			
0. 59	6. 35 ***	0. 55	·0974 ***	3. 1	{·00700			
1. 30	22. 0. 0 ***				{·00735 ***			
		1. 27	·0968					

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 29 h m	° ′ ″	July 29 h m		July 29 h m		h m	°	°
2. 1	21. 57. 40	1. 33	·0992	5. 24	·00806			
	***	1. 35	·0985	7. 58	·00766			
2. 25	22. 0. 0	1. 43	·0996	8. 1	·00740			
2. 31	21. 58. 0		***	9. 46	·00711			
2. 46	58. 35	2. 7	·0988	13. 0	·00816			
3. 1	57. 25	2. 16	·1003	17. 0	·01281			
4. 0	56. 15	2. 24	·0996	19. 1	·01542			
4. 30	53. 35		***	19. 11	·01504			
4. 41	54. 30	2. 33	·0997	20. 44	·01520			
5. 0	53. 0	2. 42	·0983	22. 43	·01514			
7. 44	47. 0	2. 57	·1000	23. 59	·01405			
8. 44	48. 0	3. 5	·0992					
11. 0	44. 50		***					
11. 30	39. 20	3. 42	·0996					
11. 44	39. 25	3. 58	·0984					
	***		***					
12. 29	44. 35	4. 40	·0974					
	***	4. 45	·0982					
13. 0	44. 20	4. 52	·0975					
13. 15	42. 40	5. 2	·0978					
14. 0	46. 0	5. 12	·0969					
16. 10	48. 30	5. 17	·0979					
18. 31	45. 10	5. 20	·0973					
	***	5. 30	·0988					
20. 0	42. 30	5. 54	·0985					
20. 30	43. 10	6. 2	·0990					
22. 10	50. 10	6. 7	·0996					
23. 59	52. 30	6. 12	·0991					
			***					
		7. 45	·0992					
		7. 50	·1003					
		7. 52	·1000					
			***					
		9. 55	·0997					
		10. 1	·1002					
		11. 43	·1006					
		11. 55	·0999					
		12. 13	·1011					
		12. 20	·1011					
		12. 32	·1000					
		13. 1	·0998					
		13. 17	·0989					
		13. 40	·0987					
		13. 45	·0997					
		15. 30	·0999					
		19. 12	·1012					
		21. 0	·0992					
		21. 8	·0986					
		21. 18	·0985					
		21. 32	·0980					
		22. 45	·0990					
			(†)					
July 30		July 30		July 30		July 30		
0. 0	21. 52. 35	0. 0	·1021	0. 30	·01324	1. 40	72 ·5	74 ·0
2. 10	56. 35		***	3. 13	·00759	3. 40	74 ·0	75 ·5
	***	2. 6	·1020		·00786	9. 40	74 ·0	74 ·5
2. 45	55. 35	2. 32	·1014	6. 46	·00844	21. 40	66 ·5	68 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 30 h m	° ′ ″	July 30 h m		July 30 h m		h m	°	°
3. 0	21. 53. 50	2. 43	·1022	8. 56:	·00786			
3. 52	51. 40	2. 50	·1012	11. 10	·00920			
5. 52	52. 0		***	15. 2	·01548			
6. 17	46. 35	5. 12	·1018		·01510			
6. 59	50. 10	5. 18	·1026	18. 34	·01485			
7. 45	49. 30		***	21. 30	·01476			
8. 20	48. 5	5. 55	·1006	23. 13	·01524			
9. 42	49. 0	6. 13	·1015					
10. 0	45. 15	6. 20	·1029					
10. 25:	47. 30	6. 57	·1017					
11. 0	41. 0	7. 56	·1021					
11. 25	47. 50	8. 30	·1012					
11. 44	45. 10	9. 53	·1014					
12. 2	46. 15	10. 3	·1022					
12. 52	43. 45	10. 47	·1017					
13. 37	46. 20		***					
14. 30:	49. 45	13. 25	·1022					
15. 20	46. 10	13. 35	·1026					
17. 50	48. 0	13. 50	·1022					
19. 0	44. 20	15. 2	·1028					
20. 0	45. 0	15. 42	·1022					
	(†)	18. 45	·1028					
		19. 0	·1016					
		19. 52	·1012					
			(†)					
July 31		July 31		July 31		July 31		
0. 0	21. 55. 30	0. 25	·0992	0. 0	·01419	1. 40	69 ·5	71 ·0
0. 31	55. 15	0. 32	·0990	2. 41	·01178	3. 40	71 ·0	73 ·0
1. 15	56. 55		***	5. 35:	·00752	9. 40	70 ·8	73 ·5
	***	3. 0	·1004	7. 34	·00758	21. 40	63 ·5	65 ·5
2. 30	56. 15	3. 18	·0998	9. 28:	·00720			
	***		***	10. 59	·00864			
4. 36	52. 20	3. 50	·1006	13. 58	·01486			
5. 14	49. 20	4. 15	·1000		·01430			
5. 44	48. 55	4. 30	·1007	17. 10	·01492			
6. 0	50. 0		***	19. 49	·01465			
7. 15	49. 0	5. 0	·0996	21. 29	·01480			
10. 14	48. 45		***	21. 58	·01478			
10. 45	50. 15	5. 20	·1010	22. 30:	·01425			
11. 45	48. 30	5. 31	·1004	23. 26	·01322			
12. 5	49. 20		***					
12. 46	48. 0	6. 30	·1006					
14. 0	49. 35	6. 42	·1021					
14. 34	48. 34	6. 54	·1010					
14. 52	50. 0	7. 13	·1015					
15. 45	47. 45	7. 28	·1011					
16. 14	51. 30		***					
16. 21	50. 35	10. 7	·1014					
16. 26	53. 30	10. 48	·1012					
16. 32	52. 5	11. 2	·1021					
16. 45	53. 20	11. 20	·1019					
17. 50	47. 20	11. 32	·1022					
18. 40	48. 10		***					
18. 52	47. 0	11. 55	·1017					
19. 2	48. 40		***					
19. 41	46. 30	13. 26	·1014					
19. 52	48. 30		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 31		July 31						
h m	° ′ ″	h m		h m		h m	°	°
21. 16	21. 48. 25	15. 40	·1030					
21. 30	47. 30		***					
23. 8	51. 15	16. 13	·1018					
		17. 20	·1034					
		18. 0	·1031					
		18. 28	·1038					
		19. 15	·1029					
		19. 35	·1018					
		20. 0	·1018					
		21. 0	·1027					
		22. 47	·1023					
		22. 58	·1017					
		23. 25	·1014					
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 8	21. 51. 35	0. 0	·0989	0. 11	·01228	2. 0	71 ·0	71 ·5
1. 30	53. 20	1. 27	·0984	1. 6	·01028	3. 40	74 ·0	75 ·5
7. 45	47. 0		***	2. 29	·00692	9. 40	72 ·0	73 ·5
10. 40	48. 10	2. 45	·0993	3. 14	·00721	21. 40	69 ·5	71 ·0
13. 30	48. 15		***	4. 46	·00740			
13. 45	46. 40	5. 0	·0997		·00810			
14. 6	49. 0	7. 30	·1003	6. 37	·00758			
15. 2	43. 10		***	8. 31	·00750			
16. 0	46. 0	12. 12	·1007	10. 35:	·00700			
20. 26	45. 15	13. 47	·1017	11. 45	·00771			
21. 38	44. 5	14. 15	·1022	14. 32	·00918			
23. 59	50. 0	15. 10	·1012	18. 0	·01145			
		18. 35	·1014	20. 14	·01384			
		19. 30	·1002	21. 11	·01420			
		21. 2	·1000	22. 15	·01456			
		22. 27	·0989 (†)	22. 44	·01428			
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 0	21. 50. 5	0. 0	·0991	0. 0	·01310	1. 40	72 ·0	73 ·5
0. 52	53. 5	0. 35	·0992	2. 20	·01040	3. 40	73 ·5	75 ·0
3. 0	54. 0	1. 35	·0999	4. 0	·00747	9. 40	73 ·5	75 ·0
5. 5	49. 50	2. 26	·0995		·00794	21. 40	66 ·5	67 ·5
6. 21	48. 0	2. 32	·0989	6. 5	·00788			
7. 8:	49. 45	2. 50	·0998	10. 31	·00746			
9. 20	48. 20		***	11. 45	·00880			
10. 51	49. 30	4. 17	·0994	13. 5	·01098			
11. 20	46. 0	4. 30	·0980	13. 30	·01122			
12. 17	49. 30	4. 57	·0985	13. 54	·01526			
13. 0	47. 20	5. 12	·0984		·01480			
13. 16	57. 0	5. 50	·0990	18. 57	·01490			
14. 0	48. 20	6. 0	·0987	22. 2	·01482			
15. 0	46. 20	6. 32	·0983		·01385			
16. 15	48. 0		***	22. 45	·01380			
22. 15	43. 30	7. 0	·0990					
	(†)	7. 12	·0995					
		7. 57	·0990					
		8. 7	·0996					
		9. 13	·0999					
		11. 15	·1006					
		13. 0	·1002					
		13. 20	·1009					
		14. 30	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 2								
h m	° ′ ″	h m		h m		h m	°	°
		15. 13	·1006					
		18. 30	·1011					
		19. 5	·1002					
		20. 10	·1000 (†)					
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 0	21. 50. 55	0. 0	·0990	0. 0	·01302	1. 40	70 ·5	71 ·5
1. 45	51. 0		***	1. 46	·01094	3. 40	71 ·0	74 ·0
3. 0	52. 10	2. 47	·0988	3. 26	·00769	9. 40	71 ·0	73 ·0
4. 20	51. 40		***	6. 25	·00800	21. 40	65 ·0	67 ·0
6. 30	47. 35	3. 25	·0990	8. 15	·00780			
7. 50	48. 30		***	9. 45	·00748			
8. 28	47. 35	3. 48	·0998	13. 26	·01098			
8. 40	48. 30	4. 11	·0986	15. 12	·01362			
11. 0	48. 30	4. 16	·1000	15. 56	·01501			
12. 15	43. 10		***		·01478			
13. 0	46. 0	4. 59	·0998	20. 25	·01478			
13. 30	44. 50	5. 15	·0991	22. 45	·01504			
13. 51	45. 10	5. 25	·0997	23. 46	·01404			
14. 20	50. 30		***					
14. 38	51. 30	5. 58	·0994					
15. 14:	48. 0	6. 5	·1000					
16. 0	48. 40	6. 12	·0995					
16. 31	46. 30	6. 34	·0996					
19. 59	43. 35	6. 57	·0992					
21. 30	44. 45	7. 5	·0997					
	(†)		***					
		8. 15	·0997					
		8. 47	·0994					
		9. 15	·1002					
		9. 35	·0996					
		10. 12	·1002					
			***					
		11. 10	·1009					
		11. 15	·1005					
		11. 55	·1002					
		12. 12	·1014					
		12. 30	·1007					
			***					
		14. 27	·1003					
		14. 53	·1012					
		15. 8	·1013					
		15. 35	·1009					
		17. 30	·1016					
		18. 15	·1017					
		19. 18	·1010					
		20. 30	·1010					
		21. 27	·0998 (†)					
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 0	21. 51. 20	0. 8	·1000	0. 0	·01400	1. 40	68 ·0	71 ·0
1. 2	54. 0	0. 35	·1000	1. 44:	·01128	3. 40	71 ·7	73 ·5
4. 0	53. 5	0. 52	·0997	3. 18	·00735	9. 40	72 ·0	75 ·0
5. 0	50. 20	1. 42	·0998		·00770	23. 0	67 ·5	69 ·2
6. 55	48. 30	1. 47	·0990	5. 4	·00806			

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. 4		Aug. 4		Aug. 4				
h m	° ′ ″	h m		h m		h m	°	°
7. 45	21. 45. 50	2. 31	·0992	8. 15	·00804			
8. 27	48. 0		***	9. 13	·00770			
	***	3. 40	·0988	10. 25	·00786			
9. 29	48. 5	3. 47	·0992	14. 45	·01119			
	***	3. 58	·0993	15. 0	·01111			
10. 11	45. 45	4. 5	·0986	15. 31	·01200			
10. 32	42. 35	4. 42	·0997	17. 55	·01516			
10. 58	43. 30	5. 12	·0987	17. 59	·01479			
11. 15	47. 30	5. 30	·0993	22. 45	·01462			
12. 0	44. 35	5. 41	·0990					
	***	5. 52	·0993					
13. 28	45. 30	6. 0	·0989					
13. 37	43. 35	6. 12	·0988					
13. 59	43. 35	6. 18	·1000					
14. 34	51. 30	6. 40	·0987					
15. 26	40. 0	6. 47	·0995					
15. 45	40. 20		***					
16. 14	44. 0	7. 10	·0992					
	***		***					
16. 59	38. 30	8. 10	·1007					
17. 30	43. 0		***					
17. 33	42. 0	8. 45	·1006					
17. 52	43. 30	8. 55	·1011					
18. 5	42. 0	9. 4	·1007					
19. 7	46. 35	9. 24	·1010					
19. 30	45. 0	9. 29	·1007					
	***	10. 27	·1019					
20. 15	45. 0	10. 46	·1013					
20. 32	47. 15		***					
20. 51	47. 0	13. 52	·1005					
21. 30	48. 50	14. 20	·0995					
21. 42	51. 0	14. 47	·1006					
21. 58	50. 15	15. 40	·1012					
22. 7	51. 30	15. 57	·1015					
	***	16. 2	·1019					
22. 45	51. 0	16. 45	·1021					
23. 30	53. 0	16. 58	·1014					
			***					
		17. 53	·1011					
		18. 0	·1005					
		18. 25	·1007					
		18. 31	·1003					
			***					
		20. 0	·1009					
		20. 8	·1004					
		20. 50	·1002					
			***					
		22. 1	·0984					
		22. 10	·0989					
		22. 35	·0988					
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
1. 3	22. 2. 5	0. 0	·0991	0. 0	·01458	9. 20	72 ·5	74 ·0
2. 16	22. 0. 0	1. 25	·0998	2. 9	·01356	21. 40	67 ·0	68 ·0
3. 45	21. 55. 10	1. 35	·0992	3. 29	·01198			
4. 13	55. 25	1. 47	·0997	3. 41	·01139			
5. 29	51. 10	2. 12	·0983	5. 40	·00831			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 5		Aug. 5		Aug. 5				
h m	° ′ ″	h m		h m		h m	°	°
5. 45	21. 50. 10	2. 17	·0976	5. 46	·00871			
6. 10	51. 15	2. 23	·0984	6. 44	·00790			
6. 35	49. 40	2. 30	·0980		·00820			
7. 4	44. 30	3. 14	·0998	9. 47	·00762			
7. 45	48. 0		***	11. 1:	·00809			
9. 45	49. 5	4. 0	·0997	13. 44	·01080			
13. 24	49. 0	4. 13	·0987	16. 16	·01481			
14. 0	50. 20	4. 42	·0987		·01452			
15. 15	49. 0	4. 53	·1000	17. 4	·01449			
15. 29	50. 10	5. 3	·0991	20. 15	·01465			
16. 1	49. 30	5. 16	·0987	22. 55	·01452			
16. 21	50. 20	5. 28	·0992	23. 59	·01421			
17. 10	48. 10	6. 10	·0994					
19. 15	44. 50	6. 20	·0984					
20. 30	44. 15		***					
22. 10	46. 5	6. 55	·0984					
23. 59	51. 0	7. 25	·1006					
		7. 30	·1001					
		7. 33	·1004					
		7. 47	·0997					
		10. 0	·1000					
		13. 5	·1006					
		13. 50	·1007					
		14. 35	·1010					
			***					
		16. 38	·1011					
		19. 50	·1010					
		21. 0	·1011					
		22. 25	·0994					
		23. 25	·0994					
		23. 59	·0992					
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
0. 0	21. 51. 5		(†)		(†)	1. 40	68 ·5	70 ·0
0. 51	52. 30	4. 10	·1005	3. 57	·01002	3. 40	69 ·5	71 ·0
	(†)	4. 40	·1008	4. 46	·00918	9. 40	72 ·5	74 ·0
4. 15	51. 20		***	6. 33	·00688	21. 40	68 ·5	70 ·0
7. 0	50. 0	5. 25	·1002	6. 43	·00710			
9. 40	50. 0	5. 31	·0997	9. 15	·00745			
10. 14	48. 40	5. 47	·1008	12. 31	·00710			
11. 15	49. 50	5. 55	·1004	15. 0	·00774			
11. 30	49. 10		***	17. 43	·00940			
12. 25	49. 25	6. 47	·1002	21. 8	·01290			
13. 15	48. 0		***	22. 36:	·01281			
16. 30	50. 15	8. 57	·1009	23. 59	·01235			
17. 30	48. 25	9. 50	·1006					
19. 40	48. 0	11. 40	·1009					
21. 14	49. 10	16. 7	·1013					
23. 59	54. 0	16. 30	·1008					
		17. 42	·1012					
		21. 45	·1013					
		23. 0	·1004					
		23. 59	·1002					
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
0. 0	21. 54. 10	0. 0	·1002	0. 45	·01176	1. 40	71 ·0	73 ·0
0. 39	54. 30	0. 43	·1006	3. 58	·00771	3. 40	72 ·5	74 ·0
3. 30	50. 35		***		·00820	9. 40	71 ·0	73 ·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 7		Aug. 7		Aug. 7		Aug. 7		
h m	° ′ ″	h m		h m		h m	°	°
6. 45	21. 49. 0	1. 30	·1010	8. 15	·00755	21. 40	66 ·0	68 ·0
10. 16	50. 15		***	9. 45:	·00807			
13. 31	50. 20	3. 15	·1004	10. 32	·00862			
14. 1	49. 3		***	12. 4	·01019			
14. 30	50. 25	6. 22	·1002	15. 16	{·01516			
14. 50	49. 0	7. 35	·1007		{·01470			
15. 33	49. 45		***	19. 28	·01506			
17. 10	49. 0	12. 50	·1011	20. 32	·01488			
17. 50	47. 30	13. 35	·1017	23. 0	·01480			
22. 30	48. 15	14. 12	·1011	23. 40	·01460			
23. 59	49. 35	14. 47	·1017					
		15. 5	·1014					
		19. 15	·1015					
		21. 0	·1014					
		23. 42	·0998					
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
1. 40	21. 50. 28*	0. 0	·0998	0. 0	·01430	1. 40	70 ·0	71 ·5
3. 40	51. 18*		***	2. 17:	·01190	3. 40	70 ·5	72 ·0
9. 40	49. 27*	0. 55	·0998	5. 5:	·00720	9. 40	68 ·0	71 ·0
21. 40	45. 47*	1. 13	·0992	5. 59	·00639	21. 40	63 ·5	65 ·0
			***	6. 1	·00670			
		3. 40	·0997	8. 31:	·00669			
			***	9. 41	·00720			
		4. 33	·1014	13. 28	·01086			
			***	16. 29	{·01461			
		5. 42	·1004		{·01410			
		7. 13	·1016	20. 25	·01448			
		7. 47	·1013	21. 13	·01410			
		8. 22	·1016	22. 30	·01384			
		14. 0	·1021	23. 59	·01446			
		17. 50	·1017					
		20. 0	·1017					
		22. 30	·1000					
		23. 59	·1004					
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
1. 35	21. 56. 0	0. 0	·1004	0. 52	·01420	1. 40	66 ·0	67 ·5
5. 0	49. 40	0. 50	·1005	3. 45	·01406	3. 40	66 ·0	67 ·5
8. 30	49. 10	1. 15	·1005	3. 23:	·01341	9. 40	67 ·0	69 ·0
9. 16	48. 40	1. 30	·1010	6. 28	·01079	21. 40	61 ·0	62 ·5
10. 20	50. 0	2. 50	·1007	9. 30:	·00878			
10. 39	48. 50	3. 30	·1014	11. 45	·00970			
12. 6	49. 15		***	14. 9	·01230			
12. 30	47. 35	6. 15	·1013	15. 14	{·01426			
12. 46	49. 10	7. 7	·1020		{·01350			
13. 14	48. 35		***	17. 28	·01402			
13. 32	55. 50	8. 45	·1018	17. 44	·01360			
14. 34	46. 35	11. 18	·1023	17. 58	·01400			
15. 31	45. 5	11. 42	·1018	22. 15	·01404			
16. 15	47. 0	12. 29	·1020	22. 58:	·01350			
17. 50	48. 10	12. 37	·1017	23. 56	·01240			
18. 44	46. 30	13. 0	·1015					
	***	14. 13	·1022					
20. 51	46. 35	15. 40	·1021					
23. 55	53. 40	17. 16	·1023					
		18. 15	·1027					
		21. 10	·1013					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 9						
h m	° ′ ″	h m		h m		h m	°	°
		23. 30	·1006					
		23. 56	·1011					
Aug. 10		Aug. 10		Aug. 10		Aug. 10		
0. 20	21. 52. 30	0. 17	·1008	0. 0	·01212	1. 40	64 ·0	66 ·5
3. 8	53. 0	1. 40	·1007	3. 13	·00541	3. 40	67 ·0	68 ·5
4. 27	51. 35	3. 13	·1019	3. 16	·00576	9. 40	67 ·5	69 ·5
5. 47	49. 0	3. 27	·1016	7. 13:	·00658	21. 40	65 ·0	67 ·0
11. 37	48. 20	3. 48	·1020	10. 21	·00610			
	***	4. 0	·1017	12. 0	·00640			
13. 39	48. 10	4. 29	·1020	14. 56	·00842			
14. 6	49. 5		***	17. 6	·01062			
14. 48	47. 30	5. 17	·1011	20. 15	·01314			
15. 14	48. 15	5. 25	·1013	23. 0:	·01367			
16. 30	48. 15	5. 32	·1010	23. 55	·01304			
	***	6. 10	·1012					
17. 18	44. 40	6. 18	·1008					
	***	6. 25	·1011					
20. 45	45. 0	6. 42	·1014					
22. 7	47. 0	6. 50	·1014					
23. 22	52. 15	6. 56	·1010					
		7. 10	·1012					
		7. 25	·1011					
		7. 42	·1013					
		7 52	·1016					
		8. 25	·1016					
		8. 31	·1018					
		9. 0	·1017					
		13. 22	·1018					
		13. 40	·1016					
		14. 28	·1022					
		14. 55	·1019					
		15. 15	·1022					
		15. 22	·1021					
		16. 32	·1026					
			***					
		18. 45	·1027					
			***					
		19. 42	·1025					
		21. 17	·1027					
		23. 30	·1012					
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 5	21. 56. 15	0. 40	·1010	0. 0	·01300	1. 40	68 ·0	69 ·0
	***	2. 16	·1020	1. 0	·01190	3. 40	71 ·0	72 ·0
2. 50	22. 1. 35	2. 47	·1028	3. 41	{·00698	9. 40	72 ·5	73 ·5
	***	3. 5	·1016		{·00740	22. 55	68 ·5	69 ·5
4. 25	21. 56. 0	3. 17	·1018	7. 4	·00771			
4. 45	52. 0	3. 28	·1016	10. 29	·00711			
	***	3. 39	·1019	11. 45	·00661			
5. 35	53. 0	4. 5	·1002	14. 45	·00800			
6. 40	51. 0	4. 25	·1012	19. 0	·01130			
9. 0	50. 30	4. 42	·1005	22. 15:	·01218			
	***	5. 0	·1010	23. 30	·01214			
10. 15	44. 40	5. 15	·1002					
	***	5. 44	·1001					
11. 6	49. 30	5. 56	·1007					
12. 5	44. 55	6. 7	·1004					
13. 0	47. 30		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 11		Aug. 11						
h m	° ′ ″	h m		h m		h m	°	°
13. 52	21. 47. 5	7. 15	·1016					
14. 20	50. 20	7. 18	·1009					
14. 50	47. 30	7. 45	·1018					
15. 1	47. 30	8. 3	·1017					
15. 32	44. 10	8. 13	·1021					
16. 21	44. 30	8. 40	·1013					
16. 46	46. 25	10. 5	·1012					
18. 40	46. 50	10. 20	·1018					
19. 57	48. 30	10 40	·1019					
21. 0	48. 0	10. 52	·1025					
23. 4	51. 50	11. 4	·1036					
23. 59	56. 50	11. 33	·1023					
		11. 48	·1012					
		13. 15	·1017					
		14. 0	·1019					
		14. 37	·1024					
		15. 2	·1022					
		15. 28	·1016					
		16. 4	·1017					
		16. 25	·1013					
		16. 30	·1015					
		18. 48	·1013					
		19. 15	·1007					
		20. 0	·1013					
		21. 15	·1014					
		22. 20	·1006					
		23. 17	·1002					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 0	21. 56. 55		(†)	0. 0	·01198	10. 40	69 ·0	71 ·0
0. 45	58. 0	1. 25	·1000	3. 45	·01109	21. 40	62 ·0	64 ·5
1. 26	56. 30	1. 57	·1007	9. 15	·00859			
7. 45	51. 0	4. 17	·1019	10. 20	·00900			
8. 14	51. 15		***	14. 15	·01488			
9. 30	49. 40	6. 17	·1016	14. 28	·01449			
10. 5	50. 40	7. 13	·1017	17. 42	·01400			
16. 0	50. 10	7. 22	·1013	20. 0	·01370			
18. 25	49. 10	7. 35	·1015	23. 59	·01358			
20. 13	49. 30	8. 26	·1011					
20. 45	48. 0	8. 38	·1017					
22. 15	50. 30	9. 0	·1019					
	(†)	9. 27	·1017					
		10. 32	·1015					
		14. 30	·1022					
		16. 13	·1024					
		16. 45	·1025					
		18. 13	·1026					
		19. 10	·1024					
		22. 18	·1016					
			(†)					
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 55	21. 53. 35	0. 48	·1003	0. 33	·01280	1. 40	66 ·0	68 ·0
3. 35	53. 20		***	1. 17	·01160	3. 40	68 ·5	71 ·0
4. 45	50. 40	4. 15	·0998	3. 16	·00649	9. 40	69 ·0	70 ·0
5. 15	51. 0	5. 5	·1004		·00688	21. 40	64 ·0	66 ·0
5. 55	49. 0	5. 30	·0994	7. 40	·00726			
7. 18	49. 55	7. 11	·1009	9. 55	·00671			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 13		Aug. 13		Aug. 13				
h m	° ′ ″	h m		h m		h m	°	°
8. 43	21. 48. 30	7. 35	·1005	11. 0	·00708			
	***	8. 20	·1002	13. 26	·00952			
9. 35	48. 40	8. 40	·1007	16. 13	·01462			
10. 4	45. 5	9. 13	·1002		·01418			
10. 45	48. 0	9. 54	·1004	20. 33	·01375			
11. 16	48. 30	10. 16	·1010	22. 46	·01370			
13. 25	50. 0	11. 5	·1006					
19. 20	49. 10	14. 45	·1016					
21. 17	46. 40	18. 42	·1023					
21. 40	47. 50	18. 54	·1015					
	(†)	19. 0	·1021					
23. 0	50. 0	22. 4	·1021					
	***							
23. 59	51. 40							
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 0	21. 52. 0	0. 0	·1014	0. 0	·01311	1. 40	63 ·0	66 ·0
	***	0. 57	·1019	1. 16:	·01146	3. 40	66 ·0	68 ·0
1. 32	55. 20	1. 23	·1015	3. 48	·00586	9. 40	68 ·5	70 ·0
	***	2. 14	·1013		·00620	21. 40	65 ·0	67 ·5
2. 46	55. 20	2. 47	·1021	8. 21	·00646			
	***	2. 57	·1013	10. 40	·00624			
6. 50	49. 20		***	14. 10	·00631			
	***	4. 0	·1025	17. 14	·00806			
9. 45	49. 15	4. 12	·1019	20. 12	·00996			
	***	4. 48	·1020	22. 35	·01098			
10. 29	47. 50	5. 7	·1027	23. 29	·01039			
11. 10	33. 0		***	23. 59	·01084			
11. 19	32. 15	5. 32	·1024					
	***	5. 42	·1016					
11. 55	37. 15		***					
12. 14	37. 0	5. 55	·1014					
13. 3	43. 35	6. 18	·1026					
14. 15	44. 0	6. 45	·1017					
14. 39	47. 0	7. 18	·1025					
15. 0	45. 25	7. 45	·1020					
15. 22	47. 30	7. 57	·1021					
15. 44:	45. 0	8. 24	·1023					
16. 6	46. 35	8. 31	·1021					
16. 30	45. 10	8. 40	·1024					
18. 34	45. 30	8. 45	·1022					
18. 57	43. 0	8. 48	·1026					
	***	9. 15	·1026					
20. 25	42. 30	9. 22	·1034					
20. 43	44. 30	9. 45	·1030					
21. 2	43. 0	10. 0	·1020					
21. 40	47. 35	10. 16	·1025					
	(†)	10. 20	·1019					
		10. 28	·1027					
		10. 54	·1022					
		11. 3	·1028					
		11. 20	·1023					
		11. 45	·1000					
		12. 22	·1016					
		12. 30	·1011					
		14. 16	·1017					
		14. 25	·1012					
		14. 30	·1016					

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. 14 h m		h m		h m	°	°
		15. 0	·1010 ***					
		18. 10	·1018					
		19. 48	·1015					
		20. 31	·1019					
		21. 0	·1013 ***					
		21. 43	·1002 (†)					
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
0. 30	21. 54. 15	0. 30	·1022	0. 45	·01044 ***	1. 40	67 ·5	69 ·0
1. 0	59. 0	0. 55	·1022			3. 40	68 ·0	70 ·0
1. 30	56. 15	1. 17	·1010	3. 13	·00866	9. 40	70 ·0	73 ·0
1. 36	58. 5 ***	2. 5	·1020	4. 45	·00636	21. 40	65 ·0	67 ·0
		2. 20	·1017		·00720			
3. 27	55. 30	2. 33	·1019	8. 14	·00744			
3. 51	55. 50 ***	2. 52	·1016 ***	10. 15	·00684			
				12. 30	·00701			
5. 30	50. 30	3. 46	·1022	14. 55	·00904			
6. 0	51. 0	4. 2	·1012	15. 30:	·00911			
6. 14	49. 40 ***	4. 31	·1012	16. 50	·01121			
		4. 47	·1019	17. 15	·01159			
7. 45	47. 30	4. 57	·1014	18. 36	·01439			
8. 23	37. 0	5. 7	·1021		·01380			
8. 51	43. 30 ***	5. 17	·1018	20. 20	·01409			
		5. 23	·1024	22. 46	·01441			
9. 15	43. 15	5. 35	·1008					
9. 45	47. 0 ***	6. 1	·1019					
		6. 48	·1012					
12. 14	49. 45	7. 23	·1018 ***					
12. 20	48. 15							
12. 40	52. 55	7. 55	·1012					
13. 0	48. 0	8. 3	·1023					
13. 14	49. 40	8. 15	·1017					
13. 52	47. 50 ***	8. 28	·1029					
		8. 40	·1029					
14. 34	21. 49. 30	9. 10	·1013					
15. 7	22. 0. 55	9. 34	·1019					
15. 47	21. 51. 50	9. 42	·1016					
16. 10	53. 0	10. 52	·1014					
16. 36	50. 50	11. 25	·1021					
17. 1	53. 10	11. 33	·1017					
17. 30	47. 20	11. 42	·1020					
17. 36	47. 5	12. 0	·1019					
18. 5	50. 0	12. 20	·1019 (†)					
18. 31	49. 40							
18. 45	47. 0	13. 44	·1010					
19. 7	47. 5	14. 14	·1012					
19. 20	45. 30	14. 28	·1002					
19. 33	46. 20	14. 31	·1006					
20. 16	43. 0 ***	14. 44	·1004					
		14. 48	·1011					
22. 0	52. 20	15. 10	·1007					
22. 17	51. 20 ***	15. 40	·1010					
		15. 50	·1018					
23. 35	53. 0	16. 2	·1012					
23. 59	53. 30	16. 31	·1012					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug. 15 h m		h m		h m	°	°
		17. 2	·1027					
		17. 26	·1026					
		17. 35	·1021					
		17. 57	·0995					
		18. 7	·0994					
		18. 46	·1016					
		19. 10	·1019					
		20. 17	·1007					
		20. 31	·1008					
		21. 11	·1004					
		21. 28	·0992					
		21. 56	·0994					
		22. 15	·0990 ***					
		22. 48	·0992 (†)					
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 0	21. 53. 30 ***	0. 0	·0993 ***	0. 0	·01318	1. 40	69 ·5	71 ·0
				1. 39	·00978	3. 40	70 ·0	74 ·0
1. 31	56. 40 ***	1. 40	·1001	2. 39	·00732	9. 40	78 ·0	79 ·0
		1. 46	·0990		·00764	21. 40	66 ·0	68 ·0
1. 55	55. 0	2. 2	·1002	4. 0	·00840			
2. 11	55. 30	2. 37	·1005	4. 4	·00822			
2. 40	58. 35	2. 48	·1015	8. 15	·00824			
3. 1	54. 40	3. 12	·0985	10. 0	·00784			
3. 45	55. 5	3. 30	·0990	11. 0	·00780			
3. 55	53. 0	3. 45	·0988	12. 31:	·00878			
6. 6	49. 40	3. 50	·0997	16. 26	·01508			
6. 34	46. 50	3. 58	·0996	16. 33	·01470			
6. 57	47. 0	4. 7	·1004	22. 0	·01444			
7. 33	37. 35	4. 16	·1002	22. 42	·01492			
7. 57	38. 40	4. 27	·0990					
8. 13	37. 0	5. 15	·1003					
9. 1	45. 0	5. 43	·1000					
10. 14	46. 0 ***	5. 58	·0993					
		6. 15	·1002					
10. 46	42. 30	6. 28	·0995					
11. 4	42. 30	6. 47	·0997					
11. 25	39. 35	7. 3	·1006					
12. 0	47. 40	7. 30	·1001					
12. 20	44. 45	7. 43	·1010					
12. 55	42. 35	7. 53	·1011					
13. 53	45. 10	8. 2	·1004					
14. 30	48. 30	8. 16	·1005					
14. 46	47. 0	8. 45	·0995					
15. 30	48. 0	9. 45	·0997					
15. 44	47. 0	10. 3	·0996					
16. 12	49. 5 ***	10. 14	·1001					
		10. 45	·1001					
17. 40	48. 30 ***	11. 0	·1021					
		11. 11	·1016					
18. 15	46. 0	11. 19	·1015					
19. 15	45. 40 ***	11. 30	·1009					
		11. 41	·1019					
19. 59	46. 0	12. 4	·1008					
20. 16	43. 0	13. 15	·0998					
20. 45	45. 0	14. 44	·1008 ***					

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.16		Aug.16						
h m	° ′ ″	h m		h m		h m	°	°
21. 6	21. 44. 35	16. 0	·1009					
	***	16. 15	·1004					
22. 0	48. 30	16. 25	·1007					
	***	16. 35	·1002					
23. 59	58. 40	17. 17	·1008					
		17. 32	·1004					
		17. 47	·1008					
		17. 55	·1004					
		18. 45	·1008					
			***					
		19. 58	·1004					
			(†)					
Aug.17		Aug.17		Aug.17		Aug.17		
0. 0	21. 58. 45	0. 0	·0992	0. 0	·01404	1. 40	71 ·0	72 ·5
0. 31	55. 25	0. 30	·0996	1. 16:	·01018	3. 40	72 ·0	75· 0
0. 59	57. 35	0. 32	·0992	3. 0	·00771	9. 40	75 ·0	77 ·0
	***	0. 50	·1000		·00859	21. 40	67 ·0	68 ·0
2. 1	54. 30	1. 10	·0985	3. 36	·00869			
	***	1. 24	·0981		·00900			
3. 2	56. 20	1. 37	·1000	7. 10	·00866			
3. 31	48. 30		***	9. 41:	·00780			
3. 52	51. 20	2. 44	·1002	13. 29:	·01094			
4. 6	50. 10	3. 8	·0990	15. 44	·01519			
	***	3. 35	·1010	15. 57	·01502			
5. 9	51. 10	3. 50	·1004	18. 40	·01500			
	***	4. 15	·1002	21. 13	·01486			
6. 45	56. 30	4. 20	·1004	22. 2	·01506			
7. 12	46. 30	4. 46	·0991	23. 31	·01417			
7. 31	42. 30	5. 2	·0990					
7. 55	45. 50	5. 10	·0997					
8. 25	44. 25	5. 15	·0993					
9. 0	44. 50	5. 17	·0997					
9. 20	43. 0	5. 50	·0991					
10. 15	48. 0	5. 57	·0998					
10. 45	46. 35	6. 43	·1001					
11. 5	48. 45	7. 23	·1005					
	***	7. 32	·1013					
12. 14	47. 0	8. 0	·1002					
12. 45	49. 15	8. 22	·1007					
12. 54	48. 0	8. 35	·0997					
13. 10	49. 20	9. 20	·1005					
14. 45	48. 0	9. 44	·1001					
17. 8	50. 10	10. 2	·1004					
17. 47	46. 35	10. 15	·0997					
	***	10. 30	·0996					
18. 45	47. 45	10. 35	·1002					
	***	12. 15	·1009					
19. 36	46. 0	12. 25	·1004					
20. 56	46. 30	12. 55	·1010					
23. 0	52. 10	13. 30	·1007					
23. 59	52. 40	17. 1	·1005					
		17. 41	·1010					
			(†)					
		21. 40	·0995*					
Aug.18		Aug.18		Aug.18		Aug.18		
0. 0	21. 52. 45	0. 0	·0997	0. 0	·01379	1. 40	70 ·5	73 ·5
1. 50	55. 30	1. 5	·0995	1. 40	·01098	3. 40	73 ·0	76 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.18		Aug.18		Aug.18		Aug.18		
h m	° ′ ″	h m		h m		h m	°	°
5. 30	21. 48. 30	1. 30	·0999	2. 54	·00786	9. 40	75 ·5	77 ·5
6. 29	48. 20	2. 4	·0993		·00820	23. 10	70 ·0	71 ·0
	***	3. 25	·0991	5. 59:	·00879			
7. 15	43. 0	3. 30	·0994	8. 34:	·00809			
8. 10	46. 0		***	11. 1	·00904			
8. 47	47. 20	6. 0	·0996	14. 31	·01245			
9. 14	46. 30		(†)	17. 39	·01569			
9. 51	48. 0	9. 0	·1003*	17. 46	·01539			
9. 54	47. 30	23. 10	·0995*	19. 30	·01509			
10. 10	48. 10			21. 40	·01538			
12. 20	48. 0			23. 2	·01522			
13. 22	47. 15							
14. 15	44. 25							
14. 30	44. 30							
14. 46	45. 50							
15. 1	46. 0							
15. 36:	49. 30							
16. 32	49. 30							
17. 44	45. 30							
	***							
19. 55	44. 25							
	***							
23. 15	51. 20							
Aug.19		Aug.19		Aug.19		Aug.19		
11. 5	21. 47. 40*	11. 5	·1020*	0. 0	·01500	11. 5	72 ·0	73 ·0
21. 40	48. 39*	21. 40	·1008*	0. 41	·01470	21. 40	67 ·0	68 ·0
				2. 15	·01322			
				5. 30	·00810			
					·00850			
				5. 45	·00849			
					·00920			
				6. 44:	·00908			
				8. 20	·00992			
				10. 13	·01145			
				12. 16	·01448			
				12. 55	·01452			
				14. 2	·01506			
				18. 29	·01495			
				23. 15	·01506			
Aug.20		Aug.20		Aug.20		Aug.20		
0. 30	21. 56. 30	0. 40	·1014	0. 31	·01468	1. 40	68 ·0	70 ·0
1. 15	59. 0		***	1. 29	·01442	3. 40	70 ·0	73 ·0
2. 2	59. 0	3. 0	·1022	3. 10	·01326	9. 40	71 ·0	71 ·5
3. 5	56. 10	4. 0	·1028	5. 15	·01124	21. 40	67 ·0	68 ·5
	***	4. 40	·1020	5. 58	·00980			
4. 18	57. 0	5. 45	·1026	7. 30	·00811			
5. 0	47. 25		***	9. 27	·00742			
5. 30	51. 0	7. 9	·1025	11. 26	·00819			
6. 1	51. 25	7. 30	·1018	14. 53	·01084			
6. 35	50. 0	8. 13	·1034	18. 45	·01310			
6. 45	51. 0	8. 55	·1022	21. 26	·01468			
7. 37	45. 0	9. 36	·1022		·01425			
7. 45	46. 0	10. 12	·1023	23. 7:	·01472			
8. 0	44. 10	10. 28	·1039	23. 59	·01450			
8. 28	47. 50		***					
	***	11. 43	·1024					
10. 34	50. 50	12. 0	·1027					

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

August 19. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 20		Aug. 20						
h m	° ′ ″	h m		h m		h m	°	°
10. 50	21. 49. 15	12. 17	·1022					
11. 25	50. 15	13. 7	·1023					
11. 45	49. 10		(†)					
12. 35	50. 35	15. 45	·1016					
	***	16. 0	·1020					
13. 25	48. 35	16. 40	·0998					
13. 42	49. 30	17. 5	·1026					
13. 59	48. 0		***					
14. 25	48. 30	19. 45	·1020					
15. 0	51. 10	21. 22	·1008					
16. 20	44. 40	21. 42	·1011					
16. 44	45. 0	22. 53	·0988					
17. 14	48. 5	23. 59	·0998					
	***							
18. 46	46. 30							
20. 34	46. 45							
22. 52	53. 0							
23. 59	53. 15							
Aug. 21		Aug. 21		Aug. 21		Aug. 21		
0. 0	21. 53. 15	0. 0	·0998	0. 0	·01352	1. 40	68 ·5	71 ·0
1. 0	53. 30	0. 30	·1004	0. 30	·01292	3. 40	70 ·0	74 ·0
1. 19	55. 15		***	1. 28	·01078	9. 40	72 ·0	74 ·0
1. 34	55. 0	5. 10	·1007	2. 30	{ ·00726	21. 40	64 ·0	67 ·0
1. 55	56. 30	5. 30	·1000		{ ·00770			
2. 18	57. 0		***	3. 30	·00761			
2. 30	56. 0	7. 2	·1007	6. 15	·00802			
2. 51	56. 30	7. 20	·1003	9. 45	·00754			
3. 23	54. 30	7. 40	·1005	14. 43	·01102			
6. 35	48. 55	7. 43	·1001	18. 25	{ ·01540			
8. 15	48. 55	7. 47	·1004		{ ·01498			
8. 50	47. 50	7. 54	·1001	20. 46	·01482			
10. 30	48. 35	8. 0	·1007	22. 46	·01546			
10. 54	47. 0	8. 7	1004	23. 31	·01514			
11. 31	48. 30		***					
	***	9. 45	·1009					
12. 51	45. 10	11. 13	·1007					
13. 31	48. 30	11. 17	·1009					
14. 15	48. 0	12. 0	·1008					
14. 35	49. 15	12. 9	·1020					
15. 11	48. 20	13. 0	·1006					
15. 36	49. 20	15. 2	·1011					
16. 22	47. 0	16. 50	·1011					
17. 0	48. 30	17. 3	·1014					
17. 45	44. 45	18. 5	·1011					
18. 23	46. 0	18. 25	·1015					
19. 11	44. 30	21. 5	·1017					
21. 30	46. 15	23. 25	·1000					
23. 59	52. 30	23. 59	·0998					
Aug. 22		Aug. 22		Aug. 22		Aug. 22		
0. 0	21. 52. 35	0. 0	·0998	0. 43	·01364	1. 40	67 ·5	71 ·0
2. 0	54. 55	1. 3	·1002	1. 44	·01228	3. 40	72 ·0	74 ·0
3. 51	51. 5	2. 23	·1003	3. 32	·00760	9. 40	74 ·0	75 ·0
4. 15	52. 0	2. 30	·0998	3. 39	·00789	21. 40	69 ·0	69 ·5
	***	3. 32	·0998	7. 6	·00750			
7. 15	48. 30	4. 10	·1006	8. 58:	·00722			
9. 30	48. 35	4. 27	·1006	10. 37	·00826			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 22		Aug. 22		Aug. 22				
h m	° ′ ″	h m		h m		h m	°	°
10. 16	21. 47. 35	4. 57	·0998	14. 43	{ ·01490			
11. 16	48. 15	5. 25	·0992		{ ·01430			
11. 30	49. 30	5. 45	·0995	19. 14	·01441			
11. 45	47. 10	7. 28	·1010	22. 54:	·01451			
12. 15	46. 30	7. 37	·1008	23. 59	·01374			
12. 45	49. 0	8. 25	·1004					
14. 4	47. 0	9. 11	·1008					
15. 0	46. 40	11. 17	·1008					
16. 16	49. 30	11. 27	·1015					
19. 0	48. 30	11. 35	·1016					
21. 14	51. 30	11. 45	·1022					
	***	12. 15	·1012					
23. 35	53. 0	12. 58	·1020					
		13. 28	·1017					
		15. 1	·1014					
		17. 45	·1028					
		18. 25	·1025					
		20. 1	·1018					
		20. 25	·1023					
		23. 11	·1014					
		23. 25	·1016					
Aug. 23		Aug. 23		Aug. 23		Aug. 23		
0. 0	21. 53. 0	0. 0	·0997	0. 15	·01496	1. 40	71 ·0	73 ·5
1. 7	54. 20	2. 45	·1009	2. 14:	·01310	3. 40	74 ·0	75 ·0
5. 30	46. 20	3. 20	·1007	4. 20	{ ·00806	9. 40	72 ·5	76 ·0
7. 0	47. 30	4. 50	·1010		{ ·00860	21. 40	68 ·5	72 ·0
9. 55	49. 0	5. 25	·1009	7. 14	·00829			
13. 20	47. 30	6. 11	·1012	8. 54	·00789			
	***	7. 2	·1019	10. 13	·00866			
14. 46	47. 0	7. 15	·1017	13. 58	·01246			
15. 8	45. 0	7. 27	·1023	16. 31	{ ·01580			
15. 28	46. 0	7. 45	·1020		{ ·01526			
15. 45	21. 45. 0		***	17. 6	·01453			
16. 35	22. 0. 30	10. 25	·1025	19. 45	·01501			
17. 13	21. 39. 0	10. 30	·1020	22. 29	·01532			
	***	11. 5	·1020	23. 59	·01488			
18. 0	38. 0	11. 22	·1021					
19. 3	43. 0	12. 12	·1026					
19. 47	43. 0	12. 28	·1020					
	***		***					
21. 32	44. 0	14. 10	·1023					
23. 8	54. 30	14. 15	·1030					
23. 59	55. 30	14. 43	·1024					
		14. 47	·1026					
		15. 17	·1020					
		15. 31	·1023					
		15. 47	·1018					
		15. 58	·1019					
		16. 15	·1007					
		16. 42	·1044					
		17. 17	·1030					
		17. 45	·1023					
		17. 58	·1027					
		18. 40	·1016					
		19. 7	·1019					
		20. 57	·1011					
		21. 13	·1012					

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.23 h m		h m		h m	°	°
		23. 0	·1000					
		23. 45	·0997					
Aug.24		Aug.24		Aug.24		Aug.24		
1. 40	21. 54. 54*	1. 40	·0995*	0. 31	·01400	1. 40	73 ·0	75 ·0
3. 40	54. 54*	3. 40	·1004ff	1. 43	·01328	3. 40	74 ·0	76 ·0
9. 40	46. 58*	9. 40	·1006*		(†)	9. 40	75 ·5	77 ·0
21. 40	46. 43*	21. 40	·0995*	3. 40	·01052*	21. 40	64 ·5	67 ·0
				5. 29	·00838			
				8. 43	·00780			
				10. 15	·00881			
					(†)			
				12. 18	·01179			
				14. 35	·01536			
					(†)			
				21. 40	·01476*			
Aug.25		Aug.25		Aug.25		Aug.25		
0. 0	21. 54. 15	0. 0	·1004	0. 20	·01448	1. 40	68 ·0	70 ·0
	***	0. 5	·1010	1. 10	·01366	3. 40	71 ·0	73 ·0
1. 0	58. 30	0. 15	·1008	2. 46	·01124	9. 40	71 ·0	73 ·0
	***	0. 20	·1013	4. 32	·00666	23. 0	62 ·5	63 ·0
2. 47	56. 0	0. 45	·1013		·00700			
5. 15	50. 0	1. 13	·1010	6. 47	·00674			
7. 30	47. 20		***	8. 43	·00639			
11. 20	47. 30	3. 44	·1015	9. 30:	·00661			
14. 25	48. 40	3. 59	·1011	13. 33	·01342			
16. 15	48. 20	4. 13	·1013	14. 19	·01446			
	(†)	4. 23	·1011		·01370			
23. 0	52. 30	4. 35	·1013	16. 30	·01381			
23. 59	53. 40	4. 52	·1012	18. 14	·01360			
		5. 2	·1010		(†)			
		5. 37	·1013	23. 0	·01286*			
		5. 54	·1010					
		8. 15	·1020					
		10. 45	·1023					
		13. 50	·1022					
		16. 55	·1028					
			(†)					
		23. 0	·1011*					
Aug.26		Aug.26		Aug.26		Aug.26		
0. 0	21. 53. 40	0. 12	·1010	0. 0	·01158	9. 40	69 ·5	71 ·0
1. 0	56. 30	1. 5	·1008	0. 37	·01138	21. 40	63 ·0	65 ·5
1. 15	55. 40	1. 20	·1004	1. 40	·00962			
1. 41	55. 50	2. 13	·1010	2. 49	·00628			
5. 0	48. 30	2. 20	·1014	4. 29	·00708			
8. 45	46. 30	3. 5	·1018	6. 45	·00709			
9. 43	44. 0	3. 15	·1016	9. 41	·00662			
10. 25	46. 15	4. 15	·1014	11. 30	·00852			
12. 40	46. 20	4. 50	·1010	14. 28	·01448			
13. 14	47. 35	5. 40	·1013		·01390			
13. 31:	49. 25	5. 46	·1011	21. 5	·01420			
14. 8	46. 40	6. 18	·1010	23. 34	·01340			
18. 8	46. 0	6. 26	·1014					
19. 21	45. 5		***					
20. 45	46. 0	7. 31	·1013					
23. 22	54. 10	7. 40	·1017					
23. 59	55. 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 or 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	°	°
		8. 10	·1012					
		8. 16	·1014					
		8. 47	·1013					
		9. 10	·1030					
		9. 57	·1014					
		10. 15	·1013					
		10. 20	·1016					
		11. 13	·1016					
		11. 25	·1020					
		13. 0	·1017					
		13. 45	·1025					
		14. 40	·1022					
		17. 20	·1035					
		18. 45	·1034					
		19. 10	·1029					
		20. 0	·1029					
			***					
		22. 0	·1022					
		23. 20	·1021					
		23. 59	·1019					
Aug.27		Aug.27		Aug.27		Aug.27		
0. 0	21. 55. 30	0. 0	·1020	0. 0	·01295	1. 40	67 ·0	68 ·5
1. 0	56. 10	0. 52	·1028	1. 9	·01186	3. 40	68 ·0	70 ·0
1. 49	55. 55	1. 3	·1025	2. 13	·01040	9. 40	71 ·0	72 ·0
5. 0	48. 40	1. 16	·1029	4. 15	·00632	21. 40	67 ·5	69 ·0
	***		***		·00680			
7. 0	49. 0	4. 20	·1019	7. 0	·00706			
7. 29	50. 0	4. 45	·1026	10. 17:	·00628			
8. 22	41. 10	4. 55	·1016	15. 43	·00984			
9. 0	46. 55	5. 11	·1016	18. 45	·01260			
9. 15	46. 0	5. 25	·1020	21. 25:	·01380			
9. 29	47. 0	5. 37	·1016	23. 14	·01220			
	***	5. 43	·1019					
12. 0	46. 30	5. 46	·1016					
12. 14	47. 30	5. 55	·1022					
12. 48	44. 0	6. 20	·1015					
	***		***					
15. 20	45. 30	7. 7	·1018					
15. 47	44. 25	7. 18	·1012					
17. 0	44. 0	7. 55	·1034					
17. 45	42. 35	8. 7	·1027					
20. 5	43. 35	8. 32	·1031					
22. 27	51. 15	9. 13	·1012					
23. 9	52. 15	9. 43	·1020					
		11. 30	·1021					
		12. 0	·1024					
		14. 2	·1018					
			***					
		17. 30	·1022					
			***					
		19. 47	·1018					
		22. 22	·1002					
		23. 10	·1005					
Aug.28		Aug.28		Aug.28		Aug.28		
1. 40	21. 56. 10*	0. 0	·0998	0. 0	·01062	1. 40	71 ·0	73 ·0
3. 40	54. 17*	0. 47	·1004	0. 54	·00900	3. 40	73 ·5	76 ·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.28		Aug.28		Aug.28		Aug.28		
h m	° ′ ″	h m		h m		h m	°	°
9. 40	21. 46. 49*	1. 7	·1001	1. 44	·00702	9. 40	76 ·5	78 ·0
21. 40	45. 56*	1. 55	·1000		·00760	21. 40	66 ·0	68 ·0
		2. 13	·0998	3. 40	·00826			
		2. 20	·1002		·00850			
		2. 34	·0999	4. 32	·00840			
			***		·00920			
		4. 17	·1005	5. 55	·00827			
		4. 30	·1002	7. 0	·00805			
		5. 15	·1005	8. 10:	·00780			
		5. 45	·0998	9. 12	·00820			
		6. 22	·0998	12. 46	·01479			
		6. 30	·0991	12. 50	·01462			
		6. 45	·1006	17. 28	·01442			
		6. 59	·0994	23. 10	·01442			
		7. 5	·0995					
		7. 16	·0989					
		7. 45	·0997					
		8. 5	·0995					
		8. 45	·1001					
		11. 30	·1001					
		13. 37	·1014					
		15. 35	·1017					
		15. 44	·1021					
		15. 47	·1018					
		16. 0	·1019					
		18. 7	·1020					
		18. 15	·1018					
		20. 1	·1014					
		20. 15	·1015					
		22. 8	·1002					
		22. 45	·1002					
			(†)					
Aug.29		Aug.29		Aug.29		Aug.29		
0. 0	21. 55. 35	0. 0	·1005	0. 0	·01428	1. 40	69 ·0	71 ·0
1. 10	56. 40	0. 5	·1007	1. 28:	·01308	3. 40	70 ·5	73 ·0
2. 25	55. 5	0. 13	·1002	4. 13	·00641	9. 40	71 ·0	73 ·5
2. 52	55. 25	1. 48	·1002		·00740	22. 40	61 ·5	64 ·0
5. 7	48. 55	1. 50	·1000	7. 43	·00680			
9. 14	48. 0	2. 24	·1000	9. 33:	·00658			
11. 8	47. 30	2. 47	·1007	12. 39	·00978			
12. 29	45. 20	3. 1	·1004		(†)			
	(†)	3. 15	·1006	21. 52	·01221			
22. 0	49. 10		***	22. 20	·01249			
23. 50	53. 35	3. 46	·0996	23. 32	·01330			
			***					
		4. 40	·0997					
		5. 0	·0993					
		5. 30	·1000					
		5. 43	·0997					
		6. 0	·1003					
		6. 24	·0997					
		6. 44	·1003					
		9. 5	·1005					
		9. 43	·1001					
		11. 1	·1004					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Aug.29 h m		h m		h m	°	°
		21. 55	·1012					
		23. 2	·1002					
Aug.30		Aug.30		Aug.30		Aug.30		
0. 0	21. 54. 0	0. 0	·1000	0. 0	·01300	1. 40	65 ·0	67 ·0
1. 15	54. 50	3. 15	·1010	0. 38	·01226	3. 40	70 ·0	73 ·0
3. 30	52. 0	3. 47	·1007	2. 25	·00642	9. 40	72 ·0	75 ·0
5. 29	48. 30	5. 0	·0999		·00680	21. 40	66 ·0	67 ·5
7. 12	48. 20	5. 53	·0997	5. 10:	·00766			
8. 30	47. 0	6. 10	·0990	7. 40	·00708			
11. 31	47. 0	7. 11	·1003	8. 24	·00658			
12. 1	42. 20	9. 0	·1010	9. 59	·00640			
12. 34	40. 0	9. 17	·1005	12. 28	·00794			
13. 12	45. 30	11. 30	·1012	13. 20	·00939			
13. 45	59. 30	12. 0	·1026	16. 10	·01468			
	***	12. 32	·1010		·01400			
15. 47	45. 20	12. 45	·1010	19. 47	·01428			
16. 2	44. 0	13. 20	·1026	22. 0	·01404			
	***	14. 2	·1011	22. 54	·01450			
16. 38	44. 0	14. 20	·1010	23. 12	·01400			
17. 3	48. 0	14. 40	·1016					
17. 16	48. 0	15. 15	·1013					
	***	15. 43	·1019					
18. 25	44. 30	16. 28	·1020					
19. 32	52. 35	16. 32	·1016					
20. 0	50. 10		***					
20. 34	49. 50	18. 15	·1026					
21. 21	52. 55	19. 10	·1012					
21. 52	52. 50	19. 54	·1024					
22. 46	57. 50	20. 20	·1013					
23. 10	57. 0	21. 16	·1013					
		22. 13	·0994					
		22. 28	·0994					
		23. 5	·1006					
Aug.31		Aug.31		Aug.31		Aug.31		
0. 45	21. 59. 0	0. 0	·1008	0. 0	·01380	1. 40	68 ·5	70 ·0
1. 30	22. 1. 30	0. 30	·1000	2. 0	·01051	3. 40	72 ·5	74 ·0
3. 46	21. 57. 25	0. 48	·1000	2. 57	·00780	9. 40	73 ·5	74 ·5
4. 8	57. 50	1. 0	·1005		·00842	21. 40	64 ·0	66 ·0
4. 46	45. 10	1. 23	·1002	4. 15	·00840			
5. 2	53. 0	1. 30	·0992	4. 39	·00899			
5. 15	53. 50	1. 42	·1007	5. 1	·00900			
	***	1. 45	·0997	5. 44	·00842			
6. 8	51. 0		***	8. 10:	·00766			
6. 30	48. 20	2. 46	·0990	9. 14	·00819			
6. 48	50. 0	3. 0	·1006	9. 29	·00720			
8. 0	48. 30	3. 13	·0997	13. 31	·01481			
8. 29	49. 30	3. 20	·0998		·01430			
10. 27	44. 35	3. 38	·0995	17. 59	·01426			
12. 15	47. 30	3. 50	·0993	21. 14	·01416			
12. 45	46. 0	4. 17	·0984	22. 47	·01448			
13. 0	47. 20	4. 32	·0994	23. 59	·01311			
13. 30	46. 30	4. 46	·0990					
14. 48	47. 0	5. 0	·1003					
15. 25	48. 20	5. 30	·0964					
17. 15	48. 35	5. 45	·0984					
	***	6. 10	·0988					

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. 31	° ′ ″	Aug. 31		h m		h m	°	°
h m		h m						
20. 20	21. 46. 10	6. 17	·0976					
21. 25	48. 10	6. 32	·0984					
21. 52	52. 0	6. 53	·0984					
22. 30	53. 30	7. 27	·0992					
		7. 50	·0994					
		8. 13	·1008					
		8. 43	·1002					
		9. 0	·1008					
		11. 0	·1002					
		13. 45	·1007					
		17. 35	·1015					
			***					
		19. 10	·1018					
		20. 12	·1010					
		21. 0	·1010					
		23. 11	·1003					
		23. 59	·0994					
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
1. 40	21. 55. 20*	1. 40	·1006*	0. 30	·01238	1. 40	66 ·5	68 ·5
3. 40	51. 32*	3. 40	·1008*	2. 28	·00940	3. 40	69 ·0	71 ·0
9. 40	47. 23*	9. 40	·1012*	3. 31	{·00616	9. 40	66 ·0	69 ·0
					{·00640			
				7. 55	·00566			
				9. 17	·00648			
				12. 17	·01061			
				13. 55	·01386			
				14. 5	·01316			
				16. 24	·01372			
				22. 0	·01362			
				23. 30	·01380			
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 0	21. 54. 10	0. 10	·0997*	0. 0	·01380	0. 10	62 ·0	63 ·5
0. 45	55. 40	9. 55	·1033*	2. 17	·01139	9. 55	64 ·5	65 ·0
1. 45	55. 35	21. 40	·1014*	4. 44	·00780	21. 40	60 ·0	62 ·0
3. 15	52. 0			6. 28:	·00568			
6. 17	48. 10			7. 43	{·00480			
8. 54	48. 0				{·00520			
9. 59	44. 0			9. 34:	·00486			
11. 6	46. 5			12. 40	·00662			
11. 32	48. 35			16. 13	·01039			
12. 7	48. 20			18. 31	·01342			
12. 50	45. 35			18. 41	·01310			
14. 5	47. 10			21. 40:	·01362			
14. 30	47. 0			23. 17	·01298			
14. 59	49. 35							
15. 52	46. 30							
16. 20	49. 10							
	***							
18. 9	45. 0							
18. 55	46. 15							
	***							
20. 30	45. 10							
21. 0	47. 30							
22. 22	49. 30							
23. 59	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.
Sept. 3	° ′ ″	Sept. 3		Sept. 3		Sept. 3		
h m		h m		h m		h m	°	°
0. 0	21. 54. 10	2. 30	·1013	0. 0	·01256	1. 40	64 ·0	66 ·0
2. 0	56. 0	2. 35	·1012	1. 26	·01102	3. 40	65 ·5	67 ·0
2. 40	53. 40	2. 50	·1015		{·00526	9. 40	67 ·0	69 ·0
4. 15	52. 50	3. 20	·1015	4. 17	{·00566	21. 40	64 ·0	66 ·0
5. 10	49. 30	3. 36	·1012	6. 40	·00598			
8. 0	47. 0	4. 13	·1012	10. 55	·00516			
8. 28	39. 0	4. 17	·1016	13. 27	·00689			
8. 45	44. 0		***	16. 27	·00972			
9. 14	46. 30	4. 40	·1010	21. 25:	·01340			
9. 30	45. 50	5. 0	·1012	23. 30	·01272			
9. 53	48. 0	5. 8	·1008					
13. 30	48. 40	5. 20	·1014					
14. 5	47. 30		***					
18. 17	46. 10	5. 55	·1010					
19. 45	45. 15		***					
21. 10	46. 45	6. 28	·1018					
21. 52	48. 50	6. 47	·1014					
23. 15:	54. 25	7. 40	·1022					
23. 30	53. 30	8. 0	·1017					
23. 59	54. 50	8. 12	·1017					
		8. 20	·1013					
		8. 33	·1027					
		8. 52	·1019					
			***					
		10. 15	·1018					
			***					
		13. 15	·1024					
		15. 7	·1026					
		19. 0	·1026					
		23. 30	·1006					
Sept. 4		Sept. 4		Sept. 4		Sept. 4		
0. 0	21. 54. 55		(†)	0. 0	·01249	1. 40	66 ·5	69 ·5
1. 0	55. 40	3. 0	·1011	0. 46:	·01145	3. 40	68 ·0	71 ·0
3. 0	52. 0		***	2. 45	·00622	9. 40	70 ·0	71 ·0
5. 0	48. 0	4. 46	·1003	3. 36	{·00639	21. 40	63 ·0	66 ·0
7. 30	49. 20	5. 57	·1007		{·00710			
8. 52	47. 30	6. 4	·1008	7. 35	·00638			
9. 59	48. 30	7. 55	·1009	9. 25	·00615			
10. 37	46. 55	9. 20	·1010	11. 15	·00669			
10. 50	43. 0	11. 32	·1023	14. 35	·01028			
11. 14	47. 10	12. 10	·1012	17. 47	{·01459			
11. 30	45. 50	14. 0	·1020		{·01390			
12. 32	48. 20		***	20. 16	·01378			
17. 0	47. 25	18. 45	·1019	23. 14	·01358			
19. 59	46. 0	18. 50	·1023					
20. 9	44. 50	19. 0	·1019					
23. 59	53. 0	21. 15	·1007					
		23. 15	·1008					
Sept. 5		Sept. 5		Sept. 5		Sept. 5		
0. 0	21. 53. 10	0. 0	·1012	0. 0	·01399	1. 40	64 ·5	67 ·0
1. 15	55. 30	1. 5	·1018	1. 40	·01365	3. 40	70 ·0	71 ·5
2. 0	55. 10	1. 15	·1016	3. 24:	·01279	9. 40	67 ·5	68 ·0
4. 30	48. 25	3. 5	·1014	7. 0:	·00956	21. 40	55 ·0	56 ·5
6. 14	48. 5	4. 0	·1007	8. 30:	·00982			
8. 14	47. 5		***	11. 14	·01238			
11. 8	48. 30	4. 45	·1011		(†)			
	(†)							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 5		Sept. 5		Sept. 5				
h m	° ′ ″	h m		h m		h m	°	°
21. 40	21. 49. 30	5. 0	·1010	21. 45	·01151			
23. 30	53. 25	5. 40	·1012	22. 43	·01267			
		6. 0	·1008	23. 40	·01246			
		6. 55	·1016					
			***					
		8. 28	·1014					
		11. 46	·1029					
			(†)					
		21. 55	·1026					
		23. 52	·1028					
Sept. 6		Sept. 6		Sept. 6		Sept. 6		
0. 0	21. 53. 30	0. 0	·1032	0. 0	·01226	1. 40	59 ·0	61 ·0
1. 52	55. 0	1. 15	·1037	1. 13:	·01064	3. 40	63 ·5	66 ·0
4. 12	50. 0	1. 30	·1035	3. 3	·00645	9. 40	65 ·0	65 ·0
7. 0	48. 0	2. 30	·1035	3. 35:	·00706	21. 40	59 ·0	62 ·0
8. 8	48. 50		***	5. 54	·00726			
8. 31	46. 30	4. 25	·1023	7. 10	·00680			
8. 51	47. 30		***	8. 45	·00662			
9. 5	45. 50	6. 10	·1023	10. 8	·00605			
10. 0	47. 55	8. 58	·1020	11. 45	·00638			
10. 45	47. 10	9. 15	·1025	13. 24	·00665			
12. 34	48. 30	9. 30	·1022	15. 55	·00881			
14. 15	48. 10	10. 45	·1024	20. 43	·01428			
14. 46	46. 30	11. 12	·1022	21. 54	{·01500			
18. 25	45. 35	11. 50	·1023		{·01326			
19. 45:	44. 40	13. 30	·1029	23. 13	·01330			
21. 0	48. 15	13. 45	·1027					
23. 59	55. 0	14. 5	·1030					
		14. 20	·1028					
		14. 40	·1031					
		17. 18	·1027					
		19. 20	·1027					
		19. 50	·1020					
		22. 57	·1021					
Sept. 7		Sept. 7		Sept. 7		Sept. 7		
0. 0	21. 55. 0		(†)	0. 0	·01321	1. 40	63 ·0	66 ·0
0. 32	56. 0	1. 0	·1022	1. 0	·01228	3. 40	67 ·5	69 ·5
	***		***	2. 45	·00789	9. 40	67 ·0	67 ·5
2. 30	54. 25	2. 30	·1023	3. 15	·00819	21. 40	58 ·5	60 ·0
4. 3	50. 15	2. 40	·1016	5. 0	·00790			
4. 50	47. 0		***		***			
	***	3. 50	·1018	5. 54	·00764			
6. 20	48. 20		***	8. 0	·00710			
	(†)	4. 50	·0998	9. 12	·00700			
9. 40	44. 56*	5. 3	·1002	10. 13:	·00742			
21. 40	49. 4*	5. 15	·1010	11. 15	·00830			
		5. 22	·0996	13. 39	·01246			
		5. 26	·1008	15. 15	·01541			
		5. 28	·1002	15. 25	·01482			
		5. 45	·1014	18. 27	·01464			
		6. 20	·1012	21. 7:	·01384			
			(†)	22. 0	·01368			
		9. 40	·1015*	23. 13	·01421			
		21. 40	·1004*					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
h m	° ′ ″	h m		h m		h m	°	°
0. 25	21. 59. 0	0. 15	·1013	0. 18	·01381	1. 40	61 ·0	63 ·0
0. 48	22. 0. 40	0. 40	·1023	2. 0	·01206	3. 40	67 ·0	69 ·0
1. 22	21. 59. 0	1. 25	·1018	3. 30	{·00725	9. 40	68 ·0	70 ·0
2. 1	58. 0	1. 37	·1010		{·00790	23. 0	60 ·0	61 ·0
3. 0	53. 0	2. 5	·1014		***			
	***		***	4. 64	·00839			
4. 40	53. 0	2. 50	·1012	5. 57	·00808			
5. 40	47. 0	3. 0	·1008	7. 28	·00739			
	***	3. 40	·1018	9. 0:	·00721			
7. 25	47. 30	3. 57	·1010	10. 14	·00826			
7. 55	46. 35	4. 0	·1012	12. 15	·01163			
8. 30	39. 0	4. 19	·1004	13. 59	{·01506			
10. 15	47. 5	4. 30	·0996		{·01450			
11. 47	49. 10	4. 45	·1003	16. 52	·01448			
12. 30	47. 25	5. 0	·0996	21. 0	·01426			
16. 29	47. 40		***	21. 45	·01380			
17. 0	48. 30	6. 15	·0978	22. 47	·01439			
20. 13	46. 0	6. 45	·0986	23. 46	·01391			
23. 22	55. 40	7. 0	·0983					
23. 59	55. 40	7. 30	·0988					
			***					
		8. 18	·0984					
		8. 36	·0990					
		9. 0	·0986					
		9. 30	·0998					
		10. 15	·0992					
		12. 0	·0998					
		12. 30	·0990					
		17. 50	·1008					
		22. 0	·1000					
		22. 55	·1004					
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	21. 55. 30	0. 0	·1003	0. 0	·01379	10. 25	65 ·8	66 ·0
1. 10	55. 50	1. 25	·1016	2. 45:	·01188	21. 40	59 ·0	61 ·0
	***	1. 35	·1012	4. 10	·00920			
2. 20	52. 30	1. 56	·1015	5. 29	{·00601			
4. 39	46. 30		***		{·00650			
5. 29	46. 30	2. 19	·1008	10. 24	·00584			
7. 6	48. 30		***	14. 10	·00938			
9. 15	47. 40	4. 35	·1006	17. 15	{·01458			
9. 32	44. 30	4. 55	·1003		{·01350			
10. 14	48. 30	5. 15	·1006	18. 43	·01400			
10. 36	46. 0		***	22. 54	·01385			
11. 30	48. 15	5. 41	·1004	23. 27	·01340			
15. 10	48. 25	6. 6	·1007					
16. 7	47. 35		***					
16. 58	48. 0	7. 50	·1008					
19. 25	45. 10	9. 20	·1004					
20. 30	45. 30	9. 37	·1010					
22. 15	53. 30	9. 55	·1007					
		10. 25	·1006					
		10. 46	·1014					
		12. 0	·1007					
		13. 30	·1010					
		18. 0	·1016					
		21. 0	·1000					
		23. 35	·1004					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Sept. 10 h m		Sept. 10 h m		Sept. 10 h m	°	°
		0. 0	·1005	0. 0	·01238	1. 40	63 ·0	65 ·0
			***	1. 39:	·01059	3. 40	66 ·0	68 ·0
		2. 15	·1016	3. 43	·00562	9. 40	66 ·0	67 ·0
		3. 15	·1013		·00608	21. 40	59 ·0	60 ·5
		4. 40	·1016	4. 45	·00587			
		5. 0	·1008		(†)			
		5. 45	·1028	9. 57	·00604			
		5. 50	·1030	11. 14	·00780			
		6. 0	·1019	12. 40	·00859			
		6. 5	·1031	13. 30	·00900			
		6. 13	·1018	17. 18	·01426			
		6. 15	·1024		·01342			
		6. 50	·1022		***			
		6. 56	·1028	18. 5	·01345			
		7. 0	·1022	19. 15	·01380			
		7. 8	·1031	21. 36	·01336			
		7. 15	·1026	22. 34	·01365			
			***	23. 16	·01336			
		10. 45	·1015					
		11. 15	·1022					
		11. 58	·1014					
			***					
		12. 50	·1020					
		13. 10	·1026					
		13. 45	·1013					
		13. 56	·1012					
		14. 26	·1008					
		14. 52	·0997					
		15. 20	·1013					
		16. 25	·1014					
			(†)					
		22. 30	·1004					
		22. 40	·1010					
		22. 56	·1003					
		23. 2	·1014					
		23. 15	·0995					
		23. 35	·1000					
		23. 59	·0998					
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
2. 30	21. 55. 50	0. 35	·1002	1. 1	·00970	1. 40	65 ·2	67 ·0
3. 0	51. 30	0. 47	·1014	2. 31	·00645	3. 40	68 ·0	70 ·0
3. 7	53. 0	1. 40	·1011	3. 46	·00721	9. 40	70 ·0	71 ·5
3. 30:	51. 10	2. 0	·0990	4. 4	·00771	21. 40	64 ·0	65 ·5
4. 1	53. 45	2. 31	·0979		***			
4. 24	51. 30	2. 45	·0990	5. 46	·00801			
4. 43	54. 0	3. 45	·1000		***			
	***	4. 10	·1010	6. 18	·00758			
5. 29	46. 10	4. 15	·1004	6. 46	·00781			
5. 34	47. 30	4. 19	·1006	8. 14	·00724			
5. 47	38. 30	4. 28	·0996	8. 56	·00726			
5. 50	42. 30	4. 37	·1002	9. 6	·00700			
6. 0	39. 30	4. 58	·0986	9. 55	·00658			
6. 14	43. 40	5. 15	·0999	10. 54	·00680			
6. 30	32. 25	5. 25	·0992	12. 40	·00780			
6. 39	29. 45	5. 31	·1004	14. 58	·01042			
7. 1	40. 0	5. 40	·0996	17. 0	·01460			
7. 15	40. 20	5. 51	·1005		·01400			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 11 h m	° ′ ″	Sept. 11 h m		Sept. 11 h m		h m	°	°
7. 30	21. 44. 30	6. 0	·0997	22. 35	·01426			
	***	6. 9	·1004	23. 24	·01452			
8. 30	43. 40	6. 22	·0978	23. 59	·01452			
8. 46	39. 0	6. 36	·1021					
9. 14	45. 0	6. 44	·1020					
9. 25	43. 55	7. 12	·0986					
9. 58	47. 40	7. 25	·0999					
10. 15	40. 30	7. 50	·0998					
10. 36	45. 0	8. 15	·0996					
10. 49	45. 30	8. 35	·0989					
11. 1	42. 30	8. 52	·1020					
	***	9. 3	·1004					
11. 50	46. 0	9. 12	·1004					
12. 28	50. 55	9. 15	·0997					
13. 8	45. 5	9. 31	·0996					
13. 44	44. 50	9. 57	·1010					
	***	10. 6	·1003					
14. 45	50. 55	10. 25	·1018					
15. 20	46. 30	10. 35	·1008					
15. 38	46. 0	10. 46	·1010					
15. 58	42. 30	11. 5	·1001					
16. 21	45. 0	11. 15	·0994					
	***	12. 0	·1000					
17. 0	44. 25	12. 25	·1016					
17. 8	46. 0	12. 40	·1016					
	***	13. 3	·0998					
17. 30	44. 0	14. 8	·0994					
	***	14. 28	·1000					
18. 8	46. 0	15. 0	·0996					
18. 30	44. 30	15. 46	·1001					
	***	16. 10	·0995					
21. 0	42. 35	17. 5	·1002					
21. 51	47. 10	17. 51	·0992					
23. 59	54. 30	18. 25	·1003					
		22. 30	·0996					
		22. 42	·0997					
		23. 59	·0996					
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 0	21. 54. 30	0. 15	·0998	0. 16	·01450	1. 40	64 ·2	66 ·0
1. 30	55. 50	1. 18	·1004	2. 25	·01245	3. 40	69 ·0	71 ·0
	***	2. 37	·0998	4. 0	·00739	9. 40	69 ·0	70 ·0
3. 52	48. 40	3. 17	·0999		·00804	21. 40	63 ·0	64 ·5
	***	3. 29	·0988	6. 28	·00790			
5. 15	39. 40		***	8. 43	·00704			
5. 45	38. 35	3. 52	·1002	10. 0	·00710			
6. 45	45. 30	4. 5	·0990	11. 15	·00810			
	***	4. 30	·0990	11. 40	·00841			
8. 30	45. 5	4. 45	·0980	14. 47	·01494			
9. 30	43. 10	5. 10	·0974		·01440			
10. 28	45. 55	5. 30	·0984	18. 45	·01442			
10. 39	43. 30	5. 45	·0984	22. 30	·01459			
11. 16	52. 0	5. 50	·0989	23. 29	·01432			
	***	6. 30	·0986					
12. 30	47. 20		***					
	***	7. 47	·0996					
14. 50	46. 0	8. 26	·0999					
	***	8. 36	·0992					
16. 45	48. 20		***					

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

September 10. No observations of the Declination Magnet were taken, in consequence of the giving way of the pulley to which the suspension thread is attached.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 12		Sept. 12						
h m	° ′ ″	h m		h m		h m	°	°
17. 10	21. 50. 10	9. 0	·1004					
18. 49	44. 0		***					
20. 25	44. 15	10. 30	·0994					
23. 15	53. 0	11. 14	·1024					
23. 59	54. 20	11. 49	·1007					
		12. 17	·1006					
		12. 45	·1000					
		13. 18	·1006					
		16. 41	·1010					
		17. 15	·1000					
		18. 14	·1020					
		19. 22	·1008					
		18. 39	·1012					
			***					
		23. 20	·1007					
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 0	21. 54. 20	0. 0	·1007	0. 0	·01416	1. 40	65 ·2	67 ·2
1. 45	54. 50	0. 40	·1016	2. 0	·01224	3. 40	69 ·0	70 ·0
2. 12	53. 0	1. 19	·1018	4. 10	·00708	9. 40	69 ·5	70 ·5
2. 30	53. 10	2. 0	·1020		·00754	21. 40	64 ·0	66 ·0
3. 45	48. 50	2. 32	·1018	11. 20	·00677			
5. 15	47. 0	3. 10	·1018	13. 56	·00836			
7. 39	48. 0	3. 55	·1012	18. 25	·01218			
8. 29	46. 15		***	20. 13	·01359			
8. 46	47. 30	4. 35	·1012	21. 26	·01511			
9. 12	44. 25	6. 10	·1010		·01430			
9. 33	46. 35	7. 10	·1010	23. 31	·01439			
9. 45	44. 35	7. 29	·1016	23. 59	·01442			
	***	7. 47	·1010					
11. 0	45. 30	8. 18	·1012					
11. 16	45. 0	8. 30	·1008					
	***	8. 45	·1008					
12. 29	48. 10	9. 0	·1001					
12. 40	51. 20	9. 37	·1006					
12. 59	49. 10	10. 0	·1024					
13. 4	50. 0	10. 39	·1009					
13. 49	44. 0	11. 28	·1010					
	***	14. 0	·1014					
16. 8	46. 15	14. 31	·1007					
	***	16. 25	·1016					
16. 45	44. 0	17. 44	·1010					
17. 45	46. 20	19. 15	·1018					
18. 48	44. 30		(†)					
	***	23. 30	·1003					
22. 20	50. 55							
	***							
23. 16	55. 20							
23. 29	55. 0							
23. 44	56. 30							
23. 51	55. 30							
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 0	21. 55. 30	0. 30	·1005	0. 30	·01468	1. 40	64 ·0	66 ·5
1. 0	56. 30		***	1. 10	·01502	3. 40	67 ·0	69 ·0
3. 15	50. 0	3. 15	·1018		·01211	9. 40	63 ·5	65 ·0
6. 14	46. 20		***	3. 40	·01210	21. 40	59 ·5	61 ·0
7. 4	48. 30	4. 35	·1015	5. 45	·01100			
	***	4. 45	·1018	7. 0:	·01078			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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		Sept. 14				
h m	° ′ ″	h m		h m		h m	°	°
10. 4	21. 48. 0	5. 15	·1010	9. 13	·01186			
10. 29	45. 35	5. 20	·1014	11. 15	·01364			
11. 0	48. 30		***	12. 24	·01394			
11. 35	48. 20	6. 15	·1008	13. 40	·01410			
12. 0	50. 20	6. 45	·1015	18. 24	·01406			
13. 14	49. 25	6. 55	·1014	22. 25	·01377			
13. 40	50. 0	7. 55	·1008	23. 34	·01415			
14. 18	48. 25		***	23. 59	·01425			
15. 8	48. 30	8. 45	·1000					
15. 29	45. 0	9. 12	·1008					
16. 8	44. 20		***					
17. 10	49. 50	11. 38	·1022					
18. 0	47. 0	12. 35	·1015					
18. 15	48. 30	13. 0	·1017					
18. 35	46. 30	13. 48	·1021					
	***	14. 5	·1023					
19. 46	46. 0	14. 15	·1020					
20. 14	47. 40	16. 4	·1026					
	***	16. 20	·1019					
22. 0	47. 35	17. 36	·1024					
23. 0	54. 25		***					
23. 39	56. 5	19. 8	·1023					
23. 50	55. 40		***					
23. 59	55. 50	20. 35	·0998					
		21. 12	·1008					
			***					
		23. 45	·0996					
		23. 59	·1006					
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
0. 7	21. 58. 20	0. 30	·0995	0. 45	·01365	1. 40	60 ·5	63 ·0
0. 40	54. 55	0. 50	·1004	2. 20	·01180	3. 40	64 ·0	66 ·0
0. 52	55. 50	1. 30	·1008	4. 29	·00538	9. 40	65 ·0	66 ·5
1. 44	52. 50	1. 49	·1012		·00580	23. 0	65 ·0	66 ·0
1. 52	53. 20	2. 14	·1008	7. 15	·00541			
2. 8	51. 40	2. 29	·1018	9. 15	·00476			
2. 29	54. 45	2. 45	·1007	14. 18	·00714			
2. 44	52. 35		***	18. 57	·00841			
3. 30	49. 40	3. 45	·1005	21. 45	·00817			
	***		***	23. 40	·00712			
7. 41	46. 0	4. 48	·1014					
8. 2	38. 30	5. 31	·1012					
8. 24	44. 0	5. 46	·1013					
8. 45	42. 20	6. 8	·1006					
9. 3	44. 30	6. 31	·1018					
9. 28	43. 0	6. 47	·1007					
10. 10	46. 0		***					
10. 24	45. 0	7. 18	·1008					
11. 18	48. 0	8. 0	·1013					
	***	8. 15	·1036					
12. 14	48. 25	8. 45	·1022					
12. 31	50. 0	9. 12	·1030					
13. 32	45. 5	9. 30	·1024					
14. 16	49. 30	10. 30:	·1010					
14. 45	47. 35	11. 30	·1017					
15. 1	50. 30	12. 4	·1018					
15. 31	50. 35	12. 15	·1014					
		13. 15	·1022					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 15		Sept. 15						
h m	° ′ ″	h m		h m		h m	°	°
16. 4	21. 47. 35	13. 45	·1014					
	***	14. 30	·1022					
17. 2	44. 35	15. 0	·1016					
	***	16. 25	·1020					
17. 30	47. 0	17. 0	·1010					
	***	18. 5	·1018					
18. 21	44. 40		***					
	***	19. 0	·1014					
18. 51	44. 30	19. 45	·0997					
19. 28:	48. 0	20. 35	·1016					
20. 14	45. 35	21. 45	·1004					
	***	23. 35	·1002					
22. 44	51. 0	23. 48	·1000					
23. 18	53. 35							
23. 59	55. 30							
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 0	21. 55. 30	0. 15	·1012	0. 0	·00709	9. 20	68 ·0	70 ·0
1. 8	54. 0	1. 25	·1007	1. 18	·00630	21. 40	64 ·5	66 ·0
1. 45	56. 15	1. 43	·1005	1. 55	·00562			
2. 16	56. 40	2. 10	·1002		·00648			
	***	2. 22	·1009	4. 56	·00704			
3. 22	52. 10	2. 45	·1010	8. 43	·00688			
	***	2. 55	·1004	11. 13	·00641			
3. 48	53. 30	3. 20	·1002	11. 52	·00592			
4. 28	51. 0	3. 25	·0994	12. 23	·00560			
4. 40	51. 5		***	12. 54	·00598			
4. 56	48. 0	3. 55	·1010	16. 58	·00804			
5. 20	49. 10		***	21. 59	·01290			
6. 13	50. 15	4. 28	·1007	23. 59	·01421			
6. 39	49. 0		***					
7. 0	42. 0	4. 50	·0990					
7. 4	42. 50	5. 16	·1007					
7. 17	40. 35	6. 17	·1015					
7. 35	44. 40	6. 50	·1008					
7. 44	43. 30	7. 9	·1011					
7. 52	45. 0	7. 26	·1026					
8. 2	45. 0	7. 41	·1016					
8. 27	41. 20	8. 10	·1009					
9. 16	45. 0		***					
10. 3	47. 0	10. 48	·1010					
	***	11. 10	·1031					
10. 47	45. 40	11. 35	·1013					
	***	11. 54	·1029					
11. 15	49. 10	12. 24	·1013					
11. 44	44. 30	12. 46	·1024					
12. 4	56. 5	13. 25	·1011					
12. 45	44. 15	14. 0	·1012					
13. 15	47. 35	14. 43	·1015					
14. 0	45. 0	17. 25	·1014					
	***	17. 40	·1019					
14. 52	50. 0	18. 45	·1001					
15. 31	47. 10	19. 45	·1003					
17. 0	43. 30	20. 10	·1005					
17. 39	44. 50		***					
18. 50	52. 15	21. 35	·0991					
19. 13	50. 55	23. 15	·0992					
19. 30	51. 20	23. 50	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 16								
h m	° ′ ″	h m		h m		h m	°	°
20. 20	21. 48. 30							
	***							
21. 18	48. 30							
	***							
21. 55	50. 55							
23. 59	54. 15							
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 0	21. 54. 15	1. 0	·1010	1. 0	·01471	1. 40	65 ·0	67 ·0
1. 0	54. 35		***	2. 29	·01519	3. 40	66 ·0	68 ·0
2. 0	54. 0	4. 0	·1008	3. 44:	·01450	9. 40	67 ·0	68 ·5
3. 33	49. 30		***	5. 47:	·01300	21. 40	65 ·0	67 ·0
5. 16	47. 30	5. 0	·1006	8. 34	·01219			
7. 30	50. 0	5. 40	·1013	8. 58	·01190			
7. 49	47. 45	6. 5	·1010	11. 10	·01188			
8. 25	48. 20	6. 15	·1014	11. 45	·01148			
8. 44	52. 15	7. 15	·1010	12. 6	·01130			
9. 0	49. 0	8. 0	·1011	16. 28	·01224			
9. 16	48. 35	8. 15	·1005	19. 59	·01329			
9. 40	44. 30	8. 40	·1024	23. 6	·01302			
9. 53	44. 25	8. 50	·1013	23. 59	·01268			
	***	9. 15	·1011					
10. 31	47. 10	9. 30	·1002					
10. 52	44. 30	10. 0	·1005					
11. 11	52. 50	10. 30	·1000					
12. 5	42. 55	11. 10	·1027					
12. 31	47. 25	11. 30	·1021					
13. 8	43. 30	12. 3	·1010					
13. 52	46. 25	12. 55	·1010					
14. 14	46. 0	13. 3	·1006					
14. 48	49. 10	13. 36	·1006					
	***	13. 55	·0996					
15. 45	44. 45	14. 55	·1000					
16. 16	47. 30	15. 14	·1004					
17. 16	47. 30	16. 18	·0995					
17. 50	44. 35	17. 45	·1006					
18. 30	47. 20	18. 28	·1003					
19. 10	47. 10	19. 12	·1006					
19. 40	45. 15	20. 15	·0988					
	***		***					
21. 16	46. 35	22. 18	·0992					
	***	23. 59	·0994					
23. 59	53. 15							
Sept. 18		Sept. 18		Sept. 18		Sept. 18		
0. 0	21. 53. 20	0. 40	·0997	1. 0	·01150	1. 40	67 ·0	69 ·0
0. 46	54. 10	2. 45	·0998	2. 25:	·00980	3. 40	69 ·5	71 ·0
2. 53	50. 35	3. 28	·1002	3. 41	·00739	9. 40	70 ·0	72 ·0
	***		***		·00770	21. 40	65 ·0	67 ·0
4. 0	49. 30	4. 14	·0990	3. 45	·00768			
4. 31	47. 10	6. 15	·0999		·00810			
9. 30	48. 10		***	3. 54	·00806			
	***	10. 45	·1000		·00830			
11. 30	48. 5	12. 19	·1008	5. 16	·00759			
	***	12. 32	·1001	10. 29	·00702			
12. 16	49. 25	13. 5	·0999	12. 34	·00820			
12. 40	46. 35	14. 45	·0996	16. 44	·01121			
	***	15. 15	·1004	20. 26	·01416			
13. 44	45. 0	18. 0	·1003	21. 50	·01508			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 18		Sept. 18		Sept. 18				
h m	° ′ ″	h m		h m		h m	°	°
14. 30	21. 47. 30	19. 45	·1001	21. 56	·01482			
	***	23. 15	·0992	23. 0	·01480			
15. 16	48. 0			23. 45	{·01496			
16. 9	45. 25				{·01420			
16. 50	46. 20			23. 59	·01410			
18. 15	46. 0							
	***							
20. 32	45. 40							
	***							
22. 30	48. 30							
23. 25	51. 25							
Sept. 19		Sept. 19		Sept. 19		Sept. 19		
1. 40	21. 54. 34*	1. 40	·1008*	1. 40	·01319*	1. 40	70 ·5	71 ·5
3. 40	47. 45*	3. 40	·1006*	3. 40	·00936*	3. 40	70 ·0	72 ·0
9. 40	47. 32*	9. 40	·1007*	9. 40	·00738*	9. 40	71 ·0	72 ·5
21. 40	45. 4*	21. 40	·1012*	21. 40	·01437*	21. 40	63 ·0	65 ·0
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
0. 10	21. 50. 20	0. 40	·0999	0. 15	·01145	1. 40	67 ·0	69 ·0
1. 10	51. 35	1. 12	·0992	1. 7	·01009	3. 40	70 ·0	72 ·0
2. 54	48. 40	2. 45	·0993	2. 25	·00779	9. 40	72 ·5	74 ·0
5. 15	46. 10	3. 10	·0999	3. 3	·00816	21. 40	66 ·0	68 ·0
7. 16	44. 15	4. 38	·0998	4. 40	·00860			
8. 16	46. 0	4. 45	·0993	7. 35	·00798			
8. 44	45. 0	5. 12	·0996	9. 56	·00780			
9. 25	46. 0	5. 22	·0989	11. 5	·00860			
10. 45	45. 10	5. 59	·0988	11. 29	·00880			
11. 29	41. 0	6. 3	·0986	13. 10	·01100			
12. 4	44. 40	7. 12	·0992	16. 0	{·01506			
12. 15	43. 30	7. 47	·0984		{·01460			
12. 30	44. 20	8. 0	·0988	18. 31	·01509			
12. 45	42. 20	8. 37	·0986	22. 0	·01466			
13. 14	44. 30	8. 45	·0994	23. 4	·01488			
14. 39	46. 0	9. 7	·0988					
14. 54	47. 30		***					
15. 25	44. 0	10. 10	·0995					
16. 5	43. 30	10. 50	·0991					
17. 34	45. 35	11. 2	·1013					
19. 45	45. 25	11. 28	·1008					
20. 0	44. 30	11. 47	·0994					
	***	13. 0	·1008					
21. 20	44. 25		***					
23. 36	49. 25	17. 0	·0999					
23. 59	51. 40	22. 50	·0998					
Sept. 21		Sept. 21		Sept. 21		Sept. 21		
0. 8	21. 50. 20	0. 0	·1003	0. 0	·01369	1. 40	69 ·0	72 ·0
	***	0. 9	·0993	1. 2	·01200	3. 40	71 ·0	73 ·0
1. 51	54. 35	0. 56	·1003	2. 44	{·00796	9. 40	73 ·0	75 ·0
	***	1. 50	·0990		{·00840	21. 40	64 ·5	67 ·0
2. 41	53. 0	2. 32	·0988	3. 3	{·00859			
	***	3. 0	·0968		{·00896			
3. 30	47. 5		***	3. 20	{·00870			
4. 0	46. 0	4. 11	·0980		{·00920			
	***	4. 28	·0994	4. 25	{·00906			
5. 0	48. 30		***		{·00924			
6. 8	43. 30	5. 24	·0976	4. 31	{·00900			
	***				{·00950			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 21		Sept. 21		Sept. 21				
h m	° ′ ″	h m		h m		h m	°	°
8. 31	21. 44. 0	5. 45	·0991	7. 45:	·00819			
8. 45	38. 0		***	10. 31	·00916			
9. 20	44. 0	8. 45	·0988	13. 14	·01188			
9. 31	38. 10	8. 56	·0999	14. 56	·01516			
10. 0	43. 20	9. 25	·0992	15. 1	·01488			
10. 55	41. 45	9. 42	·1014	19. 29	·01469			
11. 42	44. 0	10. 0	·0997	21. 29:	·01424			
11. 57	43. 15	10. 25	·0997	23. 0	·01459			
12. 11	49. 0	10. 35	·1002	23. 54	·01471			
12. 33	49. 55	11. 21	·0993					
13. 17	41. 0	11. 32	·1005					
14. 0	41. 0	11. 47	·1000					
14. 31	44. 30	12. 2	·1020					
15. 15	44. 20	12. 21	·1027					
15. 30	46. 0	13. 10	·0994					
17. 23	44. 40	13. 50	·0989					
18. 30:	48. 15	16. 27	·1000					
19. 29	46. 0	17. 28	·1004					
19. 44	46. 10	17. 50	·0995					
19. 51	44. 35	19. 50	·0996					
20. 18	45. 35	20. 3	·1003					
21. 30	43. 30	23. 55	·1003					
22. 20	49. 0							
23. 21	52. 0							
23. 59	51. 55							
Sept. 22		Sept. 22		Sept. 22		Sept. 22		
0. 5	21. 52. 30	0. 1	·1000	0. 0	·01451	1. 40	67 ·0	68 ·5
3. 15	50. 20	2. 0	·0996	1. 11:	·01281	3. 40	72 ·0	74 ·0
4. 45	46. 30		***	2. 55	·00800	9. 40	74 ·5	76 ·0
6. 14	44. 30	3. 0	·0994	5. 13	·00849	23. 0	65 ·0	66 ·5
6. 30:	42. 40	3. 34	·0995	7. 50	·00794			
7. 6	44. 25	3. 57	·0984	9. 31	·00745			
	***		***	11. 28	·00918			
7. 44	43. 30	4. 55	·0992	15. 15	{·01498			
8. 8	44. 30	5. 12	·0990		{·01456			
	***		***	22. 10:	·01430			
9. 16	45. 0	8. 15	·0987	23. 29	·01470			
9. 31	42. 0	9. 0	·0994					
10. 30	45. 50	9. 27	·0990					
11. 1	45. 10		***					
11. 40	46. 35	10. 17	·0992					
13. 14	47. 0	13. 15	·1002					
13. 30	49. 10	16. 15	·1008					
14. 0	46. 0	17. 50	·1012					
	***	22. 20	·1000					
14. 39	48. 5	23. 34	·1000					
15. 32	47. 30							
16. 30	47. 50							
17. 52	46. 55							
21. 16	43. 0							
22. 16	47. 10							
23. 14	49. 0							
23. 59	49. 30							
Sept. 23		Sept. 23		Sept. 23		Sept. 23		
0. 0	21. 49. 30	0. 0	·1004	0. 0	·01390	8. 40	74 ·0	76 ·0
0. 46	49. 25	1. 30	·1005	1. 45:	·01185	21. 40	68 ·0	69 ·0

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.23		Sept.23		Sept.23				
h m	° ′ ″	h m		h m		h m	°	°
2.30	21.48. 0	3. 5	·0997	2.58	·00752			
4.30	42.35	3.56	·0996		(†)			
7.52	49.35	7. 5	·0986	8.45	·00770			
8.15	43.10	8.10	·0988	9.55	·00765			
12. 5	45. 0	9. 0	·0990	16.15	·01512			
12.43	43.30	9.45	·0994		·01473			
13. 3	44.25	11. 0	·0983	20.41	·01435			
13.40	43.30	13.30	·1004	22.32	·01401			
	***	19.30	·1003	23.59	·01397			
14.28	43.35	21.30	·0993					
16.13	42. 0	22.32	·0988					
18.35	45. 0	23.59	·0994					
20.40:	42.20							
23.59	49.55							
Sept.24		Sept.24		Sept.24		Sept.24		
0. 0	21.49.55	0.35	·0996	0.45	·01436	1.40	67·0	69·0
2. 9	52.30	2.15	·0998	2. 0:	·01490	3.40	68·5	69·0
2.22	51.15		***	3.20	·01417	9.50	68·0	70·0
3.40	48.55	4.15	·1004	4.45	·01290	21.40	59·0	61·0
3.55	49. 5	4.30	·0996	8. 0:	·01095			
	***	5.15	·1005	10.30	·01286			
4.45	45. 0	5.40	·1004	11.40	·01445			
5.45	49.30	5.50	·1009	20.10	·01430			
6. 6	43. 0	6. 2	·1005	21.34	·01400			
7.14	49.50	6.35	·1010	22.34	·01400			
	***	7.33	·1015	23. 2	·01427			
10.32	45.50	13.45	·1016	23.59	·01418			
12.17	47.50	18.30	·1021					
12.32	47. 0	19.43	·1014					
14. 0	47.10	20.30	·1013					
14.15	48.15	22.50	·1002					
14.30	45. 5							
15. 1	48. 0							
16.15	46.35							
18.14	45.50							
19.15	44. 5							
21.16	46. 0							
23. 0	52. 0							
23.59	52.30							
Sept.25		Sept.25		Sept.25		Sept.25		
0. 0	21.52.30	0. 0	·1004	0. 0	·01400	1.40	63·0	65·5
2. 6	52.40	2.30	·1017	2.10	·01175	3.40	65·0	67·0
3. 2	50.25	3. 0	·1013	4.45	·00607	9.40	64·0	65·5
3.35	50. 0	3.25	·1017	4.47	·00640	21.40	54·0	56·0
4.30	46. 0		***	7.45:	·00505			
5.30	45.30	4.35	·0998	11.30	·00905			
	***		***	12.45	·01135			
9.15	46.30	6.30	·1010	14.15	·01384			
	***	6.42	·1013		·01306			
10.34	45.30		***	15.50	·01335			
	***	8. 0	·1015	19. 0	·01342			
12.29	48.30		***	22. 5	·01325			
	***	8.20	·1022	23.30	·01347			
13.20	41.30	8.36	·1017					
13.50	46.25	8.59	·1018					
14. 8	45.15	9. 4	·1017					
14.45	43.25	11.57	·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.	Readings of Thermometers. Of V. F. Magnet.
Sept.25		Sept.25						
h m	° ′ ″	h m		h m		h m	°	°
15.38	21.45.10	12.41	·1045					
	***	13.29	·1026					
19.39	45. 0	14.13	·1031					
20.31	42.50	14.22	·1025					
22.20	49.20	14.39	·1033					
23.59	51. 0	14.55	·1031					
		15.15	·1038					
		16. 5	·1032					
		16.58	·1041					
			***					
		18.15	·1043					
		20.30	·1039					
		23.31	·1030					
Sept.26		Sept.26		Sept.26		Sept.26		
0. 0	21.51. 0	0. 0	·1036	0. 0	·01275	1.40	59·0	61·5
1.14	51.30		***	0.45:	·01180	3.40	64·0	66·0
	***	1.15	·1039	2.46	·00535	9.40	65·0	66·0
4.14	46.35	1.42	·1031		·00616	21.40	55·0	56·0
7.38	46. 0	2.20	·1035	4. 0	·00625			
9. 1	44.20	3. 0	·1030	4.44	·00605			
9.23	45.15	3.31	·1028		·00700			
11.32	44.30	3.37	·1034	5.57	·00610			
12. 0	46. 0	3.50	·1024		·00747			
12.52	45.35	4.46	·1020	7.30:	·00600			
13.14	47.25	5. 3	·1023	11. 0	·00668			
13.40	45.25	5.26	·1019	14. 0	·01014			
14.30	45.50		***	15.40	·01322			
15. 1	48.55	5.48	·1019	19. 0	·01273			
15.50	45.30	6. 2	·1029	20.15	·01280			
17.30	47.30	6.46	·1018	21.45:	·01256			
20.40	44.25	7.27	·1022	22.55	·01276			
21.45	45.30	7.33	·1014					
22. 9	43. 5	7.42	·1024					
23.59	49.35	8.22	·1014					
		8.41	·1022					
		8.57	·1020					
		9. 7	·1028					
		9.30	·1022					
		11. 0	·1025					
		12.45	·1028					
		13.45	·1038					
			***					
		14.30	·1032					
		15.17	·1036					
		18. 5	·1041					
		20.10	·1040					
		22.20	·1031					
		23.53	·1028					
Sept.27		Sept.27		Sept.27		Sept.27		
0. 0	21.49.40	0. 0	·1023	0. 0	·01275	1.40	58·0	60·5
	***	0.41	·1030	1.15:	·01054	3.40	64·0	66·0
1.49	51.10	0.50	·1026	3.12	·00595	9.40	67·0	69·0
2.40	50. 0	1.55	·1034		·00634	21.40	66·0	67·0
	(†)	2. 5	·1029	5. 0	·00673			
4.45	46. 0	3. 0	·1034		·00740			
5.30	45.10	3.15	·1032	6.35	·00651			
5.43	47. 0		(†)		·00740			

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

September 24. There is some uncertainty in the times both of the Declination and of the Horizontal Force, owing to an irregularity in the going of the time-piece.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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.27		Sept.27		Sept.27				
h m	° ′ ″	h m		h m		h m	°	°
6. 57	21. 44. 55	4. 45	·1035	8. 0	·00625			
	***	5. 45	·1033	12. 0	·00561			
7. 46	45. 0	6. 21	·1023	14. 0	·00559			
8. 7	43. 50	6. 56	·1029	16. 45	·00580			
9. 15	44. 35	7. 40	·1026	19. 30	·00640			
10. 0	37. 30	7. 45	·1022	21. 45	·00744			
10. 30	29. 0	8. 8	·1021	23. 59	·00820			
11. 15	44. 0	8. 39	·1014					
11. 52	41. 0	9. 0	·1015					
12. 46	44. 55	9. 12	·1022					
	***	9. 30	·1022					
14. 15	46. 40	9. 37	·1015					
14. 22	48. 30	10. 15	·1010					
14. 45	47. 20	10. 53	·1027					
15. 1	44. 10	11. 15	·1026					
15. 28	48. 20	11. 44	·1021					
15. 34	46. 0	13. 7	·1036					
15. 45	47. 10	13. 15	·1033					
15. 55	44. 25	14. 15	·1037					
	***	14. 25	·1042					
16. 30	43. 10	14. 37	·1038					
17. 0	45. 5	14. 42	·1042					
17. 55	45. 30	14. 57	·1033					
18. 39	49. 30	15. 36	·1028					
	***	15. 45	·1034					
19. 14	49. 0	17. 25	·1042					
	***	18. 5	·1036					
19. 55:	54. 20		***					
	***	19. 6	·1010					
20. 30	50. 0	19. 29	·1022					
20. 52	48. 30	19. 34	·1015					
	***	21. 0	·1018					
21. 44	50. 30	21. 43	·0998					
22. 24	54. 30	21. 49	·1004					
	***	22. 45	·0996					
23. 8	56. 10	23. 27	·1005					
23. 20	55. 30	23. 59	·0998					
23. 59	56. 35							
Sept.28		Sept.28		Sept.28		Sept.28		
0. 0	21. 56. 30	0. 5	·0998	0. 15	·00800	1. 40	68 ·0	69 ·0
0. 46	58. 0	0. 55	·1003	1. 30	·00805	3. 40	68 ·5	70 ·0
1. 3	57. 0	1. 15	·0996	3. 17	·00680	9. 40	69 ·0	71 ·0
1. 24	57. 35	1. 51	·1011		·00758	21. 40	66 ·0	68 ·0
1. 55	53. 5	2. 25	·1020	4. 27	·00745			
2. 10	53. 10	2. 31	·1002		·00850			
2. 40	56. 0	2. 37	·1014	8. 20	·00738			
2. 45	53. 0	2. 59	·1014	10. 15	·00715			
	***	3. 11	·1009	11. 45	·00750			
4. 14	54. 35	3. 44	·1014	16. 0	·00976			
4. 50	51. 30	4. 17	·1002	21. 45	·01326			
5. 7	47. 20	4. 26	·1004	23. 55	·01365			
5. 15	46. 0	4. 44	·0994					
5. 59	47. 0	5. 1	·1007					
6. 20	49. 0	5. 16	·1004					
7. 6	49. 25	5. 26	·1008					
	***	5. 40	·1002					
8. 50	44. 50	6. 13	·1010					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept.28		Sept.28						
h m	° ′ ″	h m		h m		h m	°	°
9. 16	21. 46. 30	6. 29	·1016					
10. 5	46. 0	6. 41	·1007					
10. 25	40. 30	7. 7	·1005					
10. 45	44. 0	7. 20	·1015					
11. 1	42. 0	7. 45	·1019					
11. 20	45. 0	8. 30	·1016					
11. 32	44. 55	9. 59	·1016					
11. 46	46. 25	10. 15	·1021					
12. 16	45. 25	10. 32	·1016					
	***	11. 0	·1032					
13. 8	46. 35	11. 15	·1020					
	***	11. 33	·1019					
14. 15	44. 0	13. 19	·1026					
14. 45	47. 30	13. 35	·1017					
15. 0	44. 0	13. 44	·1025					
	***	14. 15	·1021					
15. 30	44. 30	14. 31	·1024					
15. 45	46. 30	14. 35	·1019					
16. 24	42. 30	15. 0	·1020					
17. 10	46. 10	15. 36	·1030					
17. 59	49. 0	15. 50	·1027					
	***	16. 0	·1031					
19. 0	47. 30	16. 40	·1030					
19. 36	49. 10	16. 58	·1023					
	***	18. 10	·1021					
20. 45	46. 5	18. 30	·1031					
21. 16	46. 0	19. 5	·1024					
22. 10	50. 0	19. 27	·1027					
22. 24	48. 25	19. 40	·1018					
22. 44	50. 0	21. 12	·1008					
23. 25	49. 20	21. 29	·1011					
23. 44	50. 50	22. 10	·0993					
23. 55	50. 30	22. 30	·1002					
		23. 32	·1010					
Sept.29		Sept.29		Sept.29		Sept.29		
0. 0	21. 51. 0	0. 0	·1013	0. 0	·01343	1. 40	68 ·5	70 ·0
0. 14	52. 35	0. 45	·1010	2. 0	·01206	3. 40	69 ·0	71 ·0
0. 50	50. 25	1. 18	·1017	5. 45	·00830	9. 40	69 ·0	72 ·0
1. 0	51. 35	1. 30	·1012	7. 25	·00715	22. 55	67 ·0	69 ·0
	***	1. 45	·1015		·00768			
2. 6	51. 40	2. 0	·1005	9. 45	·00754			
3. 0	49. 10	2. 27	·1008		***			
5. 35	47. 30	2. 59	·1004	11. 0	·00751			
6. 30	48. 30	3. 29	·1013	15. 15	·00940			
7. 25	47. 50	4. 36	·1013	19. 0	·01176			
8. 37	46. 30	6. 0	·1012	21. 20	·01350			
9. 15	41. 15	7. 28	·1016	23. 30	·01335			
	***	7. 55	·1013					
9. 45	39. 40	8. 45	·1014					
10. 5	43. 50	9. 17	·1033					
10. 15	42. 25	9. 44	·1016					
10. 31	49. 0	9. 58	·1045					
11. 13	43. 0	10. 20	·1018					
12. 0	47. 0	10. 59	·1010					
12. 17	45. 0	11. 50	·1023					
13. 28	45. 15	12. 3	·1017					
13. 52	47. 30	12. 48	·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.	Readings of Thermometers. Of V. F. Magnet.
Sept. 29		Sept. 29						
h m	° ′ ″	h m		h m		h m	°	°
14. 16	21. 44. 50	12. 59	·1016					
16. 15	45. 0	14. 24	·1020					
17. 15	46. 30	15. 12	·1016					
18. 40	47. 55	16. 30	·1018					
18. 55	46. 25	18. 13	·1020					
19. 14	46. 45	18. 25	·1016					
20. 8	45. 0	18. 40	·1018					
22. 19	47. 25	18. 48	·1016					
23. 8	51. 0	19. 5	·1020					
23. 59	52. 15	21. 40	·1006					
		23. 27	·1000					
Sept. 30		Sept. 30		Sept. 30		Sept. 30		
0. 0	21. 52. 15	0. 0	·1012	0. 0	·01330	9. 45	68 ·0	69 ·0
2. 15	52. 0	2. 35	·1015	1. 45	·01255	21. 40	64 ·0	65 ·5
4. 36	48. 25	2. 50	·1018	4. 15	·00940			
6. 36	46. 40	3. 5	·1016	5. 55	·00766			
7. 41	47. 40	5. 9	·1020		·00818			
8. 1	45. 0	6. 5	·1015	8. 0	·00775			
8. 17	40. 40	6. 33	·1010	9. 30	·00770			
	***	7. 35	·1021	10. 0:	·00764			
9. 25	46. 35	7. 59	·1014	11. 15	·00851			
	***	8. 25	·1025	13. 45	·01197			
10. 27	46. 0	9. 30	·1021	16. 0	·01489			
	***	9. 37	·1023	16. 5	·01452			
12. 36	48. 35	10. 50	·1020	18. 30	·01475			
	***	12. 50	·1024	23. 59	·01467			
13. 29	46. 0	13. 20	·1021					
	***	15. 0	·1022					
16. 30	48. 25	15. 30	·1027					
	***	16. 10	·1026					
19. 45	47. 0	17. 8	·1032					
	***	19. 15	·1033					
21. 28	45. 20	20. 0	·1029					
23. 59	52. 20	20. 25	·1030					
		23. 18	·1013					
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
0. 0	21. 52. 25	0. 36	·1014	1. 40	·01333*	1. 40	67 ·0	70 ·0
0. 40	52. 30	0. 46	·1010	3. 40	·00991*	3. 40	67 ·0	69 ·0
	***	1. 17	·1015	9. 40	·00708*	9. 40	69 ·5	72 ·0
2. 31	52. 5		***	21. 40	·01404*	21. 40	61 ·0	62 ·5
4. 15	49. 30	3. 0	·1000					
5. 50	48. 25	3. 30	·1005					
6. 33	45. 0	3. 52	·0996					
7. 15	45. 35	4. 18	·0999					
7. 41	44. 30		***					
8. 45	45. 30	5. 27	·0998					
10. 31	45. 15	5. 34	·1002					
10. 51	46. 25	6. 0	·0998					
	***	6. 42	·1002					
13. 55	45. 20	7. 13	·0999					
	***	7. 27	·1000					
16. 6	47. 25	7. 35	·1003					
16. 58	45. 30	8. 10	·1002					
18. 47	46. 20		***					
19. 45	45. 35	10. 10	·1011					
20. 10	47. 0	11. 30	·1013					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 1		Oct. 1						
h m	° ′ ″	h m		h m		h m	°	°
22. 30	21. 47. 25	15. 35	·1016					
23. 59	49. 10	16. 45	·1021					
		17. 28	·1017					
		19. 50	·1024					
		20. 12	·1021					
		22. 0	·1018					
		22. 35	·1016					
		23. 59	·1022					
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
0. 0	21. 49. 15	0. 35	·1020	0. 30	·01428	1. 40	62 ·0	64 ·0
2. 46	50. 20		***	2. 15:	·01310	3. 40	64 ·5	66 ·0
5. 14	48. 0	2. 3	·1021	4. 45:	·00786	9. 40	65 ·0	67 ·0
8. 2	45. 40		***	6. 17	·00540	21. 40	58 ·0	60 ·0
8. 16	44. 0	5. 54	·1017		·00617			
9. 24	45. 50	6. 15	·1020	9. 15:	·00540			
11. 14	43. 0	8. 10	·1023	12. 0	·00704			
11. 55	45. 0	8. 25	·1017	15. 0	·01019			
12. 50	42. 20	8. 45	·1023	17. 10	·01340			
13. 9	44. 35	9. 25	·1018		·01286			
13. 30	43. 35	11. 0	·1025	18. 45	·01290			
13. 45	44. 30	11. 25	·1022	21. 30	·01307			
14. 15	42. 15	11. 58	·1027	23. 59	·01324			
14. 45	43. 50	12. 12	·1025					
15. 13	41. 20	13. 44	·1019					
16. 17	45. 45	14. 2	·1028					
	***	14. 26	·1020					
17. 29	47. 10	14. 57	·1026					
17. 52	45. 0	15. 16	·1023					
18. 16	47. 0	16. 16	·1026					
19. 0	48. 0		***					
19. 32	50. 0	17. 15	·1024					
20. 15	48. 0	17. 59	·1038					
21. 9	49. 30		***					
21. 45	48. 45	19. 14	·1029					
23. 25	50. 0	19. 46	·1041					
23. 31	48. 45		***					
23. 59	50. 35	20. 26	·1039					
		21. 4	·1042					
		22. 32	·1036					
			***					
		23. 45	·1016					
		23. 59	·1020					
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
0. 0	21. 50. 55	0. 0	·1020	0. 30	·01310	1. 40	59 ·0	61 ·0
0. 31	51. 25	0. 30	·1015	1. 45	·01245	3. 40	62 ·0	63 ·0
1. 15	56. 35		***	2. 45	·01160	9. 40	63 ·5	64 ·0
	***	1. 14	·1020	4. 29	·00917	21. 40	63 ·5	65 ·0
1. 47	54. 30	1. 45	·1001	5. 45	·00790			
2. 0	•46. 30	1. 59	·1014	6. 45	·00648			
2. 14	46. 0	2. 10	·1003		·00697			
2. 31	58. 50	2. 30	·1006	8. 30	·00668			
2. 46	45. 40	2. 42	·0999	11. 35	·00565			
3. 8	21. 46. 30		***	12. 10:	·00488			
3. 23	22. 0. 30	3. 3	·1007		***			
3. 46	21. 57. 50	3. 12	·1017	16. 0	·00518			
	**	3. 32	·1001	20. 45	·00579			

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. 3		Oct. 3		Oct. 3				
h m	° ′ ″	h m		h m		h m	°	°
4. 40	21. 58. 35	3. 48	·1023	23. 59	·00561			
4. 56	22. 2. 25	3. 58	·1004					
	***	4. 2	·1009					
5. 29	21. 54. 0		***					
	***	4. 44	·1018					
5. 58	56. 35	5. 0	·0999					
6. 22	54. 15	5. 15	·0987					
	***	5. 25	·0998					
6. 56	49. 0	5. 40	·0999					
7. 16	51. 20	5. 46	·0996					
7. 40	45. 0	6. 0	·0988					
	***	6. 11	·0997					
8. 28	44. 0	6. 26	·0988					
	***		***					
9. 34	46. 30	7. 2	·0994					
10. 2	45. 10	8. 0	·0994					
10. 14	43. 20		***					
10. 21	43. 30	9. 19	·0998					
10. 44	40. 0	10. 8	·1007					
11. 3	39. 45	10. 18	·1013					
11. 15	38. 20	10. 26	·1006					
11. 27	38. 35	10. 45	·1007					
11. 41	44. 40	10. 51	·1001					
11. 47	44. 0	11. 0	·1003					
12. 5	44. 40	11. 18	·0998					
12. 37	39. 5	11. 25	·1002					
13. 0	38. 35	11. 50	·1031					
13. 35	45. 15	12. 45	·1004					
14. 31:	42. 15	13. 15	·1008					
16. 0:	46. 10	13. 28	·1002					
17. 50	47. 25	13. 55	·1016					
19. 59	44. 35	14. 12	·1013					
20. 14	45. 25	14. 25	·1018					
20. 39	44. 0	14. 57	·1014					
23. 30	48. 35	17. 17	·1012					
23. 59	50. 35	17. 33	·1014					
		18. 21	·1013					
		18. 33	·1015					
		19. 15	·1017					
		19. 37	·1015					
		19. 56	·1016					
		20. 33	·1015					
		20. 42	·1016					
		20. 54	·1015					
		23. 59	·1006					
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
0. 0	21. 50. 40	0. 0	·1006	1. 0	·00527	1. 40	64 ·0	65 ·5
1. 15	54. 0	0. 35	·1010	1. 20	·00518	3. 40	68 ·0	69 ·5
2. 26	53. 5	1. 0	·1005		·00596	9. 40	67 ·0	69 ·0
4. 52	48. 40	1. 16	·1009	1. 25	·00595	21. 40	60 ·0	61 ·0
6. 44	46. 25	1. 32	·1004		·00670			
7. 0	43. 15	2. 45	·1008	2. 30	·00620			
7. 20	44. 50	3. 45	·1012	6. 30	·00611			
7. 45	44. 10	4. 30	·1006	8. 25	·00607			
8. 55	47. 0	6. 0	·1010	10. 50:	·00729			
9. 45	46. 0	6. 55	·1008	11. 15	·00708			
	***	7. 7	·1013	11. 30	·00750			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
Oct. 4		Oct. 4		Oct. 4				
h m	° ′ ″	h m		h m		h m	°	°
10. 22	21. 47. 30	7. 40	·1006	13. 45	·00347			
11. 25	31. 50	9. 56	·1011	14. 5	·00950			
11. 44	24. 30	10. 3	·1025	14. 45	·01030			
12. 16	27. 0	10. 15	·1016	15. 0	·00967			
12. 54	38. 5	10. 20	·1023	15. 15	·01045			
	***	10. 30	·1012		***			
13. 27	39. 0	10. 36	·1016	15. 30	·00990			
13. 44	44. 50	10. 45	·1007	16. 40	·01073			
14. 31	26. 40	11. 28	·0976	16. 15	·01047			
14. 58	47. 0	11. 30	·0990	16. 35	·01125			
15. 16	58. 0	11. 52	·0993		·01093			
15. 43	44. 0	12. 0	·0988	17. 0	·01097			
16. 0	41. 5	12. 10	·0992	18. 30	·01275			
16. 6	42. 10	12. 28	·0972		***			
16. 18	36. 0	13. 15	·1011	21. 0	·01341			
16. 44	38. 35	13. 28	·1024	22. 45	·01337			
	***	13. 44	·1008	23. 59	·01276			
17. 2	38. 30	13. 52	·1009					
17. 29	44. 45	14. 5	·0993					
	***	14. 18	·0992					
17. 57	42. 35	14. 30	·0976					
18. 1	44. 40	14. 46	·0993					
18. 9	42. 20	14. 50	·0992					
18. 55	47. 0	15. 14	·1036					
19. 2	45. 10	15. 25	·1031					
19. 30	46. 30	15. 35	·1032					
19. 49	49. 50	15. 45	·1038					
20. 2	45. 15	15. 58	·1056					
20. 31	44. 35	16. 10	·1039					
21. 8	49. 15	16. 14	·1041					
21. 59	46. 30	16. 32	·1035					
	***	16. 47	·1034					
23. 59	50. 40	17. 4	·1016					
		17. 28	·1003					
		18. 1	·1019					
		18. 10	·1012					
			***					
		18. 51	·1026					
		19. 6	·1017					
		19. 9	·1016					
		19. 46	·1002					
		20. 0	·0988					
		20. 40	·1010					
		21. 8	·1010					
		21. 50	·0986					
		22. 30	·1002					
		23. 10	·1004					
		23. 59	·1003					
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
0. 0	21. 50. 45	0. 0	·1003	0. 4	·01249	1. 40	62 ·0	63 ·0
2. 0	53. 40		***	2. 15	·01126	3. 40	64 ·0	65 ·0
5. 14	47. 5	1. 45	·1002	4. 35	·00607	9. 40	63 ·5	65 ·0
6. 30	45. 55	2. 28	·0999		·00655	21. 40	60 ·0	61 ·0
8. 24	47. 5		***	6. 15	·00590			
11. 45	48. 0	3. 57	·1003	8. 0	·00500			
15. 2	47. 0	4. 5	·1006	11. 15	·00613			
15. 51	48. 30	4. 45	·1004	15. 45	·00818			

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. 5		Oct. 5		Oct. 5				
h m	° ′ ″	h m		h m		h m	°	°
17. 0	21. 47. 30	9. 30	·1011	18. 0	·00981			
17. 15	48. 30	15. 0	·1016	21. 30	·01262			
20. 15	45. 45	15. 8	·1018	22. 45:	·01338			
20. 41	44. 0	15. 25	·1014	23. 59	·01287			
21. 55	47. 0	15. 45	·1017					
22. 35	46. 30	15. 55	·1012					
23. 40	48. 0	17. 0	·1019					
23. 59	49. 15	17. 17	·1014					
		17. 45	·1020					
		18. 59	·1024					
		21. 5	·1021					
		21. 45	·1016 (†)					
		23. 30	·0998					
		23. 59	·0994					
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
0. 0	21. 49. 25	0. 0	·0994	1. 0	·01174	1. 40	63 ·5	64 ·8
1. 56	52. 45	1. 45	·0992	2. 25	·00850	3. 40	66 ·0	67 ·0
4. 20	48. 10	2. 45	·1001	2. 33	·00843	9. 40	67 ·0	67 ·5
6. 36	45. 0	3. 0	·0996		·00903	23. 0	63 ·5	65 ·0
11. 30	48. 30	3. 20	·1002	3. 20	·00827			
	***	3. 50	·0998		·00876			
16. 50	47. 25	12. 45	·1004	3. 38	·00850			
	***	14. 3	·1009		·00908			
19. 0	46. 30	14. 20	·1008	4. 44	·00832			
21. 5	43. 40	18. 0	·1018		·00878			
22. 34	48. 10	18. 27	·1016	8. 0	·00776			
23. 59	50. 0	19. 45	·1015	10. 15	·00754			
		21. 0	·1007	12. 30	·00800			
		23. 59	·0989	16. 30	·01023			
				19. 45	·01204			
				22. 25:	·01293			
				23. 59	·01245			
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
0. 0	21. 50. 10	0. 0	·0989	0. 15	·01238	9. 45	64 ·0	65 ·5
1. 14	51. 0		***	1. 45:	·01165	21. 40	60 ·0	61 ·0
3. 31	49. 10	4. 25	·1002	3. 15	·01010			
4. 40	47. 0	4. 34	·0998	7. 25:	·00753			
6. 30	45. 50	5. 45	·1000	12. 0	·00902			
7. 40	46. 30	7. 0	·1008	13. 30	·00975			
8. 4	45. 0	7. 45	·1008	16. 0	·01076			
8. 25	46. 15	7. 59	·1006	18. 20	·01225			
8. 41	43. 50	9. 5	·1013	22. 20	·01207			
9. 32	47. 0	9. 18	·1010	23. 59	·01157			
10. 59	46. 30	10. 15	·1013					
11. 16	44. 30	10. 45	·1010					
12. 0	46. 35	11. 2	·1029					
	***	11. 35	·1011					
14. 0	46. 0	13. 2	·1016					
15. 17	47. 30	13. 17	·1011					
18. 30	46. 10	13. 30	·1014					
20. 6	44. 0	15. 40	·1015					
20. 34	43. 30	16. 0	·1017					
21. 58	46. 0	19. 0	·1020					
	***	20. 16	·1016					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 7		Oct. 7				Oct. 8		
h m	° ′ ″	h m		h m		h m	°	°
23. 33	21. 52. 0	21. 0	·1010			1. 40	63 ·0	64 ·8
23. 59	51. 40	23. 59	·0995			3. 40	64 ·0	65 ·0
						9. 40	66 ·0	67 ·5
Oct. 8		Oct. 8		Oct. 8		21. 40	58 ·0	59 ·0
0. 0	21. 51. 40	0. 0	·0994	0. 30	·01082			
0. 46	52. 50	0. 25	·0997	1. 30	·00927			
3. 10	50. 10	1. 31	·1000	2. 25	·00752			
5. 1	46. 35		***	3. 40	·00750			
	***	2. 54	·1004		·00798			
7. 43	46. 0	4. 20	·1002	5. 0:	·00782			
	***	5. 15	·1002	9. 15:	·00698			
8. 47	48. 0	8. 0	·1006	11. 0	·00800			
9. 5	46. 30	8. 58	·1005	14. 35	·01263			
9. 21	47. 35	9. 4	·1010	21. 24	·01167			
9. 31	46. 30	9. 26	·1008	23. 59	·01187			
11. 15	48. 35	9. 31	·1012					
	***	10. 45	·1008					
15. 3	47. 30	17. 29	·1028					
17. 28	48. 0	17. 32	·1034					
19. 53	46. 35	19. 0	·1036					
21. 52	44. 30		***					
	***	20. 45	·1034					
23. 59	50. 30	22. 5	·1024					
		22. 25	·1028					
		23. 59	·1016					
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
0. 0	21. 51. 0	0. 0	·1016	0. 45	·01197	1. 40	59 ·0	60 ·5
0. 45	54. 0	0. 50	·1017	2. 15	·01160	3. 40	60 ·5	62 ·0
1. 14	53. 40	1. 15	·1014	3. 30:	·01036	9. 40	62 ·0	64 ·0
1. 45	55. 30	1. 43	·1018		***	21. 40	57 ·0	59 ·0
2. 51	51. 5	2. 21	·1015	5. 35	·00630			
3. 45	53. 25	2. 45	·1023	7. 30	·00623			
	***	3. 13	·1018	13. 30	·00602			
6. 45	48. 20	3. 49	·1022	16. 0	·00689			
8. 59	48. 40	4. 4	·1021	19. 15	·00927			
9. 59	47. 0	5. 8	·1023	21. 50	·01181			
10. 15	47. 30	5. 17	·1020	23. 55	·01186			
10. 56	43. 25	5. 35	·1023					
	***		***					
12. 22	44. 25	7. 7	·1050					
12. 41	43. 30		***					
12. 55	40. 0	9. 23	·1033					
13. 2	41. 15	9. 29	·1019					
13. 15	39. 0	9. 33	·1026					
13. 30	39. 30	10. 4	·1027					
13. 45	42. 0	10. 16	·1028					
14. 19	41. 35	10. 21	·1038					
	***		***					
15. 41	47. 30	10. 52	·1027					
16. 19	46. 0	11. 8	·1031					
16. 31	42. 55	11. 31	·1026					
17. 7	47. 30	11. 41	·1040					
18. 1	48. 0	11. 47	·1022					
	***	11. 55	·1038					
20. 31	47. 10	12. 10	·1032					
	***	12. 15	·1040					
21. 36	45. 0	12. 26	·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.
Oct. 9		Oct. 9						
h m	° ′ ″	h m		h m		h m	°	°
22. 14	21. 47. 10	12. 45	·1030					
23. 14	48. 0	12. 51	·1018					
23. 35	50. 35	13. 7	·1023					
23. 50	50. 40	13. 15	·1016					
		13. 22	·1017					
		13. 33	·1012					
		14. 55	·1017					
		15. 4	·1024					
			***					
		15. 51	·1037					
		16. 1	·1022					
		16. 10	·1033					
		16. 30	·1014					
		16. 34	·1006					
		16. 44	·1025					
		17. 1	·1017					
		17. 18	·1015					
		17. 37	·1023					
			***					
		20. 15	·1022					
			***					
		21. 30	·1009					
			***					
		22. 13	·1016					
		22. 52	·1013					
		23. 20	·1016					
		23. 51	·1022					
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
0. 0	21. 49. 40	0. 15	·1011	0. 0	·01166	1. 40	58 ·0	58 ·0
0. 7	48. 55	0. 40	·1014	1. 0	·01186	3. 40	59 ·5	60 ·0
0. 31	48. 15	0. 58	·1010	3. 30:	·01126	9. 40	59 ·0	59 ·0
0. 50	50. 50	1. 47	·1017	5. 45	·00846	21. 40	55 ·5	57 ·0
1. 20	50. 0	2. 3	·1016	7. 15	·00731			
2. 0	52. 30	4. 30	·1015	9. 12:	·00673			
2. 36	50. 10	4. 50	·1014	11. 5	·00723			
4. 56	47. 0	6. 38	·1019	12. 18	·00803			
6. 30	46. 10	7. 0	·1017	15. 30	·00963			
7. 6	44. 30	7. 22	·1022	17. 10	·01073			
	***	7. 50	·1019	18. 38	·01169			
9. 44	46. 30	8. 15	·1022	21. 0	·01176			
9. 55	43. 40	8. 30	·1018	22. 50	·01162			
10. 27	44. 0	9. 10	·1026	23. 59	·01126			
10. 52	46. 0	9. 22	·1024					
11. 16	44. 35	9. 31	·1027					
11. 46	45. 20	9. 45	·1022					
12. 0	43. 30	10. 15	·1027					
12. 30	46. 0	10. 24	·1024					
13. 10	47. 10	10. 45	·1026					
	***	11. 29	·1023					
13. 53	47. 15	11. 47	·1026					
14. 2	50. 0	12. 6	·1020					
14. 15	49. 10	12. 30	·1025					
14. 35	51. 35	12. 42	·1023					
15. 15	45. 0	13. 45	·1024					
15. 52:	46. 30	15. 1	·1037					
16. 40:	42. 0	15. 29	·1023					
	***	16. 31	·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.
Oct. 10		Oct. 10						
h m	° ′ ″	h m		h m		h m	°	°
17. 20	21. 46. 0	16. 50	·1034					
18. 0	44. 30	17. 10	·1028					
18. 18	45. 25	17. 31	·1033					
	***	18. 42	·1028					
21. 25	47. 30	19. 5	·1033					
21. 35	45. 35		***					
	***	19. 45	·1028					
22. 29	48. 25	21. 0	·1023					
22. 36	51. 10	21. 25	·1017					
23. 2	49. 35		***					
23. 22	52. 0	22. 50	·1016					
23. 44	53. 30	23. 5	·1016					
		23. 20	·1018					
		23. 35	·1012					
		23. 59	·1016					
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
0. 5	21. 53. 10	0. 0	·1015	0. 15	·00978	1. 40	56 ·5	57 ·2
	***	0. 57	·1030	1. 0	·00923	3. 40	60 ·0	61 ·0
1. 10	51. 25		***	2. 30	·00826	9. 40	62 ·0	63 ·0
1. 30	52. 10	1. 45	·1027	3. 55:	·00627	21. 40	61 ·0	62 ·0
1. 44	51. 5	2. 12	·1033	4. 56	·00368			
2. 8:	54. 0	2. 50	·1014	6. 12	·00383			
	***	2. 59	·0996	8. 15	·00369			
2. 52	50. 20	3. 31	·1024	17. 0	·00318			
3. 20	48. 25	4. 0:	·1014	21. 40	·00339			
3. 55	53. 0	4. 28	·1022	22. 0	·00316			
5. 0	44. 35	5. 40	·1019	23. 15	{ ·00324			
5. 44	46. 30	6. 6	·1020		{ ·00691			
	***	6. 10	·1025	23. 59	·00680			
6. 34	46. 30	7. 12	·1016					
7. 10	45. 0	7. 30	·1021					
7. 40	46. 30	7. 48	·1016					
8. 7	44. 35	8. 4	·1018					
8. 25	41. 0	8. 16	·1016					
8. 55	43. 30	8. 44	·1020					
9. 30	42. 25	8. 58	·1016					
10. 16	44. 30	9. 15	·1020					
10. 30	43. 30	9. 47	·1010					
11. 0	43. 10	10. 34	·1020					
11. 15	44. 35	11. 5	·1016					
	***	11. 20	·1014					
12. 9	44. 0	11. 33	·1016					
	***	11. 43	·1014					
12. 43	45. 0	12. 0	·1019					
13. 8	47. 30	12. 40	·1020					
13. 33	45. 10	13. 55	·1022					
14. 29	46. 0	14. 0	·1018					
14. 46	50. 35	14. 33	·1020					
15. 4	45. 0	14. 55	·1014					
15. 20	43. 35	15. 12	·1020					
15. 44	46. 0	15. 37	·1030					
16. 22	47. 25		***					
17. 25	46. 35	16. 2	·1027					
18. 0	45. 10		***					
18. 34	46. 30	17. 34	·1023					
19. 33	45. 10	18. 1	·1023					
20. 14	47. 40	18. 7	·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.	Of V. F. Magnet.
Oct. 11		Oct. 11						
h m	° ′ ″	h m		h m		h m	°	°
20. 50	21. 44. 0	19. 3	·1023					
	***	20. 0	·1010					
23. 15	46. 35	20. 15	·1018					
	***	20. 58	·1015					
23. 50	50. 45	22. 15	·1013					
			***					
		23. 15	·1010					
		23. 50	·1014					
		23. 59	·1012					
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 0	21. 51. 0	0. 0	·1012	0. 20	·00672	1. 40	62 ·0	63 ·0
	***	0. 10	·1006	2. 0	·00645	3. 40	63 ·1	64 ·5
0. 52	49. 40	0. 25	·1016	3. 0	·00583	9. 40	64 ·0	65 ·0
1. 20	52. 5		***	9. 15	·00503	21. 40	58 ·0	59 ·0
	***	0. 42	·1004	12. 0	·00540			
3. 15	49. 30	1. 15	·1015	12. 45	·00542			
5. 50	45. 20	1. 42	·1012	15. 15	·00738			
6. 17:	43. 25	2. 0	·1019	16. 35	·00843			
6. 35	44. 40	2. 30	·1013	18. 28	·01077			
7. 5	44. 35	2. 37	·1012	23. 59	·01028			
7. 25	46. 30	3. 2	·1015					
7. 47	45. 30	3. 13	·1012					
8. 14	46. 25	3. 50	·1014					
10. 16	46. 0	4. 22	·1013					
10. 29	42. 50	4. 37	·1015					
	***	5. 45	·1019					
11. 17	43. 30	6. 19	·1012					
11. 31	45. 0	6. 37	·1018					
11. 45	44. 5	6. 50	·1018					
12. 0	37. 25	7. 14	·1023					
12. 32	44. 40	7. 28	·1017					
13. 2	43. 50	7. 42	·1014					
13. 15	44. 35	8. 30	·1018					
13. 45	42. 0	8. 45	·1015					
	***	9. 5	·1017					
15. 29	46. 0	10. 19	·1010					
15. 46	42. 40	11. 15	·1007					
	***	11. 40	·1007					
16. 15	42. 50	12. 0	·1039					
16. 28	45. 0	12. 55	·1018					
17. 50	48. 0	14. 45	·1021					
	***	14. 57	·1018					
19. 45	48. 0	15. 7	·1018					
	***	15. 39	·1032					
20. 44	45. 0	16. 4	·1021					
21. 8	45. 30	16. 24	·1029					
21. 39	43. 30	16. 34	·1022					
	***	16. 55	·1024					
23. 16	49. 0	19. 12	·1027					
23. 31	50. 35	20. 37	·1023					
23. 43	50. 25	21. 15	·1016					
23. 46	51. 20	22. 15	·1018					
23. 59	51. 0	22. 30	·1029					
		23. 15	·1026					
		23. 20	·1027					
		23. 44	·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.	Of V. F. Magnet.
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 51. 0	0. 41	·1010	0. 0	·01043	1. 40	59 ·5	60 ·0
2. 7	51. 0	1. 30	·1015	2. 15:	·00960	3. 40	62 ·0	63 ·0
4. 44	46. 0	2. 4	·1010	4. 26	·00464	9. 40	62 ·0	63 ·0
6. 45	44. 10	2. 40	·1012	5. 10	·00483	23. 25	55 ·0	55 ·7
	***	2. 56	·1016	6. 0	·00458			
9. 51	46. 40	3. 25	·1012	8. 0:	·00420			
10. 49	45. 10	4. 5	·1014	10. 6	·00518			
11. 13	43. 25	4. 44	·1010	12. 35	·00758			
	***	4. 59	·1015	13. 30	·00825			
12. 24	44. 55	5. 18	·1011	15. 18	·01063			
12. 50	51. 20	6. 25	·1014	18. 3	·01045			
13. 15	50. 30	6. 35	·1012	22. 15	·01040			
13. 31	47. 30	7. 30	·1019	23. 59	·00996			
14. 0	45. 15	8. 35	·1018					
15. 14	47. 30	9. 5	·1022					
15. 32	45. 0	9. 25	·1018					
16. 30	48. 0	10. 12	·1022					
	***	10. 19	·1027					
18. 16	47. 0	10. 30	·1024					
18. 35	46. 0	10. 36	·1026					
	***	11. 4	·1017					
20. 6	46. 10	11. 15	·1020					
20. 30	48. 0	11. 37	·1016					
	***	11. 45	·1020					
21. 45	45. 5	12. 1	·1012					
22. 44	44. 55	13. 10	·1023					
23. 59	48. 40	15. 0	·1023					
		15. 42	·1031					
		15. 55	·1024					
		18. 15	·1033					
		18. 40	·1039					
		19. 0	·1038					
		19. 40	·1027					
			***					
		21. 0	·1022					
		21. 16	·1013					
			***					
		23. 15	·1016					
		23. 59	·1015					
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 0	21. 48. 55	0. 0	·1015	0. 30	·01008	9. 43	57 ·5	58 ·5
	***	0. 45	·1016	2. 50:	·01004	21. 40	52 ·2	54 ·0
1. 15	52. 10	1. 0	·1014	5. 15	·00858			
4. 10	47. 35	1. 12	·1020	7. 35	·00737			
6. 25	47. 0	1. 15	·1017	9. 10	·00687			
7. 44	44. 0	4. 15	·1028	11. 25	·00677			
8. 10	45. 10	5. 10	·1024	14. 15	·00768			
8. 45	44. 15	5. 44	·1028	15. 30	·00848			
	***	6. 30	·1024	17. 12	·01017			
10. 21	46. 0	7. 0	·1026	21. 47	·01020			
10. 35	43. 30	7. 40	·1023		(†)			
11. 1	44. 55	8. 40	·1028					
11. 16	44. 35	8. 59	·1031					
11. 32	46. 25	9. 10	·1028					
12. 15	46. 0	9. 20	·1033					
12. 30	47. 10	9. 40	·1035					
12. 57	45. 30	10. 27	·1030					

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. 14		Oct. 14						
h m	° ′ ″	h m		h m		h m	°	°
13. 44	21. 46. 0	10. 45	·1038					
14. 25:	48. 40	11. 20	·1030					
	***	11. 34	·1033					
15. 36	44. 55	11. 55	·1031					
17. 0	49. 0	13. 0	·1027					
17. 36	48. 40	13. 20	·1026					
18. 13	50. 50	14. 28	·1027					
	***	14. 35	·1030					
21. 47	44. 15	16. 2	·1030					
	(†)	16. 25	·1026					
		16. 37	·1028					
		17. 3	·1027					
		18. 0	·1035					
		18. 17	·1032					
		18. 30	·1035					
		18. 35	·1032					
		18. 42	·1036					
		19. 0	·1037					
		19. 58	·1038					
		20. 26	·1036					
		20. 51	·1038					
		21. 12	·1034					
		21. 57	·1026					
			(†)					
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 35	21. 51. 10	0. 40	·1020	0. 30	·01017	1. 40	55 ·0	56 ·0
2. 20	50. 35		***	2. 20:	·00847	3. 40	58 ·5	59 ·0
5. 24	46. 25	4. 14	·1018	4. 18	·00380	9. 40	60 ·0	61 ·5
7. 40	45. 0	5. 48	·1018	5. 52	·00408	21. 40	53 ·5	55 ·0
9. 3	45. 30	6. 4	·1020	11. 15	·00308			
9. 29:	42. 30	9. 50	·1020	14. 30	·00407			
9. 52	45. 0	10. 1	·1028	16. 10	·00566			
10. 18	44. 0	10. 38	·1020	17. 48	·00773			
11. 0	47. 5	10. 52	·1019	20. 10	·01103			
11. 30	44. 40	11. 2	·1027	21. 35	·01065			
12. 16	46. 35	12. 10	·1020	23. 8	·01055			
	***	12. 45	·1026	23. 47	·01067			
13. 16	44. 25	14. 10	·1020					
	***	15. 5	·1020					
14. 50	47. 0	15. 40	·1024					
15. 36	46. 20	16. 28	·1023					
	***	16. 48	·1028					
16. 22	48. 0	18. 30	·1030					
17. 0	47. 20	19. 5	·1033					
18. 39	49. 15	20. 35	·1032					
19. 0	47. 50	20. 55	·1028					
	***	21. 44	·1008					
21. 0	45. 0	22. 32	·1014					
	***	23. 30	·1014					
22. 16	47. 25	23. 42	·1015					
22. 55	45. 15							
23. 59	48. 30							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 0	21. 48. 35	0. 0	·1017	0. 8	·01064	1. 40	55 ·5	56 ·0
1. 38	52. 0	1. 15	·1018	2. 21:	·00907	3. 40	58 ·2	58 ·5
2. 32	52. 0	2. 30	·1018	4. 55	·00394	9. 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.
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
h m	° ′ ″	h m		h m		h m	°	°
4. 39	21. 48. 20	3. 15	·1016	5. 45	·00408	21. 40	58 ·5	59 ·0
	***	3. 56	·1021	7. 35	·00398			
6. 50	47. 35	5. 45	·1016	9. 0	·00395			
7. 11	48. 35	6. 20	·1021	11. 8	·00358			
7. 44	41. 0	6. 32	·1018	13. 45	·00343			
7. 56	41. 40	7. 0	·1024	18. 50	·00464			
	***	7. 32	·1010	21. 21	·00464			
8. 31	40. 35	8. 1	·1017	23. 59	·00372			
	***	8. 11	·1016					
9. 10	36. 0	8. 30	·1024					
	***	9. 3	·1018					
9. 49	36. 15		***					
10. 30	37. 30	10. 0	·1004					
10. 49:	42. 35	10. 50	·1002					
11. 27	41. 15	11. 5	·1013					
12. 8	45. 0	12. 32	·1020					
13. 22	44. 35	13. 15	·1018					
	***	15. 12	·1023					
15. 45	47. 0	15. 30	·1020					
16. 1	45. 30	17. 3	·1027					
	***		***					
19. 30	45. 5	18. 8	·1028					
	***	20. 40	·1026					
19. 59	44. 15	23. 28	·1005					
21. 45	44. 15							
23. 15	46. 40							
-	(†)							
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 30	21. 50. 30	0. 45	·1008	0. 30	·00378	1. 40	60 ·0	61 ·0
2. 8	51. 45	2. 45	·1010	0. 48	·00367	3. 40	64 ·5	65 ·0
5. 27	45. 10	3. 25	·1008	3. 0	·00536	9. 40	65 ·0	66 ·0
6. 44	45. 30	4. 28	·1012	4. 20	·00597	21. 40	59 ·5	61 ·0
7. 1	42. 50	4. 46	·1010	4. 45	·00583			
7. 44:	45. 15	6. 35	·1013	4. 56	·00618			
8. 6	44. 0	7. 3	·1008	5. 3	·00584			
8. 46	44. 30	7. 25	·1014	8. 15	·00527			
10. 8	45. 30	7. 46	·1015	11. 15	·00518			
11. 20	43. 0	8. 55	·1014	14. 15	·00617			
12. 8	44. 0	9. 18	·1016	17. 45	·00866			
12. 45	44. 0	10. 17	·1015	22. 10	·01227			
13. 30	46. 0	10. 30	·1020	23. 55	·01190			
	***	11. 16	·1012					
16. 28	45. 35	11. 42	·1017					
18. 55	46. 0	12. 15	·1016					
20. 55	44. 15	12. 46	·1020					
22. 20	44. 0	13. 12	·1017					
23. 55	48. 30	13. 27	·1023					
		15. 20	·1020					
		16. 17	·1024					
		16. 21	·1022					
		16. 33	·1023					
		16. 55	·1028					
		18. 0	·1032					
			***					
		18. 45	·1036					
		19. 50	·1030					
		20. 6	·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.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Oct. 17 h m		h m		h m	°	°
		21. 5	·1025					
		21. 38	·1024					
		21. 48	·1026					
		22. 28	·1016					
		23. 59	·1014					
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 15	21. 50. 15	0. 0	·1014	0. 0	·01181	1. 40	60 ·0	61 ·0
	***	0. 10	·1022	2. 30	·01192	3. 40	62 ·0	63 ·0
1. 5	52. 0		***	5. 30	·00958	9. 40	61 ·5	62 ·0
1. 18	54. 0	0. 45	·1018	6. 0	·00953	21. 40	57 ·0	58 ·0
1. 46	55. 15	1. 0	·1022	7. 0	·00820			
2. 3	53. 0		***		***			
2. 39	54. 5	1. 30	·1021	9. 15	·00798			
	***	1. 45	·1014	10. 0	·00730			
3. 42	49. 20	1. 47	·1016	10. 26	·00578			
	***	2. 3	·1007	10. 35	·00605			
5. 2	54. 0	2. 40	·1015	10. 45	·00565			
	***	2. 53	·1006	11. 1	·00565			
5. 45	47. 55		***	11. 26	·00693			
6. 0	49. 20	3. 32	·1013	14. 0	·00865			
6. 43	41. 25	3. 43	·1007	14. 25	·00936			
7. 0	48. 25	4. 10	·1021	17. 30	·01220			
7. 14	57. 20	4. 25	·1015	21. 0	·01218			
7. 40	44. 0	4. 50	·1010	23. 50	·01188			
8. 6	48. 30	5. 15	·0986					
8. 29	42. 0	5. 35	·0981					
8. 40	45. 0	6. 0	·0994					
9. 0	36. 50	6. 6	·0990					
9. 13	37. 30	6. 14	·0998					
9. 57	33. 50	6. 28	·0988					
10. 5	36. 30	6. 44	·1002					
10. 11	35. 0	6. 59	·0988					
10. 15	37. 30	7. 3	·0994					
10. 30	30. 20	7. 30	·0956					
10. 50	42. 5	7. 36	·0957					
11. 7	32. 50	7. 57	·0972					
11. 21	31. 0	8. 15	·0962					
12. 15	41. 30	8. 18	·0969					
	***	8. 40	·0975					
12. 47	39. 30	8. 59	·0959					
13. 0	41. 10	9. 14	·0967					
13. 30	33. 25	9. 29	·0968					
13. 49	33. 55	10. 0	·0978					
14. 31	45. 30	10. 18	·1030					
	***	10. 30	·1005					
16. 25	49. 0	10. 38	·1018					
16. 32	47. 50	11. 10	·0962					
17. 4	48. 15	11. 15	·0978					
17. 30	49. 50	11. 25	·0978					
18. 15	48. 0	11. 43	·0997					
18. 34	49. 55	11. 52	·0992					
20. 0	46. 0	12. 17	·0992					
20. 15	47. 55	12. 37	·1011					
21. 30	45. 0	12. 45	·1016					
23. 35	48. 30	13. 12	·1010					
23. 59	50. 30	13. 22	·1014					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Oct. 18 h m		h m		h m	°	°
		13. 40	·1003					
		14. 28	·1009					
		14. 40	·1006					
		15. 25	·1006					
		15. 40	·1003					
		15. 56	·1008					
			***					
		16. 31	·1002					
		17. 4	·1006					
		17. 27	·1014					
		17. 34	·1011					
		18. 6	·1021					
		18. 45	·1016					
		19. 0	·1018					
		19. 58	·1018					
		21. 25	·1006					
		22. 0	·1004					
		22. 23	·0995					
		23. 59	·1006					
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
0. 0	21. 50. 30	0. 0	·1007	0. 15	·01188	1. 40	59 ·5	61 ·0
2. 2	50. 40	1. 3	·0997	2. 30	·00983	3. 40	62 ·0	63 ·0
4. 50	47. 5	3. 2	·1008	4. 33	·00506	9. 40	63 ·0	64 ·5
5. 45	46. 45	3. 28	·1007	4. 50	·00523	21. 40	57 ·0	58 ·0
6. 15	44. 0	4. 28	·1010	7. 35	·00482			
	***	5. 27	·1006	10. 10	·00467			
7. 31	46. 0	6. 3	·0994	13. 15	·00662			
8. 0	43. 30	6. 45	·1004	15. 52	·00882			
8. 24	44. 40	7. 0	·1003	18. 45	·01159			
9. 0	44. 30	7. 15	·1008	19. 30	·01133			
9. 40	41. 0	7. 50	·1005	23. 59	·01172			
9. 45	42. 0	9. 10	·1014					
9. 57	41. 0	9. 17	·1010					
10. 17	44. 0	9. 43	·1023					
10. 44	45. 0	9. 58	·1014					
11. 15	42. 0	10. 30	·1010					
12. 10	40. 55	11. 0	·1015					
12. 40	46. 0	11. 15	·1012					
13. 30	42. 35	12. 35	·1010					
14. 0	44. 30	12. 56	·1018					
14. 44	44. 20	13. 15	·1014					
15. 21	47. 30	14. 0	·1016					
15. 46	47. 0	15. 0	·1015					
16. 6	48. 5	15. 40	·1020					
17. 1	52. 10	16. 0	·1019					
17. 15	49. 0	16. 30	·1018					
17. 30	50. 0	17. 0	·1026					
17. 39	48. 15	17. 10	·1018					
18. 0	48. 30	17. 16	·1031					
18. 31	46. 30		***					
19. 30	50. 0	17. 30	·1030					
20. 50	45. 0	17. 45	·1037					
21. 16	44. 5	18. 28	·1031					
22. 21	46. 10	18. 43	·1026					
22. 55	48. 45	19. 27	·1026					
23. 44	48. 50	19. 32	·1021					
23. 59	49. 35	20. 0	·1021					
		22. 46	·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.	Of V. F. Magnet.
h m	° ′ ″	Oct. 19 h m		h m		h m	°	°
		23. 3	·1010					
		23. 30	·1004					
		23. 59	·1006					
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 0	21. 49. 40	0. 0	·1006	0. 25	·01133	1. 40	59 ·0	61 ·0
0. 44	53. 0	0. 30	·1010	1. 6	·01073	3. 40	62 ·5	63 ·0
1. 44	51. 40	1. 43	·1004	3. 38	·00528	9. 40	61 ·0	62 ·0
2. 15	54. 15		(†)	4. 15	·00587	23. 0	60 ·5	61 ·5
3. 28	49. 10	3. 37	·1004	7. 13	·00573			
5. 0	45. 30	3. 45	·1002		·00723			
5. 30	46. 30	4. 10	·1008	8. 45	·00633			
6. 0	45. 30	4. 26	·1006	9. 15	·00597			
6. 40	32. 55	4. 30	·1007	12. 0	·00633			
7. 31	45. 5	5. 6	·1010	13. 15	·00607			
8. 14	45. 10	5. 55	·0999	13. 30	·00643			
8. 43	39. 0	6. 5	·0989	14. 15	·00662			
9. 0	43. 0	6. 56	·1000	18. 21	·00927			
9. 19	43. 35	7. 15	·0996	20. 0:	·01003			
9. 52	40. 20	7. 30	·1005	23. 27	·01015			
10. 16	43. 25	7. 44	·0999					
10. 30	42. 25	8. 15	·1010					
10. 46	44. 40	8. 25	·1018					
11. 3	43. 50	8. 30	·1016					
11. 29	44. 20	8. 45	·1034					
11. 51	43. 0	9. 4	·1019					
12. 8	48. 0	9. 44	·1010					
12. 26	45. 0	9. 59	·1015					
12. 46	46. 10	10. 30	·1007					
13. 15	40. 0		***					
13. 41	50. 40	11. 49	·1007					
14. 16	43. 5	12. 1	·1009					
15. 9	46. 5	12. 42	·1037					
15. 43	43. 45	12. 45	·1040					
16. 44	45. 40	13. 0	·1023					
19. 55	43. 45	13. 6	·1027					
22. 10	44. 30	13. 15	·1019					
23. 3	46. 0	13. 29	·1040					
23. 59	49. 25	14. 0	·1020					
		14. 50	·1012					
		15. 8	·1013					
		15. 45	·1022					
		16. 50	·1020					
		19. 19	·1020					
		20. 10	·1017					
		23. 43	·1002					
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 0	21. 49. 30	0. 0	·1000	0. 0	·00978	9. 15	63 ·0	63 ·5
0. 31	51. 0	0. 50	·0998	5. 20	·00535	21. 40	61 ·5	63 ·5
1. 8	50. 0	1. 55	·1012	10. 30	·00547			
1. 39	51. 0	2. 10	·1011	12. 32	·00538			
2. 35	50. 30	3. 27	·1012	16. 50	·00519			
5. 2	46. 0	4. 15	·1010	20. 0	·00557			
6. 35	46. 0	4. 45	·1012	22. 45	·00658			
7. 2	43. 50	5. 11	·1015	23. 59	·00719			
7. 16	44. 45	6. 55	·1014					
7. 44	41. 15	7. 15	·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.
Oct. 21 h m	° ′ ″	Oct. 21 h m		h m		h m	°	°
8. 22	21. 45. 25	7. 30	·1012					
10. 0	44. 35	7. 50	·1018					
17. 45	46. 0	8. 3	·1016					
21. 14	44. 30	8. 15	·1018					
22. 15	44. 25	8. 50	·1014					
23. 59	49. 25	9. 33	·1016					
		11. 42	·1017					
		12. 38	·1016					
		19. 15	·1024					
		21. 33	·1019					
		23. 0	·1018					
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 0	21. 49. 30	1. 25	·1008	1. 15	·00733	1. 40	62 ·0	63 ·5
1. 10	53. 5		***	1. 50:	·00713	3. 40	64 ·0	65 ·0
2. 20	52. 30	2. 47	·1007	3. 44	·00563	9. 40	65 ·0	66 ·0
3. 15	49. 15		***		·00598	21. 40	61 ·0	62 ·0
5. 0	46. 0	3. 47	·1004	6. 34	·00621			
9. 44	45. 35	4. 55	·1009	6. 40	·00697			
9. 59	43. 35	9. 40	·1014	8. 10	·00597			
10. 41	45. 40	9. 59	·1019	10. 30	·00573			
11. 42	45. 0	10. 16	·1014	17. 0	·00833			
12. 20	46. 30	11. 0	·1017	20. 30	·01118			
15. 10	47. 30	11. 45	·1015	22. 0	·01220			
15. 46	46. 15	12. 40	·1014	23. 0	·01308			
19. 15	45. 25	13. 27	·1017	23. 59	·01317			
22. 0	43. 35	14. 41	·1016					
23. 59	49. 5	19. 28	·1024					
		20. 30	·1022					
		23. 16	·1009					
		23. 59	·1010					
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 0	21. 49. 20	0. 0	·1010	0. 5	·01300	1. 40	62 ·0	63 ·0
0. 22	49. 30	1. 28	·1012	1. 45	·01268	3. 40	63 ·5	64 ·5
1. 30	52. 0	1. 30	·1014	3. 30	·01120	9. 40	65 ·0	66 ·5
2. 0	50. 10	1. 52	·1011	5. 30	·00895	21. 40	57 ·0	58 ·0
2. 30	51. 20	2. 39	·1020	8. 5	·00673			
5. 40	48. 0	2. 58	·1017	8. 50	·00647			
6. 16	43. 40	3. 15	·1014	10. 15	·00576			
	***	3. 55	·1011	11. 15	·00520			
7. 44	46. 0	4. 0	·1015	13. 30	·00556			
8. 30	43. 20	4. 20	·1008	16. 35	·00766			
8. 45	44. 30	5. 36	·1010	18. 22	·01023			
9. 1	41. 35	6. 25	·1006	20. 5	·01273			
9. 22	34. 30	7. 15	·1014	22. 30	·01198			
9. 44	38. 30	7. 30	·1008	23. 30	·01207			
10. 9	33. 30	7. 40	·1011					
10. 28	37. 25	7. 50	·1008					
10. 46	37. 0	8. 22	·1006					
11. 0	38. 35	8. 58	·1017					
11. 30	36. 0	9. 5	·1015					
11. 59	34. 30	9. 25	·1036					
	***	9. 45	·1009					
12. 58	43. 25	10. 10	·1002					
13. 15	38. 25	10. 25	·1011					
13. 39	37. 35	10. 33	·1008					
			***					

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. 23		Oct. 23						
h m	° ′ ″	h m		h m		h m	°	°
14. 14	21. 44. 0	11. 6	·1014					
	***	11. 29	·1002					
15. 50	48. 30	12. 7	·0993					
	***	13. 10	·1000					
16. 31	47. 30	13. 13	·1004					
	***	13. 57	·0997					
18. 8	49. 50	14. 30	·1002					
	***	14. 44	·1011					
19. 29	47. 55	14. 55	·1010					
	***	16. 30	·1014					
19. 46	49. 30	16. 47	·1017					
	***	16. 55	·1012					
20. 40	45. 30	17. 30	·1018					
	***	18. 15	·1012					
21. 30	46. 30	19. 0	·1015					
22. 15:	43. 50		***					
	***	19. 48	·1026					
23. 5	45. 0	20. 35	·1010					
23. 15	44. 40	20. 55	·1018					
23. 25	46. 30	22. 27	·1008					
23. 37	45. 50	23. 2	·1011					
23. 45	47. 40	23. 15	·1008					
23. 59	48. 0	23. 25	·1013					
		23. 59	·1007					
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 0	21. 48. 0	0. 0	·1007	0. 55	·01172	1. 40	58 ·0	59 ·0
	***		***	2. 0	·01168	3. 40	59 ·5	61 ·0
1. 31	51. 0	1. 25	·1012	4. 16	·00935	9. 40	59 ·0	59 ·0
3. 26	49. 10		***	7. 30:	·00603	21. 40	52 ·0	53 ·0
4. 32	46. 0	3. 57	·1000	13. 53	·01132			
7. 40	45. 25	5. 4	·1012	19. 5	·01113			
	***	7. 10	·1015	23. 59	·01095			
9. 25	46. 30	8. 13	·1023					
	***	10. 2	·1020					
10. 17	44. 30	10. 13	·1030					
10. 30	46. 30	10. 40	·1034					
	***	11. 3	·1020					
13. 54	48. 10	11. 32	·1023					
14. 17	47. 10	11. 50	·1031					
14. 46	48. 30	13. 25	·1026					
15. 25	47. 5	15. 13	·1030					
16. 14	48. 15	15. 45	·1026					
	***	16. 55	·1032					
19. 10	46. 30		***					
	***	18. 12	·1035					
20. 12	44. 0	19. 40	·1031					
22. 0	44. 5	20. 14	·1033					
23. 59	50. 30	22. 58	·1016					
		23. 36	·1018					
		23. 42	·1017					
		23. 47	·1020					
		23. 59	·1016					
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
0. 0	21. 50. 30	0. 0	·1016	0. 45	·01092	1. 40	54 ·5	55 ·5
1. 1	53. 10	0. 44	·1022	2. 3	·01037	3. 40	55 ·5	56 ·0
2. 16	52. 15	1. 0	·1024	3. 30	·00858	9. 40	58· 0	59 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
h m	° ′ ″	h m		h m		h m	°	°
4. 26	21. 48. 0	1. 10	·1022	7. 1	·00383	21. 40	58 ·0	59 ·0
6. 52	45. 0	2. 15	·1024	14. 22	·00365			
7. 29	45. 35	2. 20	·1026	17. 30	·00372			
7. 45	41. 0	3. 4	·1025	23. 59	·00378			
8. 36	44. 40	3. 15	·1023					
9. 50	44. 30	4. 3	·1026					
14. 25	47. 0	4. 45	·1023					
15. 14	45. 35	5. 39	·1027					
16. 13	47. 0	5. 55	·1026					
16. 30	45. 35		***					
16. 54	46. 0	7. 25	·1029					
17. 14	44. 35	7. 44	·1024					
19. 0	44. 20	8. 0	·1038					
21. 32	43. 30	8. 42	·1026					
23. 59	50. 35	10. 30	·1030					
		10. 55	·1028					
		13. 32	·1026					
		14. 15	·1030					
		19. 30	·1038					
		20. 34	·1037					
		21. 32	·1033					
		23. 10	·1019					
		23. 20	·1020					
		23. 44	·1016					
		23. 47	·1020					
		23. 59	·1022					
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 0	21. 50. 40	0. 0	·1022	0. 35	·00348	1. 40	59 ·0	60 ·0
2. 0	51. 0	0. 31	·1019	2. 34	·00387	3. 40	60 ·0	61 ·0
4. 15	47. 30	1. 10	·1020		·00657	9. 40	57 ·0	58 ·0
6. 0	45. 0	1. 28	·1024	3. 30	·00600	21. 40	49 ·0	53 ·0
8. 0	47. 0	2. 18	·1023	5. 45:	·00460			
	***	4. 12	·1024	8. 5:	·00442			
8. 43	45. 35	7. 0	·1030	9. 40	·00553			
	***	8. 50	·1024	11. 50	·00809			
9. 15	47. 0		***	14. 18	·01145			
	***	10. 53	·1028	15. 47	·01138			
10. 14	45. 35	11. 16	·1028	19. 5	·01118			
10. 45	47. 10	11. 32	·1032	20. 40	·01113			
	***	12. 0	·1031	22. 25	·01068			
12. 14	48. 0	12. 15	·1038	23. 59	·01098			
12. 36	46. 0	12. 40	·1033					
	***	13. 12	·1032					
13. 24	48. 35	13. 48	·1037					
13. 46	46. 55	15. 0	·1056					
14. 44	46. 0	18. 0	·1045					
16. 55	47. 0	19. 50	·1044					
20. 30	46. 0	20. 20	·1041					
21. 52	44. 0	21. 10	·1037					
22. 15	47. 50	23. 18	·1022					
	***	23. 59	·1026					
23. 54	52. 30							
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 0	21. 52. 0	0. 0	·1027	1. 0	·01095	1. 40	53 ·0	54 ·0
	***	0. 48	·1027	2. 20	·00993	3. 40	55 ·0	57 ·0
1. 4	50. 35	1. 0	·1026	3. 0:	·00895	9. 40	55 ·0	56 ·0
2. 6	49. 25		***	5. 21	·00362	23. 0	52 ·0	53 ·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.
Oct. 27		Oct. 27		Oct. 27				
h m	° ′ ″	h m		h m		h m	°	°
3. 53	21. 49. 20	1. 30	·1033	6. 30	·00378			
	***	2. 53	·1025	7. 35	·00380			
4. 30	50. 20		***	8. 20	·00397			
5. 21	47. 40	5. 10	·1012	8. 45	·00368			
5. 47	49. 40	5. 44	·1014	9. 15	·00302			
	***	6. 0	·1010	12. 5	·00483			
6. 50	48. 0		***	17. 50	·00947			
7. 40	40. 35	6. 43	·1010	21. 0	·01063			
8. 0	42. 30	6. 47	·1017	23. 25	·01038			
8. 20	42. 40	7. 27	·1002					
8. 31	40. 35	7. 44	·1006					
8. 46	44. 0	8. 0	·1002					
9. 8	37. 0	8. 27	·1010					
9. 28	33. 35	8. 44	·1026					
9. 48	41. 0	8. 50	·1022					
10. 29	45. 5	9. 5	·1040					
11. 29	44. 35	9. 27	·1027					
11. 38	46. 30	9. 35	·1031					
11. 58	44. 35	9. 45	·1024					
	***	10. 25	·1022					
13. 0	47. 50	11. 0	·1030					
	***	11. 27	·1030					
15. 0	48. 0	11. 35	·1035					
17. 50	45. 35	12. 10	·1030					
19. 46	44. 45	18. 12	·1042					
21. 24	43. 30	19. 46	·1042					
	***	21. 5	·1037					
23. 8	49. 30	23. 10	·1014					
	***	23. 27	·1016					
23. 59	51. 0	23. 31	·1014					
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 0	21. 51. 5	0. 0	·1018	0. 0	·01008	9. 10	56 ·5	58 ·0
1. 15:	51. 40	0. 52	·1017	1. 15	·00892	21. 40	52 ·0	53 ·0
3. 40:	46. 50	2. 40	·1026	5. 18	·00358			
5. 0	45. 0	4. 55	·1030	8. 0:	·00380			
7. 20	46. 35	5. 43	·1028	10. 25	·00353			
8. 25	44. 0	6. 15	·1021	11. 20	·00322			
9. 2	44. 50	6. 46	·1021	15. 30	·00497			
9. 24	43. 20	7. 32	·1015	19. 45	·00780			
9. 56	36. 15	8. 30	·1020	21. 59	·00857			
10. 14	36. 20	9. 57	·1021	22. 55	·00883			
10. 36	40. 20	10. 15	·1026	23. 59	·00874			
10. 52	40. 25	10. 30	·1037					
11. 45	45. 5	10. 48	·1031					
14. 22	46. 25	12. 0	·1032					
15. 6	49. 0	12. 46	·1034					
15. 42	46. 50	14. 25	·1037					
18. 0	45. 30	14. 45	·1036					
19. 44	43. 50	15. 59	·1042					
21. 30	43. 55	17. 45	·1040					
22. 37	45. 25	19. 5	·1044					
23. 59	50. 30	20. 0	·1042					
		20. 31	·1036					
		20. 50	·1031					
		22. 57	·1024					
		23. 59	·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.
Oct. 29		Oct. 29		Oct. 29		Oct. 29		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 50. 35	0. 0	·1019	1. 10	·00847	1. 40	54 ·0	56 ·0
1. 0	52. 35	0. 50	·1026	2. 29	·00740	3. 40	55 ·5	57 ·0
3. 26	50. 40	2. 15	·1032	4. 46	·00362	9. 40	57 ·0	58 ·0
4. 45	51. 5	2. 43	·1027		·00417	21. 40	55 ·0	56 ·0
5. 15	49. 30		***	8. 45	·00407			
5. 35	50. 25	4. 17	·1029	12. 25	·00337			
6. 35	48. 20	4. 40	·1023	14. 15	·00338			
7. 15	43. 30	5. 15	·1023	21. 30	·00367			
7. 44	45. 55	5. 26	·1028	23. 50	·00314			
8. 6	44. 50	5. 35	·1026					
8. 30	45. 30	5. 45	·1028					
8. 45	44. 0	6. 12	·1024					
10. 14	43. 50	6. 37	·1028					
11. 1	46. 0	6. 55	·1023					
11. 29:	44. 25	7. 30	·1034					
12. 2	46. 25	7. 47	·1030					
12. 22	45. 30	8. 11	·1030					
14. 0	45. 30	8. 20	·1033					
14. 40	47. 5	8. 40	·1032					
15. 10	46. 50	9. 12	·1032					
16. 24	48. 25	9. 59	·1036					
16. 55	46. 45	10. 8	·1034					
20. 0	44. 10	10. 47	·1034					
22. 4	46. 0	11. 0	·1036					
23. 59	51. 30	11. 10	·1034					
		11. 43	·1031					
		11. 53	·1030					
		12. 1	·1040					
		12. 45	·1034					
		13. 0	·1037					
		14. 0	·1034					
		15. 31	·1034					
		16. 53	·1040					
		18. 57	·1042					
		20. 15	·1038					
		21. 30	·1029					
		23. 25	·1022					
		23. 59	·1016					
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
0. 0	21. 51. 35	0. 0	·1016	0. 45	·00320	1. 40	57 ·0	58 ·0
0. 35	53. 25	0. 47	·1036	2. 16	·00344	3. 40	58 ·5	59 ·0
1. 44	53. 25	1. 3	·1032		·00470	9. 40	58 ·0	60 ·0
6. 15	47. 30	3. 15	·1032	2. 50	·00412	21. 40	56 ·5	58 ·0
6. 31	48. 20	7. 56	·1037	6. 0	·00460			
11. 3	45. 5	11. 3	·1037	8. 0	·00437			
11. 38	45. 10	11. 39	·1046	14. 34	·00403			
11. 59	43. 25	11. 57	·1040	18. 30	·00510			
12. 14	45. 0	12. 12	·1044	23. 40	·00684			
13. 0	42. 0	12. 35	·1040					
14. 0	45. 40	13. 45	·1034					
14. 58	46. 30	17. 0	·1044					
19. 13	45. 0	19. 55	·1043					
20. 8	44. 40	21. 55	·1036					
22. 30	46. 55	22. 30	·1030					
23. 59	49. 0	23. 45	·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.
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 49. 5	0. 0	·1028	0. 0	·00687	1. 40	57 ·0	58 ·0
1. 50:	51. 0	0. 32	·1030	2. 45	·00680	3. 40	58 ·0	59 ·0
5. 30	44. 35	0. 50	·1026	5. 0	·00543	9. 40	57 ·0	58 ·0
6. 34	46. 30	2. 30	·1024	8. 0:	·00477	21. 40	49 ·0	51 ·0
6. 46	45. 30	2. 48	·1026	14. 38	·00884			
8. 0	45. 5	3. 40	·1024	16. 57	·01143			
10. 8	46. 15	4. 0	·1024	19. 17	·01098			
	***	4. 30	·1020	19. 20	·01040			
16. 0	47. 40	5. 20	·1018	21. 50	{·01104			
16. 46	46. 0	5. 48	·1024		{·01065			
17. 25	49. 40	6. 15	·1023	22. 20	·01182			
18. 14	47. 0	7. 40	·1027		(†)			
	***	8. 30	·1034					
21. 14	44. 35	9. 30	·1036					
21. 46	44. 35	17. 17	·1043					
22. 14	43. 15	18. 15	·1049					
23. 8	48. 30	18. 36	·1047					
23. 59	50. 30	20. 15	·1048					
		21. 33	·1040					
		23. 59	·1040					
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
1. 40	21. 51. 2*	1. 40	·1032*	0. 45	·01120	1. 40	50 ·0	51 ·5
3. 40	48. 37*	3. 40	·1033*	1. 30	·01143	3. 40	51 ·0	52 ·0
9. 40	45. 12*	9. 40	·1043*	2. 15	·01128	9. 40	51 ·0	53 ·0
21. 40	44. 55*	21. 40	·1047*	4. 20	·00971	21. 40	43 ·5	44 ·5
				6. 0	·00813			
				8. 45:	·00667			
				11. 30	·00724			
				15. 20	·01110			
				20. 30	·01172			
				23. 59	·01166			
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
1. 0	21. 50. 15	0. 56	·1043	0. 48	·01187	1. 40	45 ·0	47 ·0
2. 51	50. 0	1. 15	·1044	2. 45	·01097	3. 40	47 ·0	49 ·0
	***	1. 25	·1036	4. 5:	·00983	9. 40	49 ·0	50 ·0
3. 52	52. 20	1. 40	·1042	6. 50:	·00580	21. 40	49 ·0	51 ·0
4. 21	48. 55	3. 0	·1039	7. 48	·00467			
4. 36	51. 0	3. 18	·1025	8. 10	·00463			
6. 27	46. 50	4. 14	·1021	9. 10	·00397			
6. 50	48. 35	4. 30	·1031	15. 11	·00401			
7. 20	44. 0	4. 55	·1026	17. 20	·00395			
7. 51	31. 30	6. 2	·1031	19. 15	·00408			
8. 6	31. 30	6. 18	·1027	21. 45	·00420			
8. 43	39. 15	6. 44	·1031	23. 59	·00438			
9. 39	41. 40	6. 59	·1025					
10. 0	41. 0	7. 23	·1025					
11. 53	44. 0	7. 43	·1014					
	***	8. 17	·1035					
13. 30	44. 0	8. 30	·1028					
16. 2	44. 0	8. 56	·1028					
17. 10	46. 0	9. 49	·1047					
17. 37	44. 50	10. 9	·1047					
18. 5	46. 20	10. 32	·1043					
18. 43	44. 25	11. 38	·1042					
21. 59	43. 35	11. 45	·1044					
23. 59	47. 5	12. 2	·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.	Of V. F Magnet.
		Nov. 2						
h m	° ′ ″	h m		h m		h m	°	°
		12. 34	·1043					
		16. 42	·1042					
		17. 54	·1044					
		18. 28:	·1048					
		18. 49	·1042					
			***					
		19. 45	·1046					
		20. 30	·1042					
		21. 15	·1033					
		23. 59	·1026					
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 0	21. 47. 10	0. 0	·1026	1. 0	·00412	1. 40	50 ·5	51 ·5
2. 10	49. 25	0. 48	·1004	2. 21	{·00397	3. 40	51 ·5	52 ·0
3. 40	47. 20	1. 50	·1003		{·00485	9. 40	51 ·0	52 ·5
7. 35	44. 25	2. 10	·1008	4. 1	·00473	23. 22	49 ·8	51 ·0
7. 53	43. 35	2. 29	·1006	5. 30	·00457			
8. 9:	41. 35	3. 0	·1009	7. 0	·00447			
8. 40	43. 40	3. 44	·1007	12. 0	·00478			
8. 59	42. 35	4. 7	·1012	16. 30	·00698			
9. 30	44. 25	4. 19	·1008	19. 8	·00887			
12. 1	45. 0	4. 43	·1008	22. 0	·01118			
12. 15	47. 0	4. 54	·1011	23. 59	·01178			
12. 34	45. 0	5. 6	·1012					
12. 56	44. 35	5. 15	·1010					
13. 10	45. 35	6. 23	·1015					
13. 24	45. 0	7. 32	·1018					
15. 30	45. 10	7. 45	·1016					
16. 43	46. 0	8. 9	·1015					
17. 14	44. 40	8. 30	·1018					
18. 17	46. 50	8. 55	·1022					
21. 16	43. 15	9. 19	·1018					
23. 59	47. 30	11. 18	·1016					
		11. 32	·1018					
		11. 55	·1017					
		12. 16	·1022					
		12. 32	·1019					
			***					
		13 33	·1022					
		17. 30	·1029					
		17. 48	·1023					
		18. 3	·1026					
		18. 15	·1025					
		19. 0	·1034					
		20. 30	·1030					
		23. 59	·1014					
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 0	21. 47. 30	0. 0	·1014	0. 45	·01203	11. 20	49 ·0	50 ·0
1. 21	47. 10	0. 30	·1006	2. 5	·01210	21. 40	47 ·0	48 ·5
2. 0	48. 50	1. 15	·1007	3. 36:	·01102			
6. 46	44. 45	2. 10	·1011	6. 0	·00816			
7. 27	41. 35	5. 5	·1017	9. 0	·00508			
7. 59	44. 25	5. 25	·1017	10. 30	·00397			
10. 21	44. 5	5. 55	·1015	10. 40	·00425			
10. 46	42. 30		***	17. 0	·00418			
11. 16	43. 35	7. 45	·1019	19. 45	·00546			
11. 45	43. 0	9. 26	·1019	22. 0	·00718			

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

November 1. The Photographic Traces for the Horizontal Force and Declination Magnets were too faint for use.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 4		Nov. 4		Nov. 4				
h m	° ′ ″	h m		h m		h m	°	°
11. 59	21. 44. 0	10. 45	·1018	23. 20	·00920			
12. 15	43. 15	11. 5	·1012	23. 59	·00985			
12. 30	43. 45	12. 55	·1015					
13. 2	53. 20	13. 45	·1012					
	***	15. 10	·1013					
13. 53	45. 0	17. 25	·1021					
16. 40	44. 35		***					
17. 13	46. 35	19. 30	·1021					
18. 55	45. 35	22. 59	·1003					
20. 17	44. 15	23. 59	·1006					
22. 29	44. 25							
23. 59	48. 35							
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 0	21. 48. 40	0. 0	·1006	1. 30	·01047	1. 40	48 ·0	49 ·0
1. 25	49. 40	0. 7	·1005	3. 15:	·00885	3. 40	50 ·5	51 ·0
1. 45	49. 0	1. 10	·1004	5. 38	·00468	9. 40	51 ·0	52 ·0
5. 0	44. 30	1. 36	·1024	6. 3	·00498	21. 40	49 ·5	51 ·0
6. 40	43. 15	2. 0	·1021	8. 30	·00447			
	***	2. 15	·1022	9. 0:	·00498			
7. 59	45. 40	2. 40	·1019	9. 8	·00480			
8. 28	40. 35	6. 0	·1022	10. 44	·00466			
8. 37	41. 30	6. 43	·1025	11. 6:	·00438			
8. 55	36. 10	6. 56	·1030	18. 24	·00531			
9. 3	39. 30		***	19. 0	·00518			
9. 35	35. 15	7. 55	·1022	20. 17	·00540			
9. 50	36. 35	8. 3	·1017	23. 15	·00523			
10. 20	35. 35	8. 33	·0984	23. 59	·00478			
10. 59	38. 15	8. 43	·0983					
11. 19	30. 40	8. 53	·0988					
11. 40	37. 0	8. 59	1002					
11. 51	36. 5	9. 8	·0992					
12. 3	37. 45	9. 25	·0992					
12. 17	36. 30	9. 50	·0987					
13. 16	44. 15	10. 30	·0990					
13. 27	43. 40	10. 44	·0986					
13. 36	45. 30	10. 48	·0989					
13. 50	44. 0	11. 5	·0975					
	***	11. 31	·1000					
14. 36:	47. 15	11. 43	·0995					
	***	11. 55	·0998					
15. 22	44. 35	12. 0	·0997					
15. 39	44. 40	12. 27	·1012					
15. 51	42. 30	12. 36	·1011					
16. 19	46. 0	12. 43	·1018					
16. 37	43. 25	12. 49	·1014					
	***	13. 13	·1004					
17. 12	46. 0	13. 33	·1017					
	***	13. 47	·1011					
17. 55	45. 35	14. 10	·1014					
18. 4	43. 35	14. 30	·1015					
19. 14	43. 0	14. 40	·1012					
19. 17	42. 0	14. 45	·1015					
19. 29	44. 10	14. 50	·1012					
19. 50	43. 0	15. 8	·1011					
20. 0	41. 5	15. 30	·1016					
20. 14	43. 10	15. 45	·1014					
20. 29	41. 5	16. 10	·1015					
20. 40	44. 0	16. 16	·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.	Of V. F. Magnet.
Nov. 5		Nov. 5						
h m	° ′ ″	h m		h m		h m	°	°
20. 55	21. 42. 30	16. 20	·1013					
	***	16. 25	·1014					
21. 48	43. 0		***					
22. 18	44. 30	18. 31	·1020					
22. 25	47. 25	18. 36	·1017					
22. 50	46. 0	18. 56	·1024					
23. 17	48. 15	19. 5	·1022					
23. 59	47. 40		***					
		20. 0	·1016					
		20. 10	·1023					
		20. 21	·1019					
		20. 41	·1027					
		21. 0	·1022					
		21. 27	·1023					
		22. 18	·1013					
		22. 25	·1019					
		22. 47	·1010					
		23. 15	·1011					
		23. 59	·1008					
Nov. 6		Nov. 6		Nov. 6		Nov. 6		
0. 0	21. 47. 40	0. 0	·1008	1. 0	·00528	1. 40	53 ·2	54 ·5
1. 0	52. 0	0. 55	·1014	2. 46	·00639	3. 40	57 ·0	57 ·0
	(†)	1. 18	·1016		·00706	9. 40	57 ·0	58 ·0
2. 15	50. 0	2. 25	·0997	4. 30	·00697	21. 40	54 ·0	55 ·0
4. 47	47. 35	2. 48	·1002	5. 22	·00691			
5. 45	45. 10	3. 0	·0998	5. 25	·00817			
6. 1	44. 35	3. 13	·0998	6. 15:	·00702			
6. 29	34. 30	3. 40	·0992	8. 45	·00612			
7. 14	45. 30	4. 1	·0999	10. 8	·00596			
8. 33	45. 10	4. 25	·1002	10. 30	·00586			
8. 54	40. 0	4. 40	·0998	11. 45	·00625			
9. 14	42. 15	4. 55	·1006	16. 15	·00752			
9. 22	37. 15	5. 0	·1003	18. 30	·00847			
9. 30	40. 0	5. 14	·1010	22. 30	·00971			
9. 45	35. 0	5. 33	·1007	23. 59	·00965			
9. 55	39. 50	5. 44	·1000					
10. 6	37. 0	5. 59	·1004					
10. 16	40. 15	6. 13	·0996					
10. 45	37. 45	6. 30	·1013					
11. 2	37. 40	6. 37	·1016					
11. 36	34. 30	6. 50	·1009					
12. 6	45. 10	7. 12	·1012					
12. 21	43. 30	7. 28	·1005					
12. 45	43. 0	7. 48	·1008					
12. 57	40. 0	8. 13	·1012					
13. 26	44. 0	8. 45	·0999					
13. 50	43. 30	8. 59	·1012					
14. 5	41. 30	9. 3	·1012					
14. 27	42. 20	9. 17	·1017					
15. 9	41. 0	9. 26	·1028					
15. 44	44. 30	9. 34	·1017					
16. 1	43. 15	9. 40	·1018					
16. 26	44. 35	9. 48	·1030					
17. 0	44. 15	10. 15	·1029					
18. 13	43. 30	10. 32	·1014					
	***	10. 49	·1013					
22. 6	44. 0	11. 0	·1005					

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. 6		Nov. 6						
h m	° ′ ″	h m		h m		h m	°	°
23. 3	21. 45. 25	11. 35	·1003					
23. 16	48. 30	11. 54	·1015					
	***	12. 10	·1008					
23. 59	46. 35	12. 25	·1013					
		12. 43	·1015					
		12. 55	·1011					
		13. 2	·1016					
		13. 12	·1020					
		13. 20	·1022					
		13. 39	·1016					
		14. 12	·1031					
		14. 40	·1021					
		14. 46	·1023					
		15. 12	·1021					
		15. 27	·1012					
		15. 53	·1011					
		16. 10	·1017					
		16. 18	·1014					
		16. 39	·1011					
		17. 20	·1017					
		17. 42	·1015					
		17. 56	·1020					
			***					
		18. 40	·1017					
			***					
		20. 6	·1020					
			***					
		23. 10	·1016					
		23. 59	·1007					
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 0	21. 46. 35	0. 0	·1007	0. 15	·00957	1. 40	55 ·5	56 ·5
	***	0. 30	·1005	0. 45	·00950	3. 40	56 ·5	57 ·0
1. 0	53. 0	0. 57	·1004	1. 45	·00897	9. 40	56 ·5	57 ·0
	***	1. 5	·0998	3. 20	{·00720	21. 40	53 ·0	54 ·0
2. 10	48. 0	1. 17	·1006		{·00687			
3. 15	48. 55	1. 35	·0998		***			
3. 46	47. 25	1. 42	·1001	5. 0:	·00660			
4. 15	48. 0	2. 17	·0984	6. 1	·00675			
4. 32:	49. 30		***	6. 6	·00776			
5. 20	42. 0	3. 7	·1005	6. 24	·00805			
5. 44	44. 30		***	8. 0	·00750			
6. 15	34. 0	3. 57	·1004	10. 12	·00778			
	***		***	10. 35	·00757			
7. 15	46. 30	4. 28	·1003	18. 45	·01286			
9. 35	44. 5	4. 58	·1003	21. 55	·01382			
9. 55	38. 0	5. 12	·0991	23. 10:	·01337			
10. 15	45. 25	5. 20	·0991	23. 59	·01341			
	***	5. 32	·0983					
11. 25	39. 0	5. 42	·0986					
12. 7	39. 15	6. 0	·0987					
13. 3	44. 45	6. 10	·0998					
13. 37	43. 35	6. 20	·0998					
	***	6. 32	·0978					
14. 0	50. 30	7. 0	·0994					
14. 45	45. 10	7. 30	·0996					
	***	7. 35	·0992					
15. 15	44. 20	8. 12	·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.	Readings of Thermometers. Of V. F. Magnet.
Nov. 7		Nov. 7						
h m	° ′ ″	h m		h m		h m	°	°
15. 50	21. 45. 40	8. 40	·1002					
16. 28	43. 25	8. 48	·0998					
17. 0	45. 35	9. 25	·1006					
	***	9. 32	·1004					
21. 10	44. 50	9. 47	·1004					
23. 55	50. 55	10. 6	·1036					
		10. 25	·1017					
		10. 50	·1007					
		11. 8	·1010					
		11. 25	·1007					
		13. 8	·1004					
		13. 35	·1010					
		13. 58	·1004					
		14. 1	·1006					
		14. 18	·0997					
		15. 0	·1010					
		15. 44	·1006					
		17. 2	·1009					
		18. 0	·1015					
			***					
		19. 5	·1013					
		20. 40	·1016					
		22. 54	·1010					
		23. 20	·1014					
		23. 32	·1012					
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 2	21. 49. 50	0. 20	·1011	0. 30	·01357	1. 40	54 ·5	55 ·0
0. 30	51. 0	1. 0	·1008	2. 0	·01348	3. 40	54 ·0	55 ·0
1. 30	49. 10	1. 12	·1009	3. 55	·01278	9. 40	55 ·0	55 ·5
1. 56	51. 0	1. 26	·1008	5. 50	·01105	21. 40	49 ·0	51 ·0
2. 6	49. 40	1. 32	·1011	6. 10	·01116			
2. 45:	50. 40	2. 30	·1000	8. 15	·00943			
	***	3. 0	·0999	8. 27	·00925			
3. 44	46. 35	3. 14	·0990	9. 0	·00903			
5. 30	49. 0	4. 0	·1008	11. 15	·00937			
5. 54	34. 0	4. 25	·1002	13. 10	·00997			
6. 36	44. 50	5. 12	·1006	14. 15	·01085			
8. 37	46. 0		***	18. 10	{·01328			
	***	5. 50	·0983		{·01295			
10. 9	44. 30	6. 10	·1014	21. 3	·01294			
10. 31	45. 30	6. 30	·1006	23. 15	·01273			
10. 51	42. 0	6. 33	·1009	23. 59	·01287			
11. 25	44. 50	7. 5	·1005					
11. 48	49. 40	7. 16	·1006					
	***	7. 43	·1002					
13. 0	46. 0	8. 1	·1007					
15. 0	48. 0	8. 10	·1022					
	***	8. 22	·1026					
18. 30	46. 30	8. 29	·1032					
18. 50	44. 40	8. 42	·1021					
19. 0	46. 0	9. 11	·1014					
19. 45	45. 0	9. 30	·1008					
20. 0	40. 15	10. 32	·1011					
	***	10. 50	·1017					
20. 30	44. 0	11. 15	·1014					
20. 46	41. 0	11. 28	·1015					
21. 31	42. 45	11. 35	·1019					

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. 8		Nov. 8						
h m	° ′ ″	h m		h m		h m	°	°
22. 1	21. 46. 0	11. 50	·1019					
22. 45	46. 35	12. 10	·1015					
23. 59	50. 0	12. 29	·1020					
		12. 45	·1021					
		13. 12	·1015					
		14. 5	·1018					
			***					
		15. 0	·1020					
		15. 12	·1017					
		16. 18	·1017					
			***					
		18. 57	·1029					
		19. 9	·1026					
			***					
		22. 35	·1016					
		22. 59	·1007					
		23. 15	·1007					
		23. 35	·0996					
		23. 59	·0998					
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
0. 0	21. 50. 5	0. 0	·0998	0. 15	·01291	1. 40	52 ·0	53 ·5
0. 40	52. 20	0. 50	·0998	2. 15:	·01163	3. 40	55 ·5	57 ·0
1. 7	50. 35	1. 14	·0996	4. 35	·00678	9. 40	58 ·0	59 ·0
1. 24	53. 0	1. 30	·0990	5. 0	·00722	21. 40	54 ·0	55 ·5
1. 50	50. 35	3. 35	·1005	6. 0	·00716			
2. 0	52. 0	3. 59	·0992	6. 15	·00687			
3. 25	49. 15	4. 12	·1016	10. 35	·00638			
3. 34	50. 0	4. 33	·0982	10. 48	·00765			
3. 46	49. 20	4. 45	·0990	12. 30	·00748			
4. 30	37. 30	4. 57	·0990	16. 15	·00807			
	***	5. 7	·0980	18. 45	·00810			
5. 9	46. 55	5. 15	·0986	21. 0	·00867			
5. 29	41. 0	5. 28	·1002	22. 0	·00854			
5. 39	43. 10	5. 50	·1017	23. 47	·00872			
5. 44	42. 0	5. 57	·1015					
5. 47	43. 0	6. 1	·1020					
6. 1	34. 55	6. 18	·0996					
7. 0	45. 35	6. 29	·1008					
	***	6. 44	·0997					
8. 30	46. 0	7. 8	·1005					
9. 14	44. 35	7. 27	·1000					
9. 32	42. 0	8. 0	·1002					
10. 2	43. 40	8. 9	·1004					
10. 26	42. 40	8. 36	·1001					
10. 45	44. 40	9. 3	·1006					
11. 32	44. 25	9. 14	·1005					
11. 46	46. 0	9. 45	·1017					
12. 1	44. 50	10. 11	·1010					
12. 17	48. 0	10. 42	·1011					
12. 39	44. 35	11. 15	·1007					
13. 25	46. 10	11. 30	·1007					
	***	11. 45	·1008					
16. 0	45. 10	11. 55	·1011					
18. 0	48. 0	12. 0	·1009					
	(†)	12. 15	·1024					
21. 40	46. 1*	12. 30	·1012					
		12 50	·1006					
		14. 16	·1012					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Nov. 9 h m		h m		Nov. 10 h m	°	°
		15. 26	·1011					
		19. 15	·1014					
			***					
		20. 50	·1010					
		21. 3	·1013					
		21. 53	·1003					
			***					
		22. 32	·1006					
			(†)					
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
0. 0	21. 48. 20	0. 0	·1006	0. 0	·00875	1. 40	56 ·0	57 ·0
	***	0. 52	·1006	3. 26	{·00660	3. 40	57 ·0	58 ·0
1. 45	50. 35	1. 40	·1001		{·00687	9. 40	58 ·0	59 ·5
3. 0	48. 0	3. 5	·0998	3. 45	{·00695	23. 30	55 ·0	56 ·0
	***	3. 10	·0999		{·00712			
5. 15	46. 0	3. 52	·0998	4. 55	·00697			
8. 22	45. 25	4. 25	·1003	5. 3	·00750			
9. 0:	43. 0	4. 59	·0999	5. 20	·00735			
10. 8	46. 10	5. 10	·1002	9. 0	·00697			
10. 30	42. 35	5. 50	·1004	11. 15	·00738			
10. 56	44. 35	6. 25	·1006	16. 15	·01027			
12. 0	46. 10	7. 14	·1002	21. 0	·01216			
	***	8. 12	·1008	22. 57	·01185			
18. 0	45. 25	8. 32	·1007		(†)			
19. 58	45. 5	8. 46	·1011					
21. 30	47. 30	9. 0	·1007					
21. 50	45. 35	9. 42	·1006					
22. 9	47. 35	9. 49	·1009					
	***	10. 12	·1005					
22. 55	47. 0	10. 35	·1021					
23. 45	48. 40	10. 45	·1014					
23. 59	50. 0	11. 24	·1010					
		12. 16	·1010					
		13. 45	·1010					
		14. 13	·1012					
			***					
		18. 20	·1018					
		20. 25	·1018					
		21. 18	·1012					
		22. 5	·1011					
		23. 0	·1008					
			(†)					
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
0. 0	21. 50. 5	0. 0	·1008	0. 0	·01178	9. 50	58 ·0	60 ·0
	***		***	2. 15	·01024	21. 40	55 ·0	56 ·0
1. 45	48. 30	1. 30	·1002	4. 34	{·00665			
7. 22	45. 0	4. 45	·1004		{·00687			
8. 39	45. 30	6. 44	·1005	7. 5	·00680			
9. 2	43. 0	7. 44	·1006	7. 8	·00765			
9. 45	45. 0	8. 12	·1001	7. 12	{·00778			
10. 29	44. 25		***		{·00915			
12. 0	45. 20	10. 0	·1004	12. 12	·00925			
12. 20	49. 0	12. 11	·1006	20. 15	·01208			
12. 40	47. 0	12. 20	·1016	23. 59	·01364			
13. 28	44. 55	13. 4	·1014					
14. 10	46. 0	13. 29	·1014					

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. 11		Nov. 11						
h m	° ′ ″	h m		h m		h m	°	°
14. 44	21. 44. 40	13. 55	·1008					
15. 1	46. 15	16. 25	·1008					
15. 30	45. 35	16. 50	·1011					
16. 14	46. 30	20. 30	·1010					
18. 15	45. 25	21. 6	·1005					
21. 51	44. 50	23. 59	·0997					
23. 59	48. 0							
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 0	21. 48. 0	0. 0	·0997	1. 0	·01387	1. 40	56 ·0	57 ·0
2. 10	49. 5	1. 27	·0996	3. 30	·01257	3. 40	57 ·5	58 ·0
4. 38	46. 35	2. 25	·0999	5. 42	·01232	9. 40	58 ·5	59 ·0
6. 29	45. 0		***	5. 46	·01107	21. 40	54 ·0	56 ·0
7. 2:	44. 0	3. 47	·1008	7. 0	·01047			
7. 35	45. 0	4. 18	·1006	9. 30	·01023			
11. 13	43. 20	6. 27	·1008	15. 30	·01095			
11. 57	44. 40	6. 45	·1002	21. 45	·01345			
12. 15	44. 0	7. 45	·1008	22. 45	·01405			
12. 34	44. 40	8. 17	·1007	23. 59	·01397			
12. 45	44. 25	10. 55	·1008					
13. 11	46. 30	11. 10	·1014					
13. 37	44. 45	11. 30	·1011					
14. 29	46. 0	12. 36	·1007					
16. 51	44. 40	13. 50	·1011					
19. 6	45. 35	15. 30	·1011					
22. 15	44. 0	17. 35	·1015					
23. 59	47. 30	17. 48	·1016					
		19. 10	·1016					
		19. 25	·1018					
		20. 35	·1017					
		22. 0	·1008					
		23. 59	·1004					
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 0	21. 47. 30	0. 0	·1004	0. 45	·01320	1. 40	54 ·8	55 ·5
2. 5	49. 0	1. 0	·1004	2. 15	·01308	3. 40	55 ·0	56 ·0
5. 0	45. 25	2. 4	·1006	7. 16	·01107	9. 40	55 ·0	56 ·0
6. 35	45. 0	3. 40	·1005	7. 20	·01176	21. 40	50 ·5	51 ·5
	(†)	5. 30	·1006	7. 22	·01182			
9. 0	45. 25	7. 5	·1010		·01240			
13. 1	46. 0		(†)	15. 45	·01348			
13. 50	47. 20	9. 5	·1013	20. 45	·01339			
15. 20	45. 30	13. 56	·1023	23. 59	·01301			
17. 45	45. 50	14. 15	·1022					
20. 30	45. 0	16. 6	·1021					
	()	19. 50	·1027					
		19. 55	·1023					
			(†)					
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 30	21. 49. 50	0. 30	·1007	0. 35	·01332	1. 40	51 ·5	53 ·0
1. 10	49. 20	1. 47	·1007	2. 5	·01276	3. 40	53 ·1	54 ·0
2. 2	50. 5	3. 44	·1005	3. 15:	·01172	9. 40	54 ·5	55 ·5
3. 46	47. 25	4. 37	·1010	4. 45	·00970	21. 40	47 ·5	48 ·5
7. 10	44. 45	5. 28	·1008	7. 52	·00732			
9. 30	40. 35	8. 11	·1016	7. 59	·00803			
12. 44	46. 30	8. 16	·1020	10. 30	·00787			
14. 20	45. 50	8. 36	·1018	15. 0	·01047			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 14		Nov. 14		Nov. 14				
h m	° ′ ″	h m		h m		h m	°	°
17. 40	21. 48. 5	11. 12	·1018	17. 19	·01292			
21. 30	46. 25		***		·01250			
22. 14	44. 0	12. 43	·1017	19. 0	·01249			
23. 59	48. 0	16. 18	·1030	22. 25	·01170			
		17. 29	·1028	23. 59	·01207			
		19. 42	·1032					
		22. 45	·1020					
		23. 59	·1017					
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 0	21. 48. 0	0. 5	·1011	0. 15	·01220	1. 40	47 ·0	48 ·5
1. 55	48. 15	3. 0	·1015	1. 0	·01251	3. 40	49 ·5	51 ·0
3. 56	45. 50	3. 29	·1017	2. 15:	·01208	21. 40	43 ·0	45 ·0
7. 0	44. 30	3. 50	·1013	5. 0	·00827			
9. 30	46. 55	4. 33	·1016	7. 45:	·00537			
10. 8	42. 20	4. 50	·1014	9. 15:	·00488			
10. 52	46. 25	7. 27	·1018	14. 15	·00756			
13. 14	47. 15	8. 34	·1020	17. 48	·01190			
13. 46	49. 15	9. 1	·1014	21. 5	·01170			
14. 10	52. 25	9. 33	·1014	22. 0	·01148			
14. 59	47. 25	9. 40	·1019	23. 50	·01207			
15. 31	49. 35	9. 52	·1014					
16. 30	48. 0	10. 16	·1017					
20. 31	45. 50		***					
21. 0:	44. 30	11. 30	·1026					
21. 44	46. 0	12. 2	·1024					
22. 5	45. 20	13. 45	·1023					
23. 59	47. 35	13. 54	·1031					
		14. 15	·1030					
		14. 27	·1032					
		15. 3	·1024					
		16. 26	·1031					
		17. 40	·1035					
		20. 36	·1034					
		22. 0	·1028					
		22. 37	·1020					
		23. 30	·1023					
		23. 59	·1019					
Nov. 16		Nov. 16		Nov. 16		Nov. 16		
0. 0	21. 47. 40	0. 0	·1019	0. 40	·01198	1. 40	45 ·5	47 ·0
0. 40	49. 0	0. 48	·1016	1. 35	·01147	3. 40	48 ·5	49 ·5
0. 51	48. 25	1. 20	·1018	3. 0	·00963	9. 40	51 ·0	52 ·0
	***	1. 30	·1015	5. 20	·00495	21. 40	48 ·0	49 ·0
2. 25	49. 35	2. 26	·1016	6. 0	·00527			
	***	3. 28	·1010	9. 0	·00531			
3. 51	49. 10	3. 35	·1005	16. 0	·00448			
	***		***	20. 45	·00576			
5. 30	49. 15	5. 10	·1002	21. 44	·00571			
6. 7	47. 0	5. 21	·1006		·00760			
6. 55	48. 0	5. 37	·1002	23. 43	·00808			
	***	5. 47	·1005					
8. 45	44. 55	6. 11	·1008					
9. 0	43. 0	6. 45	·1002					
9. 30	43. 30	6. 48	·1004					
10. 1	39. 10	7. 5	·1001					
	***	7. 27	·1001					
11. 15	41. 0	7. 46	·0997					
	***	8. 5	·0999					

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

November 13. The time-piece stopped twice, and consequently two portions of the Photographic Traces for the Horizontal Force and Declination Magnets cannot be used.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 16		Nov. 16						
h m	° ′ ″	h m		h m		h m	°	°
12. 9	21. 39. 5	8. 12	·0995					
12. 45	42. 10	8. 30	·0996					
13. 52	42. 35	8. 40	·1001					
14. 50:	46. 30	8. 49	·1000					
15. 31	45. 0	10. 3	·1006					
15. 57	46. 0		***					
16. 40	45. 20	10. 57	·1007					
17. 15:	48. 0	11. 10	·1011					
18. 0	45. 15	11. 19	·1010					
18. 35:	46. 0	11. 28	·1014					
19. 4	44. 40	11. 45	·1012					
	***	12. 0	·1012					
21. 30	46. 0	12. 40	·1013					
21. 57	44. 15	13. 17	·1014					
22. 5	45. 0	14. 10	·1009					
	***	14. 30	·1012					
22. 30	44. 30	15. 48	·1013					
22. 50	47. 15	16. 0	·1011					
	***	16. 30	·1014					
23. 59	48. 0	16. 35	·1011					
		18. 12	·1019					
		19. 3	·1023					
		19. 15	·1026					
		19. 25	·1024					
		19. 37	·1028					
		20. 45	·1024					
			***					
		23. 5	·1015					
		23. 40	·1010					
Nov. 17		Nov. 17		Nov. 17		Nov. 17		
0. 2	21. 48. 0	0. 25	·0998	0. 0	·00786	1. 40	50 ·5	52 ·0
0. 15	50. 25	1. 0	·0994	0. 20	·00798	3. 40	53 ·0	53 ·5
0. 29	49. 50	1. 30	·0991	2. 56	·00592	9. 40	53 ·0	54 ·0
0. 46	50. 15	1. 50	·0998	4. 20	·00618	23. 0	50 ·5	52 ·0
1. 0	49. 45	2. 52	·0988	6. 38	·00610			
1. 15	50. 25	3. 8	·0992	6. 49	·00658			
1. 28	49. 5	4. 5	·0990	7. 27	·00627			
2. 30	51. 30	4. 17	·0994	12. 15	·00563			
5. 31	49. 10	4. 30	·0992	13. 15	·00580			
8. 45	44. 15	5. 0	·0998	14. 30	·00556			
9. 7	42. 20	5. 36	·1016	16. 55	·00592			
9. 36	43. 30	6. 28	·1015	23. 35	·00756			
10. 7	41. 45	6. 42	·1010					
10. 45	41. 0	7. 28	·1014					
11. 10	35. 30	7. 35	·1011					
11. 40	30. 20	7. 42	·1014					
12. 8	33. 0	8. 37	·1011					
12. 30	30. 0	10. 57	·1009					
13. 17	37. 15	11. 2	·1011					
13. 30	42. 0	11. 13	·1010					
13. 45	42. 0	11. 30	·1017					
14. 1	45. 0	11. 55	·1016					
14. 36	40. 0	12. 40	·0989					
14. 53	39. 35	13. 5	·0994					
15. 35	46. 30	13. 20	·0990					
15. 49	45. 30	14. 0	·1006					
16. 10	48. 35	14. 34	·1008					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 17		Nov. 17						
h m	° ′ ″	h m		h m		h m	°	°
16. 35	21. 48. 40	15. 13	·0983					
17. 0	46. 0	15. 47	·1002					
17. 15	44. 10	16. 3	·1004					
17. 46:	45. 30	16. 27	·1016					
18. 43	43. 50	17. 0	·1011					
18. 55	44. 55	17. 45	·1001					
	***	18. 30	·1015					
19. 45	44. 0		***					
20. 45	46. 55	19. 35	·1023					
	***	20. 3	·1019					
21. 34	46. 25	20. 13	·1012					
22. 0	47. 30	20. 40	·1008					
22. 14	45. 35		***					
	***	22. 16	·1006					
23. 25	49. 30	22. 32	·1001					
23. 59	48. 35		***					
		23. 30	·1001					
Nov. 18		Nov. 18		Nov. 18		Nov. 18		
0. 0	21. 48. 45	0. 0	·0999	0. 0	·00771	9. 10	52 ·0	53 ·0
0. 18	51. 0	0. 15	·1001	2. 20	·00755	21. 40	50 ·0	51 ·0
0. 55:	50. 25	0. 30	·0996	3. 20	·00743			
1. 31	52. 20	1. 5	·0999	3. 57	·00766			
2. 21	49. 15	1. 18	·0994	6. 0	·00710			
2. 35	51. 35	1. 35	·1000	8. 35	·00647			
3. 0	49. 5	1. 46	·0997	18. 0	·00655			
3. 14	49. 0	2. 5	·0998	22. 0	·00747			
3. 31	40. 35	2. 33	·1012	23. 59	·00897			
3. 46	41. 40	2. 48	·1001					
4. 14:	45. 30	3. 16	·0990					
4. 46	47. 10	3. 28	·0983					
5. 44	45. 30	4. 1	·1009					
6. 0	42. 30	4. 35	·1012					
6. 30	33. 35	4. 47	·1011					
7. 30	44. 0	4. 51	·1014					
	***	5. 37	·1002					
8. 30	44. 40	5. 54	·0989					
10. 44	44. 5	6. 15	·1002					
12. 45	45. 0	6. 24	·0997					
17. 30	45. 0	6. 40	·1015					
19. 10	46. 0	6. 53	·1014					
20. 10	45. 0	7. 0	·1017					
	***	7. 12	·1009					
21. 45	46. 30	8. 0	·1013					
22. 14	45. 0	8. 11	·1009					
23. 59	48. 30	8. 33	·1012					
		17. 30	·1018					
		19. 0	·1017					
		19. 55	·1020					
		23. 59	·1006					
Nov. 19		Nov. 19		Nov. 19		Nov. 19		
0. 0	21. 48. 30	0. 0	·1006	1. 35	·00931	1. 40	51 ·0	52 ·0
	***	0. 37	·1006	4. 11	·00770	3. 40	53 ·0	54 ·0
1. 4	49. 35	0. 50	·1002	5. 0	·00706	9. 40	53 ·0	54 ·5
	***	1. 0	·1004	6. 37	·00638	21. 40	49 ·0	50 ·5
2. 50	48. 50	1. 30	·1002	9. 45	·00552			
3. 23	46. 40	1. 48	·1006	18. 20	·00791			
4. 9:	48. 0		***	22. 0	·00892			

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. 19		Nov. 19		Nov. 19				
h m	° ′ ″	h m		h m		h m	°	°
4. 56	21. 45. 15	2. 25	·0992	23. 59	·00969			
6. 45	44. 5		***					
7. 15	37. 55	3. 26	·1005					
8. 0	44. 0		***					
9. 45	44. 15	4. 5	·1000					
11. 30	45. 20		***					
17. 15	44. 25	4. 40	·1006					
20. 45	44. 20	5. 3	·1000					
	***	5. 32	·1005					
22. 15	45. 25	5. 40	·1001					
23. 59	49. 25	5. 48	·1002					
		6. 5	·0999					
		6. 35	·1006					
		6. 45	·1008					
		7. 12	·1003					
		7. 27	·1012					
		8. 45	·1011					
		10. 5	·1013					
		12. 30	·1010					
		13. 25	·1012					
		19. 44	·1022					
		20. 30	·1025					
		21. 10	·1024					
		22. 8	·1014					
		23. 0	·1009					
		23. 59	·1007					
Nov. 20		Nov. 20		Nov. 20		Nov. 20		
0. 0	21. 49. 30	0. 0	·1007	0. 15	·00967	1. 40	50 ·0	51 ·0
0. 40	48. 20	1. 26	·1015	1. 30:	·00967	3. 40	53 ·0	53 ·0
1. 55	50. 0	2. 25	·1008	4. 30	·00708	9. 40	52 ·0	52 ·5
4. 50	46. 0	2. 45	·1006	6. 35	·00547	21. 40	48 ·0	50 ·0
5. 48	45. 50	3. 47	·1005		·00573			
7. 30	44. 15	3. 54	·1003	10. 15	·00548			
8. 8	41. 0		***	15. 44	·00720			
9. 7	44. 10	5. 11	·1004	22. 0	·01002			
9. 16	43. 0	5. 32	·1009	23. 59	·01117			
9. 55	43. 0	5. 37	·1007					
10. 35	39. 30	6. 25	·1012					
11. 23	43. 25	7. 38	·1012					
11. 35	42. 40	7. 46	·1008					
11. 56	45. 0	8. 17	·1012					
12. 33	40. 30	8. 40	·1009					
12. 58	38. 40	10. 5	·1013					
	***	10. 11	·1017					
13. 51	42. 0	10. 55	·1009					
14. 4	44. 30	11. 42	·1014					
14. 28	44. 55	12. 0	·1018					
15. 6	47. 50	12. 15	·1025					
15. 30	52. 30	13. 20	·1019					
16. 0	47. 15	14. 15	·1015					
16. 20	46. 0	15. 18	·1017					
16. 35	47. 0	15. 34	·1026					
17. 0	45. 35	16. 30	·1019					
17. 26	46. 0	17. 30	·1026					
17. 48	44. 0	19. 15	·1029					
19. 1	46. 0	20. 40	·1018					
19. 37	45. 5		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov. 20		Nov. 20						
h m	° ′ ″	h m		h m		h m	°	°
20. 45	21. 48. 30	22. 27	·1008					
21. 30	48. 0	23. 17	·1007					
21. 48	48. 30	23. 35	·1002					
22. 20	47. 0	23. 59	·1000					
23. 22	49. 10							
23. 59	49. 30							
Nov. 21		Nov. 21		Nov. 21		Nov. 21		
0. 0	21. 49. 40	0. 0	·1000	0. 15	·01121	1. 40	50 ·0	50 ·5
1. 15	52. 35	0. 28	·0996	1. 15	·01128	3. 40	52 ·5	54 ·0
1. 45:	51. 40	1. 50	·0992	4. 0	·00877	9. 40	51 ·0	52 ·0
	***	2. 16	·0999	5. 5:	·00770	21. 40	48 ·0	49 ·0
3. 0	55. 35	3. 7	·0997	6. 30	·00682			
3. 38	52. 30	3. 32	·0994	8. 38	·00631			
3. 59:	54. 10	3. 45	·1002		·00805			
4. 55	48. 30	4. 15	·0992	10. 0	·00770			
5. 15	49. 40	4. 36	·0993	14. 0	·00843			
6. 15	45. 0	4. 58	·0997	15. 45	·00895			
6. 35	45. 15	5. 7	·0996	23. 59	·01330			
7. 43	39. 0	5. 18	·1000					
8. 55	44. 5	5. 28	·0995					
9. 30	43. 55	6. 3	·0997					
	***		***					
10. 53	45. 0	6. 55	·0989					
11. 26	53. 10	7. 10	·0995					
	***	7. 44	·0990					
12. 25	43. 0	7. 55	·0995					
13. 0	46. 35	8. 15	·0994					
13. 16	44. 15	9. 10	·1014					
13. 43	43. 40	9. 35	·1012					
13. 57	45. 0	10. 3	·1014					
14. 25	43. 25	10. 18	·1011					
	***	10. 31	·1015					
15. 17	54. 30	11. 0	·1016					
15. 37	53. 0	11. 17	·1015					
16. 21	42. 30	11. 38	·1017					
19. 10	45. 35	12. 10	·1008					
20. 14	44. 30	12. 46	·1008					
20. 30	46. 0	13. 18	·1018					
	***	13. 40	·1012					
22. 14	46. 35	14. 45	·1013					
	***	15. 20	·1002					
23. 31	49. 25	15. 47	·1017					
		16. 17	·1022					
		16. 25	·1020					
		16. 46	·1022					
		17. 30	·1020					
		18. 18	·1024					
		18. 37	·1022					
		19. 5	·1021					
		19. 12	·1025					
		19. 25	·1020					
		20. 0	·1020					
		20. 55	·1022					
		22. 28	·1008					
		23. 30	·1004					
		23. 45	·1000					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.22		Nov.22		Nov.22		Nov.22		
h m	° ′ ″	h m		h m		h m	°	°
0. 22	21. 51. 0	0. 23	·0998	0. 20	·01317	1. 40	50 ·5	51 ·0
1. 10	51. 0	2. 45	·0998	1. 30	·01313	3. 40	52 ·0	52 ·0
2. 45	48. 10	2. 59	·1002	2. 35:	·01211	9. 40	51 ·5	52 ·0
4. 0	47. 20	5. 0	·1000	4. 40:	·00864	21. 40	45 ·0	47 ·0
6. 42	42. 40	6. 20	·1002	6. 26	·00724			
7. 40	43. 30	8. 50	·1012	6. 29	·00766			
7. 51	44. 35		***	8. 0:	·00758			
9. 20	44. 30	14. 15	·1019	9. 0	·00777			
9. 37	45. 0	14. 33	·1026	14. 15	·01104			
10. 0	43. 55	15. 45	·1020	18. 27	·01298			
11. 48	46. 35	18. 0	·1026	18. 32	·01260			
12. 53	46. 10	18. 40	·1036	19. 12	·01263			
13. 20	47. 0	19. 18	·1031	21. 30	·01248			
13. 31	48. 50	19. 40	·1032	23. 59	·01278			
13. 59	47. 0	20. 8	·1027					
14. 15	49. 25		***					
15. 7	44. 40	22. 18	·1020					
15. 55	46. 20	23. 59	·1014					
16. 47	45. 40							
18. 5	44. 15							
19. 31	43. 35							
21. 1	44. 35							
21. 55	46. 5							
23. 10:	45. 50							
23. 30	48. 25							
23. 40	47. 35							
23. 59	48. 30							
Nov.23		Nov.23		Nov.23		Nov.23		
0. 0	21. 48. 35	0. 0	·1014	0. 30	·01270	1. 40	45 ·5	49 ·5
0. 14	47. 25	0. 30	·1010	2. 15:	·01158	3. 40	50 ·8	52 ·0
0. 17	49. 0	1. 23	·1008	4. 34	·00751	9. 40	51 ·5	52 ·0
0. 32	47. 50	1. 45	·0998	6. 5	·00547	21 ·40	47 ·0	49 ·0
1. 14	50. 0	2. 42	·0994	7. 35	·00566			
1. 45	49. 55	3. 0	·0998	7. 45	·00645			
2. 21	52. 10	3. 55	·1004	9. 5	·00629			
2. 55	50. 10	4. 15	·1009	11. 36	·00648			
3. 5	50. 15	4. 33	·1006	14. 35	·00743			
3. 50:	47. 35	5. 28	·1007	15. 45	·00770			
4. 30	47. 0	5. 35	·1004	19. 30	·00967			
4. 50	45. 30	5. 45	·1006	23. 55	·01098			
6. 15	45. 0	6. 10	·1000					
6. 44	42. 35	6. 20	·1002					
7. 32	44. 55	6. 25	·0998					
	***	6. 42	·1002					
8. 45	42. 15	7. 9	·0996					
9. 30	43. 50	7. 25	·1004					
10. 29	43. 30	7. 30	·1002					
10. 44	42. 25	7. 43	·1007					
11. 0	42. 30	8. 12	·1003					
11. 40	39. 0	8. 17	·1006					
12. 0	21. 41. 35	8. 36	·1006					
12. 16	22. 0. 0	8. 45	·1010					
12. 46	21. 37. 35	8. 58	·1003					
13. 16	41. 55	9. 30	·1010					
13. 25	41. 15	10. 30	·1007					
13. 37	42. 15	10. 35	·1005					
13. 58	40. 30	10. 55	·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.
Nov.23		Nov.23						
h m	° ′ ″	h m		h m		h m	°	°
14. 32	21. 44. 30	11. 3	·1006					
14. 46	44. 40	11. 9	·1007					
15. 31	38. 35	11. 15	·1001					
16. 1	40. 0	11. 45	·0991					
16. 29	43. 5	11. 50	·0993					
16. 41	42. 35	12. 18	·1012					
16. 51	43. 50	12. 37	·0993					
	***	13. 0	·1016					
18. 30	44. 50	13. 33	·1010					
	***	13. 39	·1014					
19. 21	44. 35	13. 52	·1011					
	***	14. 13	·1011					
21. 0	46. 20	14. 30	·1005					
	***		***					
22. 9	45. 0	15. 20	·1017					
23. 55	48. 55	15. 37	·1014					
		16. 0	·1008					
		16. 25	·1009					
		16. 45	·1013					
		17. 15	·1011					
			***					
		18. 2	·1017					
		18. 12	·1014					
		19. 0	·1018					
		20. 25	·1016					
		20. 31	·1018					
		21. 5	·1014					
			***					
		23. 57	·1006					
Nov.24		Nov.24		Nov.24		Nov.24		
1. 0	21. 49. 15	0. 20	·1010	0. 10	·01127	1. 40	49 ·5	50 ·5
4. 15	45. 20	3. 45	·1011	1. 15	·01097	3. 40	51 ·5	52 ·0
11. 8	45. 30	7. 52	·1013	2. 45:	·00968	9. 40	51 ·0	52 ·0
11. 21	44. 25	8. 2	·1018	5. 30	·00650	23. 45	45 ·0	46 ·0
	***	8. 11	·1017	7. 15	·00524			
12. 34	44. 50	10. 42	·1015	8. 30	·00510			
12. 45	45. 50	10. 55	·1018	10. 5	·00528			
13. 27	44. 0	11. 48	·1015	14. 30	·00696			
13. 46	45. 5	12. 49:	·1023	18. 15	·00884			
	***	13. 33	·1018	22. 0	·01017			
16. 1	45. 35	13. 42	·1020	23. 59	·01130			
20. 13	44. 35	13. 48	·1016					
22. 0	46. 55	15. 0	·1018					
23. 16	46. 0	17. 42	·1024					
23. 28	47. 45	21. 30	·1017					
23. 46	47. 30	22. 25	·1018					
		23. 11	·1014					
		23. 31	·1020					
		23. 59	·1013					
Nov.25		Nov.25		Nov.25		Nov.25		
0. 0	21. 47. 30	0. 0	·1018	0. 3	·01167	11. 10	45 ·0	46 ·0
2. 13	48. 25	0. 25	·1013	1. 0	·01218	21. 40	42 ·0	44 ·0
	***	2. 25	·1023	5. 5	·01213			
4. 45	44. 50		***	7. 30	·01192			
7. 7	44. 35	4. 20	·1023	11. 10	·01229			
7. 38	37. 30	5. 21	·1026	13. 31	·01203			

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.25		Nov.25		Nov.25				
h m	° ′ ″	h m		h m		h m	°	°
8. 28	21. 45. 55	5. 30	·1023	15. 10	·01195			
8. 45	45. 0	6. 52	·1023	16. 45	·01224			
8. 58	45. 30	7. 0	·1021	22. 5	·01177			
9. 15	44. 15	7. 12	·1023	23. 59	·01224			
9. 30	45. 0	7. 28	·1014					
9. 43	44. 10	7. 50	·1018					
10. 12	45. 30	8. 0	·1017					
10. 55	45. 0	8. 20	·1020					
11. 27	47. 5	8. 33	·1018					
	***	8. 47	·1021					
12. 15	45. 0	9. 9	·1019					
12. 44	48. 30	9. 25	·1023					
13. 4	44. 50	9. 36	·1020					
13. 24	43. 30	10. 2	·1024					
13. 50	46. 10	10. 45	·1022					
14. 46	41. 50	11. 7	·1025					
15. 35	47. 30	11. 15	·1023					
15. 55	47. 55	11. 30	·1025					
16. 35	46. 30		***					
20. 30	46. 55	12. 24	·1022					
	***	12. 45	·1039					
21. 26	47. 30	13. 13	·1040					
22. 0	46. 20	13. 40	·1022					
22. 14	47. 50	14. 5	·1025					
22. 31	47. 15	14. 17	·1029					
22. 50	48. 15	14. 37	·1023					
23. 14	47. 30	14. 45	·1023					
23. 59	48. 30	15. 10	·1016					
		17. 48	·1029					
		17. 55	·1025					
		18. 40	·1030					
		21. 44	·1028					
		22. 50	·1022					
		23. 15	·1016					
		23. 59	·1017					
Nov.26		Nov.26		Nov.26		Nov.26		
0. 0	21. 48. 35	0. 0	·1017	0. 20	·01230	1. 40	45 ·0	47 ·0
0. 39	49. 30	3. 15	·1012	1. 35:	·01136	3. 40	49 ·0	50 ·5
2. 2	48. 30	5. 15	·1007	4. 12	·00532	9. 40	52 ·0	53 ·0
3. 30	46. 0	6. 33	·1011	5. 45	·00568	21. 40	48 ·0	49 ·0
10. 45	44. 20	9. 43	·1007	8. 15	·00524			
11. 0	45. 15	9. 48	·1013	11. 30	·00483			
11. 45	44. 30	10. 10	·1008	14. 0	·00510			
14. 10	46. 10	10. 45	·1009	19. 0	·00668			
16. 45	47. 0	10. 52	·1016	22. 45	·00792			
19. 43	44. 45	11. 20	·1010	23. 35	·00830			
20. 55	45. 0	13. 0	·1006					
	***	17. 30	·1019					
21. 52	47. 10	22. 0	·1019					
22. 20	46. 0	23. 45	·1009					
23. 59	47. 45							
Nov.27		Nov.27		Nov.27		Nov.27		
0. 0	21. 47. 50	0. 0	·1009	0. 0	·00826	1. 40	49 ·5	51 ·0
1. 10	49. 10	1. 0	·1003	1. 0	·00818	3. 40	52 ·5	53 ·0
1. 21	48. 0		***	1. 30:	·00798	9. 40	53 ·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.
Nov.27		Nov.27		Nov.27		Nov.27		
h m	° ′ ″	h m		h m		h m	°	°
1. 32	21. 48. 30	5. 30	·1002	3. 30	{·00550 ·00592	21. 40	50 ·0	52 ·0
3. 16	46. 10	5. 55	·1005					
4. 40	46. 35	6. 45	·1000	5. 1	·00605			
8. 14	43. 40	7. 26	·1004	5. 7	·00748			
11. 30	44. 20	13. 40	·1006	6. 15	·00708			
15. 45	46. 0	18. 45	·1015	9. 59	{·00685 ·01062			
20. 29	44. 40	20. 35	·1018					
	***		***	11. 15	·01045			
21. 35	45. 35	21. 59	·1017	12. 15	·01008			
21. 51	44. 40	23. 13	·1013	17. 0	·01110			
23. 59	46. 30			21. 45	·01246			
				22. 30	·01250			
				23. 30	·01299			
Nov.28		Nov.28		Nov.28		Nov.28		
0. 0	21. 46. 30	0. 0	·1006	0. 0	·01307	1. 40	53 ·0	54 ·5
1. 6	47. 40	1. 0	·1007	1. 25:	·01303	3. 40	53 ·0	54 ·0
2. 29	47. 0	2. 45	·1002	3. 15	·01158	9. 40	54 ·0	55 ·5
2. 44	46. 0	4. 0	·0997	5. 20	·00890	21. 40	48 ·3	50 ·0
4. 8	46. 0	5. 30	·1000	8. 0:	·00704			
6. 14	44. 15	7. 55	·1007	9. 55	·00727			
8. 12	44. 30	8. 28	·1004	12. 30	·00847			
	***	9. 0	·1006	16. 0	·01038			
10. 0	45. 0	9. 10	·1004	20. 50	·01337			
10. 14	44. 20	9. 45	·1008	22. 58	·01273			
10. 44	45. 25	13. 0	·1008		(†)			
	***		***					
15. 35	47. 25	14. 25	·1011					
	***		***					
16. 50	45. 30	16. 50	·1026					
	***		***					
17. 16	47. 0	18. 10	·1019					
17. 43	46. 0	18. 40	·1026					
18. 7	48. 25	19. 43	·1035					
18. 30	47. 0	20. 25	·1026					
	***	20. 58	·1027					
19. 45	47. 5	21. 30	·1023					
20. 0	45. 35		(†)					
21. 29	45. 55							
	(†)							
Nov.29		Nov.29		Nov.29		Nov.29		
0. 6	21. 50. 30	0. 10	·1004	0. 10	·01287	1. 40	50 ·0	51 ·0
	***	1. 30	·1002	1. 15	·01318	3. 40	52 ·5	53 ·0
0. 41	50. 40	2. 10	·0992	2. 50:	·01234	9. 40	53 ·5	55 ·0
	***	2. 15	·0997	4. 42	·00983	21. 40	49 ·0	50 ·5
1. 26:	54. 0	2. 28	·0992	5. 20	·00943			
	***		***	6. 30	·00810			
2. 30	49. 10	4. 0	·0999	7. 35	·00758			
2. 55	48. 55	4. 30	·0995	11. 0	·00704			
3. 16	47. 0	4. 48	·0977	12. 10	·00667			
	***	5. 10	·0979	12. 55	·00699			
4. 14	47. 15	5. 16	·0975	15. 0	·00757			
4. 20	48. 20	5. 55	·0980	22. 30	·01065			
4. 29	47. 0	6. 20	·0973	23. 31	·01120			
4. 31	47. 40	6. 30	·0977					
4. 49	46. 30	6. 52	·0974					
5. 1	46. 35	7. 2	·0967					

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. 29		Nov. 29						
h m	° ′ ″	h m		h m		h m	°	°
5. 17	21. 42. 40	7. 18	·0969					
6. 0	45. 40	7. 30	·0967					
6. 19	44. 20	7. 54	·0973					
6. 51	47. 30	8. 15	·0966					
7. 13	43. 0	8. 27	·0975					
7. 56	45. 10	8. 42	·0967					
8. 25	40. 0	9. 18	·0983					
9. 8	26. 25	9. 26	·0978					
9. 58	47. 0	9. 50	·0980					
10. 15	41. 30	10. 10	·0970					
10. 28	41. 15	10. 18	·0975					
11. 0	32. 20	10. 45	·0970					
11. 30	37. 0	11. 12	·0971					
11. 47	32. 30	12. 15	·0974					
12. 8	36. 15	12. 20	·0974					
12. 16	35. 30	12. 35	·0971					
13. 13:	43. 55	12. 55	·0983					
13. 30	43. 10	13. 0	·0984					
13. 45	45. 15	13. 30	·0979					
14. 55	46. 0	13. 37	·0983					
16. 0	44. 35	16. 30	·0990					
17. 55	45. 35	17. 45	·0997					
19. 40	45. 35	20. 45	·0998					
20. 15	47. 5	21. 8	·0990					
	***	21. 27	·0992					
20. 46	45. 55	21. 36	·0986					
	***	23. 37	·0990					
22. 16	45. 45							
23. 59	47. 35							
Nov. 30		Nov. 30		Nov. 30		Nov. 30		
0. 0	21. 47. 35	0. 0	·0978	0. 0	·01164	1. 40	51 ·0	51 ·0
0. 35	48. 40		***	1. 33:	·01152	3. 40	52 ·5	53 ·0
1. 8	48. 10	2. 8	·0979	4. 30:	·00822	9. 40	51 ·0	52 ·0
1. 30	49. 0		***	7. 40	{·00621	21. 40	46 ·0	47 ·0
2. 30	46. 35	4. 0	·0989		{·00746			
3. 52	44. 25		***	9. 30	·00722			
6. 57	45. 0	5. 25	·0987	11. 32	·00724			
	***	6. 0	·0987	15. 30	·01032			
10. 1	43. 35	6. 12	·0983	18. 22	{·01312			
10. 16	45. 0	7. 35	·0987		{·01283			
	***	7. 42	·0990	21. 30	·01286			
12. 45	46. 25	8. 15	·0986	22. 30	·01280			
13. 8	44. 30	8. 30	·0990	23. 59	·01313			
13. 20	46. 35	8. 40	·0987					
13. 30	46. 35	9. 2	·0987					
13. 50	49. 35	9. 30	·0991					
14. 10	49. 5		***					
14. 33	46. 15	12. 5	·0986					
15. 0	44. 30	12. 50	·0992					
15. 37	45. 5	13. 5	·0988					
15. 54	44. 30	13. 25	·0991					
17. 45	45. 0	13. 40	·0990					
	***	14. 13	·0999					
20. 52	45. 0	14. 38	·0999					
	***	15. 0	·0994					
23. 39	47. 45	15. 48	·0993					
		16. 45	·1001					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Nov. 30						
h m	° ′ ″	h m		h m		h m	°	°
		17. 35	·1000					
		18. 22	·1002					
		18. 34	·1006					
		18. 45	·1004					
		19. 53	·1005					
			***					
		23. 46	·1002					
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 45	21. 49. 55	0. 30	·1004	0. 12	·01330	1. 40	48 ·0	49 ·5
3. 46	46. 0	4. 15	·1002	2. 21	·01223	3. 40	50 ·0	50 ·5
9. 29	45. 25	5. 35	·1008	4. 30	·00947	9. 40	49 ·8	51 ·0
10. 10	44. 10	6. 15	·1005	6. 0:	·00725	23. 5	48 ·0	50 ·0
11. 0	45. 30	7. 5	·1009	7. 15	·00654			
11. 14	45. 0	7. 17	·1005	8. 45	·00620			
11. 31	49. 25	8. 19	·1008	12. 45	·00587			
11. 48	46. 30	8. 37	·1011	17. 5	·00686			
12. 2:	46. 5	10. 35	·1007	22. 5	·00817			
12. 30	44. 0	10. 50	·1008	23. 59	·00847			
13. 0	46. 30	11. 10	·1008					
13. 30	45. 25	11. 28	·1022					
14. 45	46. 40	11. 40	·1017					
15. 45	45. 35	12. 0	·1018					
17. 25	46. 35	13. 30	·1008					
20. 29	44. 40	17. 35	·1016					
23. 59	47. 35	17. 45	·1015					
		18. 35	·1020					
		21. 15	·1018					
		23. 59	·1011					
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 0	21. 47. 35	0. 0	·1010	0. 20	·00808	8. 40	49 ·0	50 ·5
0. 48	49. 35	2. 18	·1014	2. 35	·00850	21. 40	43 ·0	45 ·0
	***	2. 28	·1008	4. 30	·00807			
1. 13	48. 25	5. 40	·1008	6. 30	·00724			
1. 50	48. 35	5. 47	·1010	7. 3	·00710			
2. 20	47. 0	7. 3	·1008	9. 0	·00705			
3. 0	47. 15	12. 30	·1010	10. 35	·00737			
4. 25	45. 35	20. 30	·1018	15. 15	·00891			
5. 30	46. 40	22. 13	·1018	20. 8	{·01264			
7. 1	45. 35	23. 59	·1009		{·01235			
8. 31	46. 30			22. 15	·01194			
9. 14	44. 35			23. 59	·01243			
10. 0	46. 25							
12. 21	46. 30							
15. 20	47. 30							
20. 15	47. 35							
23. 59	47. 30							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	21. 47. 30	0. 0	·1008	0. 50	·01203	1. 40	46 ·0	47 ·0
1. 40	48. 25	2. 13	·1002	2. 30:	·01074	3. 40	49 ·0	49 ·5
3. 14	47. 10		***	6. 0	·00432	9. 40	49 ·5	50 ·5
8. 0	45. 40	4. 50	·1005	9. 0	·00421	21. 40	45 ·0	46 ·0
8. 30	47. 30	7. 17	·1011	10. 6	·00435			
8. 46	44. 35	7. 27	·1006	12. 15	·00508			
	***	7. 42	·1010	17. 15	·00864			
9. 26	44. 0	7. 48	·1006	19. 18	·00959			

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. 3		Dec. 3		Dec. 3				
h m	° ′ ″	h m		h m		h m	°	°
9. 46	21. 46. 0	7. 56	·1006	23. 22	·01027			
10. 0	44. 30	8. 0	·1004					
10. 31	43. 30	8. 15	·1006					
10. 44	44. 20	8. 27	·0999					
10. 58	43. 20	8. 42	·0996					
11. 8	44. 0	8. 47	·0992					
11. 21	46. 30	8. 54	·0995					
11. 45	44. 0	8. 57	·0990					
12. 0	45. 30	9. 3	·0995					
12. 22	44. 50	9. 10	·0991					
12. 40	46. 30	9. 13	·0992					
13. 14	46. 0	9. 17	·0989					
13. 27	47. 0	9. 47	·0998					
13. 51	46. 0	9. 55	·0994					
14. 25	48. 20	10. 5	·0997					
14. 49	47. 30	10. 20	·0993					
15. 36	48. 10	10. 35	·1000					
20. 1	46. 0	11. 5	·1000					
21. 20	47. 35	11. 15	·1002					
22. 58	48. 20	11. 30	·0991					
23. 9	47. 45	11. 45	·0999					
23. 30	49. 0	12. 13	·1000					
23. 55	48. 15	12. 25	·1004					
			***					
		19. 15	·1014					
		21. 0	·1016					
		23. 4	·1010					
		23. 15	·1015					
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
0. 14	21. 49. 5	0. 0	·1005	0. 0	·00978	1. 40	48 ·0	48 ·8
0. 28	48. 30		***	1. 45:	·00847	3. 40	50 ·0	51 ·0
1. 15	49. 0	2. 33	·1001	4. 5	·00498	9. 40	54 ·5	55 ·5
1. 24	48. 10		***		·00537	21. 40	51 ·0	53 ·0
1. 45	49. 40	3. 42	·0977	6. 0	·00553			
2. 35	49. 5	4. 0	·0982	9. 37	·00540			
2. 44	50. 25	4. 14	·0989		·00618			
3. 0	50. 0		***	15. 0	·00639			
	***	5. 15	·0993	20. 45	·00721			
4. 5	44. 35	7. 15	·1000	23. 59	·00716			
4. 30	47. 30	8. 16	·0991					
9. 8	44. 40	8. 45	·0998					
9. 49	45. 0	10. 20	·0995					
10. 0	43. 35	10. 37	·0990					
10. 13	44. 10	10. 55	·0995					
10. 40	43. 0	11. 5	·0993					
11. 14	45. 5	11. 25	·1002					
11. 30	43. 0	12. 17	·0990					
11. 47	45. 0	12. 40	·0989					
12. 7	44. 35	13. 0	·0996					
12. 38	45. 40	13. 15	·0992					
13. 0:	44. 55	13. 20	·0993					
13. 30	46. 0	13. 45	·0992					
13. 46	44. 35	13. 54	·0995					
14. 46	46. 15	15. 22	·0996					
	***	16. 18	·1001					
15. 22	45. 30	16. 55	·1002					
16. 15	46. 35	17. 15	·1000					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 4		Dec. 4						
h m	° ′ ″	h m		h m		h m	°	°
16. 30	21. 45. 0	17. 33	·1001					
17. 29	46. 0	17. 45	·1006					
17. 52	47. 40	18. 13	·1004					
18. 29	46. 35	18. 18	·1007					
18. 39	44. 45	18. 24	·1002					
	***	18. 45	·1005					
19. 43	45. 0	18. 50	·1008					
20. 0	46. 30	18. 56	·1005					
20. 40	45. 5	19. 46	·1008					
21. 5	47. 40		***					
21. 15	46. 10	20. 58	·1003					
21. 30	47. 30	21. 7	·1007					
	***	21. 14	·1002					
22. 17	47. 30	21. 25	·1004					
22. 40	48. 30	22. 40	·0995					
22. 50	47. 45	23. 59	·0991					
	***							
23. 45	48. 0							
23. 59	48. 35							
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
0. 0	21. 48. 45	0. 0	·0990	1. 40	·00715*	1. 40	52 ·0	52 ·0
0. 6	49. 25	1. 35	·0993	3. 40	·00603*	3. 40	53 ·0	54 ·0
0. 50	47. 50	1. 45	·0990	9. 40	·01007*	9. 40	50 ·0	51 ·0
1. 35	49. 0	4. 36	·0998	21. 40	·01243*	21. 40	42 ·8	44 ·0
2. 30	47. 50	5. 50	·0999					
5. 0	45. 40	8. 45	·1000					
8. 30	46. 55	8. 57	·1003					
9. 55	44. 35	9. 18	·1002					
10. 24	47. 55	9. 57	·1008					
10. 45	44. 25	10. 13	·1023					
10. 55	45. 10	10. 32	·1003					
11. 44	45. 0	10. 45	·1007					
12. 38	47. 45	10. 55	·1003					
13. 13	46. 0	11. 20	·1007					
13. 30	47. 35	13. 40	·1007					
13. 47	48. 0	15. 10	·1015					
14. 13	52. 40	15. 20	·1011					
14. 52	48. 0	15. 29	·1014					
15. 15	45. 55	15. 49	·1012					
16. 0	47. 15	16. 0	·1015					
16. 46	45. 30	16. 57	·1016					
21. 45	47. 40	17. 30	·1019					
	***		***					
23. 45	49. 0	19. 35	·1020					
23. 59	49. 0	22. 2	·1023					
		23. 12	·1020					
		23. 59	·1017					
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 0	21. 48. 55	0. 0	·1018	1. 5	·01231	1. 40	45 ·0	46 ·0
4. 20	45. 0	0. 45	·1016	2. 57	·01121	3. 40	47 ·0	48 ·0
6. 40	45. 20	3. 35	·1007	7. 45	·00663	9. 40	47 ·2	49 ·0
6. 59	44. 25	4. 40	·1010	9. 0:	·00598	21. 40	42 ·0	44 ·0
8. 23	44. 20	4. 48	·1007	10. 45	·00569			
9. 0	45. 35	6. 46	·1008	14. 15	·00687			
9. 43	45. 0	7. 0	·1006	18. 17	·00930			
10. 19	38. 35		***	21. 50	·01192			

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. 6		Dec. 6		Dec. 6				
h m	° ′ ″	h m		h m		h m	°	°
10. 46	21. 43. 10	8. 30	·1008	22. 15	·01169			
11. 15	43. 30	9. 0	·1003	23. 59	·01208			
11. 30	45. 0	9. 36	·1003					
	***	10. 30	·1014					
12. 23	46. 0	11. 0	·1004					
14. 0	45. 40	11. 23	·1010					
14. 17	45. 0	11. 55	·1006					
15. 1	46. 30		***					
15. 23	45. 35	15. 46	·1009					
15. 58	46. 35	18. 20	·1019					
16. 25	45. 35	21. 44	·1019					
18. 16	47. 0	22. 5	·1016					
23. 59	46. 30	23. 59	·1011					
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	21. 46. 30	0. 0	·1011	1. 44	·01181	1. 40	44 ·2	45 ·2
0. 16	47. 0	1. 0	·1005	3. 15	·01047	3. 40	47 ·0	47 ·0
0. 40	48. 35	4. 10	·1004	6. 52:	·00642	9. 40	47 ·0	48 ·5
1. 39	47. 5	4. 25	·1006	8. 45	·00592	21. 40	43 ·0	45 ·0
2. 28	47. 15	4. 45	·1004	11. 5	·00570			
3. 45	45. 30	5. 0	·1007	13. 0	·00576			
6. 0	45. 30	6. 25	·1007	16. 15	·00704			
7. 0	46. 30	6. 32	·1011	19. 15	·00798			
7. 15	45. 35	7. 14	·1006	23. 59	·00899			
7. 45	46. 0	7. 25	·1007					
8. 17	42. 25	7. 55	·0996					
8. 45	45. 0	8. 41	·1005					
9. 53	44. 10	8. 50	·1000					
11. 39	44. 30	10. 20	·1013					
13. 1	43. 10	12. 23	·1008					
13. 22	44. 55	13. 5	·1016					
14. 2	43. 10		***					
14. 29	44. 30	13. 45	·1010					
14. 46	43. 10	14. 20	·1009					
15. 12	43. 15		***					
15. 40	44. 30	16. 50	·1014					
	***	17. 27	·1021					
16. 29	44. 45	18. 40	·1020					
17. 5	46. 30	19. 25	·1023					
20. 5	45. 10	19. 57	·1020					
20. 30	46. 30	21. 25	·1018					
	***	21. 32	·1017					
22. 2	47. 35	21. 40	·1021					
22. 46	46. 50		***					
23. 59	48. 30	23. 59	·1011					
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	21. 48. 30	0. 10	·1013	0. 3	·00871	1. 40	46 ·0	47 ·0
1. 0	48. 30	2. 30	·1008	1. 0	·00860	3. 40	47 ·5	48 ·5
3. 5	46. 0	3. 44	·1005	2. 28:	·00786	9. 40	45 ·5	46 ·0
4. 0	46. 5	5. 8	·1004	4. 18	·00586	23. 0	38 ·0	39 ·0
5. 12	45. 0	5. 20	·1007	5. 35	·00425			
9. 20	46. 25	5. 35	·1006	7. 15:	·00377			
9. 45	41. 0	5. 50	·1008	11. 5	·00526			
10. 20	45. 10	6. 30	·1008	15. 20	·00847			
10. 40	44. 0	6. 50	·1012	18. 0	·01070			
11. 7	43. 50	9. 15	·1015	18. 52	·01216			
	***	9. 25	·1011	23. 30	·01221			
11. 55	46. 0	10. 5	·1020					
12. 13	45. 0	11. 20	·1016					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 8		Dec. 8						
h m	° ′ ″	h m		h m		h m	°	°
	***	12. 55	·1021					
13. 40	21. 46. 35	13. 6	·1019					
14. 18	46. 15	14. 0	·1023					
14. 43	47. 10	14. 17	·1021					
	***	17. 10	·1031					
16. 31	47. 5	17. 44	·1029					
18. 3	47. 40	18. 30	·1031					
21. 1	46. 30	21. 40	·1031					
22. 45	48. 5	22. 45	·1033					
23. 59	48. 0	23. 40	·1031					
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 0	21. 48. 0	1. 0	·1034	0. 0	·01220	9. 38	39 ·0	40 ·0
1. 20	48. 35	4. 25	·1036	1. 35	·01231	21. 40	40 ·0	41 ·0
4. 0	46. 30	8. 43	·1036	4. 0	·01269			
9. 44	46. 30		***	7. 58	·01190			
9. 59	47. 25	12. 25	·1021	14. 20	·01097			
10. 46	44. 20	12. 50	·1031	15. 20	·01101			
11. 2	44. 45		***	17. 2	·01084			
11. 29	43. 35	14. 0	·1029	20. 15	·01028			
11. 55	47. 50	17. 50	·1036	23. 59	·00927			
12. 5	46. 0	20. 30	·1032					
12. 15	49. 30	20. 50	·1027					
12. 39	45. 40	21. 20	·1037					
12. 52	46. 35		(†)					
13. 10	44. 45	23. 59	·1019					
13. 29	45. 30							
13. 43	45. 0							
13. 55	46. 0							
14. 21	45. 30							
15. 0	47. 0							
15. 15	46. 5							
21. 40	46. 30							
23. 45	49. 10							
23. 59	49. 0							
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
0. 0	21. 49. 0	0. 0	·1017	1. 35	·00850	1. 40	43 ·0	44 ·0
1. 32	49. 0	1. 42	·1014	4. 35	·00447	3. 40	45 ·0	46 ·0
3. 18	46. 35	3. 14	·1011	6. 0	·00483	9. 40	46 ·0	47 ·5
6. 10	45. 25	3. 20	·1015	12. 50	·00473	21. 40	41 ·0	43 ·0
8. 31	49. 0	3. 45	·1014	14. 15	·00528			
	***	4. 22	·1019	16. 45	·00620			
9. 46	44. 10	4. 37	·1014	22. 20	·00918			
	***	7. 49	·1013	23. 59	·00991			
12. 50	46. 25	8. 18	·1016					
14. 7	46. 15	10. 45	·1015					
14. 30	47. 35	10. 59	·1018					
14. 52	46. 25	11. 25	·1015					
15. 10	47. 0	11. 42	·1018					
18. 32	47. 20	11. 56	·1016					
21. 13	46. 30	13. 45	·1019					
22. 26	47. 35	14. 19	·1021					
22. 45	47. 0	14. 30	·1018					
23. 15	48. 35	14. 52	·1022					
23. 55	48. 35	18. 50	·1030					
		20. 25	·1028					
		20. 41	·1026					
		21. 10	·1028					
		21. 35	·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.	Of V. F. Magnet.
h m	° ′ ″	Dec. 10 h m		h m		h m	°	°
		22. 1	·1024					
		22. 25	·1026					
		22. 42	·1022					
		22. 50	·1028					
		23. 15	·1026					
		23. 55	·1032					
Dec. 11		Dec. 11		Dec. 11		Dec. 11		
0. 5	21. 49. 25	0. 4	·1032	0. 20	·01003	1. 40	42 ·0	43 ·5
1. 10	49. 30	2. 0	·1018	1. 30:	·01047	3. 40	44 ·0	44 ·0
1. 35	50. 0	3. 18	·1018	3. 5	·00986	9. 40	45 ·0	46 ·0
1. 59	49. 0	3. 26	·1020	5. 0	·00828	21. 40	40 ·0	42 ·0
3. 48	46. 55	3. 47	·1017	6. 30	·00724			
8. 45	44. 30	4. 5	·1019	10. 0	·00563			
11. 55	46. 25	4. 13	·1016	12. 0	·00520			
17. 30	48. 0	4. 33	·1016	13. 45	·00540			
19. 15	47. 0	4. 40	·1014	15. 34	·00598			
19. 45	48. 50	6. 0	·1015	19. 30	·00830			
22. 10	48. 30		***	21. 5	·00921			
23. 25	49. 25	9. 10	·1019	23. 30	·01126			
			***					
		14. 30	·1027					
		18. 25	·1036					
		19. 48	·1027					
		20. 20	·1031					
		22. 5	·1021					
		22. 20	·1014					
		23. 27	·1010					
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
0. 0	21. 50. 15	0. 0	·1007	0. 0	·01116	1. 40	42 ·0	43 ·0
0. 30	50. 30	2. 52	·1006	1. 5:	·01170	3. 40	45 ·0	45 ·2
1. 0	51. 35	3. 45	·0991	2. 45	·01044	9. 40	46 ·0	47 ·0
1. 44	49. 15	4. 25	·0996	4. 30	·00780	21. 40	37 ·0	38 ·0
2. 47	49. 30	5. 20	·0993	7. 2	·00483			
3. 7	50. 35	5. 30	·0997		·00519			
3. 21	50. 0	6. 13	·0995	9. 20	·00463			
3. 29	50. 35	6. 42	·0996	10. 45	·00506			
4. 29	47. 35	7. 15	·0992	13. 10	·00621			
6. 16	46. 45	7. 30	·0997	15. 48	·00870			
7. 0	44. 55	7. 51	·0997	17. 22	·01051			
7. 23	42. 10	8. 0	·1000	19. 14	·01223			
8. 22	44. 30	8. 17	·0999	19. 18	·01198			
8. 45	44. 25	8. 28	·1002	22. 30	·01198			
9. 2	42. 10	8. 55	·1000	23. 15	·01238			
9. 15	43. 25	9. 7	·1012					
9. 23	43. 0	9. 17	·1006					
9. 35	44. 0	9. 53	·1002					
9. 59	42. 25	10. 33	·1010					
11. 8	46. 25	11. 35	·1011					
13. 25	45. 30	12. 35	·1011					
13. 34	47. 10	12. 57	·1035					
14. 3	47. 25	13. 13	·1012					
14. 15	46. 0	13. 26	·1013					
	***	13. 35	·1008					
15. 29	47. 30	13. 55	·1015					
16. 0	47. 5	14. 5	·1013					
16. 29	48. 30	14. 17	·1016					
21. 39	48. 45	19. 48	·1034					
22. 5	48. 5	20. 5	·1031					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 12 h m	° ′ ″	Dec. 12 h m		h m		Dec. 13 h m	°	°
22. 30	21. 48. 55	21. 4	·1033					
23. 59	48. 15	23. 0	·1024					
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 0	21. 48. 15	0. 0	·1016	0. 0	·01259	1. 40	38 ·0	40 ·0
0. 30	49. 10	2. 20	·1023	1. 20	·01290	3. 40	41 ·0	41 ·0
4. 0	45. 0	3. 45	·1018	2. 30:	·01258	9. 40	42 ·5	43 ·0
6. 10	45. 0	3. 58	·1020	7. 10	·00702	21. 40	34 ·0	35 ·5
6. 34	44. 30	5. 45	·1014	8. 30	·00580			
7. 16	45. 25	6. 25	·1015	9. 33	·00496			
9. 0	45. 0	6. 30	·1012	11. 0	·00426			
9. 15	40. 0	7. 7	·1014	14. 30	·00590			
9. 34	42. 30	9. 10	·1014	15. 25	·00657			
9. 58	40. 30	9. 20	·1023	17. 40	·00838			
10. 50	44. 35	9. 39	·1016	20. 30	·01036			
11. 16	44. 10	9. 50	·1021	20. 35	·01027			
11. 52	46. 0	10. 18	·1015	22. 6	·01065			
16. 10	47. 0	10. 42	·1021	23. 30	·01098			
17. 44:	48. 0	12. 0	·1019					
18. 17	46. 55	16. 32	·1033					
20. 29	46. 25	20. 42	·1036					
23. 59	48. 30	23. 30	·1018					
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
0. 0	21. 48. 30	0. 0	·1018	0. 0	·01070	1. 40	42 ·2	43 ·0
1. 10	49. 15	1. 30	·1009	1. 0	·00996	3. 40	44 ·0	45 ·0
4. 0	45. 30	3. 8	·1017	2. 15	·00778	9. 40	48 ·5	49 ·5
6. 35	45. 30	3. 40	·1010	3. 45	·00538	21. 40	49 ·0	50 ·0
9. 9	45. 0	5. 5	·1014	3. 59	·00509			
13. 31	45. 25	6. 15	·1012	4. 10	·00530			
13. 41	46. 30	8. 40	·1007	5. 12	·00547			
13. 54	46. 25	11. 35	·1008	7. 0	·00550			
14. 10	44. 55	13. 30	·1008	8. 5	·00523			
14. 25	45. 10	13. 57	·1017	10. 45	·00495			
14. 43	44. 25	14. 15	·1011	13. 45	·00623			
16. 20	46. 0	14. 43	·1010	14. 15	·00602			
20. 16	46. 25	16. 25	·1012	16. 22	·00624			
21. 5	48. 0	16. 33	·1008	18. 45	·00618			
23. 59	48. 40	19. 30	·1010	19. 30	·00590			
		23. 25	·1012	23. 18	·00553			
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
0. 0	21. 48. 40	0. 0	·1008	0. 45	·00663	1. 40	51 ·0	52 ·0
0. 40	49. 0	2. 0	·0998	3. 44	·00710	3. 40	53 ·0	54 ·0
4. 25	45. 35	3. 25	·0996		·00765	9. 40	52 ·0	53 ·0
6. 11	45. 25	4. 10	·1002	5. 45	·00750	23. 28	47 ·0	48 ·0
6. 44	44. 35	7. 0	·1004	9. 20	·00753			
10. 15	45. 0	9. 5	·1007	10. 15	·00786			
11. 23	45. 55	11. 59	·1007	12. 20	·00887			
12. 15	45. 30	12. 20	·1003	15. 10	·01042			
12. 42	47. 0	12. 50	·1008	17. 0	·01153			
13. 23	44. 50	13. 33	·1006	20. 55	·01339			
15. 2	46. 10	14. 50	·1007	23. 0	·01487			
15. 35	45. 15	19. 6	·1015	23. 42	·01476			
16. 0	46. 30	20. 50	·1014					
18. 55	45. 35	23. 45	·1014					
22. 25	48. 30							
22. 53	48. 10							
23. 59	48. 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.
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 50	0. 0	·1012	0. 0	·01486	9. 37	45 ·0	46 ·5
1. 20	49. 0	1. 12	·1014	1. 8	·01485	21. 40	45 ·0	47 ·0
3. 44	46. 30	3. 25	·1010	3. 45	·01490			
6. 45	46. 0	5. 0	·1009	4. 24	·01480			
7. 19	45. 20	5. 55	·1010	5. 38	·01483			
10. 35	45. 35	7. 36	·1017	8. 45	·01490			
17. 0	46. 10	10. 15	·1013	9. 20	·01492			
17. 16	47. 35	10. 30	·1016	10. 15	·01510			
17. 45	46. 0	11. 13	·1011	11. 0	·01506			
18. 29	47. 0	14. 30	·1011	14. 33	·01476			
19. 19	45. 25	14. 40	·1014	15. 50	·01470			
20. 5	46. 5	17. 20	·1013	17. 35	·01463			
21. 47	50. 10	17. 57	·1018	18. 30	·01470			
22. 31	50. 20	18. 30	·1016	21. 40	·01470			
23. 0	53. 30	18. 50	·1020	23. 12	·01446			
23. 31	51. 10	22. 0	·1014	23. 59	·01443			
23. 46	51. 0	22. 35	·0991					
		23. 3	·1005					
		23. 48	·1007					
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
0. 9	21. 50. 30	0. 30	·1007	0. 15	·01450	1. 40	46 ·0	47 ·0
0. 30	50. 35	1. 0	·1009	1. 5	·01476	3. 40	48 ·0	48 ·5
0. 37	49. 35	1. 18	·1005	3. 0	·01447	9. 40	48 ·0	49 ·0
0. 59	50. 30	1. 30	·1012	3. 10	·01402	21. 40	44 ·3	46 ·0
1. 26	49. 30	3. 6	·1003	5. 0	·01312			
2. 13	50. 35	3. 56	·0987	6. 0	·01260			
2. 30	49. 20	4. 25	·0998	6. 55	·01233			
3. 11	50. 40	4. 36	·0995	8. 15	·01186			
3. 20	48. 15	4. 46	·1000	13. 45	·01180			
3. 50	49. 0	5. 0	·0995	14. 35	·01168			
4. 44	47. 15	5. 10	·0995	14. 49	·01206			
5. 20	51. 0	5. 25	·0986	15. 30	·01210			
5. 40	46. 35	5. 36	·0988	22. 37	{·01450			
	***	5. 57	·0980		{·01421			
7. 30	46. 0	6. 25	·0973	23. 44	·01462			
7. 57	41. 15	6. 48	·0986					
8. 15	41. 25		***					
8. 45	38. 40	7. 47	·0990					
9. 5	38. 20	7. 56	·0993					
9. 15	42. 30	8. 20	·0980					
9. 56	44. 15	8. 35	·0981					
10. 13	44. 35	9. 3	·0994					
10. 34	46. 0	9. 35	·0995					
10. 45	45. 20	10. 24	·1004					
11. 12	47. 35	10. 44	·1000					
11. 47	46. 0	10. 57	·1004					
12. 5	47. 10	11. 30	·1002					
12. 44	46. 40	13. 27	·0998					
12. 50	45. 30	13. 45	·1011					
13. 29	44. 45	14. 17	·1011					
14. 0	51. 10	14. 43	·0997					
14. 40	42. 15	15. 7	·1018					
15. 5	49. 40	15. 28	·1015					
15. 46	43. 30	16. 2	·1004					
16. 46	46. 25		***					
	***	17. 25	·1011					
17. 46	45. 55	18. 0	·1011					
18. 0	43. 0	18. 6	·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.	Of V. F. Magnet.
Dec. 17		Dec. 17				Dec. 18		
h m	° ′ ″	h m		h m		h m	°	°
18. 15	21. 44. 50		***			1. 40	47 ·0	47 ·5
18. 35	43. 30	19. 30	·1013			3. 40	49 ·0	49 ·0
18. 50	45. 40	20. 0	·1014			9. 40	47 ·0	48 ·0
	***	20. 8	·1016			21. 40	36 ·0	37 ·0
20. 22	47. 0		***					
21. 0	46. 35	20. 50	·1010					
22. 46	49. 30		***					
	***	22. 15	·1008					
23. 44	48. 30	23. 45	·0998					
Dec. 18		Dec. 18		Dec. 18				
0. 0	21. 49. 0	0. 15	·0998	0. 0	·01450			
1. 23	50. 10	1. 18	·0992	1. 0	·01452			
2. 29	44. 20	1. 42	·0984	2. 5	·01393			
3. 21:	46. 25	4. 5	·0995	4. 15	·01120			
4. 10	48. 0	4. 55	·0985	4. 45:	·01037			
5. 17	45. 5	5. 5	·0991	5. 15	·00988			
5. 32	46. 40	6. 40	·0992	7. 10	·00870			
7. 20	44. 35	7. 33	·0990	8. 5	·00864			
7. 55	43. 20	7. 43	·0993	10. 10	·00985			
8. 15	40. 15	8. 15	·0982	11. 5	·01050			
8. 44	37. 25	8. 39	·0989	14. 41	·01378			
9. 10	41. 30	8. 47	·0989	14. 45	·01342			
9. 22	40. 30	8. 56	·0993	18. 15	·01290			
10. 14	45. 30	9. 3	·0991	20. 10	·01259			
10. 57	45. 40	9. 17	·0994	22. 30	·01250			
11. 20	50. 30	9. 40	·0991	23. 15	·01275			
11. 54	45. 0	9. 56	·0993					
12. 15	46. 40	10. 10	·0991					
12. 34	46. 0	10. 18	·0993					
12. 46	46. 40	10. 42	·0992					
13. 16	46. 0	11. 7	·1014					
13. 30	47. 15	13. 17	·1004					
14. 0	45. 25	13. 50	·1017					
14. 14	47. 30	14. 28	·1010					
14. 25	47. 30	16. 20	·1021					
14. 55:	44. 30	18. 10	·1016					
16. 14	47. 50	18. 55	·1020					
19. 24	47. 50	19. 39	·1018					
20. 1	48. 25	21. 42	·1023					
21. 0	48. 0	23. 15	·1020					
21. 45	49. 0							
22. 43	49. 10							
23. 8	48. 15							
23. 59	50. 0							
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 0	21. 50. 0	1. 40	·1012*	0. 0	·01262	1. 40	39 ·0	40 ·0
0. 30	51. 0		(†)	1. 30:	·01293	3. 40	41 ·0	42 ·0
0. 53	49. 30	2. 10	·1010	2. 30	·01230	9. 40	41 ·0	42 ·0
1. 15	49. 55	3. 16	·1009	4. 0	·01019	21. 40	33 ·0	34 ·0
1. 40	49. 10	3. 48	·1002	5. 40	·00731			
	(†)	4. 25	·1006	6. 50	·00628			
4. 45	44. 20	4. 42	·1003	8. 10	·00578			
6. 30	44. 0	5. 12	·1005	9. 5	·00568			
6. 53:	43. 0	5. 28	·1000	14. 20	·00827			
7. 29	44. 0	6. 25	·0998	16. 16	·00988			
8. 22	44. 30	6. 42	·0994	17. 45	·01149			

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. 19		Dec. 19		Dec. 19				
h m	° ′ ″	h m		h m		h m	°	°
9. 0	21. 37. 0	6. 50	·0998	18. 35	·01268			
9. 41	42. 30	8. 7	·0995		·01233			
9. 58	43. 0	8. 25	·0990	22. 6	·01260			
10. 14	44. 30	8. 40	·0995	23. 59	·01310			
12. 30	46. 50	8. 50	·0993					
14. 35	47. 50	9. 6	·0994					
14. 59	48. 35	9. 19	·0989					
15. 30:	47. 0	10. 0	·1004					
16. 9	48. 0	11. 7	·1006					
17. 11	46. 55	11. 28	·1008					
17. 44	48. 0	15. 35	·1019					
17. 58	46. 50	16. 11	·1014					
18. 13	47. 35	16. 40	·1019					
20. 44	46. 25	17. 26	·1019					
21. 26	48. 25	19. 30	·1019					
22. 10	47. 40	20. 47	·1024					
23. 25	48. 40	21. 41	·1021					
			***					
		23. 28	·1011					
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
1. 40	21. 49. 37*	1. 40	·1006*	0. 20	·01351	1. 40	36 ·0	37 ·0
3. 40	46. 22*	3. 40	·0993*	0. 55	·01344	3. 40	39 ·8	41 ·0
	(†)		(†)	1. 25	·01308	9. 40	40 ·0	41 ·0
4. 1	45. 0	5. 0	·1003	2. 35	·01177	21. 40	31 ·0	33 ·0
6. 44	43. 0	6. 30	·0994	4. 5	·00842			
7. 45	44. 30	9. 35	·1005	5. 31	·00510			
9. 0	44. 0	10. 0	·1019	6. 33	·00526			
9. 30	44. 40	14. 30	·1026	9. 5	·00474			
10. 15	44. 5	15. 15	·1027	11. 10	·00497			
10. 40	45. 5	16. 35	·1032	14. 15	·00668			
14. 0	46. 30	19. 7	·1036	17. 20	·00937			
18. 31	46. 30	20. 25	·1040	20. 28	·01288			
22. 30	44. 50	20. 45	·1037	20. 31	·01244			
23. 30	45. 0	22. 6	·1038	22. 33	·01230			
		22. 20	·1034	23. 30	·01276			
		23. 35	·1029					
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
1. 40	21. 48. 7*	1. 40	·1020*	0. 0	·01290	1. 40	34 ·0	35 ·5
3. 40	46. 35*	3. 40	·1022*	1. 0	·01311	3. 40	37 ·0	37 ·5
	(†)		(†)	1. 39:	·01304	9. 40	38 ·5	39 ·0
6. 45	44. 0	4. 0	·1025	3. 5	·01183	21. 40	32 ·0	33 ·0
9. 46	44. 25	4. 45	·1019	4. 30	·01102			
12. 35	45. 40	7. 30	·1017	6. 45	·00722			
13. 1	45. 10	9. 32	·1022	8. 30:	·00553			
15. 0	47. 0	12. 0	·1026	9. 50	·00504			
17. 5	45. 5	13. 42	·1031	12. 25	·00543			
18. 0	46. 40	14. 0	·1035	15. 0	·00728			
18. 54	44. 55	14. 47	·1036	17. 25	·00926			
21. 43	45. 0	16. 27	·1042	20. 0	·01102			
23. 59	47. 0	17. 35	·1042	21. 25	·01168			
		18. 45	·1048	22. 32	·01170			
		21. 18	·1041	23. 59	·01187			
		21. 26	·1043					
		22. 20	·1037					
		22. 30	·1040					
		23. 5	·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.
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 47. 0	1. 40	·1022*	0. 47	·01210	1. 40	35 ·0	37 ·0
1. 40	46. 28*	3. 40	·1022*	1. 12	·01195	3. 40	37 ·0	37 ·0
3. 40	44. 24*		(†)	3. 35	·00942	9. 40	36 ·0	37 ·5
	(†)	5. 15	·1019	4. 10	·00859	23. 15	39 ·0	40 ·5
4. 30	42. 30	7. 3	·1013	6. 50:	·00643			
6. 29	41. 30	7. 32	·1017	7. 52	·00623			
6. 35	43. 30	7. 48	·1015	9. 15	·00634			
6. 46	41. 40	8. 12	·1017	14. 3	·00886			
7. 31	43. 45	8. 32	·1015	18. 45	·00894			
7. 52	43. 5	9. 5	·1021	19. 40:	·00853			
8. 29	44. 30	10. 0	·1019	21. 17	·00690			
10. 4	44. 20	11. 12	·1025	22. 46	·00503			
10. 16	44. 55	13. 20	·1031	23. 43	·00538			
14. 8	43. 30	16. 25	·1037					
16. 10	44. 0	18. 25	·1031					
17. 0	43. 0	20. 25	·1037					
17. 35	43. 35	22. 12	·1025					
17. 56	42. 0	23. 10	·1026					
19. 10	46. 0	23. 45	·1023					
20. 59	45. 0							
23. 20	45. 30							
23. 55	46. 50							
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
	(†)		(†)	0. 5	·00650	9. 0	45 ·0	46 ·5
1. 35	21. 50. 25	1. 25	·1034	3. 10	·00640	21. 40	45 ·0	46 ·0
3. 16	47. 20	3. 10	·1023	6. 19	·00644			
6. 55	46. 30	5. 30	·1026	11. 13	·00667			
7. 30	46. 50		***	14. 32	·00630			
8. 0	44. 30	7. 40	·1024	16. 45	·00661			
8. 44	46. 0	7. 55	·1020	17. 45	·00697			
9. 41	43. 50	8. 25	·1023	18. 50	·00715			
10. 26	44. 0	8. 43	·1022	19. 52	·00752			
11. 0	46. 0	8. 56	·1024	23. 45	·00890			
11. 31	42. 0	10. 50	·1017	23. 59	·00916			
11. 51	46. 35	10. 57	·1024					
12. 9	45. 0	11. 4	·1021					
12. 30	46. 40	11. 15	·1035					
13. 13	45. 50	11. 33	·1023					
15. 15	47. 0	11. 48	·1037					
15. 40	49. 15	12. 22	·1022					
16. 49	45. 30	12. 43	·1018					
17. 23	45. 30	13. 15	·1016					
17. 42	47. 15	13. 28	·1018					
17. 46	45. 40	13. 40	·1016					
	***	15. 0	·1014					
18. 31	47. 0	15. 25	·1010					
19. 0	45. 35	16. 15	·1016					
21. 0	45. 30	17. 40	·1016					
23. 59	48. 30	18. 0	·1018					
		18. 14	·1017					
		18. 30	·1020					
		18. 40	·1017					
		19. 5	·1020					
		21. 45	·1019					
		23. 10	·1012					
		23. 44	·1006					
		23. 59	·1004					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 48. 35	0. 0	·1004	1. 31	·00826	1. 40	48 ·0	49 ·5
1. 10	49. 25	3. 30	·0996	2. 10	·00760	3. 40	51 ·0	52 ·0
4. 0	47. 0	4. 45	·1002	2. 35	{·00743	9. 40	50 ·0	51 ·0
6. 30	45. 30	7. 15	·1002		{·00817	23. 33	46 ·0	47 ·0
10. 0	44. 40	11. 55	·1007	3. 18	{·00774			
10. 30	44. 40	12. 10	·1018		{·01059			
10. 44	43. 35	13. 0	·1010	4. 45	·00812			
11. 14	45. 20	14. 50	·1011	5. 35	·00759			
11. 59	45. 35	15. 11	·1010	6. 37	·00731			
12. 8	44. 20	18. 0	·1019	8. 40	·00710			
12. 38	45. 30	18. 42	·1022	10. 41	·00743			
13. 0	45. 0	18. 57	·1019	17. 35	·01236			
14. 46	47. 20	19. 12	·1022	20. 0	·01325			
	***	19. 40	·1020	23. 59	·01320			
17. 28	46. 45		***					
17. 45	47. 30	21. 55	·1018					
19. 10	45. 20	22. 25	·1014					
21. 35	45. 30		***					
22. 30	47. 35	23. 36	·1018					
23. 28	47. 30	23. 59	·1016					
23. 59	49. 5							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	21. 49. 15	0. 0	·1017	0. 33	·01320	9. 30	48 ·2	49 ·0
1. 16	51. 25	1. 50	·1018	1. 18	·01307	21. 45	47 ·5	49 ·0
2. 45	49. 20	3. 20	·1016	4. 15	·01230			
3. 31	49. 25	3. 50	·1010	6. 30	·01109			
3. 58	47. 5	3. 58	·1012	10. 0	·01011			
4. 30	47. 30	4. 8	·1009	14. 15	·00951			
5. 5	48. 40	4. 43	·1012	18. 0	·01131			
5. 45	44. 30	5. 3	·1010	19. 45	·01210			
5. 55	45. 0	6. 50	·1017	22. 48	·01195			
6. 5	43. 55	7. 20	·1011	23. 59	·01158			
	***	7. 47	·1010					
6. 45	45. 0	8. 0	·1014					
7. 34	46. 0	8. 42	·1008					
7. 59	43. 35	8. 53	·1013					
8. 40	44. 35	9. 15	·1010					
8. 50	43. 30	10. 18	·1013					
9. 0	44. 55	11. 19	·1012					
9. 45	44. 25	11. 30	·1023					
10. 37	45. 20	11. 45	·1017					
11. 30	44. 5	12. 15	·1014					
11. 41	45. 40	12. 30	·1017					
	***	13. 18	·1015					
13. 52	47. 30	14. 5	·1016					
14. 42	46. 30	18. 32	·1020					
20. 0	45. 30	19. 48	·1024					
	***	20. 13	·1024					
21. 9	46. 0	20. 20	·1022					
23. 59	48. 5	20. 28	·1025					
		20. 35	·1023					
		20. 45	·1026					
		21. 35	·1026					
		23. 59	·1011					
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
0. 10	21. 46. 0	0. 0	·1011	0. 15	·01139	1. 40	50 ·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.	Readings of Thermometers. Of V. F. Magnet.
Dec. 26		Dec. 26		Dec. 26		Dec. 26		
h m	° ′ ″	h m		h m		h m	°	°
1. 9	21. 46. 45	4. 0	·1008	3. 45	·00918	3. 40	51 ·7	52 ·0
3. 0	44. 30	4. 27	·1011	5. 12	·00792	9. 40	52 ·0	53 ·0
8. 25	44. 5	4. 55	·1005	5. 48	{·00766	21. 40	50 ·0	51 ·0
8. 45	43. 5	6. 30	·1010		{·00800			
9. 25	44. 0	16. 0	·1014	9. 0	·00770			
13. 16	44. 20	20. 0	·1018	14. 10	·00784			
13. 29	45. 5	22. 55	·1010	14 35	·00779			
14. 0	44. 30	23. 12	·1014	17. 50	·00830			
14. 30	45. 0			19. 20	·00843			
19. 0	44. 25			20. 0	·00865			
21. 13	44. 5			21. 58	{·00805			
22. 30	44. 45				{·00870			
	(†)			23. 14	·00794			
		Dec. 27		Dec. 27		Dec. 27		
		0. 0	·1017	0. 0	·00760	1. 40	52 ·0	53 ·1
		0. 47	·1016	0. 58	{·00741	3. 40	54 ·0	55 ·0
		0. 55	·1012		{·00775	9. 40	54 ·5	55 ·0
		1. 11	·1013	4. 10	·00808	21. 40	49 ·5	50 ·5
		1. 18	·1011	5. 5	·00787			
		1. 27	·1011	6. 15	·00812			
		2. 13	·0987	7. 50	·00768			
			***	11. 0	·00794			
		3. 32	·1004	12. 18	·00812			
		3. 42	·0996	17. 10	·01160			
		4. 19	·1006	18. 38	·01267			
		4. 55	·1001	20. 0	·01338			
		7. 16	·1006	21. 15	·01400			
		7. 32	·1001	22. 16	·01458			
		8. 0	·1002	23. 59	·01506			
			***					
		9. 50	·0994					
			***					
		11. 47	·0998					
		12. 15	·1006					
		13. 12	·1004					
		19. 45	·1017					
		20. 55	·1016					
		21. 33	·1010					
		23. 59	·1002					
		Dec. 28		Dec. 28		Dec. 28		
		0. 0	·1002	1. 19	·01443	1. 40	51 ·1	52 ·0
		1. 5	·1001	3. 45	·01128	3. 40	53 ·0	53 ·0
		1. 56	·1008	5. 5	·00920	9. 40	55 ·0	56 ·5
		2. 40	·0998	6. 4	{·00791	21. 40	50 ·0	51 ·0
		4. 0	·1001		{·00832			
		4. 37	·0998	7. 57	·00808			
		8. 0	·0996	14. 35	·00754			
		8. 17	·0989	15. 15	·00770			
		8. 46	·0998	19. 52	·01006			
		10. 35	·0997	22. 50	·01225			
		10. 50	·1009	23. 29	{·01247			
		11. 5	·1001		{·01220			
		12. 32	·0997	23. 59	·01224			
		12. 48	·1001					
		14. 33	·0998					
		17. 20	·1009					
		20. 20	·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.

December 26. After $22^h.\ 30^m.$ the Declination Magnet was under adjustment for the remaining days of the year.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 28 h m		h m		h m	°	°
		21. 40	·1000					
			***					
		23. 59	·1000					
		Dec. 29		Dec. 29		Dec. 29		
		0. 0	·1001	1. 0	·01220	1. 40	52 ·0	53 ·0
		3. 32	·1002	2. 49	·01091	3. 40	54 ·0	54 ·0
		3. 47	·0996		·00830	9. 40	53 ·0	53 ·5
		4. 5	·1000	5. 40	·00761	23. 0	49 ·0	50 ·0
		8. 20	·1005	6. 11	·00749			
		8. 47	·1001	7. 5	·00734			
		9. 10	·1004	8. 0	·00757			
		9. 45	·0998	10. 0	·00820			
		10. 0	·1004	11. 35	·00834			
		10. 12	·0997	13. 45	·00850			
		10. 40	·1002	14. 40	·00826			
		12. 0	·1005	16. 37	·00836			
		12. 22	·1010	19. 15	·00935			
		13. 16	·1004	21. 5	·01030			
		13. 32	·1018	23. 29	·01213			
		14. 8	·1022					
		14. 16	·1012					
		15. 6	·1008					
		15. 15	·1000					
		15. 45	·1006					
		15. 55	·1000					
		16. 17	·1011					
		16. 20	·1007					
		16. 30	·1010					
		17. 27	·1002					
		17. 54	·1004					
		18. 25	·1015					
		18. 40	·1014					
		18. 44	·1015					
		18. 50	·1008					
		18. 59	·1020					
			***					
		20. 17	·1012					
		20. 42	·1019					
			***					
		21. 45	·1008					
			***					
		22. 55	·1010					
		23. 31	·1005					
		Dec. 30		Dec. 30		Dec. 30		
		0. 0	·0997	0. 0	·01247	8. 50	48 ·0	49 ·5
		0. 28	·0989	3. 12	·01405	21. 40	44 ·5	46 ·0
			***	3. 35	·01382			
		1. 10	·0989	3. 45	·01380			
		1. 22	·0978	7. 0	·01287			
		1. 35	·0988	8. 10	·01302			
		2. 12	·0989	9. 45	·01410			
		2. 14	·0976	11. 30	·01500			
		2. 37	·0997	12. 0	·01507			
		2. 55	·0986	13. 20	·01492			
		3. 6	·1004	15. 20	·01464			
		3. 30	·1001	21. 10	·01467			
		3. 35	·1004	23. 59	·01487			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 30 h m		h m		h m	°	°
		3. 45	·1002					
		3. 55	·1003					
		4. 13	·0980					
		4. 26	·0979					
		4. 33	·0971					
		5. 8	·0972					
		5. 13	·0986					
		5. 26	·0989					
		5. 43	·0991					
		5. 55	·1002					
		6. 42	·1002					
		7. 6	·1006					
		7. 26	·0999					
		7. 45	·1004					
		8. 16	·1004					
		8. 47	·0996					
		9. 38	·1004					
		9. 45	·1001					
		9. 56	·1006					
		10. 10	·1009					
			***					
		11. 15	·1003					
		12. 8	·1000					
		13. 11	·1008					
		13. 38	·1002					
		13. 48	·1010					
		14. 25	·1004					
		14. 48	·1012					
		15. 25	·1010					
			***					
		17. 27	·1016					
		17. 33	·1012					
		17. 50	·1020					
		18. 30	·1013					
		19. 17	·1016					
		19. 52	·1022					
		21. 45	·1011					
		22. 22	·0997					
		22. 53	·1002					
		23. 3	·0994					
		23. 59	·1002					
		Dec. 31		Dec. 31		Dec. 31		
		1. 40	·1002*	2. 5	·00951	1. 40	50 ·0	51 ·0
		3. 40	·1000*	3. 15	·00792	3. 40	49 ·5	51 ·0
		9. 40	·1010*	3. 29	·00784	9. 40	50 ·0	50 ·5
		21. 40	·1010*		·00858	21. 40	43 ·5	45 ·0
				4. 26	·00851			
					·00898			
				4. 47	·00861			
					·00908			
				7. 15	·00765			
				8. 55	·00768			
				11. 30	·00870			
				15. 22	·01225			
				17. 40	·01430			
				19. 30	·01512			
				20. 18	·01539			
				23. 31	·01529			

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

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1855.

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

The needle A 1 was used throughout the Year.

MAGNETIC DIP, observed at the ROYAL OBSERVATORY, GREENWICH, in the Year 1855.

Day and Approximate Hour, 1855.		Magnetic Dip.	Day and Approximate Hour, 1855.		Magnetic Dip.	Day and Approximate Hour, 1855.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	0. 21	68. 36 ·50	May	6. 21	68. 43 ·75	September	2. 21	68. 45 ·25
	1. 3	68. 37 ·25		7. 3	68. 45 ·50		3. 3	68. 43 ·25
	7. 21	68. 41 ·75		13. 21	68. 46 ·25		9. 21	68. 44 ·50
	8. 3	68. 48 ·75		14. 3	68. 49 ·00		10. 3	68. 44 ·00
	14. 21	68. 43 ·75		20. 21	68. 45 ·50		16. 21	68. 36 ·50
	15. 3	68. 43 ·25		21. 3	68. 45 ·50		17. 21	68. 43 ·25
	21. 21	68. 48 ·75		27. 21	68. 45 ·00		18. 3	68. 41 ·75
	22. 3	68. 47 ·50		28. 3	68. 46 ·25		23. 21	68. 40 ·25
	28. 21	68. 42 ·50					24. 3	68. 40 ·75
	29. 3	68. 43 ·00	June	3. 21	68. 45 ·00		30. 21	68. 44 ·25
				4. 3	68. 45 ·00			
February	4. 21	68. 45 ·50		10. 21	68. 45 ·50	October	1. 3	68. 42 ·00
	5. 3	68. 46 ·75		11. 3	68. 44 ·25		7. 21	68. 40 ·25
	11. 21	68. 46 ·50		17. 21	68. 44 ·25		8. 3	68. 44 ·50
	12. 3	68. 47 ·50		18. 3	68. 43 ·75		14. 21	68. 45 ·00
	18. 21	68. 46 ·25		24. 21	68. 42 ·75		15. 3	68. 41 ·25
	19. 3	68. 45 ·50		25. 3	68. 45 ·25			
	25. 21	68. 45 ·75				November	4. 21	68. 42 ·50
	26. 3	68. 46 ·25	July	1. 21	68. 45 ·50		5. 3	68. 44 ·50
March	4. 21	68. 43 ·75		2. 3	68. 47 ·00		11. 21	68. 43 ·25
	5. 3	68. 37 ·00		8. 21	68. 48 ·75		12. 3	68. 44 ·00
	11. 21	68. 46 ·25		9. 3	68. 47 ·50		25. 21	68. 44 ·50
	12. 3	68. 46 ·75		15. 21	68. 41 ·50		26. 3	68. 44 00
	18. 21	68. 45 ·50		22. 21	68. 47 ·00			
	19. 3	68. 48 ·75		23. 3	68. 47 ·00	December	2. 21	68. 46 ·25
	25. 21	68. 48 ·00		29. 21	68. 46 ·25		3. 3	68. 46 ·25
	26. 3	68. 46 ·75		30. 3	68. 39 ·50		9. 21	68. 46 ·50
							10. 3	68. 45 ·25
April	7. 21	68. 46 ·25	August	5. 21	68. 43 ·00		16. 21	68. 45 ·00
	8. 3	68. 48 ·75		6. 3	68. 43 ·00		17. 3	68. 45 ·00
	15. 21	68. 49 ·00		12. 21	68. 44 ·25		23. 21	68. 45 ·25
	16. 3	68. 46 ·75		13. 3	68. 45 ·75		24. 3	68. 43 ·25
	22. 21	68. 47 ·50		19. 21	68. 42 ·50		30. 21	68. 37 ·75
	23. 3	68. 46 ·25		20. 2	68. 43 ·25		31. 3	68. 46 ·50
	29. 21	68. 47 ·00		26. 21	68. 46 ·00			
	30. 3	68. 46 ·15		27. 3	68. 45 ·50			

September 16d. 21h. A thin misty rain was falling. The air was very damp.

MONTHLY MEANS of MAGNETIC DIPS, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1855.

1855, Month.	Mean Monthly Dip at 21h.	Number of Observations.	1855, Month.	Mean Monthly Dip at 3h.	Number of Observations.
	° ′			° ′	
January	68. 42 ·65	5	January	68. 43 ·95	5
February	68. 46 ·00	4	February	68. 46 ·50	4
March	68. 45 ·88	4	March	68. 44 ·81	4
April	68. 47 ·44	4	April	68. 47 ·00	4
May	68. 45 ·12	4	May	68. 46 ·56	4
June	68. 44 ·37	4	June	68. 44 ·56	4
July	68. 45 ·80	5	July	68. 45 ·25	4
August	68. 43 ·93	4	August	68. 44 ·37	4
September	68. 42 ·33	6	September	68. 42 ·43	4
October	68. 42 ·62	2	October	68. 42 ·58	3
November	68. 43 ·41	3	November	68. 44 ·16	3
December	68. 44 ·15	5	December	68. 45 ·25	5
Mean	68. 44 ·47	50	Mean	68. 44 ·78	48

Mean = 68° 44′ 6

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1855.

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, 1855.	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.
		ft. in.	°	° ′ ″	s		°
February 21	Lateral	1. 0	25·0	10. 10. 17·89	5·404	100	27·3
	Axial			5. 42. 22·25			
	Lateral	1. 6		3. 3. 2·99			
	Axial			1. 34. 34·14	5·430	100	
March 19	Lateral	1. 0	49·0	10. 10. 6·65	5·440	100	51·5
	Axial			5. 41. 26·35			
	Lateral	1. 6		3. 2. 0·31			
	Axial			1. 42. 57·29	5·445	100	
April 26	Lateral	1. 0	52·2	10. 10. 53·60	5·445	100	54·3
	Axial			5. 40. 33·49			
	Lateral	1. 6		3. 1. 2·31			
	Axial			1. 32. 48·19	5·443	100	
August 14	Lateral	1. 0	66·2	9. 56. 2·05	5·535	100	70·0
	Axial			5. 31. 6·69			
	Lateral	1. 6		2. 58. 25·30			
	Axial			1. 29. 51·21	5·530	100	
September 4	Lateral	1. 0	68·8	9. 53. 30·25	5·666	102	65·8
	Axial			5. 30. 58·95			
	Lateral	1. 6		2. 59. 54·00			
	Axial			1. 30. 36·04	5·717	102	
October 26	Lateral	1. 0	45·0	10. 0. 20·95	5·540	100	51·2
	Axial			5. 36. 31·42			
	Lateral	1. 6		2. 59. 29·57			
	Axial			1. 31. 46·76	5·500	102	
November 15	Lateral	1. 0	36·8	9. 43. 18·00	5·490	102	40·3
	Axial			5. 14. 55·91			
	Lateral	1. 6		2. 57. 14·43			
	Axial			1. 30. 39·67	5·504	104	
December 3	Lateral	1. 0	34·0	9. 28. 6·00	5·600	102	36·4
	Axial			5. 6. 29·94			
	Lateral	1. 6		2. 47. 24·54			
	Axial			1. 27. 29·13	5·615	104	

September 4. The times of vibration, both before and after the observations, are evidently erroneous. The time used in the calculation is $5^{s}\cdot527$.

December 3. The great loss of magnetism in the deflecting bar as found on this day cannot be accounted for.

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1855.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a^1.	Apparent Value of b^1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a$ = Log. $\frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.
February 21	+0·18200	−0·00541	−0·00470	0·08743	0·01200	+0·18136	8·95752	5·418	0·12086	3·816	0·346
March 19	+0·18019	−0·00365		0·08257	0·01658	+0·18108	8·95685	5·445	0·11654	3·801	0·344
April 26	+0·17863	−0·00227		0·08113	0·01777	+0·18073	8·95600	5·444	0·11670	3·805	0·344
August 14	+0·17716	−0·00465		0·08180	0·01437	+0·17717	8·94736	5·533	0·10262	3·781	0·335
September 4	+0·18036	−0·00858		0·07953	0·01660	+0·17696	8·94684	5·527	0·10356	3·788	0·335
October 26	+0·17805	−0·00430		0·08574	0·00976	+0·17838	8·95031	5·520	0·10466	3·777	0·337
November 15	+0·17795	−0·00909		0·08337	0·00811	+0·17409	8·93975	5·497	0·10829	3·839	0·334
December 3	+0·16413	+0·00037		0·08331	0·00573	+0·16853	8·92565	5·608	0·09092	3·825	0·322

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

Month and Day, 1855.	Adopted Time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
February 1	5·403	32·0	0·12327	0·345	3·847
July 23	5·493	73·0	0·10892	0·339	3·791
August 8	5·531	68·8	0·10293	0·335	3·783
November 22	5·566	40·0	0·09745	0·329	3·809

The number of vibrations employed in each determination was 100.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1855.

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 volume for 1851; and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they are self-registering. The readings given are corrected for index-errors.

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

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

The dew-point has been inferred exclusively from simultaneous observations of the dry-bulb and wet-bulb thermometers. In order to find the difference between the dry-bulb reading and the dew-point, the difference between the dry-bulb and the wet-bulb readings has been multiplied by a factor taken from the following table (deduced by Mr. Glaisher from the comparison of all the simultaneous readings of the dry-bulb, wet-bulb, and dew-point thermometers, 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 on January 21, 22, 31; February 1, 18, 19; May 10, 18; from July 22 to July 24; August 9; September 4, 5; October 27 to November 2; 19 to 22; 25 and 26.

The thermometer for the maximum temperature in the sun was out of order on May 27; July 4, 5; and August 21.

The thermometer for the maximum temperature of the water of the Thames was out of order from February 16 to May 10; and from June 8 to June 11. That for the minimum temperature was out of order from February 16 to April 2; from April 10 to May 7, and from June 8 to June 11.

The mean daily value of the difference between dew-point temperature and air-temperature is the difference between the two numbers in the sixth and seventh columns. The Greatest and Least are the greatest and least among the differences corresponding to the times of observation in the civil day, or they are found from the absolute maxima and minima, as determined by comparing the observations of the self-registering wet-bulb thermometers with those of the self-registering dry-bulb thermometers.

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

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

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

The register of rain is read at 9^h P.M. from Crosley's Rain-gauge, described in page lxxv of the Introduction, 1847. If, however, there appears to be any doubt as to the correctness of the results, reference is made to the Rain-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*	

MONTH and DAY, 1855.	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.
Jan. 1	..	29·838	51·6	41·6	47·7	40·9	51·7	35·1	42·5	41·2	6·8	7·8	6·0	+11·2	W	WNW	13·0	0·0	4·0	180	0·06
2	Greatest Declination N.	29·970	52·4	45·5	47·6	45·0	51·0	41·0	42·5	41·0	2·6	6·8	0·9	+ 8·3	NW	N; NW	2·5	0·0	0·1	105	0·00
3	Full	30·071	51·0	43·6	46·6	42·6	51·0	37·2	42·0	41·2	4·0	6·8	2·3	+10·6	NW	W	0·0	0·0	0·0	70	0·04
4	Apogee	30·103	47·0	42·3	44·0	39·7	52·0	35·5	42·5	41·9	4·3	6·4	1·0	+ 8·3	WSW	SW	0·0	0·0	0·0	95	0·05
5	..	30·019	49·7	43·1	45·9	39·2	54·3	36·2	42·8	42·1	6·7	9·5	3·5	+ 9·1	SW	SW	0·0	0·0	0·0	230	0·00
6	..	30·221	51·0	46·4	48·3	45·4	51·2	40·2	43·5	42·1	2·9	3·4	2·6	+13·0	SW	SW	0·0	0·0	0·0	85	0·05
7	..	30·389	49·3	45·5	47·1	40·3	51·0	43·2	44·2	43·0	6·8	8·1	6·2	+12·0	SW	SW	0·0	0·0	0·0	45	0·00
8	..	30·219	47·2	43·7	45·1	38·9	49·5	41·3	44·5	43·2	6·2	9·0	4·8	+10·2	SW	SW	0·0	0·0	0·0	50	0·00
9	..	30·231	49·0	40·0	43·5	41·0	52·5	38·2	44·5	43·4	2·5	7·3	0·0	+ 8·5	SW	SW; E	0·0	0·0	0·0	50	0·05
10	In Equator	30·433	40·7	26·0	33·2	33·1	42·5	28·3	45·0	43·4	0·1	0·8	0·0	— 1·9	Calm	Calm	0·0	0·0	0·0	5	0·02
11	Last Qr.	30·400	37·0	25·5	32·2	31·3	42·4	21·0	44·8	43·2	0·9	3·3	0·5	— 3·0	Calm	Calm	0·0	0·0	0·0	25	0·01
12	..	30·459	39·7	32·3	36·7	36·7	40·7	21·8	45·0	43·0	0·0	0·3	0·0	+ 1·4	Calm	NE	0·0	0·0	0·0	10	0·00
13	..	30·402	41·6	34·9	37·2	34·4	44·0	30·7	44·5	43·0	2·8	5·3	1·6	+ 1·7	NE	NE	0·0	0·0	0·0	25	0·01
14	..	30·369	40·0	30·4	33·9	32·3	43·0	27·8	44·2	43·0	1·6	3·4	0·6	— 1·8	Calm	N	0·0	0·0	0·0	25	0·00
15	..	30·244	34·3	27·2	30·5	29·7	35·3	26·0	43·5	42·1	0·8	2·2	0·0	— 5·3	WSW	W	0·0	0·0	0·0	65	0·01
16	..	29·938	40·2	28·6	33·4	32·3	41·0	24·8	43·2	41·6	1·1	4·3	0·3	— 2·6	W; N	N; NE	3·4	0·0	0·3	90	0·11
17	Greatest Declination S. New. Perigee.	30·012	31·0	23·8	26·3	20·8	32·0	20·0	43·0	40·7	5·5	7·8	2·6	— 9·9	NE	NE	0·0	0·0	0·0	..	0·02
18		29·952	35·0	22·2	28·1	23·0	36·0	24·0	42·8	39·3	5·1	7·8	1·7	— 8·3	NE	N; S	0·0	0·0	0·0	..	0·05
19	..	29·866	28·2	16·2	21·1	16·8	28·5	22·0	42·0	38·4	4·3	8·1	0·9	−15·4	Calm	NE	0·0	0·0	0·0	..	0·00
20	..	29·694	31·8	24·2	29·0	26·5	33·0	18·0	41·8	37·5	2·5	5·2	1·7	— 7·7	NE	NE	2·9	0·0	0·8	..	0·00
21	..	29·752	27·5	18·7	22·7	18·4	34·0	..	41·0	37·0	4·3	5·7	0·0	−14·1	ESE; Calm	Calm; WSW	0·0	0·0	0·0	..	0·00
22	..	29·730	30·0	21·8	26·3	25·1	32·3	..	40·5	36·3	1·2	3·9	0·6	−10·5	SW	Calm	0·0	0·0	0·0	..	0·04
23	In Equator	29·779	33·4	24·8	29·3	27·3	36·2	23·0	40·0	34·9	2·0	5·1	0·7	— 7·6	Calm	NNE	0·0	0·0	0·0	..	0·03
24	..	29·894	36·0	29·0	32·0	29·9	37·0	29·0	39·4	34·7	2·1	2·9	1·7	— 5·0	NE	NE	2·0	0·0	0·0	..	0·11
25	First Qr.	29·924	37·0	31·4	33·9	30·0	43·0	27·8	39·0	35·1	3·9	5·5	3·1	— 3·2	NNE	NNE	0·0	0·0	0·0	..	0·16
26	..	29·844	35·5	30·0	32·5	29·5	37·0	28·0	38·5	35·2	3·0	4·4	2·2	— 4·7	NNE	W	0·0	0·0	0·0	..	0·04
27	..	29·880	34·0	24·4	28·5	25·3	40·0	21·0	38·2	35·6	3·2	3·9	1·2	— 8·8	W; Calm	ENE; Calm	0·0	0·0	0·0	..	0·06
28	..	29·798	34·2	24·6	30·7	26·3	37·0	19·8	38·0	35·6	4·4	..	2·5	— 6·7	NNE	NE; W	0·0	0·0	0·0	..	0·02
29	..	29·576	35·5	28·7	30·5	27·6	36·0	28·0	38·5	35·8	2·9	4·5	1·1	— 6·9	W	NE	0·0	0·0	0·0	..	0·05
30	Greatest Declination N.	29·607	32·4	27·4	29·8	28·2	34·0	21·0	38·0	35·6	1·6	2·9	0·9	— 7·7	Calm; E	ENE	0·0	0·0	0·0	..	0·00
31	..	29·348	29·0	26·2	27·2	24·8	30·5	..	38·0	35·1	2·4	4·6	0·6	−10·4	ENE	ENE	3·0	0·0	1·5	..	0·00
Feb. 1	Apogee	29·793	31·5	25·4	27·8	22·8	33·0	..	37·5	34·5	5·0	7·4	1·8	— 9·9	NE	NE	0·0	0·0	0·0	..	0·16
2	Full	29·828	29·4	22·2	26·1	24·3	32·0	20·0	37·5	33·9	1·8	4·9	0·0	−11·7	ENE	ENE	4·8	0·0	1·8	..	0·00
3	..	29·385	39·6	27·8	32·8	32·2	42·0	25·0	37·0	33·7	0·6	2·8	0·0	— 5·0	E	SE	4·3	0·0	0·7	..	0·05
4	..	29·196	39·0	32·5	35·2	35·2	40·0	31·6	37·0	33·9	0·0	0·0	0·0	— 2·7	SSE	Calm	0·0	0·0	0·0	..	0·15
5	..	29·216	40·4	33·3	36·2	35·9	42·0	27·5	36·5	34·2	0·3	2·4	0·0	— 1·8	Calm; N	N	0·0	0·0	0·0	60	0·05
6	In Equator	29·346	36·0	32·2	33·1	32·3	36·5	25·8	36·0	34·2	0·8	1·3	0·5	— 5·0	NE	NE	0·0	0·0	0·0	135	0·00
7	..	29·683	34·0	30·2	31·4	28·0	36·0	33·0	35·5	34·2	3·4	4·6	2·4	— 6·8	NE	NE	2·0	0·0	0·0	175	0·05
8	..	29·628	31·2	28·2	29·5	28·7	33·0	32·2	35·8	34·7	0·8	1·6	0·4	— 8·8	NE	NE; E	4·0	0·0	0·8	195	0·48
9	..	29·785	31·0	26·5	27·9	26·2	31·0	31·0	35·5	34·2	1·7	2·6	1·2	−10·4	E	NE	3·0	0·0	0·4	120	0·00
10	Last Qr.	29·725	33·0	17·4	23·0	21·3	36·0	14·0	35·0	33·7	1·7	9·4	0·9	−15·4	NE	NE	0·0	0·0	0·0	50	0·00
11	..	29·438	36·5	14·5	25·8	25·2	41·0	10·0	35·0	33·2	0·6	3·5	0·0	−12·7	Calm	NE	0·0	0·0	0·0	30	0·00
12	..	29·387	36·0	23·2	29·2	24·5	39·0	18·0	34·8	33·2	4·7	6·4	3·1	— 9·4	NE	NNE	1·7	0·0	0·2	75	0·00
13	Greatest Declination S.	29·276	30·0	23·2	25·5	21·8	37·2	23·0	34·8	33·3	3·7	9·4	0·9	−13·2	NNE	NE	0·0	0·0	0·0	55	0·00
14	..	29·239	34·0	13·8	24·5	22·5	38·0	12·0	34·5	33·2	2·0	5·5	0·6	−14·2	N	N	0·0	0·0	0·0	60	0·00
15	..	29·707	31·0	22·5	26·5	22·8	34·0	21·0	34·4	33·5	3·7	6·8	0·0	−12·3	N	N	0·0	0·0	0·0	15	0·00
16	Perigee. New.	29·789	32·8	19·2	24·5	19·7	37·2	18·0	..	..	4·8	7·7	0·0	−14·4	Calm	E	2·9	0·0	0·5	140	0·00
17	..	29·788	29·8	18·0	21·8	16·7	33·5	19·0	..	..	5·1	12·2	3·4	−17·2	ENE	NE	3·5	0·0	0·4	30	0·00
18	..	29·889	31·7	13·1	21·1	13·4	40·0	..	..	..	7·7	11·0	3·4	−18·0	Calm	Calm	0·0	0·0	0·0	5	0·00
19	In Equator	29·836	33·4	11·1	23·3	19·9	42·5	..	..	..	3·4	4·2	2·6	−15·9	Calm	NE	0·0	0·0	0·0	15	0·00
20	..	29·595	35·0	19·3	25·8	22·7	49·0	17·4	..	..	3·1	7·0	2·5	−13·5	N	NE	0·0	0·0	0·0	55	0·00
21	..	29·748	32·0	18·8	24·8	18·9	43·0	12·0	..	..	5·9	11·6	0·0	−14·5	NE	Calm	0.0	0·0	0·0	35	0·00
22	..	29·838	37·0	17·8	26·8	23·1	55·0	15·0	..	..	3·7	8·0	3·1	−12·6	Calm	Calm	0·0	0·0	0·0	30	0·00
23	First Qr.	29·797	36·0	24·8	30·2	26·7	40·0	20·8	..	..	3·5	5·5	1·0	— 9·3	Calm	Calm	0·0	0·0	0·0	95	0·10
24	..	29·750	41·2	29·3	34·8	28·8	58·0	25·0	..	..	6·0	8·0	0·8	— 4·8	Calm	SW	0·0	0·0	0·0	95	0·00
25	..	29·258	48·4	30·5	42·3	41·8	50·5	30·0	..	..	0·5	1·0	0·0	+ 2·6	SW; S	SW; S	2·5	0·0	0·3	80	0·16
26	Greatest Declination N.	29·453	43·8	34·5	36·8	36·3	44·0	35·0	..	..	0·5	1·0	0·0	— 3·0	Calm	N	0·0	0·0	0·0	55	0·05
27	..	29·619	37·8	32·4	35·0	34·2	41·0	32·0	..	..	0·8	2·8	0·5	— 4·9	Calm; SE	SSE	0·0	0·0	0·0	50	0·12
28	Apogee.	29·670	47·8	35·7	40·9	40·4	49·5	34·0	..	..	0·5	2·2	0·2	+ 1·0	Calm	SW	0·0	0·0	0·0	130	0·01

January 17 to February 4. Whewell's Anemometer was under repair.

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1	m	m	10 fr-m-r	10 fr.-m.-r
2	m	m	10, m-r	10, m.-r
3	m	m	10	10, cu, cu.-s, ci.-s
4	m	m	10	10, s, ci.-s
5	m	m	3, s, ci.-s, li.-cl	3, ci.-cu : 10, ci.-s
6	m	m	10	10
7	s	s	10	10
8	s	s	10	10 : sl.-r
9	s	s	9, ci.-cu, ci.-s	10 : sl.-r
10	s, sps	s, sps	10, f	10, s : v, th.-f
11	s, sps	s, sps	10, th.-f, h.-fr	10, f : v
12	s, sps	s, sps	10, f : th.-f	10 : r
13	s	s, sps	7, cu.-s, ci.-s, sl.-r : 10	10 : 7, li.-cl
14	m	m	10, f	10 : o
15	s, sps	s, sps	10, th.-f, h.-fr : sl.-sn	10, s, ci.-s
16	s	s	10, sn, sl.-r	10, ci.-cu, ci.-s, sc : sn
17	s	s	v, ci.-cu, ci.-s	v, ci.-s, sn
18	s	s : N, w	7, ci.-cu, ci.-s, li.-cl	7, ci.-cu, ci.-s : 10, sn
19	s	s	o : 7, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
20	o	o	10	10
21	v	v	10, sn : 7	7 : 10
22	v	v	10, sn	10, ci.-s : 9
23	v	v	10, sn	10
24	v	v	7 : 10	10
25	v	v	10, s, ci.-s, li.-cl	10
26	v	v	10, f	10
27	v	v	7 : o	o
28	v	v : s, sps	10, sl.-sn	10
29	N, sps, g cur	v	10, f : sn	7, ci.-s, li.-cl : 10, lu.-co
30	v	v	10, sn	10, sn
31	v	v	10, sn	10, sn
Feb. 1	v	v	7, ci.-cu, ci.-s : 10	10
2	v	v	7, ci.-cu, ci.-s : 10	10
3	v	v	10	10
4	v	v	10, f : gt.-glm	10
5	s, sps : N, s, sps	N, s, sps : s	7 : 10, th.-r	10, gt.-glm : m.-r
6	v	N, P, sps, g cur : v	10, sl.-sn	10, sn, r
7	s	s	10	10
8	s, sps	s, sps	10, sl.-sn	10, sn
9	m	m	10	10
10	s, sps	s, sps	o	3, ci.-cu, ci.-s : o
11	s, sps	s, sps	10, s, ci.-s	o : 10
12	s	s	o	o : v, s, ci.-s
13	s	s	10, ci.-s, sn	10, sn
14	s, sps	s, sps	7, ci.-s	7, s, ci.-s : v
15	s, sps	s, sps	o	o : v, sn
16	s	s	o	7, ci.-cu, ci.-s : 10
17	s, sps	s, sps	7, cu.-s, ci.-s, sc, sn	7, ci.-cu, ci.-s : o
18	s	s	7, ci.-cu, ci.-s	o
19	s, N, sps	s	10, ci.-s	10
20	s	s	7, ci.-cu, li.-cl : o	o
21	s, sps	s, sps	10, sn : 7	10, ci.-cu, ci.-s, li.-cl, sn
22	s, sps	s	7, ci.-cu, ci.-s	7, ci.-cu
23	s, sps	s, sps	10, sn	10 : f
24	v	v	10 : o	o : 10, s, ci.-s
25	m	m	10, r	10, r
26	v, sps	v, sps	10, oc.-r	10, oc.-r
27	m	m	10, sn, r	10, r
28	s, sps	s, sps	10	10, r : 8, lu.-co

MONTH and DAY, 1855.	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.
Mar. 1	..	29·460	53·6	37·5	43·4	39·1	67·5	29·0	..	..	4·3	10·5	1·2	+ 3·4	SW	SW	5·0	0·0	0·5	225	0·12
2	..	29·082	52·0	38·5	45·3	43·5	58·0	33·9	..	..	1·8	4·8	1·2	+ 5·3	SW	SW	5·0	0·0	0·8	234	0·23
3	Full	28·963	49·9	37·4	41·9	35·7	58·0	33·0	..	..	6·2	11·0	4·6	+ 1·9	SW	W	5·5	0·0	2·1	255	0·12
4	..	29·488	50·6	33·7	41·7	36·9	67·0	27·5	..	..	4·8	12·0	0·8	+ 1·8	WSW	SW; S	0·0	0·0	0·0	20	0·00
5	In Equator	29·630	51·1	33·0	41·1	33·9	65·3	27·5	..	..	7·2	14·1	1·4	+ 1·1	S	S; Calm	0·0	0·0	0·0	10	0·00
6	..	29·745	51·2	32·0	39·1	35·8	65·0	22·0	..	..	3·3	12·4	1·8	— 0·6	Calm	E	0·0	0·0	0·0	5	0·00
7	..	29·733	46·3	29·3	35·0	34·5	63·5	18·8	..	..	0·5	10·4	0·0	— 4·7	E	E	0·0	0·0	0·0	55	0·00
8	..	29·978	46·2	27·3	35·4	30·5	65·0	15·8	..	..	4·9	14·5	3·0	— 4·5	NNE	NE ; Calm	0·0	0·0	0·0	20	0·00
9	..	29·865	40·0	26·3	31·9	28·8	55·0	17·0	..	..	3·1	9·0	2·6	— 8·6	Calm	NE; SE	0·0	0·0	0·0	30	0·00
10	..	29·685	33·8	24·5	27·7	27·1	34·0	28·0	..	..	0·6	6·3	0·0	—12·7	SE	E	0·0	0·0	0·0	15	0·00
11	Last Qr.	29·384	36·3	24·5	31·2	25·6	43·8	16·5	..	..	5·6	6·8	3·2	— 9·5	SE		0·0	0·0	0·0	75	0·10
12	Greatest Declination S.	28·798	45·3	30·2	37·2	35·7	45·5	30·0	..	..	1·5	9·2	0·7	— 3·7	SW	NW	5·2	0·0	1·3	180	0·33
13	..	29·169	46·4	35·0	40·2	30·8	54·0	31·0	..	..	9·4	15·6	5·7	— 1·0	NW	NW	2·5	0·0	0·5	135	0·05
14	..	29·506	43·2	31·3	36·8	33·5	49·0	29·0	..	..	3·3	7·4	2·1	— 4·6	Calm	S	0·0	0·0	0·0	70	0·00
15	..	29·629	45·8	31·5	37·6	32·8	58·0	27·4	..	..	4·8	13·8	2·0	— 3·9	SE	SSE	0·0	0·0	0·0	205	0·00
16	Perigee	29·506	53·3	36·8	43·6	37·6	68·6	32·5	..	..	6·0	12·6	4·0	+ 1·9	S; W	WSW; S	3·4	0·0	0·5	200	0·15
17	..	29·383	49·0	37·6	42·8	40·2	52·0	32·0	..	..	2·6	6·2	1·4	+ 1·0	S	S; W	7·5	0·0	1·4	320	0·07
18	New In Equator.	29·600	48·9	34·9	42·1	35·4	63·0	30·0	..	..	6·7	9·2	4·2	+ 0·3	WSW	WSW	5·8	0·0	1·9	205	0·04
19	..	29·808	52·0	35·9	44·0	41·9	63·3	28·0	..	..	2·1	5·9	1·0	+ 2·1	SW	SW	0·0	0·0	0·0	45	0·01
20	..	29·613	57·8	33·5	43·4	39·8	78·0	26·4	..	..	3·6	10·6	0·0	+ 1·4	SW; NE	ESE	0·0	0·0	0·0	115	0·00
21	..	29·164	45·0	34·2	37·5	33·2	60·5	35·0	..	..	4·3	8·3	3·1	— 4·6	E	ENE	3·6	0·0	1·5	180	0·00
22	..	28·761	35·8	32·2	33·5	33·2	37·0	32·8	..	..	0·3	3·1	0·0	— 8·7	NE	NE	3·1	0·0	0·8	175	0·23
23	..	28·977	38·0	32·5	34·3	29·4	42·0	32·3	..	..	4·9	8·3	3·4	— 8·0	N	N	0·0	0·0	0·0	85	0·00
24	..	29·178	38·1	28·8	32·7	27·2	41·3	24·1	..	..	5·5	9·7	2·0	— 9·7	N	NE	0·0	0·0	0·0	95	0·00
25	First Quarter Greatest Dec. N.	29·391	43·8	27·4	34·5	30·3	59·2	21·0	..	..	4·2	12·2	1·9	— 8·0	NE	NNE	0·0	0·0	0·0	95	0·00
26	..	29·548	46·8	25·6	35·5	28·5	65·0	17·0	..	..	7·0	13·6	3·9	— 7·2	Calm	NNE	0·0	0·0	0·0	15	0·00
27	..	29·729	47·0	32·3	38·1	32·8	53·0	29·8	..	..	5·3	13·2	3·5	— 4·7	Calm	Calm	0·0	0·0	0·0	5	0·00
28	Apogee	30·011	43·5	31·0	36·4	34·8	54·0	21·4	..	..	1·6	6·7	0·0	— 6·6	Calm	E	0·0	0·0	0·0	10	0·01
29	..	30·320	47·0	30·9	36·4	30·9	64·0	31·2	..	..	5·5	9·6	0·8	— 6·8	NNE	NE; Calm	0·0	0·0	0·0	40	0·00
30	..	30·318	48·0	30·5	37·5	33·7	60·0	20·3	..	..	3·8	12·0	0·8	— 5·8	N	N	0·0	0·0	0·0	25	0·00
31	..	30·266	47·8	30·3	37·0	32·0	68·0	19·5	..	39·5	5·0	13·6	2·8	— 6·4	N	NE	0·0	0·0	0·0	20	0·00
Apr. 1	..	30·131	48·8	27·1	36·2	31·8	73·0	17·0	..	..	4·4	13·6	3·3	— 7·4	Calm; N	E	0·0	0·0	0·0	15	0·00
2	In Equator Full.	29·969	46·9	25·9	32·7	30·4	69·0	19·0	..	39·0	2·3	9·1	1·5	—11·0	Calm	SE	0·0	0·0	0·0	30	0·00
3	..	29·538	51·5	31·1	40·3	37·7	66·5	23·0	..	39·5	2·6	9·9	1·9	— 3·6	SE	SE	2·5	0·0	0·1	95	0·03
4	..	29·632	53·2	36·8	41·7	38·6	68·5	37·6	..	40·1	3·1	8·8	2·6	— 2·3	NE	ENE	0·0	0·0	0·0	50	0·01
5	..	29·928	57·0	27·8	41·3	36·5	63·0	19·7	..	40·5	4·8	12·2	3·1	— 2·9	Calm	W; Calm	0·0	0·0	0·0	20	0·00
6	..	29·988	63·8	37·9	50·9	44·8	81·8	30·3	..	41·5	6·1	16·2	3·3	+ 6·5	SW	W	0·0	0·0	0·0	70	0·00
7	..	29·978	59·0	45·7	50·0	38·3	78·7	41·5	..	42·5	11·7	20·9	8·0	+ 5·5	W	NW	0·0	0·0	0·0	120	0·00
8	Greatest Declination S.	29·889	51·5	37·2	44·0	35·7	66·0	26·8	..	43·5	8·3	14·7	1·7	— 0·7	W	WNW	3·1	0·0	0·6	210	0·00
9	Last Qr.	29·498	55·0	40·0	46·7	43·0	62·0	35·4	..	44·0	3·7	8·4	3·1	+ 1·9	SW	SW	6·0	0·0	1·9	295	0·00
10	..	29·144	53·2	40·8	45·6	34·8	68·0	31·0	..	44·0	10·8	19·7	1·2	+ 0·6	WSW	W	14·4	0·0	2·2	285	0·03
11	..	29·401	54·8	40·5	45·5	38·1	69·5	31·2	..	..	7·4	12·8	3·5	+ 0·4	W	WNW; WSW	5·1	0·0	1·2	200	0·00
12	..	29·435	61·5	42·8	50·1	39·8	82·5	35·0	..	..	10·3	15·1	4·1	+ 4·8	W	WSW	2·0	0·0	0·2	140	0·00
13	Perigee	29·447	54·5	45·2	48·2	47·1	60·5	40·0	..	..	1·1	3·6	0·7	+ 2·7	S	S	0·0	0·0	0·0	70	0·02
14	..	29·822	63·0	42·8	50·4	40·9	85·0	35·0	..	..	9·5	15·7	4·8	+ 4·7	SW	W	0·0	0·0	0·0	90	0·00
15	In Equator	30·047	64·0	43·3	53·3	47·5	81·8	36·2	..	..	5·8	10·9	4·2	+ 7·4	SW	SW	3·0	0·0	0·0	130	0·00
16	New	30·133	72·8	45·1	56·9	51·0	111·5	40·0	..	..	5·9	15·3	1·4	+10·9	SW	SW	0·0	0·0	0·0	45	0·00
17	..	30·222	65·2	42·7	51·9	43·3	86·0	40·0	..	..	8·6	15·5	5·5	+ 5·6	NE	ENE	0·0	0·0	0·0	75	0·00
18	..	30·193	54·3	33·2	42·9	36·2	77·0	25·0	..	..	6·7	15·0	2·2	— 3·6	NE	Calm	0·0	0·0	0·0	55	0·00
19	..	29·961	65·5	29·2	47·2	38·8	90·0	30·5	..	..	8·4	19·5	7·4	+ 0·4	NE	Calm	0·0	0·0	0·0	30	0·00
20	..	30·105	62·7	41·0	49·6	37·6	86·0	41·3	..	..	12·0	21·4	5·0	+ 2·6	N	N; E	0·0	0·0	0·0	80	0·00
21	..	30·377	54·7	32·0	41·9	31·8	77·2	20·0	..	..	10·1	19·6	5·0	— 5·4	NE	NE	0·0	0·0	0·0	85	0·00
22	Greatest Declination N.	30·384	51·6	29·6	39·9	34·9	71·0	20·7	..	..	5·0	16·0	3·0	— 7·6	NE	NE	2·0	0·0	0·1	85	0·00
23	..	30·333	58·6	31·7	43·8	37·1	62·5	27·0	..	..	6·7	16·7	2·2	— 4·0	NE	E	0·0	0·0	0·0	50	0·00
24	First Qr.	30·154	68·0	29·7	48·6	35·6	90·0	25·0	..	..	13·0	25·1	2·4	+ 0·4	Calm	N	0·0	0·0	0·0	160	0·00
25	Apogee	30·010	51·2	39·3	42·6	37·3	68·0	35·5	..	..	5·3	13·0	4·8	— 5·9	N	N	5·5	0·0	0·7	80	0·00
26	..	30·093	58·0	33·1	43·4	37·4	87·6	21·0	..	..	6·0	16·9	5·3	— 5·4	N	N	0·0	0·0	0·0	10	0·00
27	..	30·045	58·6	36·7	45·2	39·7	85·6	32·8	..	..	5·5	16·7	3·3	— 4·0	NE	Calm	0·0	0·0	0·0	10	0·00
28	..	29·961	60·0	35·8	44·7	39·2	80·0	24·8	..	..	5·5	16·0	2·1	— 4·8	Calm	N	0·0	0·0	0·0	60	0·00
29	In Equator.	30·070	54·8	37·7	43·2	39·1	69·0	36·0	..	..	4·1	9·6	3·3	— 6·7	N	NNW	2·5	0·0	0·2	170	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1	w	w	10, r	8, ci.-cu, ci.-s : v, lu.-co, lu.-ha
2	m	m	10, s, ci.-s, r	10, s, ci.-s : h.-r
3	s N, s P, sps	s N, s P, sps	v, s, ci.-s, li-cl, th-r	v, s, ci.-s, r : o
4	m	m	3, ci.-cu, ci.-s, li.-cl	3, cu.-s, ci.-s : 10, lu.-co
5	v, sps	v, sps	o : 10, so-ha	v, ci.-cu, ci.-s : o
6	s, sps	s, sps	3, s, f	3, ci.-cu, ci.-s : o
7	s, sps	s, sps	10, f, h-f	5, cu.-s, ci.-s, f : o
8	v, sps	v, sps	7, s, ci.-s, li.-cl	9, ci.-cu, ci.-s : o
9	s, sps	s, sps	10, f, h-fr	10, cu.-s, ci.-s, sn
10	s, sps	s, sps	10, sn	10, sn : v
11	s	s	10, sn	10, sl
12	s N, s P, sps	s N, s P, sps	10, ci.-cu., ci.-s	10, h.-r
13	w	w	8 : 10	10
14	s, sps	s, sps	10	10, ci.-s, m.-r
15	s, sps	s	o : 10, cu.-s, ci.-s.	10 : th.-r
16	m	w : s, sps	v, cu, ci.-cu, r	v, cu, ci.-cu : o
17	N, w : o	o	10, r	10, r
18	o	o	v, cu, cu.-s, h.-shs	v, ci.-s, hl, r
19	o	o	10 : m.-r	10, m.-r
20	w	v	7, ci.-cu, ci.-s, li.-cl	7 : 10 m.-r
21	m	s	10	10
22	s P, s N, sps	w	10, sl, h.-r, sn	10, sn, r
23	w	w : s, sps	10	10
24	v	v	10	10
25	s	s	v, cu, ci.-cu, ci.-s	v : lu•co
26	v, sps	v, sps	o	v, cu, cu.-s
27	v, sps	v, sps	10, f	10, ci.-s, sc
28	P, N, v	P, N, v	10, sn	10, sn : r
29	v, sps	v, sps	10	5 : 10
30	v, sps	v, sps	10 : v	v
31	s, sps	s, sps	10, cu, ci.-cu	3, cu : o
Apr. 1	s, sps	m	3, ci.-s, sc : 10	10, ci.-cu, ci.-s
2	o : m	o	10 : v, s, ci.-s, li.-cl	v, cu.-s
3	o	o	10, r	10 : r
4	o	o	10, r	v : o
5	o	m	o	v : o, f
6	s, sps	s, sps	3, s, ci.-s, li-cl	3 : 10
7	s	m	10	5, ci.-s, li.-cl : 10
8	o	o	10	10 : r
9	o	o	10	10 : sh.-r : 10
10	o	o	10, h-r : 5	5
11	o	o	10, ci.-s, sc, shs.-r	9, ci.-cu, ci.-s, r : 10
12	o	o	7, ci.-s	o : 10
13	o	o	10 : r	10, r : 3
14	o	o	10, s, ci.-s, h : 5	5 : 2, li.-cl
15	o	o	10	o
16	o	o	3, ci : o	o
17	o	s	o	o
18	s	s, sps	o	o
19	s	m	o	o
20	m	m	o	o
21	w	w	o	3, cu : o
22	w	w	o	o : 3, ci.-cu.
23	s	m	o : cu	o
24	m	w	o, h	10, s, ci.-s, li.-cl
25	o	o	10	v
26	o	o	7	7, cu.-s, ci.-s : 10
27	o	o	10, s, ci.-s, li.-cl	5 : o
28	o	o	7, sl.-r : 10, cu.-s, ci.-s	10
29	o	o	10, cu.-s, ci. s, sl.-r	9 : 10, cu.-s, ci.-s.

MONTH and DAY, 1855.	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.
Apr. 30	..	30·090	55·0	40·0	44·0	41·2	65·7	39·5	..	..	2·8	12·8	0·0	— 6·3	N	NNE	0·0	0·0	0·0	70	0·00
May 1	..	29·929	56·0	36·7	42·4	40·2	60·5	28·2	..	..	2·2	8·4	3·3	— 8·4	N	NE	0·0	0·0	0·0	75	0·00
2	Full	29·852	62·5	36·1	47·8	38·6	84·5	26·2	..	..	9·2	16·0	1·8	— 3·1	NE	NE	0·0	0·0	0·0	125	0·00
3	..	29·531	63·0	28·7	46·4	37·4	76·5	22·8	..	..	9·0	16·8	5·5	— 5·1	N	NE	4·5	0·0	0·5	165	0·00
4	..	29·630	50·3	36·0	40·8	31·7	68·0	35·0	..	..	9·1	15·5	3·4	—11·0	N	NNE	0·0	0·0	0·0	115	0·00
5	..	29·804	63·6	28·3	43·5	35·4	76·5	12·8	..	..	8·1	18·8	5·5	— 8·5	NE	NE; SE	4·0	0·0	0·3	15	0·00
6	Greatest Declination S.	29·825	63·8	37·1	50·0	41·8	79·2	30·5	..	..	8·2	12·9	6·7	— 2·2	SW	SW	3·0	0·0	0·3	155	0·00
7	..	29·722	60·4	41·7	50·7	43·1	77·5	37·0	..	48·7	7·6	14·0	2·4	— 1·5	SW	SW	5·0	0·0	0·9	145	0·00
8	..	29·708	55·0	39·0	45·4	35·4	72·5	37·0	..	48·7	10·0	13·9	4·0	— 6·7	NW; W	NW	5·5	0·0	0·5	135	0·07
9	Last Quarter Perigee.	29·776	60·1	31·5	45·5	36·3	85 0	20·5	..	49·2	9·2	17·9	1·8	— 6·5	S	SW; S	2·0	0·0	0·2	235	0·07
10	..	29·378	65·8	42·9	51·9	45·3	80·0	..	..	49·2	6·6	15·4	3·6	0·0	SW	SW	3·5	0·0	0·5	180	0·09
11	..	29·340	60·8	42·5	47·4	43·3	86·0	40·0	52·5	50·5	4·1	13·0	1·9	— 4·4	SW	SW	4·0	0·0	0·3	185	0·29
12	In Equator	29·702	50·5	36·7	42·4	34·5	63·0	30·0	52·5	50·4	7·9	14·3	6·7	— 9·3	NW	NW; Calm	1·5	0·0	0·0	160	0·00
13	..	29·370	47·2	35·5	41·2	37·8	52·0	30·0	52·0	50·0	3·4	6·0	1·2	—10·5	S; SE	NE; N	4·0	0·0	0·6	190	0·35
14	..	29·556	50·5	38·5	43·5	37·7	59·7	27·5	51·5	49·4	5·8	12·4	2·6	— 8·4	N	NE	2·0	0·0	0·0	80	0·03
15	..	29·433	50·8	34·7	42·0	39·1	63·0	27·5	51·1	49·2	2·9	10·9	2·0	—10·3	NE	N	0·0	0·0	0·0	130	0·00
16	New	29·606	50·0	41·7	45·1	40·3	58·5	40·8	50·5	49·2	4·8	9·7	3·1	— 7·4	N	N	0·0	0·0	0·0	70	0·03
17	..	29·818	61·0	37·8	46·5	41·4	83·5	26·8	50·0	49·0	5·1	15·8	1·5	— 6·4	NW	Calm	0·0	0·0	0·0	25	0·01
18	..	29·979	62·5	39·2	49·6	42·0	66·4	..	50·5	49·2	7·6	17·5	2·0	— 3·6	SW	SW	0·0	0·0	0·0	60	0·00
19	Greatest Declination N.	29·853	66·5	43·7	54·1	45·7	87·5	39·0	51·0	49·4	8·4	19·0	6·4	+ 0·7	S	S; E	0·0	0·0	0·0	75	0·00
20	..	29·722	65·5	46·8	56·0	44·2	85·8	43·1	52·5	50·0	11·8	15·8	2·6	+ 2·2	E	ENE	2·5	0·0	0·2	90	0·00
21	..	29·683	53·2	39·5	46·0	42·3	63·0	27·2	53·5	50·9	3·7	11·2	2·9	— 8·0	N	N	0·0	0·0	0·0	55	0·01
22	..	29·721	59·2	43·5	49·9	45·5	72·5	44·1	53·5	51·1	4·4	11·9	0·9	— 4·4	N	Calm; S	0·0	0·0	0·0	55	0·00
23	Apogee	29·673	61·0	41·8	50·0	45·4	84·0	34·8	53·7	51·4	4·6	12·4	1·2	— 4·5	S	S	0·0	0·0	0·0	85	0·00
24	First Qr.	29·660	68·5	55·0	58·9	52·1	94·7	35·7	54·5	51·7	6·8	16·2	5·2	+ 4·1	SE	SE	0·0	0·0	0·0	105	0·00
25	..	29·725	79·0	45·5	61·7	53·4	101·5	35·0	56·4	53·2	8·3	15·9	2·5	+ 6·7	SE	SE; E	0·0	0·0	0·0	50	0·00
26	In Equator	29·721	81·5	50·3	65·3	56·3	105·0	41·8	56·5	53·2	9·0	17·6	6·7	+10·0	NE	NE	2·0	0·0	0·1	165	0·00
27	..	29·598	72·8	54·4	61·5	54·7	..	50·0	57·9	54·7	6·8	12·9	4·6	+ 6·0	ENE	NE	0·0	0·0	0·0	120	0·00
28	..	29·717	57·2	48·8	51·3	49·6	58·3	49·0	58·5	55·5	1·7	6·8	0·0	— 4·5	NE; SW	N	0·0	0·0	0·0	105	0·18
29	..	29·749	57·0	40·8	45·7	37·4	76·0	31·8	58·9	55·7	8·3	14·3	4·3	—10·2	N	N	4·5	0·0	0·4	165	0·00
30	..	29·769	52·0	39·2	43·7	37·7	68·0	38·0	58·4	55·5	6·0	10·1	5·3	—12·5	N	N	4·9	0·0	1·2	150	0·02
31	Full	29·423	52·4	40·2	45·4	44·5	52·5	38·8	58·1	54·7	0·9	1·8	0·0	—11·0	N	N; SE	3·8	0·0	0·6	165	0·59
June 1	..	29·723	52·5	45·6	48·0	41·4	59·0	45·5	57·9	53·9	6·6	8·8	5·1	— 8·5	S	SSW	1·5	0·0	0·0	85	0·00
2	Greatest Declination S.	29·865	62·2	39·8	50·0	41·0	79·2	31·0	57·1	53·7	9·0	12·0	2·9	— 6·8	S	SW	0·0	0·0	0·0	60	0·00
3	..	29·779	64·0	39·3	53·2	42·4	88·0	29·5	56·9	53·7	10·8	14·3	2·3	— 3·8	Calm	SW	0·0	0·0	0·0	45	0·00
4	Perigee	29·756	64·0	49·1	55·9	48·3	84·0	46·0	56·4	53·7	7·6	11·6	5·2	— 1·2	SW	SW	2·7	0·0	0·5	160	0·00
5	..	29·764	68·0	51·9	58·1	49·5	86·0	48·0	56·1	53·7	8·6	13·4	8·1	+ 0·8	SSW	S; SE	2·7	0·0	0·2	70	0·02
6	..	29·638	83·5	57·8	71·4	52·9	107·5	41·5	58·1	54·3	18·5	26·4	6·9	+13·9	SE	SE	2·7	0·0	0·4	105	0·00
7	Last Qr.	29·764	72·6	53·0	57·6	52·3	83·5	53·0	59·9	54·7	5·3	15·6	3·2	— 0·1	WSW	SW	0·0	0·0	0·0	50	0·08
8	In Equator	29·828	69·8	50·0	58·1	47·8	92·0	44·0	..	..	10·3	16·2	3·3	+ 0·2	Calm	SSW	0·0	0·0	0·0	120	0·00
9	..	29·926	65·2	48·4	55·1	45·3	75·2	41·5	..	..	9·8	15·8	2·2	— 3·0	SW	SW	0·0	0·0	0·0	150	0·00
10	..	30·079	72·2	45·4	57·5	48·4	103·0	35·8	..	..	9·1	12·6	4·1	— 0·8	SW	SW; Calm	0·0	0·0	0·0	20	0·00
11	..	30·082	72·5	46·7	59·0	45·9	95·2	39·5	..	..	13·1	19·4	2·9	+ 0·5	Calm	NE	0·0	0·0	0·0	65	0·00
12	..	29·884	67·0	47·5	57·6	47·7	78·0	36·8	63·4	59·7	9·9	14·6	6·3	— 1·2	NE	NE	0·0	0·0	0·0	30	0·00
13	..	29·453	72·2	52·4	58·6	55·7	85·0	51·0	62·9	59·7	2·9	9·1	2·2	— 0·3	Calm	E; SW	2·7	0·0	0·2	100	0·17
14	New	29·386	62·0	49·5	52·2	48·0	73·0	43·0	63·1	60·2	4·2	12·6	2·0	— 6·8	SW	SW	2·6	0·0	0·2	175	0·04
15	Greatest Declination N.	29·189	62·8	49·7	54·1	49·5	77·8	49·0	62·9	59·9	4·6	10·8	3·0	— 5·1	S	SSW	2·7	0·0	0·8	130	0·15
16	..	29·263	61·5	44·8	49·5	46·8	78·0	37·0	62·4	59·7	2·7	10·5	2·2	— 9·9	S	SW; W	0·0	0·0	0·0	90	0·19
17	..	29·786	57·2	47·3	49·8	42·9	78·2	43·5	61·9	58·7	6·9	12·4	3·3	— 9·7	NW; N	NW	3·0	0·0	0·4	100	0·01
18	..	29·863	60·0	40·0	48·8	44·2	78·0	31·0	61·5	58·2	4·6	13·4	0·0	—10·9	SW	SW	3·5	0·0	0·2	120	0·06
19	Apogee	30·028	61·0	45·3	51·5	41·2	77·0	44·0	60·9	58·2	10·3	14·2	9·0	— 8·4	NE	N	0·0	0·0	0·0	60	0·01
20	..	30·253	63·5	39·7	50·7	38·7	89·0	31·0	60·9	57·7	12·0	17·6	5·5	— 9·4	NNE	NE	0·0	0·0	0·0	85	0·00
21	..	30·183	70·2	39·5	54·6	43·0	97·0	26·0	59·9	56·7	11·6	17·8	1·4	— 5·7	NE	NE	0·0	0·0	0·0	70	0·00
22	First Qr	30·072	74·0	41·3	58·5	45·5	101·5	30·8	59·9	57·2	13·0	21·0	7·9	— 1·9	NE	N	0·0	0·0	0·0	75	0·00
23	In Equator	30·033	67·2	51·3	56·7	52·9	84·5	50·0	60·7	57·9	3·8	8·5	1·9	— 3·9	N	N	0·0	0·0	0·0	80	0·00
24	..	30·110	69·0	49·5	58·7	45·9	94·8	36·2	61·4	58·7	12·8	15·8	2·0	— 2·0	NW	N; W	0·0	0·0	0·0	90	0·00
25	..	30·021	70·0	47·7	58·2	48·7	93·5	36·5	62·5	59·2	9·5	14·2	7·4	— 2·7	W	W; SW	2·5	0·0	0·3	140	0·00
26	..	30·100	76·2	53·0	62·7	56·1	97·0	41·5	62·9	59·7	6·6	15·8	3·1	+ 1·7	SW; W	W; NW	0·0	0·0	0·0	25	0·00
27	..	30·229	80·5	56·4	66·8	55·0	94·5	45·0	63·9	60·5	11·8	20·1	2·9	+ 5·6	Calm	Calm	0·0	0·0	0·0	5	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Apr. 30	o	o	10, r	10 : v
May 1	o	o	10, ci-s : th.-r	5, ci.-cu : o
2	o	o	o	o
3	o	o	o	8, cu.-s, ci.-s : 10
4	o	o	10	10 : o
5	o	o	7, cu, cu.-s, sc	v, cu, ci.-cu : h
6	o	o	10, ci-s, sc : v	v
7	o	o	10, r	10 : 10, shs.-r
8	o	o	7, ci.-s, sc, shs.-r	7, shs.-r : o, h
9	o	s	9, ci.-cu, ci.-s, li.-cl	10 : r
10	m, N	w	10, ci.-s, sc, r	10
11	w, s, N, sps, g cur	s, N, sps, g cur	10, n, s, ci.-s, shs.-r	10, cu, cu.-s, shs.-r, t : f
12	o	o	10, cu, sc	10
13	o	o	10, r	10, r
14	o	o	10, r	9 : 10
15	w	w	10	10 : r
16	w	w	10	10 : o, h
17	o	o	5, ci.-cu, ci	10, ci.-cu, ci.-s, shs.-r, f
18	o	o	o, h : 10, cu.-s, ci.-s	7 : o
19	o	s	9, s, ci.-s, li.-cl	7, ci.-cu, s, li.-cl
20	m	m	5, ci.-cu, ci	10, ci.-cu, ci.-s
21	m	o	10, th.-r	10, r
22	o	o	10	10 : v
23	o	w	o	10 : o
24	m	o	7, s, ci.-s	10 : r
25	o	o	8, s, ci.-s, li.-cl : o	o
26	m	s	o	v, cu, ci.-cu, ci.-s, : lu.-co
27	o	o	3, ci	3 : 10, ci.-cu, ci.-s
28	o	o	10, r	10, r
29	o	o	10, r	9 : 10, r
30	s, N, sps	s, sps	9 : r	10, fr.-h.-shs
31	o	o	10, r	10
June 1	o	o	10	10 : 8
2	w	w	10	9, s, ci.-s, li.-cl : 10
3	s, sps	m	10, ci.-s, sc	7 : 10
4	o	o	7, cu, ci, sl.-r	7 : 10
5	o	o	10	10 : v
6	s	s	o	o : 10
7	o	o	10, h.-r : 10, oc.-shs	10, s, ci.-s
8	o	o	6, shs.-r	6, cu, cu.-s, sc
9	s, N, sps	o	7, cu, cu.-s, ci.-s, shs.-r	5, shs.-r : o
10	o	o	3, ci.-cu, ci.-s	o
11	o	m	o	o
12	m	m	9, ci.-cu, ci.-s, li.-cl	10
13	w	m	10, sl.-r	10 : ci.-s, sc, h.-shs.-r
14	w	o	10, r	9 : 10
15	o	o	v, r	v, h.-s, hs.-r
16	m	o	v, r, cu, ci.-s, hl, r	v, h.-shs.-r : 10, n, ci.-s, oc.-r
17	o	w	10, r	v, cu, cu.-s : 10, shs.-r
18	o	o	10 : 10, sl.-r	10, m.-r
19	o	o	7, cu, cu.-s	5, ci.-cu : o
20	o	o	8, cu, cu.-s	o
21	o	o	v, cu.-s, ci.-s, sc	o
22	o	o	o	10
23	o	o	10	10, sl.-r : o
24	o	o	3	3, s, ci, li.-cl
25	o	o	10	10
26	o	o	v	o : v
27	o	s	5, cu, cu.-s	5

MONTH and DAY, 1855.	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.	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.
June 28	..	30·111	78·0	50·5	63·8	54·6	98·0	38·0	64·7	60·9	9·2	18·6	3·4	+ 2·5	Calm	NE ; E	0·0	0·0	0·0	70	0·00
29	Greatest Dec. S. Full.	29·872	79·0	51·4	65·3	55·2	103·5	37·6	65·9	62·2	10·1	17·6	3·2	+ 3·8	ENE	E	0·0	0·0	0·0	90	0·00
30	..	29·891	76·5	58·2	65·3	54·4	105·0	51·0	66·9	62·9	10·9	16·2	5·7	+ 3·6	E ; SW	SW	1·5	0·0	0·0	130	0·00
July 1	Perigee	30·059	73·0	51·7	62·1	54·1	90·0	43·0	66·9	62·9	8·0	13·2	4·9	+ 0·3	SW	SW ; S	0·0	0·0	0·0	65	0·00
2	..	30·066	75·9	58·8	65·8	60·2	99·0	57·0	67·4	63·2	5·6	12·3	4·0	+ 3·8	SW ; W	SW	0·0	0·0	0·0	50	0·00
3	..	30·038	77·2	57·9	67·3	50·6	103·0	50·7	67·4	63·7	16·7	19·8	10·2	+ 5·2	N	N	0·0	0·0	0·0	70	0·00
4	..	29·993	77·0	57·5	63·9	56·3	..	52·0	68·1	64·7	7·7	16·9	2·1	+ 1·7	NW ; N	NE	0·0	0·0	0·0	40	0·00
5	..	29·944	79·0	43·7	60·4	51·7	..	40·0	68·9	65·2	8·7	18·5	6·3	— 1·9	Calm ; NE	N ; E	0·0	0·0	0·0	20	0·00
6	In Equator	29·915	76·0	50·1	61·8	55·6	89·0	41·5	68·9	64·9	6·2	13·8	3·8	— 0·4	E	Calm	0·0	0·0	0·0	20	0·00
7	Last Qr.	29·948	72·0	50·6	59·1	54·5	90·5	43·8	69·3	65·7	4·6	12·5	2·2	— 3·0	Calm	E	0·0	0·0	0·0	60	0·00
8	..	29·807	76·6	53·8	64·2	55·0	102·8	43·0	69·3	65·9	9·2	20·6	1·7	+ 2·2	E	Calm	0·0	0·0	0·0	70	0·00
9	..	29·582	76·8	54·0	63·4	58·3	97·0	53·5	69·5	66·2	5·1	15·3	3·2	+ 1·5	Calm	E	0·0	0·0	0·0	70	0·00
10	..	29·466	79·3	59·7	67·3	57·7	103·0	50·0	68·9	65·9	9·6	18·8	4·1	+ 5·5	SW	SW ; NW	0·0	0·0	0·0	82	0·23
11	..	29·425	60·3	55·5	57·5	57·5	66·0	55·0	69·1	66·1	0·0	0·0	0·0	— 3·4	NE	N	0·0	0·0	0·0	140	1·42
12	Greatest Declination N.	29·674	77·0	58·5	65·3	60·7	85·0	58·0	69·4	66·3	4·6	15·0	2·5	+ 3·4	N	N	0·0	0·0	0·0	25	0·00
13	..	29·844	78·5	56·1	67·5	58·2	105·0	49·0	69·7	66·7	9·3	16·4	2·3	+ 5·5	Calm	SW	0·0	0·0	0·0	50	0·00
14	New	29·743	75·0	59·3	66·6	57·6	96·0	51·5	69·4	66·2	9·0	13·6	3·4	+ 4·5	SE ; SW	SW	2·0	0·0	0·1	155	0·00
15	..	29·765	76·8	55·7	63·2	55·2	104·0	41·2	69·4	66·2	8·0	19·8	3·4	+ 1·1	SW	SW	0·0	0·0	0·0	60	0·00
16	..	29·417	72·2	54·7	59·2	57·0	95·0	53·5	69·7	66·3	2·2	11·4	0·0	— 2·9	Calm	W	2·0	0·0	0·0	115	0·60
17	Apogee	29·471	66·8	49·1	57·6	48·1	75·0	44·0	69·7	66·7	9·5	13·3	7·4	— 4·5	W	WNW	3·0	0·0	0·4	140	0·00
18	..	29·634	75·3	52·8	62·8	51·0	100·4	47·5	68·9	66·2	11·8	19·1	4·4	— 0·8	N	W ; SW	0·0	0·0	0·0	75	0·00
19	..	29·488	62·8	51·5	54·9	52·3	68·0	48·0	67·9	64·0	2·6	7·7	1·7	— 7·0	S	SW	3·5	0·0	0·3	100	0·44
20	In Equator	29·716	70·7	49·1	59·0	48·0	89·0	41·0	66·7	64·2	11·0	15·0	3·5	— 2·9	W	NW	1·5	0·0	0·1	90	0·00
21	..	29·987	73·0	48·3	60·4	52·3	89·0	40·4	65·9	63·7	8·1	15·3	4·2	— 1·4	W	W	0·0	0·0	0·0	10	0·00
22	First Qr.	30·024	78·5	53·5	65·5	58·4	100·0	..	65·9	63·7	7·1	12·2	2·0	+ 3·7	SSW	WSW ; Calm	0·0	0·0	0·0	15	0·00
23	..	29·791	77·2	56·5	65·7	60·6	88·5	..	64·9	62·3	5·1	14·0	1·9	+ 3·9	Calm	SW	0·0	0·0	0·0	38	0·00
24	..	29·556	73·2	58·7	61·6	59·3	83·8	..	66·1	63·2	2·3	6·7	1·6	— 0·3	SW	SW	0·0	0·0	0·0	40	0·40
25	..	29·611	67·0	53·7	57·8	52·1	85·0	53·0	66·9	63·7	5·7	8·3	4·2	— 4·1	WSW	W ; S	0·0	0·0	0·0	25	0·18
26	..	29·660	64·7	51·0	56·2	53·7	85·5	45·8	67·3	64·5	2·5	8·2	1·4	— 5·8	S	SW	0·0	0·0	0·0	95	1·15
27	Greatest Declination S.	29·701	72·5	55·3	60·8	57·7	80·0	50·5	66·9	64·7	3·1	6·2	2·5	— 1·3	SW	SW	0·0	0·0	0·0	115	0·20
28	..	29·773	70·8	55·3	61·3	57·7	90·0	53·0	66·4	64·7	3·6	10·1	2·7	— 0·9	SW	SW	0·0	0·0	0·0	40	0·06
29	Full	29·788	75·5	52·7	63·7	56·6	100·0	45·0	66·5	64·7	7·1	15·2	2·6	+ 1·5	SW	W ; SW	0·0	0·0	0·0	70	0·00
30	Perigee	29·738	75·0	55·3	64·2	57·4	97·0	51·0	66·9	64·3	6·8	14·4	2·8	+ 2·0	SW	SW	0·0	0·0	0·0	40	0·00
31	..	29·642	68·0	56·3	60·9	58·0	74·0	55·0	66·7	64·5	2·9	8·2	1·0	— 1·1	S	SW	0·0	0·0	0·0	85	0·30
Aug. 1	..	29·738	71·5	51·0	62·3	53·3	96·5	48·0	66·9	64·5	9·0	14·1	3·8	+ 0·1	SW	SW	0·0	0·0	0·0	120	0·00
2	In Equator	29·709	72·8	56·9	63·7	54·7	96·0	52·7	67·5	64·9	9·0	12·6	3·2	+ 1·5	SW	SW	3·0	0·0	0·3	145	0·06
3	..	29·628	72·0	53·7	61·7	53·2	97·5	48·0	67·9	64·9	8·5	13·5	3·6	— 0·4	SW	W	2·0	0·0	0·2	160	0·02
4	Last Qr.	29·592	71·0	53·9	60·6	54·5	95·0	48·5	68·1	65·3	6·1	11·4	5·0	— 1·5	NW	Calm	0·0	0·0	0·0	50	0·00
5	..	29·892	72·0	55·0	60·6	55·2	95·0	49·5	67·9	65·2	10·4	16·1	7·0	— 1·5	Calm ; SW	S	0·0	0·0	0·0	45	0·03
6	..	29·902	70·5	48·3	59·3	53·0	79·0	40·5	67·4	65·2	6·3	12·3	5·1	— 2·7	Calm	SW	0·0	0·0	0·0	145	0·40
7	..	29·606	75·0	56·8	63·4	58·3	97·0	55·0	67·4	65·2	5·1	12·6	1·6	+ 1·4	Calm	SW	0·0	0·0	0·0	125	0·35
8	..	29·552	71·0	55·7	61·4	55·8	92·0	42·5	66·9	64·7	5·6	10·9	2·0	— 0·5	SW	W	0·0	0·0	0·0	45	0·01
9	Greatest Declination N.	29·747	67·5	55·2	58·8	51·6	80·0	..	66·9	64·7	7·2	13·1	5·2	— 3·0	NW	SW ; NW	0·0	0·0	0·0	10	0·00
10	..	29·980	72·2	47·6	60·1	49·9	71·0	43·0	67·3	64·7	10·2	15·6	4·0	— 0·7	SW	Calm	0·0	0·0	0·0	20	0·00
11	..	30·094	73·9	55·7	63·7	58·1	88·0	49·2	66·9	64·7	5·6	11·0	4·3	+ 2·0	Calm	Calm	0·0	0·0	0·0	35	0·02
12	New	30·090	69·0	53·5	59·9	57·6	74·0	48·5	66·9	64·7	2·3	6·0	0·6	— 1·7	W	NE ; Calm	0·0	0·0	0·0	85	0·00
13	Apogee	30·144	72·0	48·7	59·2	50·6	91·5	43·8	66·9	64·7	8·6	13·8	5·1	— 2·2	NNE	N	0·0	0·0	0·0	80	0·00
14	..	30·079	70·3	47·3	59·9	52·1	88·5	43·5	66·9	64·7	7·8	10·7	5·3	— 1·4	W	N	0·0	0·0	0·0	85	0·00
15	..	30·125	71·0	58·5	63·3	54·8	93·5	56·2	66·9	64·3	8·5	13·8	5·0	+ 2·0	NW	N	0·0	0·0	0·0	45	0·00
16	In Equator	30·173	77·0	55·1	65·3	55·5	100·0	45·1	66·9	64·5	9·8	17·4	4·9	+ 4·2	NW	N ; Calm	0·0	0·0	0·0	35	0·00
17	..	30·160	75·5	51·5	64·2	55·9	96·0	40·0	67·1	64·5	8·3	13·1	6·6	+ 3·2	Calm	Calm	0·0	0·0	0·0	155	0·00
18	..	29·922	76·8	51·9	65·4	54·8	98·0	49·0	67·2	65·7	10·6	17·3	3·4	+ 4·6	SE	SE	0·0	0·0	0·0	155	0·00
19	..	29·634	75·0	59·3	64·4	56·1	95·0	52·0	67·7	66·2	8·3	12·6	7·9	+ 3·7	S ; W	SW	4·0	0·0	0·3	200	0·00
20	First Qr.	29·705	67·0	57·4	60·9	57·7	74·5	52·0	68·4	66·2	3·2	6·0	2·2	+ 0·3	SW	SW	4·0	0·0	0·5	260	0·04
21	..	29·770	72·8	57·5	63·2	51·1	..	50·0	68·4	65·5	12·1	15·9	10·1	+ 2·8	W	W	3·0	0·0	0·3	175	0·00
22	..	29·893	73·5	50·3	62·5	52·6	103·0	39·5	67·4	64·7	9·9	16·1	5·0	+ 2·2	W	W ; Calm	0·0	0·0	0·0	80	0·00
23	Greatest Declination S.	29·702	76·0	56·1	64·5	57·0	83·8	51·5	67·4	65·2	7·5	14·7	3·2	+ 4·3	Calm	SE	3·0	0·0	0·1	105	0·01
24	..	29·708	73·2	58·1	64·6	59·0	92·0	42·0	67·4	66·0	5·6	10·2	2·7	+ 4·6	SW	SSW	0·0	0·0	0·0	155	0·14
25	..	29·897	72·3	50·5	60·4	49·6	97·0	41·8	67·4	65·6	10·8	15·0	4·4	+ 0·5	SW	S	0·0	0·0	0·0	140	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
June 28	o	w	o, h	3, ci.-cu, ci : o
29	w	w	o	o : 10, s, ci, li.-cl
30	o	w	o	5, ci : o
July 1	m	m	v	v, ci, ci.-s
2	m	m	10	10, h.-sh.-r : 10
3	o	o	v, h	v, ci : 10
4	o	o	10, m.-r	5, ci.-cu : o
5	o	o	3, li.-cl, h	3, li.-cl
6	o	o	10 : o	o
7	w	w	10	10 : o
8	o	o	o	o
9	w	w	10 : sl.-r	10 : l, t, h.-r
10	w	w	3	10 : sl.-r
11	w	w	10, h.-r	10, sl.-r
12	o	o	10, ci.-cu, ci.-s	v
13	w	o	o	o
14	w	m	10, l, t, sl.-r : o	5, cu, ci.-cu : o
15	w	m	5, cu.-s, ci.-s, li.-cl	5, cu.-s, ci.-s : 10
16	s N	s N	10, r	10, r
17	m	s	10, cu.-s, ci.-s	10
18	s, sps	w	3, ci.-cu, ci.-s : 7	7, ci.-cu, ci
19	s N, s P, sps	s N, s P, sps	10, r	10, t, r : o
20	m	m	10, ci.-cu, ci	v, ci.-s
21	m	s	10	10 : o
22	m	s	10 : o	o : h
23	o	s	10, h	10
24	o	o	10, r	10, r : 7
25	o	s, sps	10, r	v, t, shs.-r
26	m	s, sps	10	10, r : v
27	m	s N, s P, sps, g cur	v	v, n, sl.-r
28	m	s	7, shs.-r	7
29	m	m	7, ci.-cu, ci.-s, li.-cl, h	7, cu, s, ci.-s
30	s, sps	s	5, cu, ci.-s, li.-cl	5, cu, ci.-s, li.-cl : 10, r
31	m	m	10, r	10, r
Aug. 1	s	m	7, ci.-cu	4, cu
2	w	w	o	v, cu, cu.-s, ci.-s, li.-cl, r
3	w	w	5, ci.-cu	10, cu, ci.-cu, ci.-s
4	m	w : s	v, ci.-cu : sh.-r	v
5	w	o	7, cu.-s, ci.-s, li.-cl	7, cu, cu.-s, ci.-s
6	m	10	10, th.-r	10 : oc.-r
7	o	s N, sps, g cur	7, cu.-s, ci.-s, r	7, cu.-s, ci.-s, r : 10, t, h.-shs.-r
8	w	w	10, r	v, t, shs.-r
9	w	w	10 : li.-shs.-r	o
10	s	m	10, cu, f	10, : ci.-cu, h
11	s	s	10, ci.-cu	10 : 4, li.-cl, f
12	s	s	10	10, fr.-shs : o
13	s	s	7, ci.-cu, li.-cl	7 : o
14	s, sps	m	v	v : 10
15	s	m	7	7, ci.-cu, cu.-s : o
16	s	m	o	o
17	m	m	o, h	10 : o
18	m	s, sps	o	o : 10
19	s	s	10, s, ci.-s, li.-cl	10, sl.-r
20	w	w	10, r	10 : v
21	w	w	5, cu.-s	5, cu.-s, ci, cu.-s : o
22	m	w	5, ci.-cu, ci.-s	5 : 10
23	w	w	7	7 : v, t, h.-shs.-r
24	w	w	10, cu, ci.-cu, ci.-s, sl.-r	10, cu.-s, ci.-s
25	m	s	7	7, cu, ci.-cu, li.-cl : 2, lu.-ha

MONTH and DAY, 1855.	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 AM. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h AM. 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.
Aug. 26	..	29·965	72·3	51·2	59·8	47·9	100·0	40·5	66·8	65·6	11·9	19·3	6·3	0·0	SW	SW	0·0	0·0	0·0	155	0·00
27	PerigeeFull	29·813	72·0	58·7	63·2	54·0	87·0	41·0	66·0	65·2	9·2	13·7	5·0	+ 3·6	SW	S	0·0	0·0	0·0	165	0·00
28	..	29·694	79·0	57·9	66·3	56·2	102·0	53·0	66·6	65·0	10·1	17·7	5·9	+ 6·8	S	SW	0·0	0·0	0·0	140	0·00
29	In Equator.	29·935	74·5	52·3	62·1	53·3	104·0	41·0	66·7	65·2	8·8	16·5	3·8	+ 2·8	SW; W	W; S	0·0	0·0	0·0	65	0·00
30	..	30·146	75·3	47·3	60·0	51·0	99·0	36·5	66·9	64·9	9·0	17·3	3·6	+ 0·8	Calm	SE; Calm	0·0	0·0	0·0	35	0·00
31	..	30·087	75·4	49·5	61·5	53·0	99·5	38·0	66·8	64·7	8·5	18·8	4·0	+ 2·5	Calm	S ; Calm	0·0	0·0	0·0	75	0·00
Sept. 1	..	30·212	68·0	47·8	57·3	51·4	89·0	37·5	66·6	64·7	5·9	10·2	4·2	— 1·6	NE	NE	2·0	0·0	0·2	180	0·00
2	..	30·115	63·0	48·0	54·9	45·7	77·0	37·0	66·1	63·7	9·2	12·6	4·6	— 3·9	NE	NE	3·5	0·0	0·6	175	0·00
3	Last Qr.	29·947	68·2	46·8	57·1	49·9	83·0	41·5	66·1	62·5	7·2	12·2	2·4	— 1·4	NE	NE	2·5	0·0	0·1	80	0·00
4	..	29·852	73·3	51·7	60·3	54·0	97·0	..	65·7	62·5	6·3	13·1	2·7	+ 1·9	NE	NE	0·0	0·0	0·0	80	0·00
5	Greatest Declination N.	29·895	64·5	47·7	55·2	45·2	75·0	..	65·4	61·9	10·0	15·8	6·1	— 3·1	NE	N	3·0	0·0	0·3	145	0·00
6	..	30·157	63·0	42·7	51·9	43·9	83·5	45·9	64·9	60·7	8·0	14·0	5·7	— 6·1	N	N	3·0	0·0	0·0	95	0·00
7	..	30·316	69·0	42·7	54·3	44·5	92·0	35·0	64·1	59·7	9·8	16·0	5·5	— 3·6	N	Calm	0·0	0·0	0·0	35	0·00
8	..	30·201	73·0	37·7	56·5	44·5	99·5	29·8	63·9	58·7	12·0	19·7	5·8	— 1·3	Calm	Calm ; SE	0·0	0·0	0·0	85	0·00
9	Apogee	30·016	68·0	43·8	55·0	50·2	83·0	36·5	62·4	58·7	4·8	8·0	2·9	— 2·5	S	N; Calm	0·0	0·0	0·0	85	0·00
10	..	29·981	70·7	42·5	55·3	48·9	92·5	34·9	61·9	58·3	6·4	11·5	3·2	— 2·1	Calm ; NNE	NNE	0·0	0·0	0·0	35	0·00
11	New	29·960	71·0	43·8	57·6	49·8	94·0	27·0	61·9	57·7	7·8	12·4	5·3	+ 0·3	Calm ; NE	NNE	0·0	0·0	0·0	35	0·00
12	In Equator	30·023	72·0	47·6	58·9	51·3	94·0	38·0	61·9	58·2	7·6	15·0	4·0	+ 1·9	Calm ; N	N; NW	0·0	0·0	0·0	65	0·00
13	..	29·811	70·0	49·7	58·3	52·2	81·5	38·9	61·9	58·7	1·1	7·0	1·0	+ 1·5	SSW	W	0·0	0·0	0·0	110	0·22
14	..	29·850	59·0	51·0	54·7	54·1	61·5	48·7	61·4	58·7	3·6	7·7	4·6	— 5·6	Calm ; NE	NE	0·0	0·0	0·0	60	0·24
15	..	29·974	63·0	43·1	52·5	47·5	81·0	36·5	61·4	58·7	5·0	10·1	1·0	— 4·0	Calm ; SW	SW	0·0	0·0	0·0	50	0·00
16	..	29·938	68·2	52·7	59·2	52·9	88·0	46·0	61·1	58·7	6·3	7·5	2·9	+ 2·9	WSW	WSW	0·0	0·0	0·0	110	0·00
17	..	29·916	60·2	53·5	55·0	54·0	61·0	54·2	60·9	58·7	1·0	1·3	0·0	— 1·1	Calm	Calm	0·0	0·0	0·0	10	0·05
18	..	29·823	68·0	54·9	60·3	55·3	76·2	55·0	61·1	58·7	5·0	9·6	1·7	+ 4·4	Calm ; SW	Calm	0·0	0·0	0·0	25	0·00
19	First Qr.	29·872	70·7	55·7	60·8	57·2	76·0	51·9	61·5	58·7	3·6	9·3	0·8	+ 5·0	Calm ; NE	NE ; Calm	0·0	0·0	0·0	45	0·00
20	Greatest Declination S.	30·039	73·5	49·3	60·6	53·6	90·0	42·2	61·9	58·7	7·0	13·8	1·7	+ 5·1	Calm ; SW	SW ; Calm	0·0	0·0	0·0	60	0·00
21	..	30·149	75·0	49·3	61·2	55·4	75·0	42·5	62·4	59·5	5·8	11·1	0·8	+ 5·8	Calm ; W	W ; Calm	0·0	0·0	0·0	20	0·00
22	..	30·149	74·0	48·3	59·9	54·0	96·0	42·0	62·9	59·9	5·9	13·1	1·3	+ 4·6	Calm ; NE	E; Calm	0·0	0·0	0·0	45	0·00
23	..	30·143	78·2	46·8	62·5	55·6	96·5	45·0	63·4	59·9	6·9	13·1	1·4	+ 7·5	Calm ; NE	NE	0·0	0·0	0·0	90	0·00
24	Perigee	30·330	64·0	46·0	53·5	47·5	75·0	49·3	63·1	59·7	6·0	12·9	3·6	— 1·3	NE	NE ; Calm	0·0	0·0	0·0	90	0·00
25	Full	30·275	67·0	45·5	53·7	43·3	89·0	34·8	62·9	59·7	10·4	15·8	4·8	— 1·0	Calm ; E	ESE	0·0	0·0	0·0	70	0·00
26	In Equator	30·062	65·0	38·0	50·7	41·7	86·0	28·9	62·1	59·5	9·0	17·2	1·0	— 3·7	Calm ; SE	SE ; Calm	0·0	0·0	0·0	50	0·00
27	..	29·759	73·0	34·1	54·2	46·4	94·0	27·5	61·3	58·7	7·8	16·7	0·0	— 0·1	Calm	SSW	0·0	0·0	0·0	100	0·00
28	..	29·432	67·1	58·7	61·5	56·4	83·0	52·1	61·1	58·9	5·1	7·8	2·2	+ 7·5	SW	SW	2·0	0·0	0·1	130	0·17
29	..	29·431	67·0	57·7	60·2	57·3	73·8	53·2	60·9	58·9	2·9	7·7	1·3	+ 6·8	SW	SE	0·0	0·0	0·0	50	0·20
30	..	29·346	69·0	54·2	59·2	54·0	80·0	47·8	61·1	59·2	5·2	10·8	1·2	+ 5·7	SE	SE	0·0	0·0	0·0	50	0·24
Oct. 1	Greatest Declination N.	29·391	66·8	50·9	56·6	49·7	84·0	46·5	61·1	58·7	6·9	10·9	2·0	+ 3·3	SW	SW	0·0	0·0	0·0	120	0·10
2	Last Qr.	29·520	63·0	47·2	54·1	50·9	70·0	39·5	60·9	58·7	3·2	8·3	2·0	+ 1·0	SW	W	0·0	0·0	0·0	90	0·02
3	..	29·508	59·8	44·7	54·0	54·0	62·5	38·9	61·4	58·9	0·0	1·9	0·4	+ 1·2	S	S	0·0	0·0	0·0	100	0·15
4	..	29·191	65·5	52·9	58·1	53·9	79·0	55·0	61·1	58·7	4·2	7·1	2·0	+ 5·5	SW	SW	3·0	0·0	0·4	190	0·30
5	..	29·246	63·5	51·1	55·4	52·6	73·0	45·0	60·9	58·7	2·8	5·6	1·4	+ 3·0	SW	SW	3·5	0·0	0·5	125	0·42
6	..	29·212	64·5	48·7	56·3	49·7	79·5	42·5	60·4	59·3	6·6	10·5	4·0	+ 4·0	SW	SSW	0·0	0·0	0·0	160	0·15
7	Apogee	29·201	62·0	50·0	55·2	48·6	73·5	45·0	60·4	59·3	6·6	10·4	1·5	+ 3·2	SE; SW	SW ; Calm	0·0	0·0	0·0	95	0·16
8	..	29·368	65·0	46·8	54·5	49·5	86·0	39·9	59·9	57·5	5·0	9·9	0·2	+ 2·7	SW	SW	1·5	0·0	0·0	80	0·01
9	..	29·387	62·0	43·9	51·3	48·4	86·0	37·2	59·9	57·2	2·9	8·1	0·0	— 0·2	Calm	NW	1·0	0·0	0·0	120	0·00
10	In Equator	29·615	53·0	42·7	46·4	37·2	67·9	38·0	59·9	56·7	9·2	14·1	4·6	— 4·9	NE	NW	3·0	0·0	0·3	160	0·07
11	New	29·498	58·0	43·7	51·6	48·8	62·5	34·2	59·4	55·9	2·8	5·1	1·9	+ 0·6	W	NW	5·0	0·0	1·1	250	0·05
12	..	29·496	62·0	52·9	55·8	53·1	68·5	51·0	58·9	55·3	2·7	4·9	1·8	+ 5·0	NW	NW	4·5	0·0	0·4	150	0·10
13	..	29·533	59·0	43·6	50·6	42·0	78·0	34·8	58·1	54·7	8·6	13·3	3·9	0·0	NW	W; SW	0·0	0·0	0·0	70	0·00
14	..	29·375	53·2	44·7	48·3	46·1	62·0	38·0	57·4	54·5	2·2	4·0	0·0	— 2·1	Calm	Calm	0·0	0·0	0·0	35	0·01
15	..	29·332	56·5	36·8	45·8	41·7	70·5	35·2	56·9	53·9	4·1	10·3	0·7	— 4·4	Calm; W	Calm ; NW	0·0	0·0	0·0	30	0·07
16	..	29·620	59·0	38·4	47·6	42·8	77·5	31·4	56·5	53·7	4·8	8·6	2·2	— 2·3	W	W ; S	0·0	0·0	0·0	15	0·00
17	Greatest Declination S.	29·637	64·8	46·9	54·1	51·0	84·0	38·8	55·9	52·7	3·1	10·2	0·4	+ 4·3	Calm	SE ; NE	0·0	0·0	0·0	10	0·45
18	First Qr.	29·794	56·0	45·9	49·3	46·2	72·5	45·0	55·4	52·9	3·1	7·4	0·0	— 0·2	NE ; NW	W	0·0	0·0	0·0	50	0·00
19	..	29·964	61·0	45·7	52·2	46·8	79·0	36·0	55·4	52·7	5·4	11·0	0·7	+ 2·9	W	NW	0·0	0·0	0·0	85	0·01
20	..	30·069	63 0	46·3	53·7	48·5	83·0	37·0	54·9	52·7	5·2	9·7	3·2	+ 4·7	NW	NW	2·0	0·0	0·1	210	0·00
21	..	29·980	61·0	52·4	56·9	54·4	65·0	46·0	54·9	52·7	2·5	5·2	1·0	+ 8·1	NW	NW	3·5	0·0	0·9	85	0·00
22	..	30·051	63·0	50·5	55·1	53·7	73·5	43·2	55·1	52·7	1·4	4·1	0·0	+ 6·4	SW; Calm	SW	0·0	0·0	0·0	40	0·03
23	Perigee In Equator	29·772	61·0	53·5	55·8	54·8	64·5	50·0	54·9	52·7	1·0	5·2	0·0	+ 7·4	WNW	WNW	3·0	0·0	0·1	120	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Aug. 26	w	m	o	o
27	w	w	10	10 : 8, ci.-cu
28	w	m	o	7 : o
29	s	v	o	4, cu, ci.-cu, ci.-s : o
30	v	m	o	o
31	s	s	7	o
Sept. 1	v	v	5, cu, ci.-cu, li.-cl	10 : o
2	s	m	10	10
3	w	v	7	7, cu : o
4	m	m	10	10, ci.-s : v
5	w	o	10, sl.-r	5 : v
6	m	m	v, cu, ci.-cu, sc	v
7	w	w	3, cu, ci.-cu : o	4 cu, ci.-s : o
8	s	s	o, f	o
9	w	o	10, f	10 : o
10	o	s	o	o : 10 : o
11	w	w	o, h	8, cu, ci.-cu, sc, : v, s
12	s	w	o, h	o
13	w	w	10, r	5 : 10, sl.-r
14	o	w	10, r	10 : m.-r
15	w	w	10	10 : o
16	s	o	10	10 : th.-r
17	o	o	10, th.-r	10, th.-r : f
18	s	s	10	10
19	v	w	8, f	8, cu.-s, ci.-cu : o, f
20	s	v	o, h	o, h
21	o	s	o	o : f
22	m	m	10, f : o	o
23	m	m	o	o : v, ci.-s
24	w	s	10	10 : o
25	m	m	10 : cu.-s, ci.-cu	8 : o
26	s	w	o, h	o
27	v	w	o, f	o : 10, sl.-r
28	o	o	10	10 : l, t, h.-shs.-r
29	o	o	8, sl.-r : 10	10 : l, h.-r
30	m	w	10, r	10 : h, shs.-r
Oct. 1	w	s	10 : h.-sh.-r	10, li.-shs.-r : o
2	w	s	10, f	10, h : o
3	s	o	10, shs.-r	10, r
4	o	s N, s P, sps, g cur	10, r	10, r : o, a
5	w	s N, sps, g cur	10, cu, ci.-cu, h.-shs.-r	10, cu, ci.-cu, h-.shs.-r
6	o	w	7, cu, ci.-cu, sc, r	10 : o : 10, shs.-r
7	m	s	10, h.-r : v	v : f
8	m	s, sps	7, r : o	o : l
9	s	s	10, f	10
10	w	w	10, ci.-cu, r : 5	5, cu, ci.-s, sc : v
11	o	o	10, r	9, r : 10
12	w	o	10, r	10, fr.-shs.-r
13	o	o	4	4, cu, ci.-cu, sc : v
14	o	o	10, ci.-s, r	10 : v
15	s	s	7, li.-cl, f	7, r, f : 10
16	s	s, sps	5	5, cu : 10, a
17	s	v	10, cu	v : 10
18	w	s	10	9 : o, a
19	s	s	3, cu, li.-cl	3 : o
20	s	v	o : 6, ci.-cu	6, ci.-cu, ci.-s, lu.-co
21	w	s	10	10 : m.-r
22	s	s	10, r, f	10 : v, ci.-cu, ci.-s, r
23	m	m	10	10

MONTH and DAY, 1855.	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.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Oct. 24	..	29·870	56·0	40·6	46·2	37·2	71·2	31·2	55·1	52·7	9·0	14·6	2·9	— 2·0	NNW	NNW	4·0	0·0	0·4	160	0·00
25	Full	29·688	53·2	39·9	48·1	43·7	57·0	30·5	54·9	52·7	4·4	6·2	1·2	+ 0·2	NW; W	SW	14·0	0·0	1·8	235	0·05
26	..	29·037	54·0	43·3	48·4	46·6	58·0	49·0	54·4	51·9	1·8	3·9	0·0	+ 0·7	SW	SW	10·0	0·0	2·7	110	0·47
27	..	29·341	50·5	35·3	41·1	39·7	66·6	..	53·1	50·7	1·4	5·7	0·0	— 6·4	SW	Calm	0·0	0·0	0·0	30	0·05
28	..	29·577	53·0	35·0	43·9	41·8	70·0	..	53·1	50·7	2·1	8·4	0·0	— 3·4	N	N	0·0	0·0	0·0	70	0·00
29	..	29·266	51·0	39·8	45·5	45·5	53·0	..	52·9	50·2	0·0	1·5	0·0	— 1·5	N	N	0·0	0·0	0·0	80	0·60
30	Greatest Declination N.	28·993	51·5	45·1	49·5	49·5	58·0	..	52·9	49·7	0·0	0·2	0·0	+ 2·7	N by E	N; E	0·0	0·0	0·0	20	1·06
31	..	29·314	50·0	42·6	45·9	45·2	51·0	..	52·1	49·2	0·7	0·8	0·0	— 0·6	N	N	5·0	0·0	0·4	195	0·60
Nov. 1	Last Qr.	29·551	43·1	34·5	37·5	32·7	55·0	..	50·9	47·9	4·8	7·4	4·2	— 8·8	N	N; W	3·0	0·0	0·2	110	0·00
2	..	29·581	43·0	30·3	37·4	35·1	45·0	..	49·7	45·9	2·3	5·5	0·2	— 8·7	WSW	NW; W	3·5	0·0	0·2	170	0·27
3	Apogee	29·624	45·2	37·7	39·8	38·1	48·0	35·0	48·1	44·2	1·7	2·9	0·0	— 6·1	N	NE	4·0	0·0	0·7	130	0·50
4	..	29·928	48·2	34·7	42·3	39·4	60·5	27·0	47·4	42·7	2·9	4·6	0·0	— 3·4	N	N	0·0	0·0	0·0	40	0·00
5	..	30·076	48·0	31·2	39·6	37·4	58·0	27·5	45·9	42·2	2·2	6·4	0·0	— 5·8	N; SW	SW	0·0	0·0	0·0	75	0·01
6	In Equator	29·961	58·0	43·3	50·2	46·0	71·0	35·0	44·9	41·7	4·2	8·6	1·8	+ 5·0	SSW	S	0·0	0·0	0·0	140	0·01
7	..	29·678	54·0	45·7	49·4	44·3	59·0	44·0	43·9	41·5	5·1	6·6	3·7	+ 4·5	S	S	0·0	0·0	0·0	160	0·02
8	..	29·429	49·1	43·0	45·7	44·8	50·0	41·0	44·9	41·7	0·9	2·9	0·0	+ 0·9	S	S	0·0	0·0	0·0	105	0·21
9	New	29·679	55·0	36·9	46·3	44·5	65·5	31·0	45·9	42·5	1·8	6·8	0·7	+ 1·8	S; Calm	SSE; E	0·0	0·0	0·0	5	0·01
10	..	29·786	56·0	43·5	48·4	46·6	65·0	37·0	46·9	42·9	1·8	5·0	0·0	+ 4·1	SE; Calm	SSW; S	0·0	0·0	0·0	40	0·07
11	..	30·081	57·0	43·5	49·6	44·6	71·0	32·5	47·4	43·7	5·0	7·4	3·3	+ 5·6	S	S	0·0	0·0	0·0	10	0·01
12	..	30·041	49·8	43·7	46·4	44·1	55·0	42·0	48·4	44·9	2·3	3·5	1·2	+ 2·7	Calm	Calm	0·0	0·0	0·0	5	0·00
13	Greatest Declination S.	29·871	47·0	40·5	42·8	39·7	47·0	43·0	48·7	45·7	3·1	5·0	1·7	— 0·6	NE	NE	0·0	0·0	0·0	10	0·00
14	..	29·840	45·0	37·3	40·1	36·5	50·5	36·3	48·9	45·7	3·6	6·7	2·0	— 3·1	N	Calm	0·0	0·0	0·0	35	0·00
15	..	30·002	41·0	28·5	34·3	32·7	41·0	20·5	49·1	45·2	1·6	4·6	0·0	— 8·6	Calm	Calm	0·0	0·0	0·0	..	0·00
16	First Qr.	30·120	42·0	25·7	35·3	34·3	43·5	21·0	48·9	44·7	1·0	4·6	0·0	— 7·5	Calm	NE	0·0	0·0	0·0	10	0·01
17	..	30·090	44·5	36·5	41·3	38·7	48·3	30·0	47·4	44·7	2·6	5·1	1·9	— 1·2	NE	NE	0·0	0·0	0·0	20	0·00
18	..	30·041	46·5	41·3	44·4	42·6	48·5	35·7	47·4	43·7	1·8	3·5	0·9	+ 2·0	NE	NE	0·0	0·0	0·0	100	0·00
19	Perigee In Equator.	29·933	46·0	39·0	40·1	39·9	48·0	..	46·1	42·9	0·2	2·1	0·0	— 2·1	NE	NE	0·0	0·0	0·0	70	0·06
20	..	29·870	41·0	37·5	39·1	37·8	41·0	..	46·9	43·3	1·3	2·4	0·0	— 2·9	NE	NE	0·0	0·0	0·0	30	0·05
21	..	29·746	40·7	36·2	38·1	37·1	42·0	..	45·9	42·7	1·0	5·0	0·0	— 3·8	NE	N	0·0	0·0	0·0	25	0·01
22	..	29·702	41·2	33·7	37·2	35·2	43·0	..	44·9	42·7	2·0	3·8	1·3	— 4·6	SW	S	0·0	0·0	0.0	70	0·00
23	Full	29·655	43·0	33·9	37·8	36·2	52·0	29·0	44·5	41·7	1·6	3·8	0·3	— 3·9	SW	WSW	0·0	0·0	0·0	75	0·00
24	..	29·737	42·5	37·0	38·9	37·1	43·0	35·0	44·4	41·5	1·8	2·4	1·5	— 2·7	N	NE	0·0	0·0	0·0	120	0·05
25	..	30·039	43·0	32·5	37·4	33·1	47·0	..	43·9	41·5	4·3	7·2	2·5	— 4·3	NE	NE	3·5	0·0	0·3	105	0·00
26	Greatest Declination N.	30·139	45·4	29·1	37·4	34·9	53·0	..	43·7	40·7	2·5	4·8	2·1	— 4·4	ENE	NE	0·0	0·0	0·0	40	0·01
27	..	29·906	46·0	36·7	41·3	38·4	56·0	32·2	43·4	40·7	2·9	6·9	1·4	— 0·6	N	N	0·0	0·0	0·0	55	0·01
28	..	29·951	45·6	37·5	42·0	39·8	47·0	35·8	43·7	40·5	2·2	4·6	1·0	+ 0·1	N	NNE	0·0	0·0	0·0	45	0·01
29	..	29·961	44·3	37·1	40·7	34·7	48·0	29·8	43·1	40·5	6·0	7·6	4·2	— 1·2	N	N; W	0·0	0·0	0·0	35	0·00
30	..	29·897	44·0	36·1	39·2	35·4	47·0	32·8	42·9	40·5	3·8	7·2	1·8	— 2·6	N; W	NW	0·0	0·0	0·0	40	0·00
Dec. 1	Last Quarter. Apogee.	29·888	42·7	32·3	38·4	35·6	43·0	22·0	43·3	40·7	2·8	6·2	1·7	— 3·3	SW	SW; N	0·0	0·0	0·0	35	0·00
2	..	29·707	43·0	35·3	39·1	35·7	48·0	31·5	42·9	40·9	4·4	6·2	3·3	— 2·5	N	N	0·0	0·0	0·0	50	0·05
3	In Equator	29·886	38·8	28·5	33·2	28·2	47·0	19·5	42·9	40·7	5·0	8·1	1·8	— 8·3	NE	SW	0·0	0·0	0·0	55	0·01
4	..	29·716	45·1	29·8	40·1	38·2	46·5	20·0	42·4	40·9	1·9	5·5	0·7	— 1·3	SW	SW	0·0	0·0	0·0	160	0·01
5	..	29·401	45·1	33·1	38·5	31·5	46·0	33·2	41·9	40·5	7·0	10·8	5·5	— 2·8	SW; NW	W	0·0	0·0	0·0	160	0·00
6	..	29·285	39·8	30·7	36·0	27·2	43·0	24·5	41·9	39·7	8·8	11·3	3·6	— 5·1	NW	NW	7·0	0·0	1·2	215	0·00
7	..	29·390	37·2	30·0	33·7	28·5	38·5	21·0	41·9	38·7	5·2	8·3	3·4	— 7·3	NW	NW	0·0	0·0	0·0	125	0·00
8	..	29·563	36·0	28·9	32·1	30·2	39·0	25·0	41·1	38·2	1·9	4·8	0·3	— 8·7	N	NE	0·0	0·0	0·0	55	0·16
9	New	29·915	32·2	24·8	29·2	27·7	38·5	16·0	40·7	37·7	1·5	3·3	0·0	—11·6	NE; N	NNE	0·0	0·0	0·0	60	0·00
10	Greatest Declination S.	29·942	34·2	29·9	32·4	31·5	36·0	29·0	39·4	36·2	0·9	2·5	0·0	— 8·2	NNE	N	0·0	0·0	0·0	50	0·00
11	..	29·876	32·8	28·3	30·3	28·5	35·0	24·0	39·1	35·7	1·8	2·0	0·0	—10·2	Calm	WSW	0·0	0·0	0·0	10	0·00
12	..	29·630	34·5	25·2	29·3	27·8	38·0	22·0	38·9	35·7	1·5	3·4	0·0	—11·0	SW	Calm	0·0	0·0	0·0	..	0·00
13	..	29·949	34·0	21·3	27·2	22·9	39·0	12·4	38·4	35·5	4·3	6·2	1·2	—13·0	Calm	W	0·0	0·0	0·0	55	0·00
14	Perigee	29·797	44·3	25·1	36·4	35·1	42·0	14·5	37·9	34·7	1·3	5·8	0·0	— 3·6	SW	WNW	3·0	0·0	0·2	160	0·07
15	..	30·012	48·0	39·9	44·2	40·7	50·0	32·0	37·4	33·7	3·5	5·5	1·2	+ 4·4	NW	W	0·0	0·0	0·0	50	0·00
16	First Qr.	30·117	42·0	33·5	38·2	35·4	45·0	25·0	37·4	34·7	2·8	4·8	1·6	— 1·4	SW	Calm	0·0	0·0	0·0	25	0·00
17	In Equator	29·938	40·0	30·5	33·8	33·3	40·0	24·0	38·4	35·7	0·5	2·8	0·0	— 5·6	Calm	NE	0·0	0·0	0·0	75	0·00
18	..	30·023	41·5	26·5	34·3	31·2	44·0	24·7	38·9	35·7	3·1	6·3	2·1	— 5·0	E	E	4·5	0·0	1·0	215	0·00
19	..	30·141	30·5	21·1	25·2	11·2	38·0	14·5	37·9	33·9	14·0	22·2	7·3	—13·9	E	E	3·5	0·0	0·5	110	0·00
20	..	29·932	30·1	20·3	24·4	0·3	42·5	11·0	36·9	32·7	24·1	27·4	17·0	—14·5	E	ESE	0·0	0·0	0·0	110	0·00
21	..	29·644	23·2	17·0	20·2	5·7	25·5	7·0	35·4	31·7	14·5	18·7	12·8	—18·5	ESE	E	0·0	0·0	0·0	50	0·00

MONTH and DAY, 1855.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
Oct. 24	s	s	3, cu, li.-cl : o	o : lu.-co
25	m	s	10	10 : 8, m.-r
26	s, N	s, P, sps, g cur	10, r	10, h.-r : o
27	s, sps	s, sps	10 : so.-ha	10 : o
28	s	s	3 : 10	10
29	w	o	10, r	10, r
30	s, N	w, N	10, r	10, r
31	o	s, N	10, r	10, r
Nov. 1	o	s	10	3 : o, f
2	m	s, sps	10, f	10 : r
3	s, N, sps, s, P	s, P	10, r	10, h.-shs.-r : 10 r, f
4	s	s, sps	10, ci.-cu, ci.-s, s	7, s, ci.-s, li.-cl : 10, h
5	s, sps	s, N, s, P	10, h	10 : r
6	s	s	3, ci-s, ci	3, cu, ci.-cu : o
7	w	w	10	10 : 5, sl.-r
8	w, N	s, sps	10, th.-r	10, h.-r : o
9	s	s, sps	10, cu, ci.-cu, ci.-s, v	v, s
10	w	s, sps	10, r	10 : o
11	s	s	o	10
12	s	s	10, f	10
13	m	s	10	10
14	s	s, P, s, N	10 f, : 10 : 9	10 : v, f
15	s	s, sps	o, h : 10	10, f,
16	s, sps	s, sps	10, f	10
17	s, sps	s, sps	o	10
18	s	s	10	10, r
19	w	w	10 th.-r	10, th-r
20	w	w	10, th.-r	10
21	m	s	10	10 : th.-r
22	m	s	o : v	v : 10, ci.-cu, ci.-s, s
23	m	s	7, h : 10	10
24	w	s, sps	10, ci.-cu, li.-cl, r	10
25	s	s, sps	v, ci.-cu, ci.-s, r	v : o
26	s, sps	s	10, ci.-cu, ci.-s, sc : 7, ci.-cu	10
27	s	m	10	10, m.-r
28	w	s	10, m, r	7
29	s	s	10, f	10 : f
30	s, sps	s, sps	10, f	10 : o, h
Dec. 1	s, sps	s, sps	10	7, ci.-cu, ci.-s : 10
2	s	s, sps	4, r	4 : f
3	s	m	o : 10	10, ci.-cu, ci.-s, s : sn
4	s, sps	s, sps	10	10 : 8
5	s, sps	s, sps	10, ci.-cu, ci.-s	o
6	m	s	10, sn	10 : o
7	w	w	v, ci.-cu, ci.-s, h	v, ci.-s
8			10, sn	o
9			10, h.-fr	5, ci : 10
10			10 : sn	10 : sn
11			10	10, sn
12			7	10 : o
13			10, h.-fr	10 : v, f
14			10, r	10, r
15			10	10 : 8, ci.-cu
16			10, f, h.-fr	10, f
17			10, ci.-s	10 : f
18			7, ci.-cu, ci.-s, li.-cl	7 cu, ci.-cu : o
19			o	o
20			o	o
21			7, ci, ci.-s	o

December 8 to December 29. The Electrical Apparatus was under repair.

MONTH and DAY, 1855.	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.
Dec. 22	..	29·779	24·2	16·9	21·5	10·4	25·0	5·1	33·9	31·2	11·1	13·1	8·5	−17·0	NE	Calm ; SW	0·0	0·0	0·0	115	0·00
23	Full Greatest Dec. N.	29·461	47·0	24·0	40·2	40·1	49·5	9·0	33·9	31·2	0·1	2·3	0·5	+ 1·8	S ; SW	SSW	5·5	0·0	0·5	210	0·12
24	..	29·555	48·0	39·5	43·2	41·5	54·0	34·0	35·5	34·7	1·7	9·4	2·6	+ 5·0	SW	SW	3·5	0·0	0·2	165	0·27
25	..	29·426	47·2	39·3	43·2	42·6	53·0	32·5	37·6	35·6	0·6	3·2	0·0	+ 5·2	SW	SW ; Calm	0·0	0·0	0·0	180	0·15
26	..	29·049	49·2	36·9	45·4	42·2	50·0	37·1	37·6	35·6	3·2	6·4	0·2	+ 7·6	SW	SW ; S	9·4	0·0	2·5	325	0·27
27	..	29·464	50·7	42·3	46·6	44·0	53·5	40·2	40·5	36·1	2·6	4·4	1·3	+ 9·0	SW	SW	0·0	0·0	0·0	130	0·02
28	..	29·543	52·4	42·3	48·1	41·5	56·5	34·0	43·0	38·4	6·6	8·4	4·8	+10·7	SW	SW	3·0	0·0	0·2	195	0·00
29	Apogee	29·836	50·9	42·5	46·6	42·4	55·0	33·0	42·5	39·8	2·4	5·3	1·4	+ 9·3	WSW	SW	2·0	0·0	0·1	165	0·00
30	..	30·078	49·0	38·7	42·9	39·1	49·0	31·8	43·0	41·0	3·8	6·2	2·6	+ 5·9	SW	SW	2·5	0·0	0·0	115	0·10
31	In Equator Last Quarter	30·064	47·0	34·5	40·5	38·3	52·0	30·5	42·9	39·7	2·2	4·8	0·5	+ 3·8	S	SW ; SSE	0·0	0·0	0·0	65	0·00

MONTH and DAY, 1855.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 22			10	10 : 0 : 10
23			7, r	7 : 10, r
24			0	10, : h.-r
25			10, r	10 : m-r
26			10, r	10, r
27			10	v : ci.-s
28			10, ci.-cu, ci.-s	10, s, ci.-s : v
29			10, ci.-cu, ci.-s	10
30		0	10, r	0
31	m	s	7	0

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, 1855.		Reading.	Approximate Mean Solar Time, 1855.		Reading.	Approximate Mean Solar Time, 1855.		Reading.	Approximate Mean Solar Time, 1855.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	7. 11. 0	30·404	January	1. 0. 0	29·822	July	21. 23. 10	30·045	July	16. 3. 0	29·373
	12. 9. 0	30·483		9. 0. 0	30·196		29. 1. 20	29·804		24. 3. 0	29·543
	17. 9. 0	30·034		16. 3. 0	29·888	August	5. 8. 30	29·955	August	3. 9. 0	29·564
	24. 21. 0	29·957		20. 9. 0	29·667		12. 21. 0	30·247		7. 21. 0	29·533
February	1. 21. 0	29·924		31. 3. 0	29·307		21. 21. 0	29·921		18. 22. 30	29·588
	9. 3. 0	29·793	February	4. 9. 0	29·149		26. 9. 0	29·973		23. 9. 0	29·622
	17. 22. 45	29·921		14. 0. 0	29·211	September	1. 0. 0	30·210		28. 3. 0	29·679
	23. 21. 0	29·900		20. 3. 0	29·568		6. 21. 0	30·337	September	4. 3. 0	29·834
	28. 9. 0	29·721		24. 22. 30	29·269		24. 9. 0	30·354		13. 9. 0	29·798
March	8. 9. 0	30·014	March	2. 21. 0	28·789	October	2. 9. 0	29·607		30. 9. 0	29·302
	14. 21. 0	29·705		12. 3. 0	28·784		10. 9. 0	29·665	October	4. 3. 0	29·154
	19. 0. 0	29·846		17. 9. 0	29·255		19. 21. 0	30·100		15. 3. 0	29·303
	29. 9. 0	30·352		22. 0. 0	28·756		24. 9. 0	29·960		23. 9. 0	29·698
April	5. 22. 20	30·025	April	3. 9. 0	29·439		28. 8. 30	29·606		26. 0. 0	29·033
	21. 9. 0	30·404		10. 3. 0	29·127	November	4. 21. 0	30·087		30. 0. 0	28·968
May	6. 21. 0	29·841	May	3. 3. 0	29·498		11. 9. 0	30·089	November	8. 3. 0	29·380
	8. 21. 0	29·878		7. 9. 0	29·565		16. 9. 0	30·143		14. 0. 0	29·825
	12. 9. 0	29·744		10. 21. 0	29·257		25. 21. 0	30·203		23. 3. 0	29·649
	17. 21. 0	29·985		13. 10. 20	29·329		28. 9. 0	30·012		27. 3. 0	29·881
June	1. 21. 0	29·897		31. 3. 0	29·361	December	3. 0. 0	29·917	December	2. 0. 0	29·710
	9. 22. 30	30·106	June	6. 3. 0	29·591		9. 9. 0	29·975		6. 0. 0	29·256
	20. 9. 0	30·270		15. 3. 0	29·155		18. 21. 0	30·188		12. 3. 0	29·602
July	1. 21. 0	30·096		29. 9. 0	29·802		22. 9. 0	29·813		21. 9. 0	29·617
	13. 0. 0	29·853	July	10. 21. 0	29·393		30. 9. 0	30·200		26. 3. 0	28·984

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1855.

1855, MONTH.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR. Highest	Lowest.	Range in the Month.	Mean of all the Highest	Mean of all the Lowest.	Mean Daily Range.	Mean. Temp.	Mean Temp. of Dew Point.	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 complete (saturation = 1.)	Mean weight of a cubic foot of air.	WIND. Prevailing Direction.	Mean Daily pressure in lbs. on square foot.	Mean Daily Horizontal movement of the Air in Miles.	Mean Amount of Cloud.	RAIN. Number of Days on which it fell.	Amount collected on the Ground.
	in.	°	°	°	°	°	°	°	°		gr.	gr.		gr.		lbs.	miles.			in.
January....	29·998	52·4	16·2	36·2	39·1	31·3	7·8	34·8	31·7	·200	2·4	0·3	·91	558	NE ; SW	0·22	47	8·7	20	1·5
February...	29·593	48·4	11·1	37·3	35·7	24·2	11·5	29·1	26·7	·165	2·0	0·2	·91	557	E ; NE	0·18	64	7·6	11	1·0
March	29·535	57·8	24·5	33·3	46·2	31·9	14·3	37·9	33·6	·212	2·5	0·4	·86	546	NE ; SE	0·25	64	7·8	12	2·0
April.....	29·933	72·8	25·9	46·9	57·6	36·7	20·9	45·9	38·8	·251	2·9	0·8	·78	544	SW; NE	0·24	96	5·8	4	0·1
May.....	29·679	81·5	28·3	53·2	59·9	40·5	19·4	49·0	42·3	·284	3·3	0·8	·80	536	NE ; S	0·21	118	7·7	12	1·8
June.....	29·863	83·5	39·3	44·2	68·5	45·7	22·8	58·0	47·8	·348	3·9	1·5	·74	530	SW; NE	0·01	87	6·4	9	0·9
July.....	29·769	79·8	43·7	35·3	73·3	54·1	19·2	62·2	55·5	·444	5·0	1·3	·80	523	SW	0·03	67	7·0	10	5·3
August.....	29·874	79·0	47·3	31·7	72·9	53·7	19·2	62·4	53·9	·423	4·7	1·5	·76	525	SW	0·05	107	5·9	10	1·4
September..	29·966	78·2	34·1	44·1	68·5	47·7	20·8	57·2	50·5	·378	4·3	1·1	·80	532	NE; SW	0·04	75	5·4	6	2·0
October	29·527	66·8	35·0	31·8	58·7	45·2	13·5	51·2	47·8	·346	4·0	0·5	·89	531	SW; NW	0·29	106	7·6	22	5·2
November..	29·864	58·0	25·7	32·3	46·5	36·8	9·7	41·3	38·5	·250	2·9	0·3	·92	548	NE	0·04	63	8·1	17	1·5
December ..	29·761	52·4	16·9	35·5	40·2	30·9	9·3	35·6	31·3	·178	2·1	0·6	·79	553	SW; NW	0·21	114	6·9	11	1·1
Means	29·780	67·5	29·0	38·5	55·6	39·9	15·7	47·1	42·6	·290	[illegible]	0·8	·83	540	– –	–	–	7·1	Sum 144	Sum 23·8

READINGS OF THERMOMETERS SUNK IN THE GROUND.

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

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	51·36	50·64	49·90	S	48·14	47·78	S	48·55	49·48	50·30	51·16	51·48
2	51·33	50·62	49·95	48·88	48·14	47·80	48·00	48·55	S	50·41	51·16	S
3	51·33	50·60	49·88	48·88	48·17	S	48·00	48·55	49·55	50·45	51·20	51·47
4	51·30	S	S	48·80	48·25	47·85	48·03	48·63	49·58	50·48	S	51·49
5	51·31	50·59	49·83	48·87	48·08	47·80	48·05	S	49·60	50·50	51·26	51·50
6	51·30	50·53	49·80	Good Friday.	S	47·82	48·05	48·68	49·60	50·57	51·33	51·48
7	S	50·52	49·75	48·80	48·04	47·80	48·05	48·72	49·65	S	51·34	51·46
8	51·21	50·47	49·73	S	48·00	47·80	S	48·72	49·68	50·60	51·35	51·45
9	51·20	50·40	49·68	48·70	48·00	47·83	48·05	48·67	S	50·61	51·37	S
10	51·15	50·43	49·64	48·72	48·00	S	48·10	48·80	49·75	50·62	51·39	51·40
11	51·12	S	S	48·65	47·95	47·82	48·10	48·80	49·80	50·66	S	51·42
12	51·10	50·38	49·58	48·68	47·95	47·80	48·15	S	49·82	50·70	51·40	51·42
13	51·10	50·38	49·60	48·60	S	47·80	48·15	48·90	49·85	50·70	51·41	51·40
14	S	50·32	49·54	48·60	47·90	47·84	48·15	48·92	49·87	S	51·42	51·42
15	51·03	50·34	49·58	S	47·90	47·85	S	48·95	49·90	50·75	51·42	51·45
16	51·03	50·28	49·52	48·54	47·90	47·85	48·15	48·98	S	50·79	51·42	S
17	51·00	50·23	49·44	48·52	47·95	S	48·20	49·00	49·96	50·82	51·45	51·39
18	50·95	S	S	48·45	47·90	47·82	48·23	49·50	50·00	50·84	S	51·40
19	50·93	50·18	49·38	48·30	47·90	47·83	48·19	S	50·04	[illegible]	51·45	51·35
20	50·95	50·20	49·35	48·42	S	47·83	48·25	49·20	50·10	50·80	51·46	51·34
21	S	50·14	[illegible]	48·39	47·90	47·85	48·30	49·18	50·13	S	51·45	51·30
22	50·86	50·12	49·24	S	47·88	47·85	S	49·17	50·15	50·95	51·47	51·20
23	50·80	50·23	49·25	48·35	47·90	47·86	48·35	49·20	S	50·95	51·48	S
24	50·79	50·10	49·18	48·32	47·85	S	48·35	49·25	50·20	50·96	51·48	51·35
25	50·82	S	S	48·28	47·85	47·90	48·36	49·35	50·24	51·00	S	Christ. Day.
26	50·74	50·03	49·25	48·26	47·85	47·95	48·40	S	50·25	51·00	51·49	51·21
27	50·80	49·97	49·25	48·25	S	47·90	48·42	49·34	50·29	51·05	51·50	51·16
28	S	50·02	49·05	48·22	47·80	47·95	48·45	49·38	50·32	S	51·50	51·26
29	50·75		49·04	S	47·80	47·95	S	49·40	50·35	51·07	51·50	51·25
30	50·72		49·00	48·16	47·85	48·00	48·50	49·44	S	51·19	51·49	S
31	50·65		49·05		47·78		48·52	49·47		51·13		[illegible]

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

From 1846, April, to 1847, December, this thermometer was read every two hours, night and day (excepting on Sundays and a few other days). During that interval of time, the monthly mean of the readings at noon was found in twelve instances to be greater by 0°·01 than the monthly mean; in one instance the excess was 0°·2, and in another case it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

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

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·28	47·52	45·28	*S*	45·12	46·80	*S*	52·47	53·79	54·96	54·26	52·03
2	49·25	47·50	45·20	44·28	45·23	46·92	49·45	52·50	*S*	54·93	54·17	*S*
3	49·19	47·33	45·16	44·28	45·45	*S*	49·52	52·54	54·35	54·94	54·15	51·84
4	49·12	*S*	*S*	44·50	45·50	47·20	49·60	52·65	54·45	54·99	*S*	51·78
5	49·13	47·45	44·95	44·42	45·45	47·15	49·60	*S*	54·45	54·95	54·05	51·70
6	49·08	47·10	44·88	Good Friday.	*S*	47·15	49·75	52·80	54·50	54·96	54·06	51·58
7	*S*	47·04	44·80	44·45	45·56	47·28	49·86	52·75	54·58	*S*	53·98	51·48
8	48·87	46·90	44·75	*S*	45·60	47·35	*S*	52·92	54·65	54·94	53·90	51·38
9	48·78	46·78	44·70	44·23	45·68	47·55	50·15	52·95	*S*	54·91	53·84	*S*
10	48·68	46·70	44·67	44·36	45·75	*S*	50·22	53·05	54·73	54·87	53·77	51·20
11	48·67	*S*	*S*	44·22	45·78	47·57	50·25	53·12	54·77	54·92	*S*	51·19
12	48·63	46·55	44·63	44·40	45·82	47·65	50·43	*S*	54·77	54·91	53·58	51·00
13	48·62	46·55	44·72	44·25	*S*	47·68	50·60	53·25	54·80	54·89	53·50	50·88
14	*S*	46·40	44·56	44·45	45·95	47·86	50·65	53·33	54·86	*S*	53·40	50·84
15	48·50	46·45	44·63	*S*	45·95	47·95	*S*	53·35	54·82	54·85	53·29	50·77
16	48·47	46·24	44·60	44·30	46·10	48·03	50·85	53·45	*S*	54·84	53·20	*S*
17	48·50	46·15	44·48	44·30	46·31	*S*	51·00	53·55	54·80	54·84	53·18	50·51
18	48·35	*S*	*S*	44·35	46·16	48·08	51·12	53·60	54·90	54·78	*S*	50·42
19	48·30	46·05	44·42	44·50	46·24	48·18	51·50	*S*	54·90	Not	53·00	50·26
20	48·80	46·10	44·40	44·42	*S*	48·33	51·52	53·65	54·95	54·78	52·94	50·15
21	*S*	45·90	Not	44·65	46·50	48·45	51·46	53·72	54·95	*S*	52·85	50·00
22	48·18	45·78	44·32	*S*	46·47	48·55	*S*	53·76	54·98	54·70	52·78	49·90
23	48·35	45·80	44·50	44·60	46·55	48·60	51·79	53·82	*S*	54·76	52·71	*S*
24	48·20	45·80	44·30	44·70	46·43	*S*	51·74	53·85	54·90	54·95	52·62	49·74
25	48·05	*S*	*S*	44·70	46·50	48·80	51·85	53·91	54·95	54·60	*S*	Christ. Day
26	48·20	45·54	44·50	44·78	46·55	48·95	51·94	*S*	54·94	54·49	52·48	49·70
27	48·00	45·42	44·30	44·85	*S*	49·15	52·03	54·00	54·99	54·43	52·40	49·25
28	*S*	45·50	44·30	44·90	46·60	49·25	52·15	54·13	54·95	*S*	52·31	49·10
29	47·85		44·30	*S*	46·65	49·20	*S*	54·14	54·95	54·38	52·22	48·35
30	47·75		44·32	45·12	46·85	49·30	52·35	54·24	*S*	54·34	52·13	*S*
31	47·57		44·30		46·75		52·41	54·26		54·34		Not

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

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

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

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	46·12	43·48	40·80	*S*	46·96	50·04	*S*	58·00	58·80	58·50	53·65	49·21
2	46·03	43·45	40·70	42·38	47·10	50·12	54·60	58·30	*S*	57·90	53·70	*S*
3	45·95	43·28	40·80	42·46	47·25	*S*	54·35	58·00	59·00	57·90	53·40	48·95
4	45·80	*S*	*S*	42·60	47·25	50·28	55·10	58·20	59·00	57·76	*S*	48·86
5	46·02	43·15	41·10	42·64	47·14	50·20	55·25	*S*	59·00	57·60	52·91	48·70
6	46·10	42·93	41·27	Good Friday.	*S*	50·38	55·60	58·50	59·00	57·60	52·90	48·50
7	*S*	42·80	41·32	42·78	47·40	50·38	55·80	59·00	59·00	*S*	52·72	48·38
8	46·10	42·67	41·42	*S*	47·42	50·58	*S*	59·00	59·00	57·50	52·51	48·19
9	46·20	42·58	41·57	42·97	47·54	50·82	56·20	59·00	*S*	57·32	52·39	*S*
10	46·20	42·50	41·64	42·97	47·60	*S*	56·45	59·00	58·00	57·19	52·29	47·80
11	46·28	*S*	*S*	43·25	47·70	51·30	56·50	59·00	58·00	57·15	*S*	47·60

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

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°		°	°	°	°	°
12	46·30	42·35	41·70	43·55	47·78	51·50	56·80	S	58·00	57·04	52·05	47·38
13	46·30	42·38	41·78	43·67	S	51·70	57·20	59·00	58·00	56·88	51·95	47·10
14	S	42·20	41·67	43·95	47·90	52·00	57·15	59·00	58·00	S	51·90	46·90
15	46·12	42·25	41·70	S	47·98	52·27	S	59·00	58·00	56·58	51·80	46·76
16	46·05	42·03	41·70	44·28	47·98	52·43	57·30	59·00	S	56·42	51·72	S
17	46·05	41·83	41·70	44·46	48·10	S	57·40	59·00	57·90	56·30	51·65	46·50
18	45·72	S	S	44·68	47·97	52·60	57·48	59·00	57·80	56·07	S	46·20
19	45·58	41·70	41·80	45·00	48·00	52·68	57·40	S	57·50	Not	51·31	46·00
20	45·40	41·68	41·95	45·20	S	52·70	57·40	58·90	57·90	55·82	51·00	45·90
21	S	41·53	Not	45·59	48·10	52·77	57·40	58·90	57·90	S	50·84	45·80
22	45·00	41·38	42·20	S	48·22	52·80	S	59·00	57·80	55·56	50·69	45·60
23	44·90	41·50	42·45	45·98	48·42	52·80	57·90	58·90	S	55·48	50·55	S
24	44·70	41·35	42·46	46·12	48·50	S	58·10	58·90	57·60	55·39	50·38	45·46
25	44·48	S	S	46·28	48·55	53·04	57·48	S	58·50	55·35	S	Christ. Day.
26	44·50	41·00	42·60	46·40	48·82	53·25	57·40	59·00	58·50	55·15	50·04	44·70
27	44·15	40·86	42·50	46·55	S	53·32	58·00	59·00	58·55	55·10	49·89	44·80
28	S	41·10	42·48	46·70	49·10	53·63	58·00	59·00	58·50	S	49·70	44·60
29	44·00		42·40	S	49·38	53·82	S	59·00	58·50	54·96	49·50	44·20
30	43·81		42·38	46·90	49·73	54·02	58·00	59·00	S	54·75	49·34	S
31	43·60		42·36		49·90		58·10	58·80		53·69		Not

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

At temperatures above 57°·5, the fluid of this thermometer enters the upper bulb. The estimated readings from July 27 to October 6 are therefore liable to some uncertainty.

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

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

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	42·00	38·12	36·27	S	47·65	51·86	S	61·73	62·50	58·90	51·38	45·12
2	42·25	38·20	37·10	39·90	47·63	51·50	60·20	61·60	S	58·75	50·90	S
3	42·70	37·97	37·80	40·10	47·82	S	60·45	61·70	61·80	58·40	49·50	44·61
4	43·10	S	S	40·53	47·90	51·60	60·70	61·80	61·72	58·19	S	44·30
5	43·48	38·00	38·70	40·53	47·95	51·88	61·10	S	61·35	58·04	48·81	44·08
6	43·63	37·78	38·78	Good Friday.	S	52·50	61·25	62·00	61·13	57·80	48·80	44·05
7	S	37·80	38·80	41·60	48·00	53·20	61·40	62·00	60·80	S	48·85	43·70
8	44·00	37·75	38·84	S	48·22	54·24	S	62·50	60·50	57·48	49·15	43·11
9	44·20	37·65	38·80	42·62	48·40	54·60	61·70	62·00	S	57·27	49·20	S
10	44·18	37·60	38·70	42·97	48·48	S	62·00	61·90	60·05	56·89	49·15	42·20
11	43·98	S	S	43·00	48·78	55·20	62·05	61·70	59·90	56·51	S	41·80
12	43·50	37·40	38·28	43·20	48·90	55·54	62·00	S	59·75	56·05	49·35	41·55
13	43·18	37·50	38·35	43·60	S	56·00	62·00	61·52	59·75	56·00	49·50	41·20
14	S	37·10	38·35	44·35	48·40	56·32	62·00	61·40	59·62	S	49·42	40·90
15	42·58	37·10	38·28	S	48·04	56·40	S	61·20	59·62	55·41	49·40	40·60
16	42·10	36·70	39·04	44·28	47·85	55·92	62·46	61·42	S	54·95	48·44	S
17	41·83	36·60	39·30	45·90	47·90	S	62·42	61·62	59·20	54·55	47·71	41·05
18	41·10	S	S	46·60	47·80	55·30	62·05	61·80	59·30	54·39	S	41·10
19	40·62	36·30	40·20	47·10	48·15	54·90	61·65	S	59·33	Not	47·20	41·05
20	40·35	36·15	40·30	47·10	S	54·75	61·45	62·30	59·78	54·45	47·19	40·80
21	S	35·97	Not	47·60	49·55	54·80	61·00	62·50	59·78	S	47·00	40·19
22	39·60	35·90	40·78	S	49·81	55·00	S	62·40	59·79	54·40	46·79	39·60
23	39·50	36·00	40·80	47·40	49·91	55·48	61·00	62·30	S	54·70	46·50	S
24	39·45	35·90	40·30	47·50	49·98	S	61·20	62·50	59·74	54·90	46·15	38·80

(IV.)—Reading of a Thermometer whose bulb is sunk to the depth of 3 French feet—*continued.*

Day of the Month, 1855.	January.	February.	March.	April.	May.	June	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
25	39 ·10	*S*	*S*	46 ·28	50 ·40	56 ·50	61 ·38	62 ·55	59 ·90	54 ·70	*S*	Christ. Day.
26	39 ·10	35 ·60	39 ·80	46 ·40	51 ·20	56 ·82	61 ·30	*S*	59 ·55	54 ·12	45 ·75	37 ·50
27	39 ·00	35 ·55	39 ·50	47 ·50	*S*	57 ·25	61 ·12	62 ·40	59 ·05	53 ·80	45 ·34	38 ·80
28	*S*	36 ·00	39 ·44	47 ·72	52 ·78	57 ·90	60 ·90	62 ·40	58 ·80	*S*	45 ·21	39 ·80
29	38 ·70		39 ·50	*S*	53 ·10	58 ·50	*S*	62 ·44	58 ·66	52 ·70	45 ·30	40 ·45
30	38 ·56		39 ·65	47 ·70	52 ·90	59 ·05	61 ·10	62 ·50	*S*	52 ·25	45 ·28	*S*
31	38 ·25		39 ·70		52 ·30		61 ·39	62 ·50		51 ·50		

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

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

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

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	45 ·0	38 ·0	40 ·8	*S*	48 ·0	51 ·0	*S*	65 ·0	64 ·5	60 ·0	44 ·0	40 ·6
2	47 ·0	29 ·0	44 ·8	37 ·0	52 ·0	53 ·0	68 ·0	66 ·5	*S*	57 ·5	42 ·0	*S*
3	47 ·0	35 ·0	43 ·8	43 ·8	51 ·0	*S*	69 ·0	66 ·0	62 ·0	57 ·0	45 ·0	38 ·0
4	45 ·0	*S*	*S*	46 ·0	48 ·0	58 ·0	69 ·0	66 ·0	65 ·0	61 ·0	*S*	41 ·5
5	45 ·7	37 ·0	42 ·0	44 ·5	48 ·0	58 ·0	66 ·0	*S*	61 ·0	58 ·0	42 ·0	43 ·0
6	48 ·7	36 ·3	41 ·0	Good Friday.	*S*	66 ·0	67 ·0	65 ·0	58 ·0	58 ·0	49 ·1	39 ·0
7	*S*	35 ·5	38 ·0	50 ·0	53 ·0	61 ·0	65 ·5	67 ·0	60 ·0	*S*	51 ·0	38 ·0
8	46 ·0	33 ·0	38 ·0	*S*	49 ·4	62 ·0	*S*	68 ·0	60 ·0	58 ·0	49 ·5	37 ·5
9	46 ·0	33 ·0	38 ·0	48 ·0	51 ·0	60 ·0	67 ·0	62 ·5	*S*	57 ·0	47 ·5	*S*
10	42 ·0	33 ·0	36 ·0	47 ·0	54 ·0	*S*	69 ·5	63 ·5	61 ·0	52 ·0	50 ·0	36 ·0
11	38 ·0	*S*	*S*	48 ·0	53 ·0	63 ·5	60 ·0	65 ·0	61 ·0	55 ·0	*S*	34 ·0
12	42 ·0	34 ·0	40 ·8	50 ·0	48 ·2	63 ·0	64 ·0	*S*	60 ·0	57 ·0	49 ·0	35 ·0
13	41 ·0	29 ·0	40 ·5	51 ·0	*S*	63 ·0	70 ·0	64 ·0	61 ·5	54 ·0	47 ·5	32 ·0
14	*S*	32 ·0	41 ·0	50 ·0	48 ·0	57 ·0	70 ·0	63 ·6	57 ·8	*S*	45 ·8	37 ·0
15	36 ·5	32 ·0	40 ·8	*S*	48 ·0	58 ·5	*S*	64 ·5	57 ·0	51 ·0	41 ·5	43 ·0
16	39 ·0	33 ·0	46 ·0	53 ·0	48 ·2	56 ·5	64 ·8	66 ·0	*S*	51 ·0	39 ·0	*S*
17	34 ·0	31 ·5	44 ·0	56 ·0	51 ·0	*S*	63 ·0	67 ·4	59 ·0	55 ·0	43 ·8	37 ·0
18	30 ·0	*S*	*S*	51 ·0	53 ·0	55 ·0	64 ·5	68 ·0	62 ·0	54 ·0	*S*	40 ·0
19	30 ·0	29 ·0	44 ·0	50 ·6	56 ·0	56 ·0	61 ·0	*S*	62 ·0	Rest	44 ·0	32 ·0
20	34 ·0	20 ·0	45 ·0	52 ·0	*S*	57 ·0	62 ·0	66 ·0	63 ·0	55 ·0	43 ·5	32 ·0
21	*S*	31 ·0	Rest	50 ·0	55 ·0	58 ·0	63 ·5	66 ·0	64 ·0	*S*	42 ·0	29 ·0
22	33 ·0	33 ·0	39 ·8	*S*	51 ·5	63 ·0	*S*	65 ·5	63 ·0	56 ·5	42 ·5	30 ·0
23	32 ·0	38 ·6	40 ·0	50 ·5	56 ·0	64 ·8	68 ·5	67 ·3	*S*	57 ·5	41 ·5	*S*
24	33 ·0	35 ·0	37 ·0	50 ·0	57 ·0	*S*	65 ·0	68 ·0	61 ·2	53 ·0	42 ·0	40 ·0
25	36 ·0	*S*	*S*	49 ·0	63 ·0	63 ·5	64 ·0	66 ·0	60 ·0	51 ·5	*S*	Christ. Day
26	33 ·0	37 ·0	43 ·0	48 ·8	66 ·2	65 ·0	62 ·5	*S*	57 ·0	52 ·0	40 ·0	45 ·0
27	34 ·0	36 ·0	39 ·0	49 ·8	*S*	70 ·0	63 ·5	64 ·5	57 ·0	48 ·0	42 ·0	47 ·0
28	*S*	40 ·0	42 ·0	49 ·0	59 ·5	70 ·0	64 ·0	69 ·5	63 ·5	*S*	44 ·5	46 ·0
29	34 ·0		40 ·0	*S*	53 ·0	70 ·0	*S*	67 ·0	62 ·0	49 ·5	43 ·1	46 ·0
30	34 ·8		40 ·8	48 ·8	54 ·0	70 ·0	68 ·0	66 ·5	*S*	52 ·0	41 ·0	*S*
31	31 ·0		41 ·0		52 ·0		66 ·0	66 ·5		51 ·0		Rest

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

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

Day of the Month, 1855.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	Novemb r.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	49·0	32·0	47·0	*S*	48·5	50·8	*S*	70·0	68·0	64·5	42·0	38·9
2	48·5	30·0	50·7	39·0	62·0	56·5	75·0	73·5	*S*	60·5	39·0	*S*
3	48·5	33·8	45·0	49·0	52·5	*S*	75·0	71·5	63·5	59·0	42·0	37·0
4	45·5	*S*	*S*	48·5	49·0	62·0	73·2	68·0	63·5	65·0	*S*	43·0
5	47·6	40·0	47·5	53·2	55·5	63·5	73·0	*S*	63·5	60·9	42·0	43·5
6	49·6	35·0	46·8	Good Friday.	*S*	80·8	73·0	68·0	59·7	62·0	55·0	38·5
7	*S*	33·5	40·0	56·0	58·5	63·5	67·0	70·0	66·0	*S*	53·5	37·0
8	47·0	31·0	42·0	*S*	50·5	68·5	*S*	69·5	70·0	63·5	50·0	35·0
9	48·5	29·0	39·8	51·4	59·8	61·5	69·0	62·0	*S*	64·5	52·0	*S*
10	39·0	30·0	34·0	50·0	59·8	*S*	74·0	67·5	67·0	51·0	53·0	34·0
11	36·0	*S*	*S*	51·5	58·0	71·0	63·0	71·0	68·0	56·0	*S*	31·0
12	38·8	36·0	44·8	57·5	48·5	69·0	67·5	*S*	65·2	58·5	49·5	33·5
13	41·5	30·0	42·5	51·5	*S*	65·8	78·2	68·5	64·0	58·0	46·0	28·5
14	*S*	30·0	43·5	56·0	49·5	55·0	73·5	70·0	57·4	*S*	45·0	38·0
15	33·0	33·5	44·8	*S*	48·5	59·5	*S*	67·0	61·0	56·0	39·7	46·0
16	38·5	33·5	48·5	66·5	49·5	56·0	64·3	73·5	*S*	54·0	38·7	*S*
17	30·0	28·0	46·8	65·0	57·5	*S*	63·8	75·0	58·5	61·0	44·0	36·0
18	33·0	*S*	*S*	56·0	58·5	58·5	69·0	75·0	66·4	53·5	*S*	41·0
19	29·5	30·5	50·5	60·0	64·5	59·5	58·0	*S*	66·0	Not	41·0	28·0
20	31·0	33·5	53·0	61·0	*S*	63·0	64·0	67·5	72·0	61·5	41·5	29·0
21	*S*	33·0	Not	54·5	54·0	67·0	70·0	70·0	72·0	*S*	39·6	23·0
22	30·5	36·0	37·0	*S*	51·8	71·5	*S*	71·5	71·5	58·5	40·5	25·0
23	34·0	36·0	39·0	58·0	59·5	68·0	76·0	71·5	*S*	58·5	41·0	*S*
24	35·0	38·5	36·5	63·0	66·5	*S*	67·0	73·0	62·0	53·5	41·0	45·0
25	38·0	*S*	*S*	46·5	70·0	70·0	66·5	70·2	66·5	52·5	*S*	Christ. Day.
26	34·4	39·8	43·5	54·0	80·5	71·0	65·0	*S*	62·0	52·0	42·0	47·0
27	34·8	37·5	40·5	56·0	*S*	83·0	66·5	68·5	65·0	48·5	44·5	50·0
28	*S*	45·5	43·5	55·5	57·0	77·5	67·[illegible]	76·0	66·0	*S*	44·5	51·0
29	35·0		41·5	*S*	51·5	77·5	[illegible]	71·5	64·7	51·0	43·0	49·0
30	31·8		43·0	49·8	51·5	75·[illegible]	[illegible]·0	74·0	*S*	52·5	40·8	*S*
31	29·5		44·0		48·5	[illegible]	[illegible]·5	73·5		49·0		Not

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

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

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

		d	h	
1854.	Dec.	31.	12.	The direction of the wind was W.
1855.	Jan.	31.	12.	,, ,, N.E., which implies a direct motion of 135°.
	Jan.	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	19.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	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 retrogade motion in the month of January was 225°.

		d	h	
1855.	Jan.	31.	12.	The direction of the wind was N.E.
	Feb.	28.	12.	,, ,, S.W., which implies a retrograde motion of 180°.
	Feb.	4.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Feb.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	23.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	25.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of retrograde motion in the month of February was 540°.

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

		d	h	
1855.	Feb.	28.	12.	The direction of the wind was S.W.
	March	31.	12.	,, ,, N.E., which implies a direct motion of 540°.
	March	5.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	March	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	19.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	March	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	28.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	March	31.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.

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

		d	h	
1855.	March	31.	12.	The direction of the wind was N.E.
	April	30.	12.	,, ,, N.N.E., which implies a retrograde motion of $382\frac{1}{2}$°.
	April	2.	4.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	4.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	18.	6.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	27.	3.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	27.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of April was $742\frac{1}{2}$°.

		d	h	
1855.	April	30.	12.	The direction of the wind was N.N.E.
	May	31.	12.	,, ,, S.E., which implies a direct motion of $112\frac{1}{2}$°.
	May	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	13.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	May	17.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	May	24.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	25.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	26.	4.	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 May was $1192\frac{1}{2}$°.

		d	h	
1855.	May	31.	12.	The direction of the wind was S.E.
	June	30.	12.	,, ,, S.W., which implies a retrograde motion of 270°.
	June	0.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	6.	6.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	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	13.	3.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	28.	3.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	28.	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 1170°.

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

		d	h	
1855.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, S.W., which implies no change.
	July	6.	2.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	6.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	9.	3.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	18.	4.	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 second set of lines upwards, which implies apparent retrograde motion of 360°.
	July	23.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of July was 720°.

		d	h	
1855.	July	31.	12.	The direction of the wind was S.W.
	August	31.	12.	,, ,, E.N.E., which implies a retrograde motion of 157½°.
	August	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	6.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	11.	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 downwards, which implies apparent direct motion of 360°.
	August	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	22.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	August	23.	4.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	31.	4.	The trace was shifted to the second set of lines downwards which implies apparent direct motion of 720°.
	August	31.	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 922½°.

		d	h	
1855.	August	31.	12.	The direction of the wind was E.N.E.
	Sept.	30.	12.	,, ,, S.W., which implies a direct motion of 517½°.
	Sept.	3.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	5.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	7.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	8.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Sept.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	26.	4.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Sept.	30.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.

Therefore the whole excess of direct motion in the month of September was 1957½°.

		d	h	
1855.	Sept.	30.	12.	The direction of the wind was S.W.
	Oct.	31.	12.	,, ,, N., which implies a retrograde motion of 225°.
	Oct.	8.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of October was 225°.

1855.	Oct.	31.	12.	The direction of the wind was N.
	Nov.	30.	12.	,, ,, W., which implies a retrograde motion of 90°.
	Nov.	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	12.	4.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	14.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360.
	Nov.	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 retrograde motion in the month of November was 810°.

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

		d	h	
1855.	Nov.	30.	12.	The direction of the wind was **W.**
	Dec.	31.	12.	,, ,, S., which implies a retrograde motion of 90°.
	Dec.	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Dec.	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Dec.	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of December was 270°.

The whole excess of direct motion to the end of the year was 3870°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1855.

1855, 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	0·2	1·0	0·8	1·5
February	0·2	1·4	1·3	1·0
March	0·5	1·3	1·4	2·0
April	0·1	0·1	0·2	0·1
May	0·5	1·5	1·7	1·8
June	0·5	0·7	0·8	0·9
July	3·1	4·8	4·9	5·3
August	0·6	0·8	1·1	1·4
September	0·8	1·1	1·2	2·0
October	2·6	4·5	4·5	5·2
November	0·5	1·1	1·2	1·5
December	0·4	0·9	1·1	1·1
Sums	10·0	19·2	20·2	23·8

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	.....		5