RESULTS

OF THE

MAGNETICAL AND METEOROLOGICAL

OBSERVATIONS

MADE AT

THE ROYAL OBSERVATORY, GREENWICH,

1854.

(EXTRACTED FROM THE GREENWICH OBSERVATIONS, 1854.)

ROYAL OBSERVATORY, GREENWICH.

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INDICATIONS

OF

MAGNETOMETERS.

1854.

The establishment of Assistants in the Magnetical and Meteorological Department of the Royal Observatory consisted during the year 1854, of Mr. Glaisher, the Superintendant, and Mr. Downs ; with two or 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 1854, Telescope-Observations of the Magnetometers have usually been made four times every day, except on Sundays, on which days two observations only have been taken ; but, though these observations are employed in forming the base-lines on the Photographic sheets, their immediate results are not necessarily given in the following pages.

Observations were made of the reading of the Horizontal Circle of the Theodolite, by which the DECLINATION MAGNET is observed, corresponding to the Astronomical Meridian, on January 14, 21, February 4, 24, March 4, 25, April 5, 6, 29, May 5, 12, June 24, July 21, 22, September 11, 15, 22, 29, November 1, 6, 25, December 5, 11 and 26.

Observations were made of the Collimation of the Declination Magnetometer ; of the Collimation of the Theodolite-Telescope ; and of the Torsion-force of the Suspension skein, on January 2 and 3.

Observations of the Angle of Torsion of the HORIZONTAL FORCE MAGNETOMETER, were made on January 5 and 6. The angle determined was 43°. 15′. 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 usual value when the reading of the torsion-circle was 143°. 30′ (marked end West); and 230°.11′ (marked end East). The reading adopted for the adjustment of the torsion-circle throughout the year (marked end West) is 143°. 30′.

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 0·0020417.

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

Observations of the times of vibration of the VERTICAL FORCE MAGNETOMETER in a vertical plane have usually been made three or four times a week. The adopted time of vibration till February 4, was $22^s{\cdot}9$; from February 5 to April 5, $24^s{\cdot}5$; from April 6 to May 25, $26^s{\cdot}6$; from May 26 to June 28, $28^s{\cdot}5$; from June 29 to October 31, $18^s{\cdot}5$; and from November to the end of the year, $17^s{\cdot}3$. 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 0·000739 till February 4; 0·000646 from February 5 to April 5 ; 0·000548 from April 6 to May 25 ; 0·000477 from May 26 to June 28; 0·001132 from June 29 to October 31; and 0·001295 from November 1 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 five preceding volumes has still occasionally been felt. Apparently, without cause, the curve is dislocated; one part being raised above or depressed below the contiguous part, in the direction of the ordinate, usually by small quantities, but, at times, by a considerable quantity. In all cases the displacement is accompanied by vibration, the original position being at the extremity of the arc of vibration, and the new position being at its center; showing that there has been no want of delicacy in the movement, and that the change is precisely the same as would be caused by the quiet application of a small weight upon one end of the magnet.

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

At 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.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		Jan. 1 h m		Jan. 1 h m	°	°
				0. 0	·01591	10. 40		42 ·5
				1. 4	·01675	21. 40		38 ·5
				3. 6	·01683			
				5. 28	·01565			
				7. 38:	·01448			
				10. 4	·01445			
				12. 0	·01395			
				13. 32	·01598			
				13. 58	·01595			
				14. 44	{·01644 ·01600			
				18. 13	·01596			
				19. 22	·01627			
				20. 41	·01605			
				23. 33	·01598			
				23. 59	·01575			
				Jan. 2		Jan. 2		
				1. 40	·01529*	1. 40		41 ·0
				3. 40	·01516*	3. 40		43 ·5
				9. 40	·00888*	9. 40		43 ·0
				21. 40	·00699*	21. 40		37 ·0
				Jan. 3		Jan. 3		
				1. 40	·01662*	1. 40		37 ·5
				3. 40	·01492*	3. 40		40 ·0
				10. 40	·00901*	10. 40		41 ·0
				21. 40	·00699*	21. 40		42 ·5
				Jan. 4		Jan. 4		
				0. 47	·00671	1. 40		43 ·0
				1. 38	·00700	3. 40		45 ·5
				3. 14	·00810	9. 40		46 ·5
				5. 16:	·00872	21. 40		44 ·5
				7. 35	·00807			
				8. 7	·00832			
				14. 17	·00932			
				17. 46	·01070			
				19. 55	·01170			
				21. 4	·01180			
				22. 12	·01215			
				23. 59	·01158			
				Jan. 5		Jan. 5		
				0. 15	·01150	1. 40		46 ·0
				1. 28	·01102	3. 40		49 ·0
				3. 0	·00972	9. 40		48 ·8
				4. 16	{·00898 ·00927	21. 40		44 ·0
				4. 50	·00940			
				5. 2	·00995			
				5. 32	·00975			
				8. 0	·00980			
				10. 39	·01030			
				13. 53	·01138			
				17. 2	·01295			
				18. 17	·01378			
				19. 8:	·01455			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		Jan. 5 h m		h m	°	°
				20. 50	·01502			
				21. 56	·01560			
				23. 59	·01570			
				Jan. 6		Jan. 6		
				0. 15	·01575	1. 40		46 ·0
				1. 8	·01584	3. 40		48 ·0
				3. 45:	·01392	9. 40		48 ·0
				5. 32	·01315	21. 40		44 ·0
				7. 42:	·01230			
				10. 18	·01283			
				13. 19	·01435			
				14. 19	·01463			
				17. 58	·01668			
				18. 53	·01738			
				21. 6	·01736			
				23. 43	·01643			
		Jan. 7		Jan. 7		Jan. 7		
		0. 0	·1043	0. 17	·01270	1. 40	45 ·8	47 ·0
		0. 58	·1042	1. 13:	·01235	3. 40	47 ·0	49 ·0
		2. 23	·1035	3. 48	{·00998 ·01075	9. 40	48 ·5	48 ·5
		4. 6	·1036			23. 20	46 ·0	48 ·5
		5. 35	·1041	4. 19	·01053			
		6. 45	·1036	5. 18	·01072			
		8. 22	·1028	8. 16	·01000			
		8. 48	***	10. 10	·01018			
		9. 2	·1039	10. 33	·00998			
		9. 13	·1034	13. 20	·01027			
		9. 37	***	14. 52	·01000			
		10. 17	·1033	15. 33	·00923			
		10. 45	·1050	16. 2	·00995			
		11. 11	·1035	16. 43	·00990			
		11. 31	·1033	23. 57	·01137			
		12. 9	***					
		13. 57	·1041					
		14. 24	·1037					
		14. 51	·1055					
		15. 3	***					
		15. 38	·1041					
		16. 5	·1063					
		16. 54	·1059					
		17. 44	·1046					
		17. 56	***					
		19. 54	·1049					
		21. 14	·1027					
		22. 18	·1040					
		23. 38	·1031					
		23. 56	·1041					
			·1013					
		Jan. 8		Jan. 8		Jan. 8		
		0. 10	·1006	0. 18	·01140	9. 40	47 ·5	49 ·0
			***	0. 31	·01112	21. 40	44 ·0	46 ·5
		0. 25	·1026	1. 21	·01124			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		Jan. 7 h m		h m	°	°
	22. 7. 10							
	7. 20							
	4. 25							
	3. 25							
	7. 30							
	4. 0							
	3. 25							
	22. 4. 0							
	21. 57. 30							
	55. 25							
	21. 55. 0							
	22. 4. 15							
	1. 30							
	1. 45							
	0. 20							
	2. 35							
	4. 35							
	2. 20							
	3. 15							
	7. 30							
	0. 35							
	22. 5. 0							
	21. 55. 35							
	22. 2. 40							
	1. 30							
	***							
	3. 20							
	***							
	10. 45							
	***							
	6. 20							
	***							
	10. 10							
	13. 50							
	22. 14. 30							
	***							
	14. 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.

Till January 7, the adjustments of the Declination and Horizontal Force Magnetometers were under examination.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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	°	°
0. 40	22. 10. 0	2. 38	·1030	2. 53	·01005			
	***		***		·01133			
1. 20	10. 0	3. 37	·1000	5. 52	·01100			
2. 38	9. 50	4. 10	·1018	7. 0	·01105			
3. 13	14. 15	5. 4	·1018	8. 30:	·01073			
3. 30	14. 20	5. 14	·1013	10. 37	·01140			
3. 52	7. 40	5. 26	·1020	11. 3	·01088			
4. 42	7. 30	5. 52	·0986	12. 8	·01100			
5. 2	22. 5. 15	6. 1	·0986	13. 19:	·01225			
5. 30	21. 58. 30		***	14. 37	·01278			
5. 38	59. 10	6. 45	·1029	18. 15	·01533			
6. 7	45. 0	7. 7	·1026	19. 51:	·01615			
6. 12	45. 45	7. 18	·1012	21. 36	·01635			
6. 28:	21. 42. 0	8. 0	·1031	21. 46	·01555			
7. 17	22. 1. 25		***	23. 59	·01515			
7. 27	1. 0	10. 15	·1030					
7. 38	3. 0	10. 53	·1099					
9. 44	22. 2. 30	11. 3	·1077					
10. 7	21. 59. 25	11. 17	·1085					
10. 19	59. 20	11. 45	·1049					
10. 42	50. 25	11. 50	·1050					
10. 58	59. 50	12. 17	·1020					
11. 6	21. 54. 30		***					
11. 38	22. 7. 30	14. 4	·1034					
11. 50	7. 10	14. 30	·1026					
12. 4	9. 30	14. 54	·1035					
12. 38	1. 25	16. 15	·1041					
13. 13	3. 0		***					
	***	18. 45	·1044					
13. 33	2. 15	21. 40	·1027					
	***		***					
14. 23	8. 25	23. 59	·1020					
14. 50	5. 30							
15. 8	8. 25							
16. 22	4. 0							
	***							
18. 43	3. 0							
	***							
21. 43	5. 15							
	***							
23. 59	5. 30							
	***							
Jan. 9		Jan. 9		Jan. 9		Jan. 9		
0. 15	22. 6. 0	0. 40	·1018	0. 7	·01507	1. 40	47 ·0	48 ·5
	***		***	1. 40	·01412	3. 40	49 ·5	51 ·0
1. 12	7. 30	2. 25	·1022	4. 36	·01085	9. 40	49 ·3	51 ·5
3. 55	3. 0		***		·01156	21. 40	44 ·0	48 ·0
6. 26	4. 30	4. 15:	·1010	7. 52:	·01028			
6. 59:	0. 35	6. 33	·1019	14. 13	·01183			
7. 33	4. 0	6. 40	·1014	18. 58	·01475			
8. 50	3. 20	7. 56	·1025	20. 53	·01543			
16. 3	4. 35	10. 38	·1033	22. 18	·01614			
20. 47	3. 30	14. 35	·1028	23. 59	·01628			
	***	17. 18	·1035					
23. 17	6. 35	20. 30	·1035					
23. 59	5. 25	21. 40	·1023					
		23. 59	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 10		Jan. 10		Jan. 10		Jan. 10		
h m	° ′ ″	h m		h m		h m	°	°
0. 13	22. 7. 35	0. 10	·1020	0. 7	·01624	1. 40	46 ·7	48 ·8
0. 32	8. 30		***	1. 46	·01590	3. 40	48 ·0	50 ·5
3. 52	4. 20	2. 20	·1024	2. 46:	·01530	9. 40	50 ·5	51 ·5
9. 53	3. 30	5. 15	·1010	4. 3:	·01358	21. 40	44 ·0	47 ·5
12. 32	4. 50	7. 45	·1019	5. 16:	·01250			
16. 2	5. 0	16. 21	·1040	7. 17	·01045			
21. 5	2. 10	18. 30	·1041		·01100			
23. 59	5. 0	20. 15	·1044	9. 13:	·01054			
		23. 15	·1017	11. 37	·01100			
		23. 59	·1013	15. 8:	·01225			
				18. 50	·01478			
				20. 40	·01573			
				23. 0	·01783			
				23. 59	·01753			
Jan. 11		Jan. 11		Jan. 11		Jan. 11		
0. 50	22. 6. 30	1. 34	·1010	0. 55	·01738	1. 40	47 ·0	50 ·0
1. 22	9. 0	2. 0	·1018	3. 37:	·01577	3. 40	49 ·0	50 ·0
1. 52	6. 10	2. 45	·1018	6. 37:	·01330	9. 40	48 ·5	50 ·0
2. 28	7. 5	3. 10	·1010	8. 35:	·01298	21. 40	43 ·5	46 ·0
	***	4. 22	·1014	12. 31	·01418			
3. 17	5. 15	4. 40	·1006	13. 5	·01403			
4. 3	6. 30	6. 16	·1018	13. 53	·01428			
4. 17	4. 25	8. 10	·1014	19. 30	·01755			
4. 37	5. 45	9. 46	·1025	21. 12	·01815			
8. 25	2. 35	12. 15	·1027		·01777			
	***	12. 40	·1042	21. 48	·01798			
11. 27	3. 35	13. 15	·1026	22. 31	·01770			
11. 53	2. 20		***	23. 48	·01812			
12. 37	5. 10	15. 40	·1035					
13. 6	1. 5	16. 40	·1034					
13. 32	9. 30	17. 15:	·1046					
13. 53	4. 40	18. 3	·1042					
14. 42:	3. 0	18. 45	·1044					
15. 16	4. 15	19. 44	·1034					
15. 37	2. 0	20. 35	·1043					
16. 16	3. 30	21. 15	·1043					
16. 40	7. 45		***					
17. 36	1. 40	23. 40	·1016					
17. 58	1. 30							
18. 15	4. 5							
19. 4	5. 30							
19. 55	11. 40							
20. 23	9. 45							
20. 53	5. 0							
21. 16	5. 35							
21. 33	4. 10							
22. 3	6. 30							
23. 43	7. 0							
Jan. 12		Jan. 12		Jan. 12		Jan. 12		
0. 0	22. 8. 0	0. 0	·1020	0. 0	·01814	1. 40	45 ·5	47 ·5
0. 34	8. 50	0. 44	·1023	2. 42	·01805	3. 40	48 ·5	48 ·5
0. 47	11. 30	1. 23	·1012	3. 45	·01693	9. 40	47 ·5	48 ·5
	***	2. 5	·1013	4. 27	·01668	21. 40	44 ·5	48 ·0
2. 2	7. 55	2. 50	·1000	6. 38	·01443			
	***		***	9. 2	·01392			

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. 12		Jan. 12		Jan. 12		h m	°	°
h m	° ′ ″	h m		h m				
2. 38	22. 9. 30	4. 18	·1013	9. 26	·01445			
2. 54	5. 30	4. 37	·1006	10. 0	·01422			
3. 37	4. 30	5. 38	·1017	12. 46	·01570			
4. 5	5. 30	5. 52	·1008	13. 6	·01562			
4. 25	4. 22	6. 14	·1016		***			
4. 47	5. 25	6. 45	·1010	17. 3	{·01805			
5. 58	4. 40	7. 13	·1014		{·01772			
6. 6	3. 15	7. 45	·1010	19. 13:	·01811			
7. 3	22. 4. 0	8. 0	·1018	22. 13	·01730			
8. 0	21. 59. 30	8. 45	·1006	23. 10	·01683			
8. 15	22. 2. 30	9. 0	·0980	23. 50	·01675			
8. 47	21. 58. 0	9. 24	·1046					
9. 12	21. 24. 30	9. 47	·1020					
9. 46	22. 2. 30	10. 30	·1030					
9. 59	1. 25		***					
10. 38	4. 0	12. 0	·1027					
11. 3	2. 0		***					
11. 21	3. 25	12. 50	·1038					
12. 22	1. 10	13. 18	·1030					
12. 47	9. 30	13. 52:	·1042					
13. 17:	2. 30	14. 53:	·1028					
13. 39	5. 25	17. 5	·1034					
14. 3	22. 1. 10	18. 14	·1042					
14. 32	21. 59. 40	18. 30	·1037					
15. 35	22. 6. 0	19. 35	·1038					
15. 59	5. 0		***					
16. 33	8. 0	21. 38	·1016					
17. 53	3. 10	23. 45	·1027					
18. 20:	5. 30							
18. 37	2. 25							
18. 55	1. 50							
19. 15	4. 0							
20. 31	4. 0							
21. 28	7. 45							
21. 46	6. 35							
22. 30	8. 20							
23. 6	6. 30							
23. 40	8. 0							
Jan. 13		Jan. 13		Jan. 13		Jan. 13		
0. 0	22. 8. 40	0. 0	·1026	0. 0	·01702	1. 40	46 ·7	49 ·0
	***	1. 0	·1020	2. 0	·01656	3. 40	49 ·0	51 ·5
1. 20	8. 30	1. 13	·1011	2. 58	·01524	9. 40	48 ·8	51 ·0
3. 26	4. 20	1. 37	·1009	3. 33	·01398	21. 40	45 ·5	48 ·0
3. 61	2. 0	2. 23	·1017	4. 40	·01222			
5. 18	2. 50	4. 0	·1023	5. 10	·01183			
5. 32	4. 30	4. 32	·1017	5. 58	·01098			
7. 38	4. 30	5. 35	·1013	7. 29:	·01032			
7. 56	2. 50	6. 0	·1027	11. 37:	·01160			
8. 15	22. 4. 0	7. 40	·1020	13. 13	·01248			
8. 35	21. 57. 30	8. 7	·1023	13. 43	·01250			
9. 5	22. 0. 30	8. 29	·1017	16. 35:	·01425			
9. 22	21. 56. 30	8. 45	·1027	20. 32	·01528			
9. 48	21. 59. 0	9. 10	·1023	23. 37	·01596			
10. 10	22. 3. 0	9. 27	·1031	23. 59	·01702			
	***	10. 15	·1022					
12. 30	3. 45	10. 53	·1029					
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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						
14. 17	22. 0. 30	12. 44	·1025					
14. 47	2. 15		***					
16. 7	2. 0	13. 30	·1040					
16. 35	5. 45	14. 0	·1029					
17. 25	3. 15	14. 45	·1033					
17. 42	0. 35	15. 38	·1031					
18. 7	4. 10	16. 53	·1037					
19. 33	3. 0	20. 30	·1036					
21. 18	5. 10	21. 31	·1021					
21. 33	7. 0	21. 50	·1027					
22. 14	7. 30	23. 59	·1018					
22. 43	10. 5							
23. 43	8. 45							
23. 56	10. 30							
Jan. 14		Jan. 14		Jan. 14		Jan. 14		
0. 23	22. 8. 5	0. 46	·1023	0. 40	·01582	1. 40	48 ·0	51 ·0
1. 0	9. 0	1. 23	·1013	2. 12	·01528	3. 40	51 ·0	53 ·0
2. 15	4. 55	1. 50	·1011		{·01152	9. 40	49 ·5	53 ·0
2. 26	5. 50	3. 16	·1018	4. 9	{·01198	23. 10	45 ·0	47 ·2
3. 17	4. 30	4. 10	·1010	7. 18	·01148			
4. 10	5. 0	5. 30	·1009	11. 4	·01320			
5. 42	22. 2. 0	6. 0	·0987	17. 10	·01862			
6. 13	21. 49. 25	6. 36	·1015	17. 14	·01830			
6. 58	22 3. 30	7. 0	·1007	20. 53	·01845			
	***		***	22. 0:	·01810			
7. 49	22. 4. 30	8. 17	·1013	23. 59	·01872			
8. 43	21. 58. 20	8. 35	·1007					
9. 22	22. 1. 35	9. 40	·1013					
9. 52	21. 56. 30	10. 5	·1025					
10. 6	58. 40	10. 15	·1018					
10. 25	58. 50	10. 53	·1015					
11. 5	21. 50. 0	11. 17	·1025					
11. 44:	22. 3. 0	11. 34	·1020					
12. 43	1. 45	11. 56	·1032					
13. 46	3. 35	12. 15	·1024					
14. 10	3. 0	12. 28	·1028					
14. 31	5. 45	13. 5	·1024					
15. 9	3. 30		***					
15. 52	6. 30	14. 38	·1033					
16. 57	1. 35	15. 23	·1029					
	***		***					
17. 37	1. 30	17. 0	·1043					
18. 31	4. 40	17. 50	·1034					
18. 42	3. 0		***					
	***	19. 22	·1038					
22. 4	4. 30		***					
	***	22. 20	·1029					
23. 5	7. 45	23. 15	·1035					
23. 20	7. 5							
Jan. 15		Jan. 15		Jan. 15		Jan. 15		
0. 8	22. 6. 30	0. 0	·1028	0. 20	·01838	10. 45	44 ·5	48 ·0
	***	0. 36	·1035	2. 42:	·01895	21. 40	44 ·8	48 ·0
0. 52	6. 50	1. 32	·1037	4. 50	·01828			
0. 59	8. 45	1. 47	·1030	6. 0:	·01805			
1. 57	7. 35	2. 47	·1035	7. 50:	·01725			
2. 44	5. 15	4. 17	·1036	10. 42	·01675			

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. 15		Jan. 15		Jan. 15				
h m	° ′ ″	h m		h m		h m	°	°
4. 36	22. 4.55	4. 45	·1023	12. 58	·01694			
	***		***	15. 38	·01685			
5. 20	1. 20	5. 53	·1027	19. 13	·01735			
	***	6. 32	·1024	22. 4	·01745			
6. 20:	5. 0	7. 57	·1025	22. 23	·01700			
7. 0	3. 30	8. 5	·1021	23. 59	·01655			
7. 23	22. 5. 0	8. 35	·1028					
8. 17	21. 58. 45	8. 58	·1026					
8. 42	22. 0. 10	9. 50	·1033					
9. 7	21. 58. 30	10. 10	·1023					
9. 33	22. 0. 30	10. 45	·1042					
9. 47	21. 57. 0	11. 26	·1032					
9. 53	58. 30	13. 30	·1032					
10. 8	58. 30		***					
10. 23	52. 30	17. 30	·1044					
10. 45	51. 0	17. 50	·1040					
10. 56	21. 55. 0	18. 29	·1047					
11. 57	22. 4. 0	19. 35	·1047					
15. 41	6. 30	22. 30	·1020					
	***	23. 59	·1017					
19. 6	4. 5							
21. 28	6. 40							
22. 48	5. 30							
23. 39	7. 30							
23. 59	6. 35							
Jan. 16		Jan. 16		Jan. 16		Jan. 16		
0. 58	22. 8. 25	0. 5	·1017	0. 12	·01640	1. 40	48. 4	50. 5
1. 42	9. 0	1. 8	·1021	1. 30	·01543	3. 40	50. 5	52. 5
2. 0	6. 35	1. 35	·1025	2. 34	·01444	9. 40	51. 0	52. 6
2. 30	6. 10	2. 15	·1021	3. 6	·01345	21. 40	49. 5	52. 3
2. 38	8. 35	2. 53	·1030	4. 18	·01180			
3. 14	8. 20	3. 20	·1013	5. 31	·01077			
3. 22	11. 15		***		·01105			
	***	3. 45	·1014	7. 5	·01052			
4. 3	8. 40	4. 0	·1005	9. 4	·01035			
	***		***	9. 53	·01021			
4. 40:	4. 0	4. 2	·1008	12. 5	·01050			
5. 18	7. 0	4. 50	·1024	14. 14	·01020			
	***	5. 20	·1027	15. 1:	·00949			
8. 2	2. 25	5. 30	·1021	15. 32	·01095			
	***	6. 50	·1025	16. 36	·01024			
9. 0	3. 30	6. 55	·1040	18. 54:	·01135			
9. 18	22. 2. 15	7. 12	·1023	20. 30	·01162			
9. 36	21. 51. 35		***	21. 23	·01203			
10. 0	22. 2. 10	7. 55	·1025	23. 35	·01212			
	***	8. 20	·1017	23. 59	·01197			
10. 40	21. 53. 10	8. 35	·1020					
	***	9. 20	·1013					
11. 31	21. 58. 0	9. 36	·1041					
11. 47	22. 2. 30	9. 45	·1041					
11. 57	1. 35	10. 5	·1021					
12. 20	3. 30	10. 20	·1027					
12. 46	0. 10	10. 30	·1025					
13. 30	0. 30	10. 44	·1034					
13. 55	7. 30	11. 30	·1015					
14. 5	7. 40	11. 37	·1017					
14. 16	22. 12. 25	11. 50	·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.
Jan. 16		Jan. 16						
h m	° ′ ″	h m		h m		h m	°	°
15. 20	21. 52. 30	12. 9	·1033					
16. 3	22. 1. 30	12. 25	·1019					
16. 39	21. 58. 0	13. 35	·1014					
17. 28	22. 2. 35	13. 53	·1033					
17. 53	3. 0	14. 7	·1026					
18. 15	1. 0	14. 27	·1042					
19. 23	3. 0	15. 18	·1012					
20. 0:	8. 30	15. 38	·1023					
	***	16. 14	·1010					
21. 13	4. 30	16. 55	·1022					
21. 30	6. 20	18. 10	·1026					
21. 48	5. 30	18. 33	·1037					
22. 8	7. 15	18. 53	·1032					
22. 32	4. 50	19. 14	·1037					
23. 18	7. 0		***					
23. 36	11. 35	20. 25	·1017					
23. 59	10. 30		***					
		21. 55	·1014					
		22. 13	·1019					
			***					
		23. 30	·1014					
		23. 59	·1003					
Jan. 17		Jan. 17		Jan. 17		Jan. 17		
0. 26	22. 9. 10	0. 9	·1000	0. 15	·01183	1. 40	51. 5	53. 0
	***	0. 45	·0994	1. 2	·01170	3. 40	54. 5	54. 8
1. 23	15. 30	1. 25	·1004	1. 43	·01120	9. 40	53. 8	54. 5
	***	1. 40	·0996	5. 53	·01137	21. 40	51. 3	53. 5
2. 40	6. 5	2. 0	·1007	7. 47	·01080			
	***	2. 23	·1004	9. 3	·01088			
3. 30	5. 0	3. 0	·1015	10. 8	·01072			
5. 34	5. 30		***	11. 9	·01083			
5. 53	7. 30	5. 38	·1012	12. 3	·01070			
8. 35	22. 5. 35	6. 15	·1019	12. 27	·01092			
8. 50	21. 51. 0	6. 40	·1014	12. 56	·01046			
9. 2	48. 0	7. 14	·1023	16. 28	·01138			
9. 10	48. 20		***	17. 51	·01158			
9. 17	46. 0	8. 4	·1021	19. 21	·01218			
9. 38	53. 0	8. 40	·1012	20. 45	·01250			
9. 43	52. 30	9. 21	·1039	22. 28	·01332			
10. 2	57. 30	9. 45	·1019	23. 59	·01374			
10. 23	59. 10	10. 1	·1023					
10. 37	58. 15		***					
10. 53	21. 58. 50	10. 50	·1004					
11. 17	22. 3. 15	11. 5	·1013					
11. 28	2. 50		***					
11. 39	4. 30	11. 35	·1015					
11. 56	22. 2. 15	12. 8	·1003					
12. 20	21. 51. 20	12. 30	·1045					
12. 30	55. 30	13. 29	·1013					
12. 54	56. 35	14. 13	·1018					
13. 7	55. 25	15. 53	·1013					
13. 26	58. 0	16. 23	·1024					
13. 47	21. 57. 15	16. 35	·1020					
14. 14	22. 1. 40	17. 45	·1032					
14. 42	0. 40	18. 15	·1027					
	***	19. 23	·1029					
16. 17	3. 0		***					
		23. 59	·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.
Jan. 17								
h m	° ′ ″	h m		h m		h m	°	°
16. 26	22. 5. 35							
16. 47	2. 55							
17. 13	4. 0							
18. 2	2. 50							
18. 31	5. 10							
	***							
20. 22	4. 50							
	***							
21. 40	5. 45							
23. 43	5. 15							
23. 56	6. 30							
Jan. 18		Jan. 18		Jan. 18		Jan. 18		
0. 15	22. 6. 10	0. 15	·1006	0. 22	·01377	1. 40	53 ·5	55 ·5
0. 48	8. 30	0. 45	·1001	1. 40	·01340	3. 40	54 ·5	57 ·0
1. 27	6. 30	1. 10	·0999	4. 51	{·01134	9. 40	54 ·0	54 ·5
1. 44	6. 45	1. 30	·0994		{·01175	21. 40	47 ·5	51 ·8
2. 31	6. 0	3. 0:	·1013	5. 43	·01175			
3. 4	7. 40	3. 55	·1001	7. 38	·01088			
4. 23:	4. 25	4. 15	·1006	8. 24	·01086			
	***	4. 33	·1003	10. 34	·01135			
5. 12	4. 30	5. 25	·1006	12. 0:	·01190			
5. 25	2. 35	5. 40	·1016	16. 26	·01462			
5. 47	4. 40	6. 13	·1008	18. 25	·01623			
6. 13	3. 5		***	20. 18	·01820			
6. 47	22. 5. 35	7. 0	·1012	21. 30	{·01965			
7. 3	21. 54. 20	7. 13	·1048		{·01925			
7. 15	22. 1. 30	7. 24	·1042	23. 2:	·01897			
7. 21	1. 0	7. 35	·1025	23. 59	·01922			
7. 25	22. 3. 0	7. 46	·1035					
7. 38	21. 57. 10	8. 34	·1015					
7. 52	22. 2. 10		***					
8. 18	3. 50	10. 35	·1021					
8. 44	2. 30	10. 52	·1039					
9. 16	5. 30	11. 5	·1026					
10. 22	5. 0	11. 29	·1023					
10. 46	3. 0	13. 45	·1028					
10. 58	6. 30	16. 45	·1028					
11. 12	4. 50	17. 11	·1025					
15. 58	4. 0	19. 15:	·1036					
16. 43	5. 35	22. 30	·1023					
17. 0	9. 50	23. 20	·1024					
17. 37	6. 25	23. 59	·1014					
18. 45	4. 15							
23. 36	7. 25							
23. 59	8. 0							
Jan. 19		Jan. 19		Jan. 19		Jan. 19		
0. 9	22. 8. 30	0. 5	·1013	0. 18	·01945	1. 40	49 ·0	53 ·0
0. 32	7. 45	0. 25	·1005	2. 36	·01914	3. 40	50 ·0	54 ·0
0. 54	9. 30	2. 5	·1021	3. 50	·01837	9. 40	49 ·0	52 ·5
1. 50	9 20	2. 45	·1001	5. 9	·01785	21. 40	45 ·0	48 ·0
2. 31	6. 15	3. 30:	·1025	5. 46	·01812			
4. 2	5. 40	3. 45	·1020	7. 17	·01670			
4. 14	7. 50	4. 20:	·1025	9. 29	·01692			
4. 26	6. 25	5. 15	·0981	11. 25	·01814			
5. 2	22. 10. 35	5. 45	·1008	11. 43	·01848			
5. 23	21. 57. 35	6. 5	·1007	11. 55	·01824			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 19		Jan. 19		Jan. 19				
h m	° ′ ″	h m		h m		h m	°	°
5. 34	21. 57. 0	6. 25	·0095	13. 17	·01874			
5. 40	58. 30	6. 38	·1008	13. 32	{·01907			
5. 46	21. 58. 0	6. 46	·1003		{·01862			
6. 17	22. 10. 30		***		***			
6. 29	8. 0	7. 16	·1023	14. 38	·01892			
6. 43	12. 25	7. 50:	·1015	15. 36	·01823			
6. 53	9. 45	8. 40	·1030	16. 2	·01838			
7. 6	10. 50	9. 1	·1026	16. 58	{·01830			
7. 17	7. 35		***		{·01687			
7. 47	10. 30	10. 1	·1030	19. 13	·01715			
8. 29	5. 35	10. 16	·1025	20. 53	·01639			
	***	10. 38	·1028	22. 17	·01630			
10. 35	3. 35		***	23. 13	·01528			
10. 48	22. 1. 30	11. 25	·1020	23. 52	·01472			
	***	11. 45	·1056					
11. 35	21. 58. 25	12. 3	·1034					
11. 56	22. 9. 30	12. 24	1042					
12. 36	21. 58. 40		***					
12. 44	59. 30	13. 18	·1023					
13. 17	56. 0	13. 30	·1026					
13. 35	58. 25	14. 3	·1010					
13. 44	56. 20	14. 20	·1022					
13. 53	58. 0	15. 40	·1024					
14. 1	21. 57. 15		***					
14. 25	22. 1. 50	16. 20	·1044					
14. 48	17. 15	16. 53	·1034					
15. 43	0. 25	17. 0	·1038					
16. 8	3. 0	17. 10	·1035					
16. 21	22. 0. 0	17. 25	·1043					
16. 38	21. 58. 0	18. 0	·1034					
17. 2	22. 2. 0	18. 29	·1048					
17. 16	0. 0		***					
17. 34	1. 20	19. 53	·1041					
17. 51	0. 10	20. 24	·1044					
	***	20. 30	·1038					
18. 14	3. 20	20. 50	·1044					
18. 44	4. 35	20. 55	·1036					
	***	21. 3	·1042					
18. 53	2. 35	21. 53	·1016					
19. 44	6. 30	22. 45	·1006					
20. 9	5. 25	23. 0	·1015					
20. 26	7. 35		***					
20. 32	5. 30	23. 44	·1009					
20. 47	7. 30							
21. 18	5. 30							
21. 58	11. 0							
	***							
22. 32	13. 15							
	***							
23. 44	9. 40							
23. 53	11. 30							
Jan. 20		Jan. 20		Jan. 20		Jan. 20		
0. 8	22. 9. 0	0. 30	·1022	0. 0	·01467	1. 40	47 ·8	51 ·0
0. 33	12. 0		***	0. 25	·01402	3. 40	50 ·0	55 ·0
0. 55:	8. 0	2. 0	·1018		***	9. 40	53 ·2	54 ·5
1. 10	10. 35	2. 30	·1023	3. 37	·01125	21. 40	48 ·0	50 ·0
1. 22	7. 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.	Of V. F. Magnet.
Jan. 20	° ′ ″	Jan. 20		Jan. 20		h m	°	°
h m		h m		h m				
2. 0	22. 9. 0	3. 20	·0991	4. 30	·01170			
2. 16	8. 0		***	5. 58	·01158			
2. 35	10. 0	4. 13	·0998	6. 10	·01190			
2. 40	8. 30	4. 38	·1023	6. 27	·01138			
2. 51	11. 30	4. 50	·1012	6. 57	·01120			
3. 3	10. 35	5. 4	·1016		(†)			
3. 8	12. 25	5. 15	·1012	9. 53	·01070			
	***	5. 27	·1015	12. 0	·01050			
3. 35	22. 5. 30	5. 35	·1003	12. 42	·01007			
4. 14	21. 56. 15	6. 5	·1002	14. 13	·01005			
5. 0	22. 4. 10	6. 15	·1034	20. 37	·01350			
5. 22	5. 30	6. 25	·1027	22. 36	·01470			
5. 33	8. 40	6. 36	·1033	23. 37	·01438			
5. 47	22. 7. 0	6. 52	·1018	23. 59	·01432			
6. 7	21. 40. 0	7. 2	·1022					
6. 13	42. 0	7. 54	·0991					
6. 27	35. 15	8. 10	·1006					
6. 53	50. 30		***					
7. 23	58. 0	8. 46	·1009					
7. 45	57. 0	9. 2	·1004					
8. 4	50. 30	9. 31	·1022					
8. 18	21. 52. 20	10. 5	·1008					
	***	10. 16	·1014					
8. 53	22. 2. 40	10. 34	·1013					
9. 13	21. 58. 20	10. 54	·1025					
9. 34	22. 0. 35	11. 25	·1011					
	***	12. 8	·1026					
10. 43	0. 50		***					
10. 57	4. 0	12. 56	·1025					
11. 7	3. 25	13. 34	·1014					
11. 17	8. 35	14. 0	·1025					
12. 0	6. 30	15. 15	·1018					
12. 15	11. 30		***					
13. 8	2. 30	18. 1	·1028					
13. 25	7. 10	18. 45	·1038					
13. 32	8. 0	18. 55	·1033					
13. 53	5. 35	20. 5	·1033					
14. 0	6. 30	22. 20	·1006					
14. 32	2. 0	23. 19	·1012					
14. 48	3. 15	23. 59	·1004					
15. 7	1. 35							
15. 35	5. 0							
	***							
16. 32	3. 15							
17. 38	4. 30							
17. 58	7. 0							
18. 55	9. 0							
19. 15	6. 5							
21. 3	4. 30							
22. 4	6. 0							
22. 36	5. 30							
23. 45	8. 0							
23. 59	7. 30							
Ja. 21		Jan. 21		Jan. 21		Jan. 21		
0. 20	22. 6. 30	0. 20	·1004	0. 15	·01430	1. 40	51·8	53·5
1. 1	7. 0	0. 45	·1010	1. 23	·01430	3. 40	54·0	56·0
1. 21	8. 50	2. 30	·1010	2. 46	·01342	9. 40	53·0	55·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 21	° ′ ″	Jan. 21		Jan. 21		Jan. 21	°	°
h m		h m		h m		h m		
1. 45	22. 6. 50	2. 45	·1015	3. 37	·01215	23. 29	45·0	48·5
2. 13	8. 0	3. 3	·1012	4. 13	{·01165 ·01205			
2. 34	6. 10	3. 22	·0990					
2. 49	7. 50	3. 45	·0992	7. 30	·01100			
	***		***	9. 12	·01100			
3. 10	6. 45	4. 30	·1003	11. 7	·01170			
3. 14	7. 40	4. 53	·0996	11. 26	·01163			
3. 50	0. 30		***	16. 8	·01442			
	***	5. 45	·1006	21. 13	·01948			
4. 21	2. 0	6. 13	·1001	21. 16	·01915			
5. 10	6. 0	6. 23	·1013	22. 48	·01865			
6. 2	5. 30	6. 30	·1004	23. 5	·01878			
6. 19	0. 50	7. 2	·1015					
6. 25	1. 30	7. 25	·1008					
6. 32	0. 30	7. 55	·1022					
6. 46	3. 15	8. 43	·1018					
7. 18	22. 3. 35	9. 5	·1023					
7. 40	21. 59. 30	9. 30	·1022					
8. 9	22. 4. 0	9. 39	·1027					
8. 34	3. 30	10. 16	·1019					
8. 58	0. 30	10. 27	·1024					
9. 18	3. 2	10. 44	·1017					
9. 33	1. 30	11. 6	·1033					
	***	11. 40	·1021					
10. 30	4. 30		***					
10. 44	3. 25	12. 58	·1014					
11. 10	8. 35	13. 11	·1024					
11. 45	1. 35	19. 30	·1034					
12. 25	0. 10	21. 23	·1038					
13. 26	3. 50	23. 59	·1029					
14. 32	4. 25							
14. 52	3. 0							
15. 18	4. 45							
16. 19	4. 45							
16. 32	4. 10							
17. 17	4. 50							
17. 38	3. 0							
18. 15	5. 0							
18. 44	4. 0							
20. 52	4. 10							
23. 35	7. 15							
Jan. 22		Jan. 22		Jan. 22		Jan. 22		
0. 0	22. 7. 0	0. 5	·1029	0. 25	·01895	11. 17	49·0	52·5
1. 41	7. 50	2. 4	·1031	2. 0	·01930	21. 40	47·0	50·0
4. 5	3. 30	2. 45	·1027	3. 17	·01883			
7. 43	4. 20	3. 26	·1037	5. 36	·01650			
11. 45	1. 35	5. 40	·1028	8. 23	·01405			
13. 5	3. 0	7. 20	·1031	12. 24	·01392			
14. 30	1. 30	7. 38	·1026	16. 56	·01415			
14. 46	3. 35	8. 20	·1030	21. 15	·01675			
15. 9	1. 0	11. 15	·1026	22. 13	·01712			
15. 24	2. 30	13. 11	·1027	23. 59	·01830			
15. 58	1. 30	14. 44	·1033					
16. 53	3. 0	16. 18	·1034					
	***	19. 15	·1040					
20. 15	3. 0	20. 3	·1034					
23. 59	5. 30	23. 59	·1034					

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

Jan. 20. The Vertical Force time-piece was stopped between 7^h and $9^h.\ 40^m$.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 23		Jan. 23		Jan. 23		Jan. 23		
h m	° ′ ″	h m		h m		h m	°	°
0. 24	22. 7. 0	0. 0	·1036	0. 25	·01895	1. 40	49 ·0	52 ·0
1. 48	8. 0	1. 53	·1027	2. 37:	·01773	3. 40	54 ·0	57 ·0
2. 30	6. 30	2. 50	·1027	6. 43	·01167	9. 40	52 ·5	53 ·0
3. 0	7. 30	4. 0	·1021	8. 6	·01090	21. 40	46 ·5	48 ·0
4. 8	7. 0	4. 15	·1014	10. 20	·01162			
4. 38:	8. 0	5. 0	·1010	14. 6	·01255			
5. 18:	6. 0	5. 38	·1021	20. 32	·01705			
6. 35:	9. 30	6. 0	·1016	21. 25	·01820			
7. 2	7. 10		***	22. 17	·01823			
7. 40	11. 25	7. 16	·1017	22. 23	·01852			
7. 56	9. 30	7. 46	·1004	22. 58	·01848			
8. 3	9. 50	7. 54	·1009	23. 52	·01830			
8. 16	7. 40	8. 8	·1004					
8. 48	7. 20	8. 23	·1013					
9. 3	2. 0		***					
9. 26	7. 50	8. 58	·1003					
9. 38	3. 0	9. 14	·1018					
9. 55	22. 1. 0	10. 0	·0995					
10. 8	21. 56. 0	10. 40	·1021					
10. 17	56. 30	11. 0	·1011					
10. 24	54. 45	11. 15	·1013					
10. 43	57. 30	12. 26	·1010					
11. 7	21. 56. 0	12. 35	·1020					
12. 6	22. 0. 20	12. 55	·1010					
12. 28	21. 58. 45	13. 19	·1013					
12. 37	22. 2. 0	13. 34	·1023					
12. 51	21. 58. 30	13. 58	·1012					
13. 25	57. 25	14. 33	·1021					
13. 48	58. 45	15. 0	·1015					
14. 7	55. 0	16. 32	·1021					
14. 32	21. 54. 45	17. 30	·1019					
16. 7	22. 1. 40	18. 12	·1025					
16. 53	21. 59. 30	19. 15	·1026					
17. 22	22. 2. 0	20. 16	·1035					
18. 30	2. 40	21. 5	·1027					
20. 2	5. 25	22. 0	·1027					
20. 45	3. 25	22. 45	·1018					
22. 43	5. 0	23. 45	·1014					
23. 53	5. 30							
Jan. 24		Jan. 24		Jan. 24		Jan. 24		
0. 30	22. 8. 15	0. 0	·1015	0. 35	·01905	1. 40	48 ·0	49 ·0
1. 18	5. 30	0. 30	·1013	1. 31	·01845	3. 40	51 ·0	52 ·5
2. 6	9. 25	0. 37	·1016	1. 42	·01885	9. 40	51 ·5	53 ·5
5. 8	5. 25	1. 18	·1008	5. 8	·01612	21. 40	45 ·0	47 ·2
6. 16	6. 10	1. 34	·1014	5. 43:	·01580			
6. 32	4. 50	2. 28	·1014	7. 14	·01377			
6. 42	5. 30	3. 45	·1004	9. 3:	·01223			
7. 9	2. 15	4. 47	·1012	10. 55	·01140			
7. 20	2. 30	5. 5	·1008	13. 36	·01096			
7. 32	1. 5	6. 38	·1017	16. 13:	·01255			
7. 57	4. 20	7. 28	·1012	21. 3	·01820			
	***	7. 46	·1020		·01790			
10. 24	1. 10	8. 16	·1008	22. 34:	·01750			
10. 57	1. 30		***	23. 59	·01792			
11. 47	3. 15	8. 3	·1013					
12. 16	2. 35	9. 7	·1018					
12. 55	5. 30	9. 33	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Jan. 24		Jan. 24						
h m	° ′ ″	h m		h m		h m	°	°
13. 53	22. 2. 30	9. 53	·1021					
15. 30	3. 40	10. 16	·1016					
18. 17	3. 30	11. 54	·1020					
19. 47	4. 20	13. 30	·1029					
20. 59	3. 30	15. 8	·1024					
23. 14	6. 20	20. 12	·1043					
23. 59	6. 0	21. 15	·1041					
		22. 30	·1028					
		23. 59	·1028					
Jan. 25		Jan. 25		Jan. 25		Jan. 25		
0. 10	22. 6. 0	0. 0	·1028	0. 16	·01790	1. 40	48 ·0	48 ·5
5. 3	3. 30	0. 49	·1024	0. 34	·01780	3. 40	50 ·5	52 ·3
10. 15	22. 2. 35	1. 40	·1028		·01613	9. 40	50 ·3	51 ·5
	***	4. 0	·1018	3. 3	·01397	21. 40	49 ·0	51 ·0
12. 38	21. 58. 25	10. 45	·1025	4. 47	·01088			
13. 18	22. 2. 0	11. 5	·1031	5. 22	·01010			
14. 20	3. 0	11. 26	·1033	5. 58:	·01034			
15. 20	0. 20	11. 45	·1039	9. 17:	·00965			
15. 27	22. 1. 0	12. 2	·1035	13. 34:	·01034			
15. 55	21. 56. 10	12. 23	·1039	15. 36	·00960			
16. 55	22. 1. 30	13. 15	·1026		·00980			
17. 34	0. 0	13. 40	·1029	17. 17	·00974			
20. 38	2. 30	14. 5	·1025	18. 15	·00975			
21. 23	1. 40	14. 35	·1030	19. 8	·01005			
23. 17	5. 30	14. 55	·1026	20. 41	·00973			
23. 48	5. 35	15. 24	·1043	22. 0	·01020			
23. 59	4. 30	16. 0	·1025	23. 59	·01178			
		16. 45	·1023					
		17. 15	·1030					
		18. 45	·1030					
			***					
		20. 16	·1041					
		20. 58	·1031					
		23. 50	·1023					
Jan. 26		Jan. 26		Jan. 26		Jan. 26		
0. 24	22. 6. 0	0. 5	·1015	0. 7	·01184	1. 40	51 ·0	53 ·0
0. 42	6. 20	3. 8	·1015	1. 21:	·01182	3. 40	55 ·0	55 ·0
1. 56	6. 0		***	2. 30	·01192	9. 40	54 ·0	55 ·5
4. 1	2. 5	4. 10	·1005		·01121	21. 40	46 ·0	48 ·0
6. 30	1. 30		***	3. 53	·01188			
12. 12	2. 30	7. 50	·1018	4. 53	·01168			
12. 38	1. 30	10. 20	·1021	7. 18	·01133			
16. 22	4. 0	12. 45	·1026	10. 40	·01285			
16. 58	2. 40	14. 3	·1028	13. 24:	·01545			
17. 17	5. 25	19. 30	·1041	16. 17	·01932			
17. 45	2. 40	20. 30	·1040	16. 26	·01902			
21. 8	2. 15	23. 7	·1023	18. 50	·01870			
23. 59	4. 30	23. 59	·1024	21. 7	·01890			
				22. 8:	·01895			
				23. 23:	·01863			
				23. 59	·01850			
Jan. 27		Jan. 27		Jan. 27		Jan. 27		
0. 43	22. 5. 0	0. 5	·1025	0. 14	·01890	1. 40	49 ·5	50 ·7
2. 6	5. 45	1. 33	·1018	2. 11:	·01748	3. 40	50 ·2	52 ·7
4. 35	2. 45	2. 50	·1016	4. 3	·01545	9. 40	51 ·5	53 ·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 tcleseope in the ancient manner. The Symbol *** denotes that the magnet has been generally in a state of agitation. The Symbol (†) denotes that the register has failed between the preceding and following readings. The Symbol : attached to a time denotes that the reading will apply equally well to a considerable range of time near that which is recorded. A brace denotes that at this time the curve of the Vertical Force was dislocated, and the difference of the numbers included by the brace shows the amount of the displacement.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Jan. 27		Jan. 27		Jan. 27		Jan. 27		
h m	° ′ ″	h m		h m		h m	°	°
9. 4	22. 2. 15	5. 0	·1022	5. 10	·01422	21. 40	50 ·0	53 ·0
	***	12. 30	·1027	6. 0	·01380			
15. 52	4. 30	20. 30	·1036	7. 12	·01295			
20. 11	1. 40	20. 50	·1031	9. 15	·01238			
23. 56	4. 35	23. 0	·1022	13. 53	·01190			
			***	18. 25	·01204			
		23. 59	·1020	21. 3:	·01248			
				21. 52	·01215			
				22. 43	·01225			
				23. 59	·01212			
Jan. 28		Jan. 28		Jan. 28		Jan. 28		
0. 33	22. 4. 30	0. 0	·1020	0. 16	·01165	1. 40	53 ·0	55 ·0
0. 46	6. 40	0. 25	·1021	1. 52	·01042	3. 40	55 ·0	56 ·5
1. 23	5. 0	0. 45	·1030	2. 1	·01055	9. 40	53 ·5	55 ·5
2. 24	6. 30	1. 40:	·1016	4. 22	·01116	21. 40	46 ·0	49 ·5
5. 55	4. 35		***	5. 22	·01098			
8. 47	5. 25	8. 43	·1028	6. 17	·01092			
9. 30	22. 3. 30	8. 53	·1019	8. 18	·01060			
9. 52	21. 57. 25	9. 8	·1023	9. 43	·01085			
10. 8	21. 57. 0		***	11. 8	·01185			
	***	10. 0	·1009	11. 34	·01239			
10. 36	22. 0. 0	10. 10	·1015	12. 30	·01273			
11. 1	21. 57. 30	10. 38	·1005	14. 29	·01586			
11. 13	54. 25	11. 7	·1010	16. 0	{·01863			
	***	11. 23	·0996		{·01822			
11. 40	58. 20	12. 9	·1019	20. 13	{·01850			
12. 12	45. 0	12. 35	·0999		{·01693			
12. 22	46. 35		***	20. 43	·01674			
12. 38	46. 30	13. 46	·1021	22. 37	·01420			
13. 7	56. 30	14. 50	·1015	23. 59	·01300			
13. 17	55. 20		***					
13. 46	21. 59. 30	19. 2	·1035					
14. 5	22. 0. 0	19. 4	·1028					
14. 20	21. 58. 15		***					
14. 36	21. 59. 0	19. 46	·1034					
14. 48	22. 4. 30	20. 5	·1042					
15. 8	7. 30	20. 33	·1037					
16. 13	2. 45	20. 55	·1042					
16. 35	5. 0		***					
16. 57	3. 0	21. 34	·1041					
	***	22. 8	·1026					
21. 9	2. 30		***					
	***	23. 30	·1045					
21. 23	3. 45	23. 59	·1040					
	***							
21. 58	2. 0							
	***							
22. 19	4. 0							
22. 40	3. 0							
23. 0	6. 0							
23. 17	4. 55							
23. 38	8. 30							
	***							
23. 59	8. 10							
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
0. 2	22. 8. 10	0. 10	·1033	0. 16	·01278	6. 40	50 ·0	54 ·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.
Jan. 29		Jan. 29		Jan. 29		Jan. 29		
h m	° ′ ″	h m		h m		h m	°	°
0. 17	22. 6. 0	0. 40	·1037	0. 27	·01282	21. 40	53 ·5	56 ·5
	***	1. 45	·1031	2. 42	·01100			
0. 46	9. 30		***	2. 58	·01098			
2. 4	6. 30	2. 53	·1037	3. 26	·01046			
2. 44	6. 45		***	4. 18	·01097			
2. 57	10. 25	4. 20	·1017	4. 28	·01092			
	***	4. 33	·1003	4. 22	·01138			
4. 14	22. 11. 50		***	5. 53	·01110			
5. 0:	21. 59. 0	5. 15	·1033	8. 7	·01132			
5. 37	22. 10. 45		***	8. 28	·01160			
	***	6. 10	·1018	8. 46	·01132			
6. 37	5. 25	6. 45	·1022	9. 26	·01107			
6. 50	7. 0	7. 0	·1017	10. 0	·01128			
7. 14	2. 0	7. 20	·1023	12. 17	·01177			
7. 39	22. 6. 30		***	13. 13	·01110			
8. 2	21. 59. 0	7. 54	·1013	13. 30	·01070			
8. 20	40. 25	8. 10	·0993	14. 7	·01077			
8. 30	43. 0	8. 33	·1044	14. 33	·01060			
8. 45	40. 20	8. 45	·1041	15. 31	·01078			
	***	8. 53	·1048	19. 43	·01077			
9. 20	57. 0		***	21. 18	·01095			
9. 27	21. 55. 30	9. 30	·0996	21. 38	·01077			
9. 37	22. 1. 0	9. 36	·1005	23. 38	·01088			
9. 52	21. 54. 35	9. 46	·0993	23. 59	·01118			
10. 7	59. 35	10. 0	·1013					
10. 23	56. 30	10. 15	·1009					
10. 45	58. 40	10. 35	·1020					
11. 6	21. 56. 45	10. 56	·1013					
11. 44	22. 2. 30	11. 17	·1029					
12. 0	21. 58. 0	11. 36	·1026					
12. 7	58. 25	11. 50	·1013					
12. 38	21. 45. 40	11. 59	·1016					
13. 14	22. 3. 0	12. 17	·0998					
13. 42	21. 49. 30	12. 44	·1025					
14. 20	22. 3. 25	13. 5	·1005					
14. 47	21. 58. 30	13. 17	·1021					
15. 32	22. 6. 0	13. 29	·1018					
	***	13. 50	·1029					
15. 46	4. 25	14. 32	·1009					
	***	15. 0	·1014					
16. 2	5. 25	15. 16	·1010					
	***	15. 28	·1018					
16. 23	4. 0	15. 40	·1013					
	***		***					
16. 47	5. 30	17. 0	·1018					
	***		***					
17. 30	2. 50	17. 35	·1024					
	***	17. 53	·1021					
17. 52	5. 0	18. 24	·1027					
	***		***					
18. 23	3. 10	20. 0	·1024					
	***	21. 0	·1006					
19. 23	6. 35	21. 15	·1010					
	***	21. 36	·0994					
20. 4	4. 45	22. 30	·1001					
	***	23. 5:	·0991					
20. 25	6. 10		***					
	***	23. 59	·0997					

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. 29								
h m	° ′ ″	h m		h m		h m	°	°
20. 58	22. 3. 35							
	***							
21. 16	7. 10							
	***							
22. 0	6. 30							
	***							
22. 18	10. 0							
	***							
23. 25	8. 30							
	***							
23. 57	5. 30							
Jan. 30		Jan. 30		Jan. 30		Jan. 30		
0. 8	22. 6. 0	0. 0	·0997	0. 17	·01123	1. 40	56 ·4	58 ·0
1. 23	8. 55		***	2. 26	·01182	3. 40	57 ·0	59 ·0
2. 3:	6. 0	1. 0	·1002		***	9. 40	57 ·5	58 ·0
2. 46	9. 0	1. 28	·0998	6. 50	·01168	21. 40	53 ·5	56 ·0
3. 17	6. 30	2. 37	·1011	7. 25	·01148			
4. 9	5. 15	3. 8	·1005	9. 18	·01188			
	***		***	10. 18	·01232			
5. 24	7. 15	3. 45	·1008	12. 10	·01337			
5. 45	4. 5	4. 7	·1004	12. 46	·01346			
5. 53	22. 4. 25	4. 50	·1009	13. 2	·01330			
6. 23	21. 41. 30	5. 39	·0994	14. 13	·01361			
7. 17	22. 0. 30	5. 55	·1004	15. 5	·01420			
7. 31	21. 57. 30	6. 8	·0984	18. 34	·01610			
	***	6. 30	·1026	20. 8	·01643			
8. 47	22. 5. 0	6. 45	·1023	21. 1	·01682			
9. 2	21. 55. 40	7. 25	·0988	21. 52	·01675			
9. 8	57. 50	7. 40	·0993	23. 58	·01752			
9. 30:	50. 0	8. 10	·0989					
9. 52	57. 0	8. 45	·1013					
10. 5	55. 10	8. 54	·0991					
10. 14	57. 30	9. 44	·1010					
10. 37	21. 55. 10	9. 55	·0999					
	***	10. 9	·1005					
11. 27:	22. 1. 40	10. 33	·0994					
11. 53:	21. 59. 0		***					
12. 27	22. 3. 35	11. 35	·1010					
12. 32	2. 15	12. 30	·1021					
13. 3	6. 25	12. 54	·1031					
13. 39	3. 10	13. 14	·1013					
13. 53	4. 0	13. 40:	·1023					
14. 23:	0. 30		***					
14. 50	3. 0	15. 6	·1010					
15. 39	4. 30	16. 28	·1019					
15. 51	1. 0		***					
	***	18. 14	·1014					
16. 30	5. 0	18. 53	·1019					
17. 17	5. 0	19. 53	·1016					
17. 29	3. 30		***					
17. 47	5. 0	22. 20	·1015					
	***	23. 59	·1002					
21. 52	3. 30							
22. 10	6. 30							
	***							
23. 43	5. 30							
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Jan. 30								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 8. 15							
	***							
Jan. 31		Jan. 31		Jan. 31		Jan. 31		
0. 8	22. 9. 0	0. 0	·1003	0. 13	·01746	1. 40	55 .0	56 ·0
	***	0. 17	·1008	1. 34	·01750	3. 40	57 ·0	57 ·5
0. 37	6. 35	0. 57	·1013	2. 2	·01724	9. 40	57 ·0	57 ·7
1. 19	9. 30	1. 32	·1007	2. 14	·01730	21. 40	53 ·0	53 ·5
1. 34	8. 30	2. 3	·0991	3. 9	·01683			
1. 42	10. 0	3. 0:	·1013	6. 6	·01414			
2. 10	6. 35		***	6. 43	·01347			
2. 29	8. 0	5. 8	·1010	7. 9	·01330			
2. 41	7. 0	5. 30	·1001	7. 50	·01275			
	***	6. 18	·1016	8. 47	·01257			
5. 20	5. 30	6. 28	·1006	10. 25	·01260			
5. 47	0. 30		***	12. 37	·01234			
	***	7. 10	·1018	14. 12	·01392			
6. 23	22. 4. 35	7. 18	·1013	18. 50	·01695			
	***	7. 26	·1018	21. 0	·01807			
6. 52	21. 59. 30	7. 43	·1010	22. 28	·01845			
7. 12	22. 4. 0	8. 0	·1022	23. 59:	·01922			
	***	8. 33	·1012					
7. 35	22. 3. 50		***					
7. 55	21. 56. 10	11. 5	·1012					
8. 32	22. 3. 30	11. 25	·1025					
	***	11. 40	·1019					
8. 55	1. 50	11. 55	·1027					
9. 31	3. 0	12. 20	·1015					
9. 43	1. 45	13. 26	·1015					
10. 15	2. 35	13. 36	·1019					
10. 32	1. 45	13. 53	·1015					
10. 53	22. 2. 45	14. 0	·1019					
11. 38	21. 59. 30	14. 23	·1015					
11. 50	21. 55. 35		***					
12. 22	22. 0. 30	20. 30	·1029					
12. 55	2. 35	21. 1	·1018					
13. 34	1. 25	22. 5	·1023					
13. 47	5. 25	23. 59	·1010					
14. 0	5. 30							
14. 8	7. 45							
14. 44	6. 0							
15. 22	6. 15							
15. 46	4. 30							
16. 42	5. 15							
18. 13	3. 50							
	***							
20. 47	4. 10							
21. 58	2. 15							
	***							
23. 37	4. 35							
23. 58	6. 30							
Feb. 1		Feb. 1		Feb. 1		Feb. 1		
0. 15	22. 5. 35	0. 0	·1010	0. 26	·01935	1. 40	55 ·0	55 ·5
0. 49	7. 35	0. 40	·1016	1. 50:	·01860	3. 40	57 ·0	57 ·2
1. 50	8. 0	3. 0	·1003	3. 2	·01710	9. 40	55 ·4	57 ·0
3. 0	6. 20	3. 18	·0986	4. 55	·01565	21. 40	49 ·5	52 ·5
3. 46	3. 10	3. 40	·0999	5. 2	·01475			

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. 1		Feb. 1		Feb. 1				
h m	° ′ ″	h m		h m		h m	°	°
4. 20	22. 5. 55	4. 18	·1006	8. 9	·01273			
4. 52	4. 0	6. 10	·1007	8. 51	{·01260 ·01410			
5. 43	6. 50	7. 55	·1014					
	***	8. 17	·1028	10. 31	·01410			
7. 40	22. 4. 0	8. 45	·1026	13. 0	·01470			
8. 10	21. 59. 0	9. 14	·1013	16. 27:	·01683			
8. 27	22. 1. 45	9. 29	·1016	19. 52	·01200			
8. 38	21. 58. 50	10. 30	·1015	19. 55	·01963			
8. 55	22. 3. 0	11. 15:	·1025	21. 37:	·01963			
9. 22	2. 15	11. 50	·1016	22. 51	{·01920 ·01862			
10. 6	3. 10	12. 6	·1024					
10. 47	2. 5	13. 20	·1021	23. 59	·01900			
11. 7	3. 10	20. 10	·1031					
11. 43	22. 1. 0	22. 9	·1026					
11. 58	21. 58. 10	23. 15	·1018					
12. 32	21. 59. 15	23. 59	·1018					
12. 51	22. 2. 0							
15. 15	3. 15							
15. 41	6. 0							
16. 23	4. 20							
21. 57	3. 50							
	***							
23. 59	6. 30							
Feb. 2		Feb. 2		Feb. 2		Feb. 2		
0. 6	22. 6. 30	0. 15	·1019	1. 40	·01977*	1. 40	51 ·0	52 ·5
4. 2	6. 15	4. 5	·1016		(†)	3. 40	53 ·5	54 ·5
4. 39	2. 45	4. 27:	·1004	3. 40	·01792*	9. 40	53 ·0	54 ·5
	***	4. 50	·1018		(†)	21. 40	43 ·0	45 ·0
7. 55	22. 3. 50	5. 27	·1012	4. 32	·01652			
8. 20	21. 56. 35	6. 38	·1020	5. 38	·01505			
8. 52	22. 1. 0	7. 36	·1022	8. 25:	·01298			
9. 26	3. 10	8. 13	·1019	11. 26	·01472			
9. 58	2. 10	8. 31	·1034	13. 4	·01646			
12. 38	3. 10	8. 57	·1023	14. 43	·01872			
13. 13	2. 25	9. 28	·1021	17. 2	·01837			
13. 26	3. 0	14. 23	·1030	22. 58	·01778			
14. 0	2. 30	15. 0:	·1040					
14. 26:	5. 0	15. 53	·1027					
15. 15	0. 0	18. 45:	·1042					
16. 5	4. 45	22. 45	·1025					
20. 53	3. 15	23. 0	·1024					
22. 58	4. 50							
Feb. 3		Feb. 3		Feb. 3		Feb. 3		
1. 46	22. 6. 0	2. 0	·1027	2. 23	·01727	1. 40	44 ·5	46 ·8
3. 10	4. 0	2. 53	·1025	3. 6:	·01674	3. 40	47 ·5	50 ·0
9. 31	22. 2. 45	5. 40	·1028	4. 40	·01365	9. 40	48 ·0	49 ·8
10. 6	21. 59. 30	6. 1	·1025	6. 46	·01055	21. 40	41 ·0	44 ·5
10. 17	22. 0. 30	9. 15	·1034	8. 43:	·00915			
10. 28	21. 58. 30	9. 52	·1031	11. 2	·00930			
11. 7	22. 1. 30	10. 9	·1038		***			
11. 30	21. 58. 20	10. 17	·1035	13. 40	·01105			
12. 8	22. 1. 25	10. 29	·1041	21. 8	·01730			
12. 23	21. 59. 0	11. 25	·1023	21. 15	·01713			
12. 46	41. 35	11. 44	·1029	23. 42	{·01700 ·01568			
13. 8	43. 0	12. 14	·1016					
13. 52	21. 56. 50	12. 34	·1032	23. 59	·01570			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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	°	°
14. 29	22. 1. 30	12. 40	·1024					
15. 1	2. 0	12. 57	·1050					
15. 10	0. 35	13. 43	·1020					
	***	14. 38	·1034					
16. 22	4. 30	15. 8	·1030					
16. 38	3. 25		***					
17. 10	3. 30	17. 4	·1041					
17. 38	1. 45	18. 15	·1037					
18. 36	9. 0	19. 13	·1052					
18. 51	6. 35	19. 35	·1051					
19. 23	7. 30	20. 10	·1060					
	***		***					
21. 27	2. 0	22. 10	·1045					
21. 43	3. 30		***					
21. 52	2. 40	23. 50	·1018					
	***							
22. 22	4. 25							
	***							
23. 14	5. 0							
23. 20	8. 0							
23. 40	5. 15							
	***							
23. 52	5. 30							
Feb. 4		Feb. 4		Feb. 4		Feb. 4		
0. 12	22. 6. 0	0. 40	·1020	0. 24	·01567	1. 47	45 ·3	47 ·0
0. 31	10. 25	1. 16	·1030	0. 46	·01531	3. 40	47 ·5	50 ·5
0. 47	6. 0	1. 55	·0995	1. 14	·01530	9. 40	49 ·5	52 ·5
1. 10	8. 30	2. 36	·0996	1. 57	·01464	22. 48	47 ·0	50 ·0
1. 19	12. 50	3. 23	·1012	2. 8	·01460			
	***	3. 45	·1008	2. 52	·01368			
1. 34	9. 30	4. 10	·1018	4. 38	·00965			
	***	4. 44	·1008	6. 26:	·00975			
2. 7	8. 25	4. 57	·1018	8. 3	·00928			
	***	5. 44	·1017	9. 18	·00945			
2. 38	4. 0	6. 18	·1010	13. 10	·01083			
	***	6. 28	·1014	15. 23	·01030			
4. 7	4. 30	6. 45	·1012	17. 24:	·01023			
5. 51	3. 30	7. 10	·1020	19. 17	·00940			
6. 19	5. 0	7. 53	·1014		***			
6. 33	3. 35	8. 3	·1021	20. 47	·00962			
6. 44	4. 0		***		***			
7. 6	0. 40	8. 40	·1016	21. 39	·00965			
7. 32	22. 2. 50	8. 54	·1021		***			
7. 58	21. 55. 30	9. 25	·1012	23. 59	·00975			
8. 11	59. 0	9. 35	·1016		***			
8. 29	56. 15	10. 0	·1014					
8. 38	57. 15	10. 35	·1021					
8. 47	55. 25	10. 55	·1037					
9. 8	59. 35	11. 15	·1033					
9. 27	21. 57. 30	11. 28	·1034					
10. 2	22. 0. 35	11. 34	·1028					
10. 23	22. 0. 30	11. 57	·1033					
11. 10	21. 56. 30	12. 50	·1028					
11. 27	58. 30	13. 33	·1044					
11. 44	21. 56. 0	14. 0	·1030					
12. 15	22. 1. 25	14. 8	·1037					
12. 36	0. 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.
Feb. 4		Feb. 4						
h m	° ′ ″	h m		h m		h m	°	°
12. 43	22. 1. 35	15. 25	·1022					
13. 8	21. 58. 40	16. 0	·1030					
13. 48	22. 3. 30	16. 26	·1021					
	***		***					
14. 24	21. 57. 40	17. 40	·1036					
14. 50	22. 6. 0	18. 7:	·1021					
15. 3	22. 2. 35	18. 45	·1049					
15. 33	21. 59. 30		***					
15. 54	22. 0. 10	19. 8	·1048					
16. 5	3. 0		***					
	***	19. 30	·1032					
16. 43	4. 25		***					
16. 53	1. 35	19. 50	·1040					
	***	19. 54	·1034					
17. 50	5. 30	20. 2	·1044					
17. 55	3. 0		***					
18. 29	17. 0	21. 0	·1033					
19. 13	4. 0	22. 0	·1014					
19. 25	9. 0	22. 14	·1019					
19. 39	5. 10	22. 21	·1010					
	***	22. 29	·1024					
19. 48	6. 35	22. 35	·1015					
	***	23. 5	·1022					
21. 8	4. 35		***					
	***	23. 39	·1020					
22. 2	1. 50		***					
22. 12	4. 30	23. 59	·1012					
22. 17	1. 0							
22. 22	5. 30							
22. 40	3. 30							
	***							
23. 59	8. 30							
	***							
Feb. 5		Feb. 5		Feb. 5		Feb. 5		
0. 10	22. 8. 10	0. 0	·1011	0. 10	·01098	9. 40	49 ·0	52 ·2
	***		***		***	21. 40	51 ·5	54 ·0
0. 32	10. 50	0. 28	·1002	0. 56	·01118			
	***	0. 45	·0968	1. 36	·01192			
0. 52	4. 30		***	1. 54	·01184			
	***	1. 20	·0981	2. 5	·01198			
1. 53	7. 30	1. 53	·1014	2. 27	·01172			
	***	2. 0	·1027	2. 46	·01184			
2. 6	11. 30	2. 23	·1007	3. 8	·01166			
	***	2. 28	·1013	4. 22:	·01210			
2. 45	22. 14. 30	2. 38	·1009	4. 47	·01160			
3. 15	21. 58. 15	3. 0	·0972	6. 8	·01175			
3. 56	22. 6. 0	3. 43	·1026	8. 53	·01073			
4. 42	4. 50		***		·01090			
5. 2	22. 4. 0	4. 3	·1021	9. 58	·01074			
5. 38	21. 49. 0	4. 20	·1027	10. 33	·01083			
	***	4. 50	·1014	11. 2	·01077			
6. 12	21. 49. 0	5. 5	·1013	13. 9:	·00907			
6. 47	21. 58. 30	5. 20	·1022	14. 24	·01072			
7. 35	22. 3. 30	5. 36	·0998	14. 57	·01084			
8. 7	22. 2. 30	6. 5	·1030	16. 5	·01065			
8. 26	21. 56. 45	6. 13	·1024	21. 10	·01120			
	***		***	21. 43	·01110			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 5		Feb. 5		Feb. 5				
h m	° ′ ″	h m		h m		h m	°	°
8. 53	21. 58. 0	6. 53	·1027	23. 59	·01125			
9. 10	54. 30	7. 35	·1016					
9. 20	55. 50		***					
9. 29	21. 54. 30	9. 22	·1033					
10. 7	22. 0. 0	9. 35	·1046					
10. 28	22. 1. 25	10. 10	·1024					
11. 0:	21. 58. 30	11. 55	·1021					
11. 47	22. 2. 25		***					
13. 55	22. 3. 45	13. 38	·1023					
14. 19	21. 55. 30	14. 15	·1040					
15. 2	22. 8. 0	14. 40	·1020					
15. 17	22. 7. 25	15. 10	·1030					
15. 58	21. 59. 25	15. 25	·1024					
16. 32	22. 7. 20	16. 2	·1030					
16. 47	4. 25	16. 25	·1021					
	***	17. 10	·1023					
17. 37	2. 40	17. 44	·1022					
	***	17. 54	·1027					
19. 47	3. 50	21. 53	·1022					
	***	22. 4	·1015					
21. 31	1. 30	23. 10	·0998					
21. 52	2. 45		***					
	***	23. 59	·1001					
22. 17	1. 35							
22. 22	3. 35							
	***							
23. 59	5. 30							
Feb. 6		Feb. 6		Feb. 6		Feb. 6		
0. 15	22. 6. 30	0. 8	·1003	0. 40	·01143	1. 40	54 ·5	55 ·8
2. 14	7. 0	2. 6	·1004	1. 36	·01235	3. 40	58 ·0	58 ·5
2. 28	9. 0	2. 31	·1007	3. 33	·01273	9. 40	58 ·4	59 ·0
	***	2. 58	·0994	4. 2	·01296	21. 40	55 ·0	56 ·0
3. 11	7. 45		***	4. 26	·01278			
	***	3. 42	·0994	6. 30	·01283			
3. 43	3. 10	3. 59	·1006	6. 46	·01268			
4. 8	4. 25	4. 35	·1002	8. 44:	·01268			
4. 30	2. 30	6. 0	·1003	9. 25	·01288			
	***	6. 30	·1010	9. 39	·01278			
5. 13	4. 30	6. 38	·0999	10. 53	·01308			
6. 15	1. 0	6. 53	·1013	15. 9:	·01465			
6. 31	22. 2. 25	8. 57	·1006	18. 33:	·01610			
6. 43	21. 55. 30	9. 20	·1029	20. 53	·01668			
7. 0	22. 0. 25	9. 40	·1010	21. 47	·01678			
7. 12	21. 58. 40	10. 11	·1013		(†)			
7. 55	22. 3. 10	11. 0	·1003					
8. 50	22. 2. 25	12. 40	·1012					
9. 13	21. 56. 0	20. 45	·1020					
9. 29	22. 0. 40	21. 45	·1016					
9. 46	21. 56. 30		(†)					
11. 18	22. 0. 0							
11. 38	2. 25							
13. 29	3. 45							
14. 52	2. 45							
15. 33	5. 25							
15. 55	3. 30							
16. 16	5. 10							
16. 35	3. 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.
Feb. 6								
h m	° ′ ″	h m		h m		h m	°	°
17. 46	22. 2. 35							
18. 47	3. 25							
21. 15	1. 40							
21. 47	2. 0							
23. 59	5. 0							
Feb. 7		Feb. 7		Feb. 7		Feb. 7		
0. 8	22. 7. 5	1. 45	·0999	0. 0	·01707	1. 40	56 ·5	57 ·0
	***	3. 7	·1000	0. 29	·01700	3. 40	58 ·5	60 ·0
1. 18	8. 30		***	2. 17:	·01663	9. 40	57 ·0	57 ·5
	***	3. 38	·1007	4. 14	·01465	21. 40	48 ·5	49 ·8
5. 58	3. 35	6. 17	·1010	4. 50	{·01446 ·01588			
6. 17	1. 30	7. 19	·0992					
6. 34	2. 45	8. 16	·1008	5. 48	·01565			
	***		***	8. 8	·01695			
7. 28	0. 0	10. 25	·1012	8. 58:	·01718			
8. 38:	2. 45	17. 0	·1030	11. 13	·01895			
9. 46	0. 35	19. 0	·1024	11. 52	·01970			
13. 37	3. 35	19. 23	·1031	12. 30	·02060			
13. 47	4. 35	20. 35	·1031	15. 10	·02000			
14. 8	3. 30	22. 5	·1021	20. 29	·01958			
14. 38	4. 0	23. 5	·1014	21. 5	·01978			
15. 8	2. 25	23. 55	·1015	22. 30	·01938			
	***			23. 59	·01943			
15. 49	3. 40							
16. 13	2. 30							
	***							
17. 8	2. 15							
	***							
18. 54	5. 0							
	***							
19. 29	4. 25							
20. 17	7. 35							
21. 8	3. 30							
22. 13	2. 25							
23. 37	5. 0							
23. 59	5. 0							
Feb. 8		Feb. 8		Feb. 8		Feb. 8		
0. 17	22. 5. 30	0. 30	·1010	0. 43	·01960	1. 40	49 ·0	49 ·8
1. 33	7. 10	1. 15	·1002	3. 30:	·01890	3. 40	49 ·5	52 ·0
5. 4	22. 2. 35	1. 45	·1005	5. 48	·01670	9. 40	51 ·0	52 ·7
5. 28	21. 59. 40	2. 40	·1003	8. 28:	·01508	21. 40	48 ·0	50 ·0
5. 53	22. 0. 0		***	10. 10	·01500			
7. 46	2. 35	4. 20	·1013	11. 55	·01505			
9. 0	22. 1. 15	5. 34	·1013	19. 30	·01718			
9. 20	21. 58. 10	6. 30	·1023	21. 37	·01768			
9. 41	21. 58. 30	8. 30	·1025	22. 36	·01783			
9. 47	22. 1. 0	9. 20	·1015	23. 50	·01823			
10. 8	21. 59. 30		***					
10. 28	22. 0. 45	10. 55	·1031					
10. 45	21. 58. 30	11. 20	·1026					
12. 12	22. 2. 15		***					
	***	15. 12	·1025					
17. 47	2. 35	20. 25	·1036					
22. 30	0. 45	21. 45	·1034					
23. 53	5. 35	23. 0	·1022					
		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.	Readings of Thermometers. Of V. F. Magnet.
Feb. 9		Feb. 9		Feb. 9		Feb. 9		
h m	° ′ ″	h m		h m		h m	°	°
0. 7	22. 5. 30	0. 0	·1019	0. 0	·01823	1. 40	49 ·5	51 ·0
1. 43	7. 0	0. 23	·1016	1. 33:	·01783	3. 40	51 ·0	52 ·5
2. 10	5. 30		***	2. 20	·01745	10. 6	48 ·5	52 ·0
2. 32	6. 15	4. 39	·1010	3. 44:	·01695	21. 40	42 ·0	46 ·0
5. 9	3. 0	5. 20	·1020	5. 16	·01608			
6. 5	22. 3. 30	5. 55	·1010	6. 34	·01580			
6. 56	21. 59. 0	6. 45	·1012	8. 58:	·01590			
7. 8	59. 45	7. 5	·1021	10. 56	·01708			
7. 26	21. 56. 0	7. 21	·1017	12. 25	·01820			
7. 45	22. 0. 0		***	12. 50	·01813			
8. 9	22. 1. 0	7. 50	·1025	13. 12	·01850			
8. 15	21. 59. 0	8. 6	·1025	13. 23	·01850			
8. 39	22. 1. 30	8. 13	·1030	13. 46	{·01896 ·01850			
8. 51	21. 59. 30	8. 48	·1030		***			
9. 22	21. 59. 0	9. 30:	·1017					
9. 47	22. 0. 30	10. 39	·1033	15. 34:	·01820			
11. 8	21. 54. 10	10. 55	·1022	16. 51	·01860			
11. 27	57. 35	12. 14	·1016		***			
12. 25	59. 0	12. 24	·1024	18. 30	·01848			
12. 36	21. 56. 30	12. 49	·1003	20. 11:	·01862			
12. 47	22. 1. 30	13. 15	·1025	21. 48	·01797			
12. 58	21. 58. 25	13. 30	·1021	22. 54	·01785			
13. 34	56. 40	13. 50	·1030	23. 59	·01798			
14. 5	51. 35	14. 28	·1023					
14. 22	21. 55. 30	14. 45	·1015					
14. 37	22. 5. 35	15. 17	·1033					
14. 58	7. 10	15. 45	·1028					
15. 31	2. 50		***					
16. 4	1. 30	18. 9	·1034					
17. 1	4. 30		***					
17. 10	3. 0	18. 45	·1046					
17. 31	4. 50		***					
17. 38	3. 30	20. 15	·1047					
18. 2	6. 30	20. 45	·1050					
18. 12	5. 15	20. 50	·1043					
18. 17	7. 25	20. 55	·1051					
18. 32	3. 30	22. 25	·1010					
	***	23. 6	·1005					
20. 24	1. 30							
22. 6	4. 10							
22. 39	8. 30							
23. 0	14. 25							
23. 15	14. 40							
Feb. 10		Feb. 10		Feb. 10		Feb. 10		
0. 2	22. 16. 10	1. 0	·1013	0. 20	·01795	1. 40	45 ·5	48 ·0
0. 40	10. 10	1. 40	·1020		***	3. 40	49 ·5	52 ·0
0. 56	10. 50	2. 14	·0998	1. 50:	·01730	9. 40	49 ·5	52 ·0
1. 13	8. 30		***		***	21. 40	44 ·0	47 ·0
	***	2. 40	·1008	3. 44	·01480			
1. 45	10. 0	2. 46	·1001	3. 49	·01448			
	***	3. 18	·1004	4. 52	·01320			
2. 17	7. 15	3. 40	·1016	5. 30:	·01192			
	***	3. 50	·0998	6. 23	·01107			
2. 36	11. 45	4. 16	·0987	6. 37	·01138			
2. 46	8. 0	4. 51	·1018		***			
3. 9	7. 30	5. 17	·0992	7. 58	·01087			
3. 35	13. 30	6. 6	·1016	8. 50	·01113			

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. 10		Feb. 10		Feb. 10		h m	°	°
h m	° ′ ″	h m		h m				
3. 43	22. 10. 30	6. 37	·0994	9. 15	·01073			
3. 58	22. 14. 30	6. 52	·1023	9. 31	·01098			
4. 31	21. 58. 30	7. 4	·1006	10. 29	·01085			
4. 55	22. 8. 15		***	11. 3	·01110			
5. 13	4. 30	7. 20	·1016	11. 45	·01085			
5. 58	22. 7. 30	7. 30	·1008	15. 23:	·01236			
6. 56	21. 52. 45	7. 52	·1022	21. 10	·01582			
7. 7	58. 0	8. 23	·1002	21. 44	·01568			
7. 14	54. 20	8. 53	·1032	23. 44	·01695			
7. 20	57. 0	9. 30	·0972					
7. 24	21. 56. 45	9. 38	·0982					
7. 32	22. 3. 30	9. 45	·0975					
7. 48	22. 3. 0	10. 21	·1000					
8. 10	21. 58. 30	10. 38	·0984					
8. 15	59. 30	11. 7	·0998					
8. 28	54. 30	11. 20	·1021					
8. 33	55. 0	11. 45	·1007					
8. 48	45. 0	12. 0	·1017					
9. 0	21. 56. 30	12. 33	·1007					
9. 12	22. 1. 30	19. 30	·1030					
9. 31	21. 53. 15	20. 50	·0990					
9. 38	57. 0	21. 29	·1010					
9. 47	43. 0		***					
9. 54	48. 30	22. 23	·0992					
10. 4	45. 0	23. 6	·0988					
10. 27	58. 0	23. 47	·0986					
10. 37	54. 25							
10. 56	58. 0							
11. 6	57. 30							
11. 14	59. 30							
11. 40	21. 52. 30							
12. 25	22. 0. 25							
13. 14	3. 20							
15. 31	4. 0							
19. 12	1. 30							
20. 0	3. 0							
21. 14	20. 0							
21. 47	10. 45							
22. 36	10. 20							
23. 14	13. 30							
23. 38	12. 30							
Feb 11.		Feb. 11		Feb. 11		Feb. 11		
0. 35	22. 16. 30	1. 0	·0980	0. 0	·01718	1. 40	45 ·5	48 ·0
0. 46	14. 40		***		***	3. 40	49 ·5	52 ·0
1. 13	15. 40	2. 48	·0992	1. 35	·01798	9. 40	48 ·0	51 ·0
1. 23	18. 0	2. 55	·0998	2. 37	·01740	23. 20	41 ·0	44 ·0
1. 53	14. 45	3. 0	·0987	3. 22	·01670			
2. 54	11. 30	3. 20	·1009	3. 57	·01555			
2. 58	8. 30	3. 54	·0983	4. 14	·01530			
3. 21	14. 0		***	5. 17	·01370			
3. 25	13. 10	4. 23	·0997	6. 7	·01343			
3. 34	15. 25	4. 47	·0988	7. 47	·01320			
3. 52	12. 50	4. 54	·0998	9. 32:	·01267			
4. 0	14. 25	5. 5	·0988	12. 17	·01288			
4. 8	12. 25	5. 19	·0995	12. 24	·01357			
4. 13	13. 15		***	12. 40	·01341			
4. 18	11. 30	6. 5	·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.
Feb. 11		Feb. 11		Feb. 11		h m	°	°
h m	° ′ ″	h m		h m				
4. 32	22. 11. 30	6. 14	·0996	15. 37:	·01515			
4. 37	12. 50	6. 30	·0977		***			
	***	6. 39	·0983	19. 29	{·01840			
5. 20	13. 15	6. 51	·0977		{·01804			
	***	7. 13	·0986	22. 13:	·01820			
5. 45	10. 0	7. 23	·0977	23. 16	·01808			
5. 52	8. 0	7. 50	·1003	23. 59	·01823			
5. 58	9. 0	8. 0	·1001					
6. 8	7. 30	9. 7	·1013					
6. 17	11. 50	9. 18	·1008					
6. 31	7. 0	11. 24	·1014					
6. 43	8. 0	12. 0	.1029					
7. 13	22. 4. 0	12. 16	·1021					
7. 28	21. 53. 0	12. 27	·1039					
7. 54	22. 1. 0	12. 45	·1026					
	***	12. 50	·1027					
8. 43	0. 50	13. 10	·1019					
9. 9	2. 45	13. 43	·1032					
9. 23	1. 15	13. 56	·1021					
10. 23	1. 30		***					
11. 10	0. 0	15. 35	·1023					
11. 43	22. 0. 36	15. 45	·1031					
11. 57	21. 58. 30	16. 0	·1022					
12. 15	22. 0. 0	16. 20	·1022					
12. 27	6. 30	17. 0:	·1015					
12. 50	2. 30	17. 44	.1027					
	***	20. 13	·1030					
14. 4	1. 0	21. 57	·1015					
14. 55:	4. 0	23. 20	·1018					
	***	23. 50	·1014					
15. 33	1. 35							
15. 42	22. 3. 30							
15. 50	21. 59. 30							
16. 32	22. 2. 45							
16. 40	2. 25							
16. 58	7. 45							
17. 13	8. 0							
17. 38	3. 45							
18. 27	2. 15							
20. 42	2. 0							
21. 31	2. 20							
22. 36	5. 40							
23. 7	6. 30							
23. 28	8. 25							
Feb. 12		Feb. 12		Feb. 12		Feb. 12		
0. 7	22. 9. 45	0. 0	·1014	0. 15	·01832	9. 52	45 ·0	48 ·0
	***	0. 28	·1003	1. 12	·01865	21. 40	40 ·5	44 ·5
0. 33	8. 30	0. 43	·1014	1. 56	·01864			
	***	0. 54	·1006	4. 23:	·01840			
0. 48	10. 15	1. 20	·1018	6. 43	·01595			
	***		***	9. 14:	·01425			
1. 3	8. 15	2. 44	·1013	11. 21	·01408			
1. 30	12. 10	2. 55	·1018	12. 21	·01440			
	***		***	12. 40	·01420			
2. 58	12. 0	4. 2	·1016	15. 2:	·01540			
3. 30	8. 0	4. 15	·1002	18. 36	{·01825			
3. 38	8. 40	4. 39	·1025		{·01803			

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. 12		Feb. 12		Feb. 12				
h m	° ′ ″	h m		h m		h m	°	°
3. 47	22. 7. 45	5. 0	·1032	20. 27	·01798			
4. 8	22. 9. 30	5. 23:	·1016	21. 52:	·01852			
4. 33	21. 58. 0	5. 50	·1026	22. 55	·01838			
4. 49	21. 58. 20	6. 8	·1020	23. 59	·01830			
5. 2	22. 2. 10	7. 1	·1021					
5. 22	0. 0	7. 12	·1023					
	***	7. 55	·1018					
7. 27	3. 0		***					
8. 17	0. 40	9. 25	·1026					
9. 14	22. 1. 0	9. 55	·1014					
9. 51	21. 48. 30	10. 17	·1022					
10. 50	52. 30	11. 30	·1016					
11. 16	57. 10	12. 5	·1019					
11. 36	21. 56. 50	12. 30	·1041					
12. 17	22. 2. 30	13. 0	·1028					
12. 31	5. 35	14. 25	·1025					
13. 7	1. 0	16. 43	·1028					
14. 45	4. 10	17. 8	·1034					
15. 40	2. 35	20. 7	·1042					
17. 8	4. 35	22. 0	·1021					
20. 33	0. 35	23. 30	·1017					
21. 32	1. 35	23. 59	·1013					
22. 53	2. 30							
23. 56	5. 30							
Feb. 13		Feb. 13		Feb. 13		Feb. 13		
0. 13	22. 6. 0	0. 15	·1016	0. 20	·01804	1. 40	44 ·5	47 ·0
1. 3	7. 0	2. 48	·1004	2. 15:	·01702	3. 40	48 ·0	50 ·5
1. 32	5. 50		***	4. 3	·01435	9. 40	48 ·0	48 ·5
2. 15	7. 0	5. 8	·1010	6. 2:	·01135	21. 40	37 ·5	41 ·0
	***	6. 14	·1017	7. 58	{·01085 ·01173			
3. 29	4. 25	6. 52	·1003					
4. 1	6. 10	7. 10	·1013	8. 42	·01185			
	***	7. 35	·1007	12. 15	·01400			
5. 54	3. 30	7. 56	·1008	14. 9	·01550			
6. 53	22. 4. 50	8. 17	·1015	14. 35	·01552			
7. 15	21. 58. 45	8. 59	·1007	16. 24	{·01767 ·01785			
7. 47	22. 1. 50	9. 56	·1014					
9. 0	1. 30	10. 14	·1004	18. 31	·01752			
9. 34	22. 0. 0	10. 26	·1013	21. 40	·01768			
9. 50:	21. 57. 10	10. 44	·0997	22. 42	·01742			
10. 5	22. 0. 0	11. 15	·1020	23. 59	·01760			
10. 18	21. 57. 20	11. 30	·1017					
10. 36	22. 3. 15	11. 53	·1027					
11. 4	21. 54. 30	12. 8	·1024					
11. 19	57. 45	13. 60	·1022					
11. 43	56. 0	14. 12	·1049					
11. 55	58. 20	14. 59	·1023					
12. 9	21. 57. 40	17. 27	·1032					
12. 52	22. 2. 35	17. 46	·1048					
	***	18. 30:	·1040					
13. 38	0. 25	19. 44	·1050					
14. 8	4. 30	19. 55	·1046					
14. 33	0. 30		***					
14. 46	1. 45	20. 50	·1053					
15. 3	0. 10	21. 1	·1046					
15. 25	22. 1. 0	21. 8	·1051					
16. 13	21. 59. 35	21. 39	·1033					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 13		Feb. 13						
h m	° ′ ″	h m		h m		h m	°	°
17. 12	22. 1. 15	22. 0	·1028					
17. 17	3. 0	22. 8	·1034					
17. 31	0. 45	22. 40	·1027					
17. 39	2. 45	23. 27	·1036					
18. 40	0. 20	23. 50	·1032					
19. 7	1. 50							
19. 28	22. 0. 30							
21. 35	21. 59. 35							
21. 52	22. 0. 0							
22. 12	5. 0							
22. 27	1. 25							
22. 47	1. 0							
23. 46	3. 45							
Feb. 14		Feb. 14		Feb. 14		Feb. 14		
0. 8	22. 6. 0	0. 0	·1031	0. 48	·01735	1. 40	41 ·0	43 ·7
0. 57	5. 35	0. 29	·1037		***	3. 40	46 ·0	47 ·5
	***	0. 45	·1028	2. 32:	·01627	9. 40	47 ·0	48 ·0
1. 35	7. 0	1. 25	·1034		***	21. 40	45 ·0	46 ·8
1. 43	10. 0	1. 40	·1023	5. 29	·01084			
1. 49	7. 40	1. 45	·1034		***			
2. 15	11. 10	1. 53	·1024	7. 12	·01100			
2. 26	9. 0		***		***			
	***	2. 16	·1031	8. 31	·01065			
3. 2	13. 0	2. 29	·1020		***			
3. 12	11. 10	2. 45	·1025	9. 55	·01073			
3. 18	14. 10		***	10. 40	·01023			
3. 30	12. 40	3. 14	·1012	11. 37	·01030			
3. 33	14. 20	3. 16	·1017		***			
3. 58	10. 40		***	12. 37	·01025			
4. 2	13. 0	3. 40	·0999	13. 11	·00985			
	***	3. 59	·1005	13. 22	·01000			
4. 23	11. 40	4. 4	·1020	14. 23	·00990			
4. 37	14. 15	4. 10	·1013	14. 43	·01035			
4. 43	10. 20	4. 15	·1017	16. 2	·01073			
	***	4. 25	·1014	17. 26	·01123			
5. 15	13. 0	4. 36	·1023	17. 54	·01125			
	***	4. 50	·1013	19. 17	·01163			
6. 7	12. 35	4. 56	·1020	20. 10	·01150			
	***	5. 13	·1006	21. 0:	·01150			
6. 58	22. 4. 0	5. 15	·1010	22. 23:	·01106			
7. 25	21. 54. 0	5. 33	·1004	23. 0	·01130			
7. 38	54. 0	5. 45	·1013	23. 51	·01103			
8. 0	48. 25	5. 55	·1006					
8. 13	50. 30	6. 5	·1014					
8. 26	47. 25	6. 25	·1002					
8. 46	52. 30	6. 40	·1017					
8. 56	51. 35	7. 15	·1010					
9. 10	57. 30	7. 25	·0999					
9. 20	56. 35	7. 44	·1015					
9. 32	58. 50	8. 0	·1003					
10. 3	48. 45	8. 15	·1013					
10. 14	50. 0	8. 25	·1004					
10. 36	41. 20	8. 33	·1009					
10. 47	45. 10	8. 40	·1008					
10. 53	45. 0	8. 45	·1016					
11. 12	50. 25	8. 50	·1007					
11. 22	50. 0	9. 20	·0992					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 14		Feb. 14						
h m	° ′ ″	h m		h m		h m	°	°
11. 50	21. 55. 20	9. 33	·0992					
12. 12	54. 45	10. 6	·0999					
12. 21	50. 30	10. 47	·0999					
			***					
12. 40	52. 30							
12. 55	48. 10	11. 8	·1001					
13. 6	52. 30	11. 22	·0996					
13. 14	50. 0	11. 40	·1008					
			***					
13. 28	50. 0							
13. 37	47. 50	12. 14	·1005					
13. 52	51. 30	12. 33	·1032					
14. 8	21. 48. 35	12. 40	·1025					
14. 45	22. 0. 0	12. 52	·1041					
			***					
15. 1	21. 2. 0							
15. 14	1. 10	13. 5	·1046					
15. 28	3. 40	13. 16	·1021					
15. 55	0. 0	13. 46	·1032					
16. 23	0. 0	14. 9	·1015					
16. 45	22. 2. 50	14. 23:	·1017					
16. 55	21. 59. 45	14. 35	·1006					
17. 18	21. 59. 30	15. 3	·1021					
17. 42	22. 1. 0	15. 15	·1018					
18. 5	0. 25	15. 46	·1023					
	***	16. 53	·1017					
18. 45	22. 1. 40	17. 35	·1031					
	***	18. 6	·1021					
19. 22	21. 58. 25	18. 53	·1024					
	***		***					
19. 25	22. 0. 30	19. 9	·1021					
	***	19. 30:	·1028					
			***					
19. 51	22. 1. 0							
20. 17	21. 59. 20	20. 30	·1015					
20. 48	22. 2. 45	21. 0:	·1015					
21. 17	2. 30	21. 36	·0999					
21. 31	7. 0	21. 45	·0998					
21. 46	5. 30	22. 5	·1019					
21. 59	8. 25	22. 20	·0999					
22. 22	2. 35	22. 35	·0996					
			***					
22. 47	5. 30							
22. 57	3. 30	23. 59	·1000					
23. 2	4. 30							
23. 15	2. 30							
	***							
23. 59	3. 50							
Feb. 15		Feb. 15		Feb. 15		Feb. 15		
0. 28	22. 9. 0	0. 0	·1001	0. 34	·01160	1. 40	48 ·0	51 ·0
1. 10	10. 0	0. 35	·1008	1. 11	·01112	3. 40	50 ·0	52 ·0
1. 16	7. 45		***	2. 25	·01106	9. 40	58 ·0	50 ·0
1. 23	9. 0	1. 19	·0987	4. 13	·01160	21. 40	41 ·0	43 ·0
	***	1. 23	·0993	4. 17	·01222			
1. 42	4. 35	1. 32	·0987		***			
2. 2	7. 10	2. 0	·1001	4. 50	·01308			
2. 15	6. 0	2. 13	·0998		***			
	***	2. 25	·1008	5. 20	·01292			
3. 2	10. 0	2. 39	·1003	5. 50	·01368			
	***		***	6. 33	·01360			
3. 38	10. 30	3. 0	·1010	6. 47	·01400			
3. 48	9. 0	3. 10	·1004	7. 11	·01328			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected. for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 15		Feb. 15		Feb. 15				
h m	° ′ ″	h m		h m		h m	°	°
4. 25	22. 15. 0	3. 17	·1008	7. 53	·01320			
	***	3. 35	·1004	8. 49	·01396			
			***	10. 14	·01448			
4. 45	21. 54. 45							
4. 51	22. 0. 30	3. 43	·0996	10. 30	·01430			
5. 18	21. 57. 35	4. 3	·1013	11. 15	·01440			
			***					
5. 26	22. 2. 30			11. 37	·01484			
5. 38	21. 48. 30	4. 43	·0996	13. 13:	·01628			
6. 3	21. 58. 40	4. 50	·1022	13. 58	·01658			
6. 15	22. 3. 0	4. 53	·1007					
				15. 48	·01852			
6. 27	22. 1. 30	5. 0	·1014		·01830			
			***					
6. 43	21. 37. 45			17. 33	·01852			
6. 59	58. 30	5. 23	·0994	20. 8	·01850			
7. 8	49. 30	5. 30	·0964	20. 30	·01864			
7. 18	58. 50	5. 53	·1005	22. 13:	·01825			
			***					
7. 23	21. 57. 15			23. 6	·01828			
7. 47	22. 1. 10	6. 23	·0988	23. 37	·01852			
7. 56	21. 57. 0	6. 30	·0995					
	***	6. 42	·0984					
8. 18	57. 30	7. 0	·1046					
8. 29	21. 55. 30	7. 10	·1019					
8. 39	22. 0. 25	7. 20	·1045					
8. 47	21. 59. 0	7. 30	·1026					
8. 59	22. 1. 0	7. 40	·1031					
9. 7	21. 57. 30	7. 53	·0996					
9. 15	22. 1. 30	8. 5	·1004					
			***					
9. 27	21. 54. 25							
	***	8. 29	·0998					
9. 42	53. 25	8. 34	·1001					
10. 8	55. 15	8. 45	·0988					
10. 18	59. 30	8. 58	·1005					
10. 33	53. 15	9. 5	·0999					
10. 47	58. 30	9. 12	·1010					
	***	9. 20	·1003					
11. 15	59. 30	9. 28	·1008					
11. 28	54. 30	9. 38	·1001					
			***					
11. 59	58. 50							
12. 13	58. 25	10. 9	·1005					
12. 40	59. 30	10. 40	·1033					
13. 19	52. 0	10. 53	·1026					
13. 36	21. 54. 35	11. 2	·1026					
13. 53	22. 1. 35	11. 14	·1021					
14. 8	21. 57. 15	11. 21	·1008					
14. 20	59. 30	11. 40	·1025					
14. 43	59. 50	12. 0	·1019					
15. 2	21. 58. 0	12. 37	·1020					
15. 30	22. 4. 30	12. 52	·1016					
	***	13. 30	·1050					
15. 54	4. 35	13. 44	·1046					
	***	14. 5	·1019					
16. 23	1. 35	14. 14	·1024					
16. 31	3. 31	14. 40	·1026					
16. 42	3. 35		***					
16. 53	2. 0	15. 8	·1018					
17. 34	3. 30		***					
	***	15. 55	·1027					
17. 50	1. 35		***					
	***	16. 20	·1024					
19. 7	1. 25	16. 29	·1030					
	***		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Feb. 15		Feb. 15						
h m	° ′ ″	h m		h m		h m	°	°
19. 54	22. 4. 30	16. 50	·1024					
20. 26	0. 50		***					
20. 55	2. 35	19. 8	·1032					
21. 44	0. 30		***					
	***	20. 0	·1019					
22. 44	2. 30		***					
22. 55	4. 30	21. 0	·1037					
23. 16	2. 35	21. 38	·1036					
23. 47	7. 10	23. 15	·1014					
23. 58	5. 45	23. 45	·1016					
		23. 59	·1002					
Feb. 16		Feb. 16		Feb. 16		Feb. 16		
0. 10	22. 7. 0	0. 0	·1002	0. 12	·01855	1. 40	44 ·5	46 ·5
0. 31	6. 35	0. 5	·1018	1. 14	·01858	3. 40	46 ·0	48 ·5
0. 53	3. 40		***	2. 1	·01805	9. 40	48 ·4	49 ·7
1. 36	7. 0	0. 40	·1002	4. 22	·01495	21. 40	46 ·0	48 ·0
1. 55	6. 0		***	5. 26	·01385			
2. 7	8. 45	1. 43	·1004	6. 17	·01260			
2. 49	6. 35	2. 2	·1016	6. 28	·01262			
3. 15	2. 40	2. 22	·1002		***			
4. 1	7. 50	2. 30	·1006	7. 23	·01132			
4. 24	5. 30	2. 58	·0990	8. 16	·01210			
4. 45	8. 10	3. 9	·1002	8. 26	·01195			
	***	3. 45:	·1013	8. 32	·01210			
5. 36	1. 30	4. 20	·1001	8. 41	·01155			
5. 53	22. 5. 20	4. 38	·1010	9. 53	·01248			
6. 18	21. 46. 0	4. 59	·0999	11. 3	·01258			
6. 30	52. 30	5. 9	·1006	11. 23	·01285			
6. 39	49. 30		***	11. 38	·01272			
6. 52	58. 50	5. 34	·1006	12. 40	·01250			
7. 2	52. 30	5. 50	·1018	13. 10	·01330			
7. 14	54. 45		***	14. 33	·01340			
7. 26	49. 35	6. 14	·1002	14. 51	·01368			
7. 38	56. 40	6. 25	·1057	15. 30	·01262			
7. 43	55. 40	6. 36	·1047	16. 8	·01303			
7. 56	59. 30	6. 44	·1057	16. 38	·01208			
8. 8	21. 49. 20	6. 59	·1025	17. 50:	·01375			
8. 18	22. 2. 30	7. 4	·1036	18. 38	·01397			
8. 26	21. 56. 15	7. 18	·1015	19. 52	·01423			
8. 36	22. 15. 0	7. 34	·1015	21. 10:	·01448			
8. 43	21. 54. 30	7. 58	·0994	22. 42	·01435			
8. 48	57. 0	8. 8	·0993	23. 32	·01468			
8. 56	53. 0	8. 11	·1020	23. 59	·01458			
9. 6	52. 30	8. 17	·1008					
9. 12	54. 25	8. 29	·1043					
9. 22	51. 30	8. 38	·0978					
9. 35	54. 25	8. 45	·1015					
9. 43	54. 0	8. 50	·1004					
10. 0	58. 0	9. 8	·1004					
10. 20	57. 45		***					
10. 31	54. 30	9. 30	·0991					
11. 2	52. 45	9. 53	·1006					
11. 30	58. 50		***					
11. 48	53. 0	11. 10	·1007					
12. 1	52. 0	11. 30	·1022					
12. 10	55. 0	11. 45	·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.
Feb. 16		Feb. 16						
h m	° ′ ″	h m		h m		h m	°	°
12. 22	21. 54. 50	12. 0	·1026					
12. 44	52. 10	12. 23	·1023					
13. 8	58. 0	12. 36	·1012					
13. 51	59. 30	12. 55	·1014					
14. 14	58. 0	13. 14	·1024					
14. 38	21. 50. 0		***					
15. 6	22. 14. 0	14. 0	·1022					
15. 40	21. 54. 25		***					
16. 11	22. 4. 25	14. 30	·1013					
16. 46	21. 57. 30	14. 53	·1096					
	***	15. 27	·1013					
18. 8	22. 2. 30	16. 5	·1037					
	***	16. 20	·1023					
18. 55	21. 59. 25	16. 37	·1020					
19. 17	22. 4. 30	17. 12	·1028					
	***	17. 31	·1024					
20. 38	0. 0	18. 9	·1036					
	***	18. 23	·1030					
21. 43	1. 10	18. 34:	·1016					
	***	18. 52	·1008					
21. 58	3. 30	19. 5:	·1022					
	***	19. 19	·1021					
23. 59	5. 30	19. 31	·1030					
	***		***					
		20. 35	·1022					
		20. 50	·1030					
		21. 20:	·1024					
		21. 50	·1028					
			***					
		22. 57	·0982					
			***					
		23. 14	·1002					
			***					
		23. 15	·0990					
			***					
		23. 34	·0996					
		23. 38	·1008					
		23. 44	·0992					
		23. 49	·1010					
			***					
		23. 59	·1004					
Feb. 17		Feb. 17		Feb. 17		Feb. 17		
0. 14	22. 8. 0	0. 14	·0999	0. 10	·01458	1. 40	49 ·0	50 ·5
	***		***	2. 31:	·01335	3. 40	51 ·0	52 ·5
0. 38	9. 40	0. 50	·1001		***	9. 40	50 ·0	52 ·5
	***		***	3. 52	·01195	21. 40	40 ·0	42 ·0
1. 3	6. 30	1. 11	·1012	4. 11	·01236			
	***	1. 30	·1004	4. 47	·01226			
1. 22	7. 30		***	5. 0	·01240			
1. 47	4. 30	3. 9	·1024	5. 25	·01220			
	***		***	5. 43:	·01230			
3. 23	7. 30	3. 38	·1003	8. 22	·01128			
3. 48	3. 30	4. 0	·1021	8. 27	·01135			
4. 42	22. 5. 30		***	9. 3	·01100			
5. 32:	21. 43. 30	4. 35	·1018	10. 37	·01172			
5. 58	49. 30	4. 47	·1006	12. 7	·01288			

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. 17		Feb. 17		Feb. 17		h m	°	°
h m	° ′ ″	h m		h m				
6. 31	21. 50. 35	5. 19	·0995	12. 28	·01288			
7. 18	22. 5. 0	5. 40	·1020	13. 4	·01308			
7. 37	2. 30	5. 52	·1016	17. 13	·01890			
8. 10	22. 3. 0	6. 0	·1021	17. 18	·01863			
8. 22	21. 46. 35	6. 18	·1012	19. 15:	·01840			
8. 43	21. 58. 50	6. 35	·1021	20. 58	·01878			
9. 1	22. 1. 0	6. 50	·1015	22. 20	·01825			
9. 13	21. 58. 0	8. 13	·1008	22. 52	·01830			
	***	8. 25	·1057	23. 7	·01810			
9. 42	22. 3. 30	9. 0	·1018	23. 59	·01815			
10. 7	21. 56. 30	9. 14	·1024					
10. 18	59. 30	9. 30	·1009					
10. 38	54. 45	10. 0	·1016					
10. 58	57. 30	10. 15	·1034					
11. 46	58. 50	10. 45	·1021					
12. 0	21. 57. 30	10. 51	·1026					
12. 14	22. 1. 30	11. 10	·1016					
12. 30	1. 30		***					
12. 47	22. 5. 10	12. 0	·1015					
13. 10	21. 57. 30	12. 30	·1027					
13. 40	22. 0. 30	12. 37	·1027					
13. 57	21. 58. 40	12. 53	·1018					
14. 13	22. 0. 30	13. 20	·1028					
14. 23	4. 35	13. 35	·1023					
14. 45	5. 30	13. 45:	·1026					
15. 8	2. 45	14. 15:	·1021					
15. 30	3. 0	15. 45	·1036					
15. 48	8. 30	16. 0:	·1025					
16. 11	5. 0		***					
	***	17. 15	·1031					
16. 53	2. 30		***					
	***	18. 45	·1031					
18. 25	3. 45	19. 5	·1035					
	***		(†)					
21. 44	2. 0							
	***							
22. 22	3. 30							
	***							
23. 23	2. 25							
	***							
23. 35	4. 30							
	***							
23. 59	4. 30							
	***							
Feb. 18		Feb. 18		Feb. 18		Feb. 18		
0. 7	22. 4. 30	1. 15	·1015	0. 22	·01818	1. 40	44 ·0	44 ·8
	***		***	1. 38	·01883	3. 40	46 ·0	47 ·0
0. 37	8. 30	1. 42	·0996	2. 49	·01810	9. 40	45 ·5	47 ·3
1. 2	7. 0	1. 52	·1003	6. 45	·01425	23. 20	38 ·5	42 ·5
1. 13	8. 15		***	7. 28	·01388			
	***	2. 44	·1009	8. 7	·01384			
2. 36	4. 30		***	8. 26	·01354			
	***	3. 6	·1001	9. 13:	·01374			
3. 38	5. 30		***	16. 40	{·01817			
	***	3. 40	·1002		{·01800			
5. 8	1. 20		***	21. 48	·01798			
6. 25	22. 1. 30	4. 0	·1009	23. 24	·01778			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 18		Feb. 18		Feb. 18		h m	°	°
h m	° ′ ″	h m		h m				
6. 43	21. 56. 45	4. 46	·1003	23. 59	·01785			
6. 52	57. 50	5. 2	·1001					
7. 7	21. 49. 35		***					
8. 5	22. 0. 30	5. 15	·1020					
8. 10	21. 57. 30		***					
8. 18	22. 0. 25	5. 50	·1026					
8. 34	21. 51. 15		***					
8. 51	54. 15	5. 53	·1036					
9. 14	55. 0	6. 9	·1039					
9. 44	59. 20		***					
10. 7	58. 0	6. 50	·1028					
10. 44	59. 30	7. 5	·1039					
10. 53	21. 58. 25	7. 19	·1036					
	***	7. 31	·1049					
11. 43	22. 1. 0	7. 55	·1041					
	***	8. 6	·1066					
13. 6	21. 59. 30	8. 20	·1053					
13. 28	22. 1. 25	8. 33	·1060					
13. 50	21. 59. 30	9. 8:	·1041					
14. 37	22. 1. 50	10. 0	·1036					
15. 17	1. 35		***					
15. 38	3. 0	11. 15	·1050					
18. 10	1. 0	11. 21	·1058					
18. 58	2. 50	11. 39	·1052					
21. 25	1. 35	11. 46	·1056					
22. 51	2. 0	12. 0	·1052					
23. 4	3. 30	12. 30	·1062					
23. 59	5. 0		***					
		13. 10	·1051					
			***					
		13. 45	·1061					
		14. 0	·1056					
		15. 16	·1054					
		16. 0	·1060					
		18. 17	·1063					
		20. 25	·1064					
			***					
		23. 30	·1056					
		23. 59	·1055					
Feb. 19		Feb. 19		Feb. 19		Feb. 19		
0. 15	22. 5. 30	0. 0	·1056	0. 22	·01795	11 ·26	43 ·0	45 ·0
0. 51	5. 30	0. 28	·1060	3. 16:	·01765	21. 40	41 ·5	43 ·5
1. 15	7. 45	0. 46	·1051	4. 57	·01634			
2. 6	6. 45	1. 25	·1055	8. 26	·01402			
2. 37	7. 30	1. 30	·1065	10. 7	·01363			
3. 26	6. 30	1. 48	·1063	11. 13	·01325			
4. 23	3. 30	2. 0	·1069	13. 34	·01358			
6. 7	5. 35	2. 35:	·1055	14. 29	·01340			
6. 38	3. 0	3. 14	·1057	19. 7	·01503			
	***		***	21. 44	·01482			
7. 23	2. 10	3. 57	·1052	23. 59	·01484			
7. 31	3. 50	5. 0:	·1062					
9. 36:	0. 45	6. 15	·1046					
10. 9	5. 15	6. 56	·1059					
10. 44	0. 30	7. 13	·1051					
10. 59	22. 1. 30	7. 25	·1059					
11. 18	21. 58. 45	8. 5	·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.	Of V. F. Magnet.
Feb. 19		Feb. 19						
h m	° ′ ″	h m		h m		h m	°	°
11. 38	22. 1. 0	9. 45	·1059					
12. 23	21. 54. 10	11. 0	·1057					
12. 45:	58. 20	11. 10	·1054					
13. 8	21. 58. 20	11. 35	·1061					
13. 40	22. 1. 0	12. 0	·1050					
14. 20	21. 58. 25		***					
15. 6	22. 3. 25	12. 50	·1046					
16. 45	2. 45	15. 8:	·1062					
17. 46	2. 45	15. 50:	·1058					
18. 12	0. 35	17. 45	·1064					
21. 8	3. 0	19. 5	·1070					
22. 4	3. 0	19. 36	·1062					
23. 59	5. 45	20. 8	·1062					
		20. 40	·1066					
		22. 0	·1059					
		22. 8	·1066					
		22. 20	·1058					
		23. 0	·1060					
		23. 59	·1048					
Feb. 20		Feb. 20		Feb. 20		Feb. 20		
0. 17	22. 5. 30	0. 0	·1048	0. 7	·01482	1. 40	44 ·0	47 ·0
1. 0	6. 30	0. 20	·1044	2. 20:	·01365	3. 40	47 ·0	52 ·0
1. 38	5. 0	0. 40	·1048	4. 8	·01072	9. 40	53 ·5	53 ·5
3. 15	5. 15	1. 0	·0050	5. 47:	·01150	21. 40	47 ·0	49 ·3
5. 30	2. 30	2. 50	·1047	9. 40:	·01125			
13. 15	2. 0	4. 0:	·1038	10. 43	·01152			
13. 37	3. 30	5. 45	·1044	11. 28	·01140			
14. 4	1. 15	7. 45	·1046	13. 59	·01192			
14. 38	2. 40	10. 27	·1042	18. 25:	·01405			
15. 22	2. 0	13. 8	·1043	23. 46	·02008			
15. 40	3. 15	13. 36	·1051	23. 59	·02010			
16. 38	1. 40	14. 23	·1044					
17. 52	3. 0	16. 27	·1051					
18. 32	3. 30	17. 50:	·1050					
19. 5	1. 40	19. 10:	·1057					
23. 3	0. 30	21. 0	·1057					
23. 59	2. 35	22. 24	·1049					
		23. 30:	·1036					
		23. 59	·1036					
Feb. 21		Feb. 21		Feb. 21		Feb. 21		
0. 16	22. 3. 35	0. 0	·1037	0. 15	·02013	1. 40	48 ·8	51 ·0
1. 44	6. 30	1. 0	·1036	2. 10:	·01925	3. 40	54 ·0	55 ·0
4. 53	2. 30		***	5. 53	·01215	9. 40	55 ·0	56 ·0
11. 13	2. 10	3. 25	·1037	5. 54	·01230	21. 40	45 ·8	48 ·5
12. 7	1. 0	5. 35	·1041	6. 10	·01235			
12. 29	2. 0	6. 0	·1037	6. 14	·01245			
13. 25	1. 0	7. 40	·1038	9. 29:	·01465			
13. 46	2. 0	7. 58	·1033	12. 38	·01688			
14. 1	0. 10	9. 14	·1036	13. 48:	·01800			
14. 39	22. 1. 15	9. 45	·1041	15. 2	·02000			
15. 8	21. 59. 25	11. 9	·1043	16. 13	·02000			
15. 58	21. 59. 45		***	17. 58	·01957			
17. 8	22. 2. 40	11. 55	·1036	20. 13	·01958			
18. 7	1. 0	13. 4	·1044	21. 6:	·01975			
19. 47	22. 2. 15		***	22. 58	·01998			
20. 16	21. 59. 30	14. 23	·1043	23. 33	·01895			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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						
h m	° ′ ″	h m		h m		h m	°	°
21. 29	22. 2. 0	14. 50	·1048					
22. 43	2. 30	15. 45:	·1043					
23. 29	4. 30	17. 30:	·1054					
		19. 20	·1059					
		20. 10	·1057					
		21. 38	·1061					
		23. 0	·1054					
		23. 28	·1058					
Feb. 22		Feb. 22		Feb. 22		Feb. 22		
0. 7	22. 5. 0	0. 15	·1056	0. 0	·01880	1. 40	49 ·0	52 ·0
0. 31	4. 30	2. 4	·1052	1. 2	·01875	3. 40	49 ·0	52 ·0
1. 13	6. 0	3. 18	·1054	3. 14	·01768	9. 40	50 ·5	52 ·5
2. 29	7. 10		(†)	4. 7	·01682	21. 40	45 ·0	47 ·0
2. 37	8. 35	11. 45	·1051	6. 17:	·01468			
	***	14. 30	·1051	6. 47	·01448			
3. 56	4. 45	14. 39	·1056	8. 44:	·01378			
4. 53	5. 15		***	12. 53:	·01394			
5. 48	3. 15	15. 20	·1039	16. 13:	·01381			
10. 1	22. 1. 0	15. 30	·1046	19. 37:	·01516			
10. 46	21. 59. 0		***	21. 43:	·01590			
11. 50	22. 2. 30	15. 47	·1044	23. 18	·01700			
17. 48	2. 30	16. 38	·1052	23. 28	·01645			
22. 25	1. 30	17. 25	·1049	23. 59	·01659			
	***		***					
23. 55	5. 30	20. 0	·1056					
		20. 7	·1051					
		20. 25	·1054					
			***					
		21. 55	·1046					
		23. 45	·1051					
Feb. 23		Feb. 23		Feb. 23		Feb. 23		
0. 3	22. 5. 30	0. 0	·1046	0. 17	·01670	1. 40	48 ·0	50 ·0
	***	0. 36	·1036	1. 54:	·01660	3. 40	51 ·5	53 ·0
2. 5	5. 30	1. 10	·1028	4. 39	·01275	9. 40	53 ·0	53 ·0
4. 34	1. 40	2. 15	·1036	5. 46	·01132	21. 40	43 ·5	47 ·0
5. 52	1. 45	5. 35	·1038	6. 30	·01080			
7. 7	2. 15	6. 40	·1043	7. 2	·01100			
7. 52	0. 35		***	8. 57	·01077			
8. 24	22. 2. 10	8. 5:	·1036	10. 58	·01173			
9. 7	21. 56. 30	8. 19	·1040	14. 18	·01453			
9. 49	22. 2. 0		***	17. 38	·01848			
10. 44	21. 59. 0	8. 47	·1036	17. 43	·01862			
11. 1	21. 55. 30	9. 0:	·1028	20. 13	·01864			
12. 26	22. 1. 30	9. 17	·1026	21. 13	·01894			
13. 47	2. 35	9. 45	·1038	23. 12	·01788			
18. 40	2. 30	10. 15	·1031	23. 50	·01735			
20. 52	2. 30	11. 5	·1040					
22. 2	1. 35	11. 25	·1038					
23. 59	5. 0	15. 50	·1051					
		17. 50	·1061					
		19. 33	·1063					
		20. 0	·1069					
		20. 40:	·1065					
		21. 22	·1068					
		22. 17	·1060					
		22. 35	·1062					
			***					

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	°	°
		23. 40	·1051					
		23. 55	·1052					
Feb. 24		Feb. 24		Feb. 24		Feb. 24		
0. 5	22. 5. 20	0. 40	·1051	0. 15	·01652	1. 40	46 ·0	47 ·5
1. 47	7. 0	1. 14	·1050	2. 52:	·01580	3. 40	49 ·0	52 ·0
2. 2	6. 0	2. 0	·1042	4. 32	·01273	9. 58	50 ·8	53 ·0
4. 4	7. 30	2. 56	·1049		***	21. 40	49 ·5	51 ·0
4. 24	9. 30		***	4. 58	·01255			
	***	4. 0	·1042		***			
4. 59	8. 30	4. 16	·1052	5. 26	·01175			
5. 7	13. 0	4. 30	·1037		***			
5. 19	10. 45		***	6. 9	·01150			
	***	4. 56	·1060	6. 43	·01374			
5. 38	9. 15	5. 4	·1049	6. 52	·01330			
5. 48	22. 13. 30	5. 10	·1056	6. 57	·01338			
6. 50	21. 45. 30		***	7. 15	·01295			
6. 57	57. 10	5. 25	·1035		***			
7. 0	21. 55. 30	5. 34	·1049	8. 52	·01335			
7. 19	22. 7. 30	5. 44	·1033	9. 15	·01308			
7. 35	21. 58. 10	5. 51	·1043	9. 36	·01338			
7. 55	22. 17. 30	6. 16	·0999	10. 7	·01164			
8. 19	25. 30		***	10. 22	·01178			
8. 36	22. 3. 0	6. 46	·1033	12. 2	·01105			
8. 53	21. 58. 0	6. 52	·1015	12. 23	·01134			
9. 7	58. 30		***	13. 15	·01048			
9. 23	57. 0	7. 7	·1018		***			
9. 28	59. 0	7. 20	·0990	13. 48	·01095			
9. 45	28. 30	7. 50	·1043		***			
9. 59	55. 30	8. 10	·1030	15. 38	·00975			
10. 12	43. 15	8. 29	·0990	16. 36:	·01043			
10. 26	53. 0	8. 59	·1017	18. 32	·01091			
	***	9. 21	·1006		***			
10. 52	59. 25	9. 35	·1014	20. 16	·01138			
	***	9. 45	·1057	22. 7:	·01162			
11. 12	57. 30	10. 9	·0992	23. 23	·01225			
	***	10. 23	·1018	23. 59	·01255			
11. 45	59. 30		***					
12. 17	53. 30	10. 38	·1014					
12. 24	54. 50	10. 45	·1020					
12. 38	51. 20		***					
12. 46	52. 0	11. 8	·1022					
12. 58	46. 0	11. 16	·1018					
13. 7	47. 15	11. 30	·1023					
13. 22	39. 45		***					
13. 47	45. 0	12. 8	·1015					
14. 0	53. 15	12. 32	·1040					
	***		***					
14. 33	55. 35	12. 55	·1032					
14. 38	59. 15	13. 18	·1000					
	***	13. 37	·1022					
15. 24	21. 53. 0	13. 44	·1020					
16. 1	22. 0. 35	13. 54	·1028					
16. 6	21. 59. 30	14. 0	·1026					
16. 21	22. 4. 0	14. 20	·1035					
17. 7	3. 30	14. 36	·1038					
17. 16	0. 30		***					
17. 32	4. 25	15. 15	·1012					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 24 h m	° ′ ″	Feb. 24 h m		h m		h m	°	°
17. 47	22. 2. 30	15. 30	·1010					
	***	15. 45	·1001					
21. 36	1. 0	16. 15	·1020					
	***	16. 28	·1017					
21. 43	3. 30		***					
	***	17. 9	·1028					
22. 13	4. 30	17. 18	·1023					
	***	17. 40	·1036					
22. 23	3. 25	17. 47	·1028					
	***	18. 0	·1027					
22. 41	6. 0	18. 5	·1034					
	***		***					
23. 0	5. 30	19. 10	·1031					
	***		***					
23. 23	9. 40	19. 22	·1038					
	***	19. 26	·1030					
23. 40	8. 10	19. 30	·1038					
	***		***					
23. 59	11. 30	20. 0	·1035					
		20. 4	·1040					
		20. 6	·1030					
		20. 12	·1039					
		20. 43	·1033					
			***					
		21. 25	·1032					
		21. 32	·1025					
		21. 38	·1034					
		21. 50	·1022					
		22. 0	·1027					
			***					
		22. 32	·1025					
			***					
		23. 30	·0978					
			***					
		23. 59	·0994					
			***					
Feb. 25		Feb. 25		Feb. 25		Feb. 25		
0. 8	22. 12. 0	0. 8	·0999	0. 17	·01280	1. 40	51 ·5	53 ·0
0. 35	11. 30	0. 16	·0992		***	3. 40	54 ·0	55 ·0
0. 52	8. 0	0. 24	·1004	2. 8	·01266	9. 40	53 ·7	55 ·0
1. 3	11. 30	0. 30	·0996	3. 5	·01188	23. 15	44 ·0	48 ·0
1. 13	8. 30	1. 0	·1021	3. 32	·01255			
1. 17	9. 35	1. 11	·1012	3. 34	·01253			
	***	1. 23	·1018	4. 18	·01260			
1. 47	4. 30	1. 46	·1033	4. 24	·01314			
2. 47	11. 15	2. 23	·1037		***			
2. 55	14. 30	2. 40	·1029	6. 19	·01353			
3. 6	10. 30	3. 0	·0987	6. 52	·01417			
	***	3. 10	·1002	7. 7	·01355			
3. 17	11. 30		***	7. 18	·01355			
	***	3. 20	·0995	7. 28	·01332			
3. 31	2. 35		***	7. 51	·01550			
3. 49	7. 30	3. 49	·1018	8. 3	·01322			
	***		***		***			
4. 37	8. 45	4. 23	·1013	10. 10	·01398			
	***	4. 33	·1003	10. 33	·01387			
5. 49	6. 30		***	11. 54:	·01594			

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. 25		Feb. 25		Feb. 25				
h m	° ′ ″	h m		h m		h m	°	°
5. 28	22. 0. 30	5. 8	·1005	13. 30	·01602			
6. 10	22. 6. 10	5. 15	·1014	13. 53	·01598			
6. 43	21. 40. 0		***		***			
6. 55	56. 45	5. 30	·1004	15. 44	·01746			
7. 5	21. 43. 15	5. 36	·1013		***			
7. 27	22. 3. 30		***	17. 10	·01960			
7. 38	21. 54. 35	5. 53	·0999	17. 18	·01968			
7. 57	58. 30	6. 5	·1021	17. 49	·01894			
8. 8	52. 20		***		***			
8. 20	59. 20	6. 28	·0996	21. 5	·01942			
8. 28	58. 30	6. 47	·1089	23. 14	·01924			
8. 32	59. 20	7. 0	·1037	23. 59	·01950			
8. 47	56. 35	7. 10:	·1057					
9. 1	59. 20	7. 24	·1010					
9. 23	57. 0	7. 45	·1060					
9. 42	58. 30	8. 0	·1028					
9. 57	21. 56. 30	8. 9	·1048					
	***	8. 22	·1026					
10. 23	22. 4. 0	8. 29	·1031					
10. 38	0. 35	8. 37	·1024					
11. 48	22. 0. 35	8. 52	·1033					
11. 54	21. 58. 30	9. 10	·1024					
12. 8	22. 0. 15		***					
12. 50	21. 57. 50	10. 22	·1046					
13. 35:	22. 12. 40	10. 26	·1041					
14. 44	21. 59. 20	10. 44:	·1045					
	***	11. 16	·1031					
15. 32	22. 4. 35	11. 29	·1036					
	***	11. 50	·1035					
16. 29	0. 0	11. 59	·1049					
17. 9	6. 0	12. 40:	·1043					
17. 40	2. 45	13. 15	·1025					
	***	13. 50	·1049					
18. 18	3. 25	14. 15	·1049					
	***	14. 40	·1035					
18. 35	1. 0		***					
	***	15. 30	·1047					
19. 45	3. 30	15. 45:	·1037					
	***	16. 8	·1034					
20. 20	9. 0	16. 45	·1015					
20. 40	4. 10	17. 25	·1032					
20. 48	6. 30	17. 45	·1027					
21. 0	3. 30	18. 16	·1041					
21. 17	5. 0	18. 55	·1043					
21. 26	3. 30		***					
21. 34	4. 50	19. 35	·1035					
22. 0	3. 0	19. 44	·1038					
22. 15	7. 0	20. 10	·1029					
22. 35	4. 0	20. 15	·1034					
23. 7	7. 30		***					
23. 28	4. 30	20. 35	·1034					
23. 59	5. 30	20. 47	·1041					
	***	20. 55	·1036					
		21. 4	·1049					
			***					
		21. 55	·1037					
		22. 9	·1047					
		22. 15	·1042					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Feb. 25						
h m	° ′ ″	h m		h m		h m	°	°
		22. 20	·1049					
		22. 34	·1032					
			***					
		23. 29	·1030					
		23. 59	·1034					
Feb. 26		Feb. 26		Feb. 26		Feb. 26		
0. 17	22. 5. 45	0. 0	·1034	0. 14	·01957	7. 6	48 ·0	51 ·5
	***		***		***	21. 40	43 ·0	47 ·0
1. 8	9. 35	0. 40	·1032	1. 47	·01942			
	***		***		***			
1. 15	8. 30	1. 35	·1034	2. 57	·01960			
1. 34	9. 20		***		***			
1. 42	7. 35	1. 45	·1030	3. 46:	·01955			
1. 56	9. 30	2. 3	·1040		***			
	***		***	4. 54	·01765			
2. 19	6. 30	2. 20	·1025	6. 17	·01643			
	***	2. 28	·1033	6. 45	·01635			
2. 37	8. 0	2. 38	·1024	7. 17	·01573			
	***	2. 50	·1025	7. 42	·01550			
3. 2	3. 10		***	7. 46	·01563			
	***	3. 40	·1043	8. 0	·01480			
3. 50	8. 0	3. 57	·1028	8. 45	·01470			
	***	4. 6	·1036	10. 0:	·01438			
4. 50	5. 10	4. 15	·1032	11. 2	·01440			
	***	4. 44	·1040	11. 7	·01454			
6. 13	4. 50	4. 57	·1037	11. 16	·01417			
7. 2	22. 1. 20	5. 30	·1046	11. 23	·01430			
7. 20	21. 51. 30	5. 42	·1037	11. 45	·01388			
7. 38	54. 35		***	13. 9	·01460			
7. 46	21. 53. 30	5. 54	·1040	13. 45	·01522			
8. 0	22. 8. 30		***	15. 8:	·01618			
8. 16	21. 58. 35	6. 55	·1025	16. 34	·01748			
8. 43	57. 20	7. 20	·1034	16. 58	·01765			
	***	7. 44	·1021	17. 32	·01813			
9. 25	21. 58. 0	7. 50	·1053	17. 39	·01810			
9. 49	22. 0. 50	8. 5	·1022	18. 12	{·01860			
10. 31	21. 59. 0	8. 30	·1023		{·01830			
11. 8	22. 0. 0	8. 48	·1033	20. 1	{·01880			
11. 15	22. 6. 0	9. 20	·1030		{·01800			
11. 24	21. 52. 30	9. 35	·1036		***			
11. 33	57. 30	10. 20	·1038	21. 20:	·01832			
11. 44	21. 51. 30	10. 40:	·1046		***			
12. 7	22. 1. 25	11. 14	·1037	22. 16	·01768			
12. 34	21. 58. 15	11. 17	·1056	23. 59	·01715			
12. 55	58. 50	11. 23	·1051					
13. 16	21. 55. 0	11. 31	·1091					
14. 2	22. 2. 25	11. 45	·1069					
14. 47	22. 1. 30	11. 48	·1073					
15. 8	21. 59. 0	12. 30:	·1038					
16. 12	22. 3. 0	12. 46	·1048					
17. 6	4. 45	13. 15:	·1035					
17. 27	9. 35	14. 10:	·1048					
17. 47	7. 0		***					
17. 55	7. 30	15. 22	1043					
18. 36	0. 20	16. 10	·1038					
	***	16. 32	·1045					
19. 50	4. 30	16. 45	·1043					

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. 26		Feb. 26						
h m	° ′ ″	h m		h m		h m	°	°
20. 5	22. 3. 30	17. 5	·1026					
	***		***					
20. 27	6. 45	17. 40	·1030					
	***	18. 13	·1052					
20. 54	2. 35	18. 46	·1053					
20. 59	4. 25	19. 23	·1049					
21. 30	1. 0		***					
21. 58	3. 15	20. 15	·1050					
22. 34	1. 30	20. 24	·1054					
22. 45	2. 35	20. 37	·1044					
23. 15	2. 0	20. 44	·1049					
	***	20. 52	·1045					
23. 59	4. 0	21. 0	·1052					
	***	21. 14	·1045					
		21. 45	·1052					
		23. 0	·1038					
		23. 59	·1035					
Feb. 27		Feb. 27		Feb. 27		Feb. 27		
0. 18	22. 4. 30	0. 0	·1035	0. 22	·01703	1. 40	46 ·0	48 ·0
	***	0. 20	·1035	2. 18:	·01560	3. 40	49 ·5	52 ·5
1. 43	6. 0	0. 40	·1041	3. 43	·01390	9. 40	52 ·7	53 ·5
	***	1. 0	·1032	4. 56	·01128	21. 40	47 ·0	48 ·5
2. 40	11. 20	1. 15	·1034	5. 10	·01145			
2. 48	9. 30	1. 53	·1040	7. 27	·01122			
3. 3	11. 0	2. 18:	·1035	7. 58	·01134			
	***	2. 30	·1036	8. 21	·01128			
3. 43	3. 50	2. 43	·1015	8. 44	·01150			
3. 59	6. 30	3. 9	·1021	9. 2	·01143			
6. 3	4. 0	3. 15	·1016	11. 53	·01205			
7. 0	22. 3. 0		***	12. 32	·01181			
7. 19	21. 58. 0	3. 44	·1034	13. 5	·01225			
7. 53	22. 1. 5	4. 5	·1022	13. 27	·01235			
8. 18	21. 54. 35		***	13. 59	·01288			
8. 38	22. 0. 0	5. 0	·1042	14. 30	·01302			
9. 13	21. 48. 25	5. 13	·1033	16. 47	·01468			
9. 34	53. 30		***	17. 48:	·01585			
9. 44	52. 10	6. 5	·1035	19. 34:	·01715			
10. 29	59. 35	6. 29	·1041	21. 2:	·01856			
11. 16	59. 0	6. 55	·1031	22. 21	·01838			
11. 32	21. 57. 15	7. 10	·1031	23. 44	·01830			
11. 57	22. 3. 30	7. 20	·1021	23. 59	·01822			
12. 8	1. 25	7. 53:	·1033					
12. 16	22. 2. 40		***					
12. 51	21. 44. 50	9. 4	·1021					
13. 8	48. 0	9. 25	·1040					
13. 26	48. 15	9. 44	·1027					
13. 44	21. 57. 30	9. 57	·1035					
14. 17	22. 2. 0	10. 37	·1028					
	***	11. 10	·1033					
14. 48	21. 58. 30	11. 34	·1027					
15. 38	21. 26. 10	11. 50	·1037					
16. 8	22. 6. 30	12. 10	·1034					
16. 38	5. 10	12. 30	·1013					
16. 58	0. 30	13. 1	·1041					
	***	13. 35:	·1031					
17. 56	4. 30	14. 18	·1046					
	***	14. 36	·1035					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Feb. 27		Feb. 27						
h m	° ′ ″	h m		h m		h m	°	°
23. 32	22. 3. 15	15. 8:	·1044					
23. 59	4. 15	15. 50	·1041					
		16. 8	·1029					
			***					
		17. 3	·1049					
		17. 17	·1043					
			***					
		18. 10	·1053					
		20. 57	·1037					
		21. 47	·1042					
		23. 30	·1022					
		23. 41	·1030					
		23. 59	·1028					
Feb. 28		Feb. 28		Feb. 28		Feb. 28		
0. 10	22. 4. 30	0. 0	·1028	0. 13	·01812	1. 40	50 ·0	51 ·5
0. 47	6. 0	0. 32	·1032		***	3. 40	53 ·0	54 ·0
1. 9	5. 30	0. 46	·1036	2. 6:	·01692	9. 40	54 ·0	56 ·0
1. 22	7. 45	1. 8	·1032	5. 11	·01202	21. 40	43 ·0	47 ·0
2. 30	5. 0	1. 21	·1038		·01222			
4. 0	6. 30	1. 45	·1027	6. 32:	·01223			
4. 44	5. 30	2. 7	·1033	6. 51	·01273			
	***	2. 16	·1027	7. 38	·01280			
5. 49	3. 0	2. 46	·1035	9. 48:	·01354			
6. 20	22. 3. 30	3. 5	·1033	10. 53	·01370			
6. 39	21. 54. 0	3. 19	·1036	13. 42:	·01618			
7. 1	22. 1. 0		***	16. 16	·02005			
	***	3. 44	·1040	16. 18	·01980			
9. 43	22. 1. 30	3. 53	·1032	19. 9:	·01895			
10. 0	21. 55. 30	4. 45	·1020	21. 17:	·01938			
10. 8	56. 30	4. 55	·1021	22. 55	·01895			
10. 20	51. 20	5. 14	·1015	23. 59	·01880			
10. 48	54. 10		***					
11. 8	53. 30	6. 15	·1028					
11. 36	56. 30	6. 34	·1023					
11. 54	55. 0	6. 56	·1047					
12. 12	55. 50	7. 15	·1035					
12. 22	55. 10	7. 37	·1030					
12. 43	21. 57. 25		***					
15. 1	22. 3. 35	9. 2	·1033					
15. 52	3. 5	9. 18	·1038					
16. 31	1. 25	9. 45	·1033					
17. 16	2. 0	10. 0	·1064					
17. 48	3. 0	10. 14	·1060					
18. 5	9. 45	10. 30	·1076					
18. 31	4. 0	11. 10	·1042					
21. 51	0. 0	12. 8:	·1032					
22. 16	3. 30	13. 5	·1035					
22. 37	2. 30	13. 45	·1037					
23. 32	3. 10	14. 30	·1037					
23. 48	5. 30		***					
23. 59	5. 25	16. 30	·1050					
		17. 35	·1050					
		18. 0:	·1053					
		18. 35	·1065					
		19. 15:	·1057					
		19. 54	·1062					
		20. 20	·1056					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Feb. 29 h m		h m		h m	°	°
		21. 15:	·1052					
		21. 41	·1045					
		22. 15	·1050					
		22. 40	·1041					
		23. 30	·1037					
		23. 59	·1040					
Mar. 1		Mar. 1		Mar. 1		Mar. 1		
0. 17	22. 5. 20	0. 0	·1040	0. 8	·01880	1. 40	47 ·5	48 ·0
1. 47	6. 35	0. 15	·1041	1. 53:	·01798	3. 40	54 ·0	56 ·0
3. 24	5. 35	0. 30	·1034	3. 26	·01535	9. 40	54 ·5	57 ·2
4. 8	3. 30		***	5. 2	·01165	21. 40	44 ·0	47 ·0
7. 15	22. 0. 25	1. 50	·1034	5. 23:	·01177			
7. 33	21. 57. 0	2. 6	·1032	5. 58:	·01177			
8. 9	21. 56. 35		***	7. 10	·01218			
8. 57	22. 1. 40	3. 10	·1032	8. 47	·01200			
9. 34	1. 35	3. 47	·1020	11. 3	·01303			
9. 54	0. 30		***	14. 38:	·01532			
10. 30	22. 1. 30	4. 33	·1032	17. 50	·01990			
10. 55	21. 58. 35	5. 10	·1026	17. 55	·01965			
12. 15	22. 0. 0		***	19. 42	·01952			
13. 20	21. 59. 30	6. 38	·1033	21. 0:	·01988			
14. 6	22. 2. 0		***	22. 16	·01948			
14. 47	1. 0	7. 30	·1023	23. 59	·01926			
15. 10	2. 0		***					
20. 11	1. 35	8. 21	·1030					
21. 28	0. 30	8. 37	·1025					
23. 59	4. 25	8. 47	·1027					
		9. 14:	·1025					
			***					
		10. 0	·1034					
		10. 35	·1030					
		11. 0	·1036					
		11. 47	·1029					
		12. 0	·1032					
		12. 30:	·1029					
		12. 50:	·1033					
		13. 30	·1031					
		13. 53	·1040					
		16. 50	·1043					
		19. 39	·1050					
		23. 46	·1036					
		23. 59	·1056					
Mar. 2		Mar. 2		Mar. 2		Mar. 2		
0. 20	22. 5. 30	0. 0	·1037	0. 42	·01877	1. 40	47 ·0	50 ·0
0. 43	5. 25	0. 15	·1038	2. 38:	·01740	3. 40	50 ·0	53 ·0
1. 56	7. 10	1. 40	·1043	5. 24	·01264	9. 40	53 ·5	55 ·0
5. 3	2. 35	2. 15	·1037	6. 37	·01126	21. 40	41 ·8	47 ·0
	***	3. 50	·1034	7. 16	·01148			
9. 3	2. 15	5. 9	·1034	9. 27:	·01146			
9. 17	22. 4. 45	6. 4	·1042	11. 15	·01235			
	***	7. 10	·1041	12. 30	·01242			
10. 57	21. 59. 0	7. 53	·1037	14. 12	·01355			
11. 14	22. 1. 25		***	15. 0	·01450			
	***	8. 35	·1040	15. 33	·01450			
12. 8	21. 57. 30	8. 45	·1036	18. 24	·01912			
12. 13	59. 10	9. 20	·1037	18. 30	·01892			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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	° ′ ″	Mar. 2 h m		Mar. 2 h m		h m	°	°
12. 33	21. 57. 0	9. 45	·1033	19. 27	·01900			
13. 31	22. 0. 0	10. 10	·1038	21. 22	·01942			
13. 47	22. 2. 35		***	22. 33:	·01863			
14. 8	21. 58. 20	10. 33	·1033	23. 59	·01837			
14. 29	21. 59. 0		***					
15. 8	22. 5. 50	11. 32	·1040					
15. 45	2. 0	11. 44	·1053					
16. 38	2. 15	11. 53	·1046					
17. 8	5. 35	12. 10	·1058					
	***	12. 24	·1054					
18. 15	3. 0	12. 35	·1055					
20. 59	4. 15	12. 50	·1049					
22. 23	2. 30	12. 53	·1054					
22. 32	4. 0	13. 4	·1046					
23. 1	3. 15	13. 10	·1052					
23. 13	6. 30	13. 20	·1051					
23. 20	5. 0	13. 30	·1041					
23. 50	4. 30	13. 48	·1048					
23. 59	5. 35	14. 8	·1040					
			***					
		15. 0	·1052					
			***					
		15. 45	·1045					
		16. 0	·1049					
		16. 56	·1044					
		17. 8	·1053					
		17. 20	·1051					
		17. 48	·1059					
			***					
		19. 25	·1058					
		19. 35	·1065					
		19. 40	·1058					
		19. 55	·1064					
			***					
		21. 9	·1059					
		21. 25	·1052					
		22. 23	·1048					
		22. 30	·1052					
			***					
		23. 5	·1046					
		23. 14	·1058					
		23. 24	·1046					
			***					
		23. 45	·1047					
Mar. 3		Mar. 3		Mar. 3		Mar. 3		
0. 42	22. 6. 30	0. 45	·1048	1. 27	·01742	1. 40	46 ·5	48 ·0
1. 23	5. 30	1. 8	·1049	2. 30	·01672	3. 40	51 ·0	53 ·0
1. 40	8. 30	1. 25	·1033	3. 37	·01422	9. 40	54 ·5	56 ·0
2. 0	7. 0	1. 40	·1045	4. 39	·01147	21. 40	44 ·0	47 ·0
2. 30	8. 50	2. 8	·1028		***			
3. 15	5. 15	2. 30	·1037	6. 18	·01230			
3. 47	7. 30		***	8. 25	·01174			
5. 18	22. 3. 30	3. 13	·1034	9. 45	·01218			
5. 46	21. 47. 30	3. 35	·1041	10. 48	·01270			
6. 31	59. 0	3. 40	·1034	11. 27	·01232			
6. 59	21. 55. 45	3. 45	·1050	11. 50	·01275			
7. 32	22. 2. 45	4. 0	·1031	14. 52:	·01555			
			***					

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. 3		Mar. 3		Mar. 3				
h m	° ′ ″	h m		h m		h m	°	°
8. 37	22. 0. 10	4. 20	·1034	17. 29	·01960			
9. 31	22. 0. 0	4. 30	·1025	17. 34	·01932			
9. 57	21. 57. 0	4. 55	·1036	19. 13	·01950			
10. 10	57. 45	5. 15	·1022	21. 7	·01943			
10. 22	56. 0		***		***			
10. 43	57. 0	5. 25	·1024	22. 26	·01885			
11. 17	43. 25	5. 30	·1017	23. 59	·01860			
11. 44	45. 30		***					
12. 8	52. 30	5. 43	·1025					
12. 26	54. 0	5. 53	·1046					
12. 49	21. 59. 0	6. 5	·1034					
13. 33	22. 4. 0	6. 20	·1032					
14. 8	5. 10	6. 35	·1038					
14. 59	2. 0	6. 53	·1030					
	***	7. 5	·1038					
17. 23	22. 1. 0	7. 40	·1030					
17. 31	21. 59. 15	8. 0	·1037					
18. 17	22. 4. 30	9. 0	·1026					
18. 54	4. 35	9. 32	·1030					
19. 7	6. 35	9. 45	·1040					
19. 27	4. 0	9. 53	·1033					
	***	10. 10	·1038					
20. 46	2. 25	10. 21	·1035					
	***		***					
22. 26	2. 10	10. 44	·1040					
22. 37	3. 35	11. 8	·1074					
22. 52	2. 30	11. 23	·1067					
23. 19	4. 30	11. 44	·1036					
23. 59	5. 0	11. 55	·1044					
		12. 4	·1039					
		12. 13	·1042					
		12. 23	·1032					
		12. 45	·1037					
			***					
		13. 39	·1035					
		13. 55	·1038					
		14. 5	·1037					
		14. 28	·1047					
		15. 0:	·1044					
			***					
		17. 15	·1061					
		18. 8	·1051					
		18. 30	·1060					
		18. 45	·1057					
		19. 35	·1070					
			***					
		20. 0	·1062					
		20. 15	·1068					
			***					
		20. 35	·1069					
			***					
		21. 35	·1060					
			***					
		22. 0	·1054					
			***					
		22. 40	·1056					
		23. 5	·1048					
		23. 15	·1053					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Mar. 3						
h m	° ′ ″	h m		h m		h m	°	°
		23. 45	·1039					
		23. 59	·1021					
Mar. 4		Mar. 4		Mar. 4		Mar. 4		
0. 16	22. 6. 0	0. 0	·1021	0. 15	·01860	1. 40	46 ·0	48 ·5
	***	0. 10	·1030	1. 22	·01847	3. 40	49 ·0	52 ·0
1. 45	9. 30	0. 17	·1018	1. 38	·01858	9. 40	50 ·5	52 ·5
2. 6	8. 0	0. 30	·1026	2. 52:	·01788	23. 20	45 ·5	48 ·0
2. 29	10. 0	0. 38	·1031	5. 5	·01468			
3. 0	4. 30	0. 42	·1021	5. 38:	·01405			
	***		***	6. 28	·01362			
3. 50	5. 45	1. 24	·1050	8. 36:	·01167			
	***	1. 30	·1059	10. 22	·01166			
5. 11	22. 4. 30	2. 4	·1044	12. 2	·01178			
5. 49	21. 56. 35	2. 11	·1048	16. 28	·01320			
6. 40	22. 2. 30	2. 30	·1037	20. 8:	·01580			
8. 17	22. 2. 35	2. 50	·1050	21. 53	·01630			
9. 20	21. 55. 30	3. 48	·1063	21. 58	·01575			
9. 28	58. 0	4. 15	·1051	22. 43	·01583			
10. 1	56. 0	4. 20	·1059	23. 59	·01561			
	***		***					
10. 21	59. 0	4. 45	·1057					
	***	5. 15	·1041					
10. 33	21. 59. 0	5. 46	·1049					
11. 27	22. 2. 10	6. 3	·1041					
12. 2	0. 45	6. 39	·1057					
12. 43	4. 25	6. 59	·1054					
13. 36	2. 30	7. 32	·1061					
13. 52	4. 0	7. 55	·1048					
14. 16	2. 10	8. 25	·1052					
14. 48	2. 0	8. 53	·1048					
15. 1	6. 30	9. 23	·1085					
15. 10	6. 30	10. 0	·1050					
15. 17	8. 35	10. 23	·1059					
15. 22	6. 30	10. 35	·1051					
15. 52	8. 20		***					
16. 54	2. 30	12. 30	·1054					
20. 14	1. 35		***					
21. 52	0. 0	12. 53	·1062					
22. 13	2. 10	13. 32	·1056					
23. 30	1. 0	13. 43	·1060					
23. 49	3. 30	13. 58	·1057					
		14. 4	·1061					
		14. 54	·1057					
		15. 8	·1051					
		15. 17	·1056					
		15. 30	·1055					
			***					
		17. 0	·1062					
		17. 23	·1058					
			***					
		19. 40	·1065					
			***					
		21. 26	·1057					
			***					
		22. 15	·1056					
		22. 30	·1052					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar. 4 h m		h m		h m	°	°
		23. 35	·1052					
		23. 59	·1053					
Mar. 5		Mar. 5		Mar. 5		Mar. 5		
0. 16	22. 4. 10	0. 15	·1051	0. 4	·01550	9. 45	49·5	52·7
1. 47	8. 0	1. 23	·1053	0. 43	·01548	21. 40	40·5	44·5
3. 4	7. 0	2. 40	·1050	3. 15:	·01538			
5. 23	22. 2. 35	4. 0	·1052	5. 52	·01248			
6. 27	21. 57. 25	4. 15	·1051	8. 14	·01040			
7. 37	22. 3. 30	4. 31	·1056	10. 33:	·01032			
12. 17	1. 30		***	14. 2	·01362			
13. 29	22. 1. 0	6. 9	·1047	14. 21	·01373			
13. 45	21. 59. 25	6. 19	·1040	17. 47	·01858			
14. 10	22. 9. 0	6. 40	·1046	17. 50	·01843			
14. 34	22. 3. 30	8. 15	·1052	18. 12	·01843			
15. 25	21. 59. 10	8. 50	·1058		·01765			
16. 2	22. 1. 0	10. 10	·1055	18. 43	·01790			
	***	13. 55	·1058	19. 47	·01790			
18. 27	1. 28	14. 5	·1067	21. 5	·01820			
	***	14. 23:	·1065	22. 18	·01755			
19. 23	4. 50	14. 50	·1069	23. 59	·01710			
19. 52	3. 25		***					
20. 7	6. 0	15. 15	·1064					
20. 45	1. 50		***					
21. 9	2. 35	17. 12	·1068					
21. 37	0. 45		***					
	***	17. 57	·1076					
23. 34	3. 0	18. 15	·1076					
23. 47	5. 35	18. 45:	·1069					
23. 59	4. 30		***					
		20. 0	·1080					
		20. 40	·1072					
		21. 37	·1070					
		22. 0	·1069					
			***					
		22. 23	·1054					
		23. 8	·1055					
			***					
		23. 43	·1036					
		23. 59:	·1043					
Mar. 6		Mar. 6		Mar. 6		Mar. 6		
0. 7	22. 4. 20	0. 0	·1044	0. 8	·01706	1. 40	43·8	47·0
1. 16	7. 0		***	1. 4	·01677	3. 40	48·0	51·0
1. 26	12. 0	1. 8	·1043	1. 55	·01650	9. 40	51·0	53·0
	***	1. 32	·1059	3. 13:	·01582	21. 40	43·0	45·0
2. 27	4. 30	1. 50	·1028	5. 5	·01115			
	***	2. 7	·1044	5. 21	·01128			
4. 53	5. 0	2. 30	·1038	5. 50	·01153			
	***	2. 44	·1046	6. 13	·01120			
5. 36	22. 4. 0	2. 58	·1040	6. 32	·01106			
6. 7	21. 58. 30	3. 30	·1042	7. 0	·01135			
6. 17	59. 15	4. 5	·1042	8. 22	·01118			
6. 59	38. 0	4. 12	·1047	10. 2	·01140			
7. 20	42. 30		***	11. 22	·01186			
7. 40	42. 30	4. 45	·1044	11. 52	·01115			
8. 22	57. 25		***	19. 13	·01882			
8. 30	21. 57. 0	5. 23	·1048	19. 22	·01863			
9. 18	22. 1. 30		***	20. 15	·01865			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force 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. 6 h m	° ′ ″	Mar. 6 h m		Mar. 6 h m		h m	°	°
10. 14	22. 0. 50	6. 15	·1037	21. 36:	·01890			
10. 34	22. 2. 30	6. 39	·1013	23. 5	·01820			
11. 2	21. 57. 25	7. 6	·1050	23. 59	·01800			
11. 19	22. 1. 30	7. 15	·1043					
11. 32	10. 30	7. 24	·1045					
11. 54	7. 0	7. 32	·1028					
12. 7	1. 50	7. 45	·1035					
12. 15	22. 2. 35	8. 25	·1013					
12. 40	21. 59. 0	9. 17	·1038					
13. 12	21. 57. 30	9. 45:	·1034					
13. 37	22. 0. 30	10. 40	·1047					
13. 47	21. 59. 40	11. 23	·1037					
14. 0	22. 1. 30	11. 50	·1070					
	***	12. 8	·1055					
15. 18	2. 0	12. 20	·1056					
15. 38	3. 30	12. 39	·1043					
15. 48	2. 20	13. 8	·1051					
	***	13. 17	·1047					
19. 45	3. 0	13. 45	·1043					
	***		***					
21. 40	2. 0	20. 0	·1067					
22. 8	5. 0		***					
22. 22	4. 10	21. 0	·1058					
	***		***					
23. 26	7. 30	22. 3	·1057					
	***	22. 25:	·1051					
23. 45	4. 30	22. 46	·1050					
23. 59	6. 30	22. 55	·1038					
		23. 4	·1038					
		23. 30	·1007					
		23. 59	·1034					
Mar. 7		Mar. 7		Mar. 7		Mar. 7		
0. 7	22. 5. 30	0. 21	·1044	0. 38	·01770	1. 40	45·0	47·0
0. 24	9. 30	0. 44	·1038	2. 47	·01760	3. 40	48·0	50·0
0. 57	6. 30	1. 0	·1044	4. 0	·01562	9. 40	52·0	53·0
1. 25	10. 35	1. 35	·1041	4. 47	·01410	21. 40	50·0	52·0
1. 51	12. 0	1. 45	·1046	7. 2	·01118			
2. 7	9. 0	2. 3	·1024	7. 26	·01130			
2. 12	10. 20		***	8. 36	·01100			
2. 22	7. 30	2. 40	·1040	9. 13	·01014			
	***	2. 46	·1034	10. 37	·01063			
3. 16	7. 35	2. 57	·1045	12. 16	·01022			
	***		***	15. 58	·01070			
3. 42	5. 35	3. 23	·1034	17. 22	·01118			
4. 40	22. 7. 0		***	21. 0	·01160			
5. 28	21. 58. 0	4. 0	·1051	22. 9	·01105			
5. 40	59. 0	4. 20	·1046	22. 34	·01060			
6. 13	54. 35		***	23. 4:	·01030			
6. 32	58. 15	4. 45:	·1032	23. 59	·01050			
6. 58	21. 59. 30		***					
7. 23	22. 4. 0	5. 3	·1042					
7. 43	22. 1. 25	5. 15	·1035					
7. 52	21. 56. 0	5. 25	·1042					
8. 21	59. 30	5. 40	·1042					
8. 31	48. 30	5. 50	·1032					
8. 43	51. 30	6. 0	·1031					
8. 50	48. 10	6. 23	·1043					
			***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 7		Mar. 7						
h m	° ′ ″	h m		h m		h m	°	°
9. 6	21. 46. 10	7. 5	·1042					
9. 23	21. 53. 20	7. 22	·1033					
10. 7	22. 1. 0		***					
10. 29	21. 58. 45	7. 45	·1038					
10. 56	22. 1. 0	7. 50	·1032					
13. 54	3. 23	8. 5	·1048					
14. 16	4. 30	8. 27	·1044					
14. 51	3. 30	8. 39	·1078					
15. 18:	8. 30	8. 50	·1064					
15. 50	4. 45	8. 55	·1067					
	***	9. 20	·1058					
17. 16	2. 30	9. 35	·1039					
	***	9. 50	·1040					
19. 23	3. 0	10. 27	·1031					
	***	10. 40	·1042					
21. 17	1. 0	11. 8	·1041					
	***	11. 23	·1049					
22. 58	2. 30		***					
23. 10	4. 30	11. 58	·1050					
23. 23	3. 25	13. 0	·1043					
23. 52	4. 30	13. 10	·1048					
		13. 20	·1047					
			***					
		15. 50	·1051					
		16. 8:	·1047					
			***					
		18. 15	·1052					
		18. 25	·1048					
			***					
		21. 30	·1050					
		21. 37	·1046					
		22. 5	·1048					
		23. 29	·1034					
		23. 35	·1040					
		23. 40	·1036					
		23. 59	·1034					
Mar. 8		Mar. 8		Mar. 8		Mar. 8		
0. 5	22. 7. 0	0. 5	·1036	0. 13	·01053	1. 40	54 ·5	55 ·5
0. 47	5. 50	0. 15	·1033	3. 10	·01198	3. 40	57 ·5	58 ·0
2. 3	7. 25	0. 50	·1032	3. 32	{·01203	9. 40	58 ·5	59 ·5
2. 29	6. 30		***		{·01259	21. 40	55 ·0	57 ·5
3. 11	8. 15	2. 27	·1031	3. 54	·01218			
6. 28	2. 10	3. 10	·1036	6. 22:	·01195			
8. 22	3. 40	3. 29	·1028	7. 17:	·01225			
9. 48	3. 0	3. 35	·1033	9. 18	{·01198			
10. 25	22. 3. 30		***		{·01185			
10. 59	21. 58. 30	5. 18	·1028	12. 5	·01200			
11. 41	22. 2. 10	5. 30	·1035	13. 50	·01243			
11. 53	5. 15	5. 45	·1031	14. 3	·01238			
12. 9	2. 35		***	18. 3	·01510			
13. 18	0. 45	7. 8	·1031	20. 33	·01628			
13. 53	6. 30	8. 23	·1038	21. 36	·01598			
14. 22	1. 35	8. 50	·1034	23. 32	·01575			
14. 55	2. 35	10. 24	·1035	23. 59	·01560			
15. 36	1. 25	11. 8	·1048					
18. 20	4. 25	11. 45	·1036					
20. 59	2. 0	11. 58	·1044					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
Mar. 8		Mar. 8						
h m	° ′ ″	h m		h m		h m	°	°
22. 15	22. 2. 0	12. 8	·1042					
23. 59	6. 25	12. 23:	·1045					
		13. 20	·1033					
		13. 39	·1038					
		14. 0:	·1051					
		14. 40	·1044					
		15. 6	·1046					
			***					
		16. 25	·1040					
			***					
		18. 5	·1044					
		18. 25	·1049					
		18. 53	·1046					
			***					
		19. 35	·1053					
		20. 23	·1044					
			***					
		21. 17	·1042					
		21. 29	·1037					
		21. 40	·1038					
		23. 9	·1027					
		23. 59	·1033					
Mar. 9		Mar. 9		Mar. 9		Mar. 9		
0. 16	22. 6. 35	0. 0	·1033	0. 17	·01535	1. 40	56 ·5	59 ·0
2. 20	11. 30	0. 15	·1034	1. 2	·01515	3. 40	60 ·5	62 ·5
2. 55	8. 20		***	2. 14:	·01448	9. 40	62 ·5	63 ·5
4. 40	7. 25	0. 31	·1033	3. 24	·01265	21. 40	56 ·0	57 ·0
5. 47	3. 30		***	4. 37	·01300			
6. 25	22. 4. 35	2. 16	·1026	5. 30	·01273			
7. 2	21. 41. 30		***	6. 6	·01270			
7. 38	59. 30	2. 46	·1014	6. 47	·01257			
7. 45	21. 59. 20	4. 20	·1030	7. 17	·01280			
7. 59	22. 2. 0	4. 39	·1028	8. 59:	·01210			
8. 52	3. 30	4. 53	·1021	13. 26	·01443			
10. 37	3. 25	5. 23	·1022	17. 46:	·01818			
11. 33	2. 15	5. 50	·1028	19. 53	·02057			
13. 12	3. 30	6. 18	·1027		(†)			
13. 22	6. 0	6. 45	·0998	21. 40	·02177*			
13. 46	4. 10	7. 15	·1035					
18. 50	2. 35		***					
21. 48	0. 40	7. 43	·1021					
22. 36	1. 0		***					
23. 59	5. 30	8. 38	·1026					
		8. 55	·1023					
		11. 30	·1032					
		13. 13	·1030					
		14. 50	·1032					
		19. 20	·1040					
		23. 59	·1021					
Mar. 10		Mar. 10		Mar. 10		Mar. 10		
0. 4	22. 5. 35	0. 0	·1021		(†)	1. 40	57 ·0	58 ·5
0. 55	7. 15		***	1. 40	·02171*	3. 40	58 ·5	62 ·0
2. 7	7. 45	1. 0	·1024	3. 17	·02153	9. 40	57 ·5	58 ·0
4. 6	5. 40	1. 36	·1032	5. 15	·01990	21. 40	51 ·0	53 ·5
5. 25	3. 25	2. 44	·1026	6. 42:	·01895			
6. 51	2. 50		***	7. 32	·01873			

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. 10		Mar. 10		Mar. 10		Mar. 10		
h m	° ′ ″	h m		h m		h m		°
14. 45	22. 3. 0	3. 40	·1028	9. 8:	·01833			
15. 30	3. 40	4. 5	·1033	11. 31:	·01945			
15. 58	2. 0		***	13. 15	·02160			
16. 24	3. 20	5. 0	·1032		·02095			
16. 53	2. 0	8. 39	·1041	19. 55	·02028			
17. 10	2. 30	10. 14	·1039	20. 13	·02005			
17. 42	1. 30	11. 30	·1042	21. 25:	·02005			
18. 24	5. 15	12. 0	·1041	22. 48	·01858			
	***	15. 0	·1043	23. 59	·01745			
20. 13	2. 15	15. 45	·1046					
	***	16. 15:	·1042					
22. 40	3. 0	17. 35	·1048					
	***	18. 16:	·1043					
23. 59	6. 35	19. 20	·1056					
		22. 2	·1033					
			***					
		23. 30	·1032					
		23. 59	·1030					
Mar. 11		Mar. 11		Mar. 11		Mar. 11		
0. 8	22. 7. 35	0. 10	·1027	0. 14	·01725	1. 45	54 ·0	56 ·0
0. 52	9. 30		***	2. 34	·01645	3. 40	58 ·0	58 ·5
1. 31	10. 0	1. 0	·1032	4. 40	·01110	9. 45	59 ·0	61 ·5
3. 58	7. 10	1. 43	·1032	6. 3	·01120	23. 20	49 ·0	51 ·0
6. 52	1. 35	2. 15:	·1027	7. 20	·01163			
14. 5	3. 25	3. 0	·1031	8. 46	·01198			
15. 12	1. 45	3. 15	·1028	11. 47	·01383			
16. 12	3. 0	4. 7	·1035	12. 37	·01468			
20. 4	2. 10		***	14. 50:	·01688			
20. 27	3. 0	5. 6	·1035	17. 13	·02025			
21. 22	1. 0		***		·01977			
23. 18	4. 30	7. 46	·1030	18. 44	·01973			
23. 32	7. 0	8. 8	·1034	20. 14	·02018			
23. 41	5. 30	10. 2	·1035	21. 15	·02006			
23. 59	6. 0	10. 20	·1039	22. 47	·01952			
		11. 49	·1041		***			
		14. 25:	·1047	23. 59	·01845			
		15. 45	·1041					
		19. 15	·1050					
			***					
		19. 46	·1043					
		20. 23	·1046					
		21. 30	·1044					
		22. 23	·1034					
		22. 50	·1038					
		23. 14	·1032					
		23. 30	·1040					
		23. 43	·1031					
		23. 59	·1032					
Mar. 12		Mar. 12		Mar. 12		Mar. 12		
0. 3	22. 6. 30	0. 8	·1033	0. 18	·01805	11. 32	58 ·5	59 ·0
1. 0	9. 0	3. 35	·1031	2. 20:	·01664	21. 40	51 ·0	55 ·0
6. 3	1. 0	6. 30	·1034	3. 50	·01420			
7. 16	2. 25	6. 55	·1031	4. 56	·01200			
	***	7. 5	·1036	5. 40	·01085			
8. 53	22. 1. 45	7. 25	·1031	5. 51	·01118			
9. 31	21. 58. 0	8. 1	·1038	7. 15	·01175			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 12		Mar. 12		Mar. 12		h m	°	°
h m	° ′ ″	h m		h m				
10. 3	21. 59. 45	8. 30	·1034	9. 1	·01213			
10. 19	58. 0	8. 46	·1035	9. 13	·01240			
10. 33	57. 40	8. 59	·1034	10. 52	·01316			
10. 50	21. 54. 0	9. 4	·1026	11. 11	·01320			
11. 45	22. 0. 30	9. 15	·1035	11. 42	·01365			
	***	9. 30	·1030	12. 34	·01400			
13. 35	2. 0	10. 40	·1042	15. 8	·01546			
	***	10. 55	·1058	16. 22	·01650			
14. 8	1. 30	11. 17	·1041	17. 4	·01733			
14. 32	5. 0	11. 50	·1032	18. 28:	·01900			
	***	12. 14	·1038	19. 21	·02040			
15. 41	0. 35	12. 30	·1036	19. 27	·02020			
16. 9	22. 3. 0	12. 34	·1040	20. 24:	·02040			
16. 49	21. 58. 0	13. 0	·1031	21. 15	·01835			
17. 21	22. 0. 0	13. 38	·1037	21. 43	·02042			
18. 8	22. 0. 0	14. 31	·1037	22. 44	·02015			
18. 25	21. 58. 25	15. 0	·1042	23. 59	·02005			
20. 30	22. 3. 0	15. 40	·1034					
21. 16	0. 30	16. 16	·1047					
22. 0	0. 30	16. 25	·1044					
23. 53	4. 20		***					
		17. 20	·1046					
			***					
		17. 38	·1040					
			***					
		18. 20	·1043					
		18. 40	·1051					
		18. 50	·1047					
		19. 40	·1046					
		19. 58	·1041					
		20. 48:	·1034					
		21. 55	·1036					
		23. 30	·1036					
Mar. 13		Mar. 13		Mar. 13		Mar. 13		
0. 7	22. 4. 45	0. 5	·1033	0. 18	·01982	1. 40	55 ·3	57 ·5
0. 41:	5. 45		***	1. 47	·01823	3. 40	58 ·3	61 ·5
1. 10	8. 45	1. 14	·1036	3. 25	·01507	9. 40	61 ·c	62 ·5
1. 37	7. 30		***	4. 23	·01320	21. 40	52 ·8	55 ·0
2. 56	9. 0	1. 36	·1032	4. 50	·01277			
3. 10	7. 30	2. 18	·1038	5. 0	·01284			
	***	2. 45	·1034	5. 10	·01335			
5. 30	3. 30	3. 0	·1040	5. 28	·01358			
6. 34	22. 2. 20	3. 25	·1029	6. 2	·01378			
6. 53	21. 57. 0		***	6. 51	·01438			
7. 7	57. 0	4. 4	·1035	7. 30:	·01500			
7. 18	59. 20	4. 55:	·1027	8. 31	·01548			
7. 37	58. 30	5. 28:	·1033	9. 26	·01612			
7. 53	53. 25	5. 58:	·1020	11. 13	·01748			
8. 0	54. 50	6. 26	·1032	12. 40:	·01788			
8. 35	54. 25	6. 47	·1015	13. 13:	·01840			
8. 52	59. 30	6. 55	·1018	13. 52:	·01890			
9. 9	21. 58. 30		***	14. 48	·02065			
9. 22	22. 1. 35	7. 16	·1013		·02050			
9. 43	21. 58. 15	7. 25	·1016	16. 50:	·02070			
10. 41	21. 57. 15	7. 38	·1012	18. 7	·02060			
	***	7. 55	·1021	19. 4	·02100			
11. 30	22. 2. 0	8. 30	·1013	20. 31	·02170			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 13		Mar. 13		Mar. 13		h m	°	°
h m	° ′ ″	h m		h m				
12. 2	22. 1. 0	8.43	·1017	21.40:	·02068			
12.31	22. 3.15	9. 6	·1012	22.53:	·02072			
13. 5	21.55.30	9.16	·1021	23.58	·02025			
13.42	57.30	9.30	·1015					
14. 8	21.54.35	10.12:	·1020					
14.38	22. 6. 0	10.40	·1015					
15.18	0. 0	11. 2	·1016					
15.40	22. 1. 0	11. 6	·1025					
16.21	21.57.15	11.12	·1018					
17. 7	59.15	11.23	·1027					
	***	11.50	·1022					
19. 1	59.30	12.15	·1035					
	***		***					
21.20	21.57. 0	12.32	·1034					
	***	12.48	·1027					
22.28	22. 3.30	13.20:	·1046					
	***	14. 4:	·1025					
23.15	4.45	14.22	·1030					
23.30	3. 0	14.40	·1021					
23.59	6.30	15.20:	·1042					
		15.50	·1036					
		16.15	·1041					
		17. 0:	·1036					
		17.53	·1042					
		19.53	·1044					
			***					
		21. 6	·1032					
		21.40	·1014					
		22. 8	·1010					
		22.50	·1021					
		23.10	·1020					
		23.59	·1029					
Mar. 14		Mar. 14		Mar. 14		Mar. 14		
0.17	22. 9.35	0. 0	·1029	0.37	·01965	1.40	54·5	56·5
1. 8	8.30	0.15	·1034	1.10	·01937	3.40	56·5	58·0
2.20	10.25	0.40	·1032	3.25	·01852	9.40	57·5	58·0
3.13	7.35	1. 0	·1033	6.22	·01560	21.40	49·0	50·0
	***	1.50	·1040	7.40	·01442			
6. 2	2. 0	3. 0	·1030	9. 8:	·01405			
7. 9	2.30		***	10.33	·01427			
8. 2	1.30	6.45	·1034	15.26	·01692			
13.22	1. 0	10.53	·1042	17. 7:	·01865			
13.51	3.35		***	18.17	·02045			
14.22	0.45	13.44	·1043	18.58	·02007			
15. 0	22. 2.40	14. 8:	·1048	19.30	·02018			
15.44	21.59.30	14.36	·1046	19.50	·01960			
17.18	21.58.30	14.53	·1058	20.27	·02014			
18.27	22. 3.30	15.40	·1050	21.20	·02012			
19.21	21.59. 0	16.15	·1052	22. 5	·01963			
19.47	22. 0.15	17.55	·1045	23.59	·01763			
	***	18.25:	·1048					
21.32	21.59.10	19. 0:	·1056					
23.20	22. 2.45	19.20	·1053					
23.59	5.30	20.30	·1054					
		21. 0	·1045					
		22. 3	·1044					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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	° ′ ″	Mar. 14 h m		h m		h m	°	°
		23.22	·1032					
		23.59	·1035					
Mar. 15		Mar. 15		Mar. 15		Mar. 15		
0.18	22. 7.10	0. 0	·1035	0.40	·01730	1.40	53·0	54·0
0.32	9.30	0.15	·1038	1.40	·01625	3.40	56·5	58·5
0.45	8.30	1.23	·1043	3.25:	·01455	9.40	59·0	61·0
1.20	10.45		***	5.38	·01074	21.40	54·0	56·0
1.34	9.30	1.45	·1036	5.47	·01079			
5. 6	5.30	3. 8	·1047	6.40	·01075			
7. 7	2. 0		***	9. 1	·01110			
7.22	3.10	4.13	·1046	9.13	·01125			
7.38	2.15	4.32	·1051	9.30	·01075			
7.59	22. 3.35	5. 0	·1043	9.38	·01110			
8.27	21.53. 0	6.14	·1051	10. 6	·01068			
8.38	52. 0	6.46	·1045		***			
8.58	21.55.30	7. 4	·1054	11.15	·01115			
9.13	22. 9. 0	7.23	·1043		***			
9.25	0.30	7.43	·1046	12.48	·01122			
9.32	22. 0. 0	8.27	·1026	12.58	·01155			
9.42	21.51. 0	8.32	·1030	13.34	·01045			
9.58	57.30	8.45	·1026	13.43	·01066			
10.10	50.20	9. 0	·1008	14. 8	·00952			
10.20	50.35	9.10	·1018	14.23	·01000			
10.27	49.40	9.18	·1003	14.52:	·01155			
10.38	52.30	9.34	·1021	15.28	·01215			
10.48	21.52. 0	9.39	·1018	15.50	·01160			
11.23	22. 0. 0	9.49	·1036	17. 2	·01388			
11.58	21.43.30	10. 5	·0999	17.49	·01428			
12.16	50.35	10.18	·1013	18.26:	·01475			
12.31	47.30	10.25	·1005	19. 9	·01582			
13. 7	9.30	10.38	·1004		***			
13.32	23. 0	11. 8	·1024	20.45	·01697			
13.55	58.30	11.31	·1021	21.14	·01715			
14.10	21.57.30	11.45	·1032	21.53:	·01756			
14.20	22. 2. 0	12. 8	·1036	22. 9	·01745			
14.35	21.53.30	12.30	·1007		·01672			
14.46	53. 0	12.37	·1018	22.30	·01675			
15. 2	56.20	12.45	·1002	23.24	·01606			
15. 6	56. 0		***	23.59	·01578			
15.15	59.30	13.14	·1056					
15.25	21.57.30	14. 0	·0962					
15.38	22. 4.35	14.35	·1030					
15.45	2.10	14.50	·1027					
15.52	22. 3.15	15. 2	·1018					
16. 2	21.58.25	15.10	·1023					
16.13	22. 1.30	15.17	·1015					
16.18	0.30	15.33	·1012					
16.28	3. 0	15.44	·0989					
	***	15.55	·1000					
16.47	22. 3. 0	16. 8	·1021					
16.56	21.59.15	16.15	·1018					
17.14	22. 2.30	16.23	·1024					
17.17	22. 3. 0		***					
17.29	21.59.30	16.45	·1025					
17.37	22. 1.20	16.53	·1021					
18. 5	21.59. 0	17. 0	·1030					
	***	17.13	·1028					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 15		Mar. 15						
h m	° ′ ″	h m		h m		h m	°	°
19. 1	22. 4. 0	17. 25	·1016					
19. 5	6. 0	17. 35	·1024					
	***	17. 47	·1017					
19. 40	7. 0	18. 8:	·1027					
	***	18. 39	·1014					
20. 25	0. 30		***					
20. 50	2. 35	19. 15	·1022					
	***	19. 27	·1037					
21. 21	0. 30	19. 32	·1027					
	***	19. 40	·1038					
21. 35	7. 0	19. 50	·1030					
	***		***					
22. 23	2. 30	20. 30	·1022					
	***	20. 44	·1028					
23. 12	5. 0		***					
	***	21. 12	·1012					
23. 52	4. 50	21. 25	·1017					
23. 59	6. 30	21. 44	·1006					
		22. 8	·1021					
			***					
		22. 55	·1028					
		23. 26	·1025					
			***					
		23. 59	·1028					
Mar. 16		Mar. 16		Mar. 16		Mar. 16		
0. 19	22. 9. 30	0. 0	·1027	0. 15	·01568	1. 40	56 ·0	58 ·0
0. 53	12. 0		***	1. 50	·01520	3. 40	56 ·0	58 ·5
1. 1	11. 20	0. 38	·1036	2. 32	·01548	9. 40	59 ·0	60 ·5
1. 37	17. 0	0. 45	·1017	3. 40	·01410	21. 40	49 ·0	50 ·5
1. 57	9. 30	0. 55	·1017	5. 17	·01264			
	***	1. 2	·1008	5. 51	·01195			
2. 23	5. 0	1. 15	·1004	6. 39	·01150			
2. 47	7. 50	1. 25	·0998	7. 22	·01228			
3. 3	6. 15	1. 35	·1002	7. 52	·01152			
3. 37	7. 35		***		***			
4. 1	11. 30	2. 6	·0981	9. 45	·01192			
4. 12	10. 45	2. 32	·1016	10. 3	·01100			
4. 26	13. 15	2. 55	·1013	10. 15	·01113			
	***	3. 38	·1022	10. 28	·01055			
5. 1	3. 45	4. 4	·1038	10. 37	·01120			
	***	4. 15	·1021	11. 32	·01166			
5. 28	5. 0	4. 19	·1020	12. 3:	·01225			
5. 36	4. 25	4. 40	·0998	13. 25	·01245			
6. 3	3. 30	5. 10	·1023	13. 38	·01285			
6. 18	5. 15		***	13. 54	·01268			
6. 25	22. 4. 25	5. 38	·1017	14. 1	·01280			
6. 48	21. 30. 35		***	14. 18	·01260			
7. 15	22. 4. 30	6. 30	·1030	14. 38	·01260			
8. 1	21. 48. 35	6. 46	·0995	15. 43:	·01580			
8. 7	49. 45	7. 8	·1044	16. 48	·01732			
8. 15	49. 0	7. 15	·1030	17. 58	·01982			
8. 25	52. 50	7. 24	·1049	19. 2:	·01908			
8. 30	52. 30	7. 39	·1019	21. 22:	·01970			
8. 51	21. 59. 10	7. 50	·1017	23. 59	·01900			
	***	8. 0	·1029					
9. 24	22. 1. 30	8. 8	·1024					
9. 36	21. 43. 30	8. 14	·1025					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 16		Mar. 16						
h m	° ′ ″	h m		h m		h m	°	°
9. 56	22. 9. 0	8. 24	·1012					
10. 5	21. 55. 10		***					
10. 14	22. 11. 0	8. 40	·1016					
10. 17	10. 0	8. 49	·1011					
10. 22	22. 15. 30	9. 0	·1011					
10. 34	21. 46. 25	9. 5	·1017					
10. 43	48. 0	9. 30	·1001					
10. 46	47. 35	9. 44	·1066					
10. 58	53. 35	10. 0	·1003					
11. 8	45. 0	10. 12	·1054					
11. 17	49. 40	10. 27	·0990					
11. 31	48. 30	10. 39	·1034					
11. 51	53. 30	10. 55	·1044					
12. 28	50. 30	11. 7	·1017					
12. 49	58. 30	11. 15	·1029					
12. 53	21. 58. 0	11. 34	·1011					
13. 11	22. 0. 30	11. 47	·1021					
13. 16	21. 59. 45	12. 0	·1018					
13. 35	22. 13. 0	12. 6	·1024					
13. 55	17. 0	12. 23	·1021					
14. 24	22. 5. 30		***					
14. 38	21. 55. 30	12. 43:	·1008					
14. 55	49. 50	13. 10	·1024					
15. 18	51. 40	13. 20	·1018					
15. 40	21. 58. 0	13. 30	·1043					
	***	13. 45	·1039					
17. 37	22. 2. 35	13. 52	·1044					
17. 55	6. 20		***					
	***	14. 15	·1033					
18. 53	3. 0	14. 35	·1007					
	***	15. 0	·1021					
19. 18	6. 0	15. 18	·1018					
	***	15. 47	·1019					
20. 24	3. 35	16. 0	·1025					
	***	16. 19	·1024					
21. 14	6. 0	16. 45:	·1025					
	***	17. 30:	·1012					
22. 7	4. 30		***					
	***	18. 40	·1046					
23. 35	5. 45	18. 53	·1042					
23. 48	8. 0		***					
		19. 32	·1046					
		19. 44	·1040					
			***					
		21. 20	·1036					
			***					
		21. 53:	·1026					
			***					
		23. 0	·1032					
		23. 4	·1039					
		23. 13	·1026					
		23. 45	·1034					
		23. 59	·1026					
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
0. 18	22. 6. 0	0. 0	·1027	0. 13	·01885	1. 40	52 ·5	54 ·0
0. 29	7. 15	0. 16	·1019	1. 38	·01846	3. 40	56 ·0	57 ·2
0. 37	6. 30	0. 30	·1027	2. 50	·01718	9. 53	57 ·0	58 ·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.
Mar. 17		Mar. 17		Mar. 17		Mar. 17		
h m	° ′ ″	h m		h m		h m	°	°
0. 50	22. 7. 30	0. 43	·1022	3. 35	·01600	21. 40	45 ·8	49 ·7
1. 2	5. 45	1. 10	·1036	3. 56	·01506			
	***	1. 38	·1048	5. 23	·01258			
1. 47	9. 15	1. 51	·1037	6. 40	·01117			
1. 53	6. 25	2. 8:	·1042	7. 50:	·01143			
	***	2. 30	·1038	8. 28	·01148			
2. 52	7. 0		***	9. 9	·01144			
2. 58	4. 35	2. 52	·1042	9. 59	·01170			
3. 53	4. 0	2. 55	·1036	10. 50	·01153			
4. 31	4. 35		***	12. 56	·01315			
5. 18	22. 3. 0	4. 0:	·1043	16. 40	{ ·01932			
5. 39	21. 59. 10		***		{ ·01918			
6. 35	22. 2. 20	5. 30	·1028	18. 25	·01920			
7. 10	0. 0	6. 0	·1049	19. 47	·01965			
7. 40	1. 30	7. 8:	·1037	20. 25	·01925			
7. 56	0. 30		***	20. 37	·01940			
8. 21	2. 15	9. 13	·1043	21. 24:	·01913			
9. 16	1. 0	9. 26	·1052	22. 20	·01848			
10. 9	3. 35	9. 38	·1048	23. 59	·01757			
10. 22	22. 7. 0	9. 53	·1050					
11. 10	21. 59. 0	10. 20	·1065					
11. 28	22. 1. 45	10. 55	·1045					
11. 46	0. 30		***					
12. 13	4. 25	11. 20	·1053					
	***	11. 43	·1049					
13. 2	22. 2. 30	12. 0	·1050					
13. 32	21. 58. 45	12. 20	·1042					
14. 17	59. 30	12. 40	·1059					
14. 37	21. 58. 30	13. 23	·1050					
15. 40:	22. 2. 0	13. 35	·1012					
16. 48	1. 20	13. 57	·1047					
17. 53	4. 55	15. 40	·1052					
20. 28	2. 0	17. 0:	·1061					
21. 5	2. 35	18. 0	·1053					
21. 32	1. 0	19. 40:	·1068					
23. 48	5. 15	21. 6	·1059					
		22. 35	·1059					
		23. 15	·1050					
			***					
		23. 59	·1059					
Mar. 18		Mar. 18		Mar. 18		Mar. 18		
0. 0	22. 6. 15	0. 0	·1058	0. 11	·01748	1. 40	49 ·2	53 ·0
1. 6	8. 20	0. 10	·1060	0. 23	·01713	3. 40	53 ·5	55 ·0
4. 17	6. 30		***	3. 8	·01494	9. 40	54 ·0	55 ·0
4. 48	4. 0	1. 14	·1058	5. 45	·01105	23. 26	48 ·0	51 ·5
7. 15	1. 30		***	7. 2:	·00996			
7. 56	22. 2. 50	2. 20	·1056	7. 35	·00980			
8. 20	21. 59. 10	4. 15	·1058	9. 58	·00922			
8. 36	22. 0. 30	4. 44	·1050	11. 22	·00933			
9. 5	21. 54. 0		***	15. 15	·01182			
9. 35	58. 25	5. 11	·1063	19. 22:	·01514			
	***	6. 4	·1060	21. 14	·01604			
11. 2	57. 15	6. 46	·1066	21. 26	·01565			
11. 15	58. 45	7. 13	·1063	23. 40	·01505			
11. 45	21. 57. 45	7. 19	·1067	23. 59	·01507			
12. 13	22. 0. 15	8. 9	·1060					
12. 26	21. 59. 0	8. 28	·1066					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar. 18		Mar. 18				Mar. 19		
h m	° ′ ″	h m		h m		h m	°	°
12. 55	22. 2. 0	8. 53	·1059					
13. 49	1. 40	9. 30	·1081					
14. 38	4. 35	9. 43	·1079					
15. 21	3. 0	10. 8	·1079					
15. 35	3. 35	10. 25	·1070					
16. 20	2. 20	10. 47	·1078					
19. 8	2. 30	11. 35	·1062					
21. 8:	0. 0	12. 1	·1065					
23. 59	6. 0	14. 8	·1063					
		18. 30	·1078					
		19. 44	·1076					
		23. 59	·1061					
Mar. 19		Mar. 19		Mar. 19		Mar. 19		
0. 25	22. 6. 0	0. 0	·1061	0. 25	·01517	9. 44	47 ·0	52 ·5
1. 20	7. 30	0. 10	·1060	1. 28	·01518	21. 40	44 ·0	46 ·0
2. 16	7. 30	1. 35	·1058	2. 37	·01492			
6. 7	3. 35	9. 23	·1078	6. 38	·01465			
9. 50	22. 2. 10	9. 55	·1077	7. 45	·01498			
10. 9:	21. 54. 0	10. 14	·1084	8. 50	·01507			
10. 50:	22. 0. 0	10. 45	·1068	9. 47	·01530			
11. 21	21. 58. 30	11. 30:	·1075	10. 2	·01482			
14. 1	22. 3. 0	12. 0	·1072	10. 43	·01508			
19. 30	22. 3. 0	13. 23	·1068	11. 54	·01500			
22. 2:	21. 59. 45	16. 16	·1073	14. 34	·01517			
23. 59	22. 4. 15	20. 2	·1083	18. 35	·01580			
		21. 45	·1074	20. 20	·01615			
		22. 29	·1066	23. 59	·01528			
		23. 20:	·1054					
		23. 59	·1054					
Mar. 20		Mar. 20		Mar. 20		Mar. 20		
0. 7	22. 4. 30	0. 0	·1054	0. 15	·01525	1. 40	45 ·8	47 ·5
1. 31	7. 0	0. 36	·1054	3. 24:	·01448	3. 40	49 ·0	50 ·0
	***	1. 0	·1055	6. 28	·01142	9. 40	49 ·5	51 ·0
3. 40	8. 0	1. 43	·1054	7. 15	·01108	21. 40	45 ·2	47 ·0
4. 25	5. 45	2. 17	·1058	8. 30	·01025			
8. 20	0. 40		***	8. 58	·01015			
9. 32	22. 2. 30	4. 3	·1048	13. 9	·00986			
	***	5. 31	·1066	14. 53	·01042			
10. 48	21. 58. 30	6. 45	·1069	17. 46	·01203			
12. 2	21. 58. 30		***	18. 32:	·01258			
12. 39	22. 7. 15	9. 29	·1055	20. 50	·01336			
13. 38:	21. 58. 20		***	23. 8	·01370			
15. 20	22. 2. 50	13. 0	·1068	23. 59	·01362			
17. 45	2. 0	13. 30	·1078					
20. 13	4. 0	14. 0:	·1071					
	***	15. 7	·1068					
21. 27	1. 30	17. 55	·1076					
23. 59	6. 30	18. 23	·1074					
		19. 15	·1077					
		20. 30:	·1076					
		22. 28	·1059					
		23. 7	·1056					
		23. 59	·1058					
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
0. 10	22. 6. 30	0. 0	·1058	0. 53	·01280	1. 40	49 ·0	51 ·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.
Mar. 21		Mar. 21		Mar. 21		Mar. 21		
h m	° ′ ″	h m		h m		h m	°	°
0. 56	22. 8. 45	0. 14	·1058	1. 21	·01360	3. 40	53 ·0	53 ·5
1. 23	7. 25	0. 45	·1061	1. 39	·01360	9. 40	55 ·5	56 ·5
1. 48	8. 30	0. 58	·1063	2. 52	·01295	21. 40	45 ·0	48 ·0
2. 19	7. 35	1. 25	·1057	3. 54:	·01150			
2. 52	8. 30	1. 34	·1061	4. 40	{·01018 ·01057			
3. 25	7. 0		***					
5. 17	6. 30	5. 30	·1055	6. 26	·01063			
7. 15	3. 25		***	6. 36	·01095			
8. 51	22. 3. 0	6. 40	·1066	7. 1	·01129			
9. 19	21. 59. 45		***	7. 45	·01159			
9. 51	22. 1. 30	8. 15	·1070	8. 46	·01174			
10. 13	0. 0		***	10. 8	·01230			
	***	9. 17	·1059	11. 38	·01271			
13. 19	0. 0	10. 2	·1059	12. 45	·01339			
13. 43	22. 7. 30		***	13. 17	·01374			
15. 5	21. 57. 20	10. 30	·1071	14. 27	·01459			
16. 26	22. 0. 30		***	15. 51	·01649			
16. 37	21. 59. 0	11. 10	·1069	17. 27	·01889			
	***		***	18. 21	·01864			
21. 7	22. 0. 0	12. 16	·1074	21. 32	{·01869 ·01789			
23. 59	4. 0	12. 30	·1070					
		12. 45	·1074	23. 7	·01690			
		13. 23	·1072	23. 59	·01652			
			***					
		14. 58	·1080					
		15. 45	·1075					
		17. 15:	·1086					
		18. 0	·1083					
		19. 30	·1082					
		20. 4	·1086					
			***					
		21. 30	·1076					
		23. 59	·1070					
Mar. 22		Mar. 22		Mar. 22		Mar. 22		
0. 25	22. 3. 30	0. 0	·1070	0. 30	·01634	1. 40	48 ·5	50 ·0
1. 50	5. 0	3. 13	·1063	1. 43	·01586	3. 40	52 ·5	53 ·5
4. 21	4. 0		***	2. 30	·01532	9. 40	54 ·5	55 ·5
6. 4	4. 15	4. 39	·1069	3. 23	·01451	21. 40	49 ·2	52 ·7
7. 0	3. 30	5. 8	·1060	5. 23	·01065			
7. 23	5. 0	7. 30	·1059	6. 13	·01017			
	***	9. 0	·1066	7. 30	·01059			
8. 32	1. 30	9. 22	·1055	9. 14	·01042			
	***	10. 3	·1070	10. 13	·01034			
9. 1	22. 1. 50	10. 45	·1060	11. 58	·01043			
9. 33	21. 56. 0	14. 3	·1066	12. 15	·01032			
10. 2	59. 25	16. 55	·1073	14. 45	·01092			
10. 17	21. 59. 0		(†)	16. 28	·01194			
11. 16	22. 2. 25	23. 15	·1070	18. 21	·01329			
13. 2	0. 50	23. 59	·1066	20. 1	·01448			
21. 7	0. 30			21. 12	·01481			
23. 55	5. 30			22. 34	·01485			
				23. 59	·01540			
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
0. 23	22. 6. 15	0. 0	·1066	0. 26	·01549	1. 40	51 ·5	53 ·0
2. 7	7. 30	0. 45	·1067	1. 42	·01571	3. 40	53 ·0	55 ·0
2. 44	6. 0	1. 0	·1067	3. 4	·01568	9. 40	55 ·0	58 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar. 23		Mar. 23		Mar. 23		Mar. 23		
h m	° ′ ″	h m		h m		h m	°	°
3. 33	22. 5. 30	1. 15	·1064	4. 5	·01450	21. 40	45 ·8	49 ·8
4. 5	3. 30	3. 45	·1062	5. 14	·01258			
6. 52	22. 0. 30	4. 8:	·1056	6. 18	·01081			
7. 18	21. 57. 30		***	7. 38	·01121			
8. 2	21. 56. 0	6. 30	·1057	8. 45	·01076			
9. 23	22. 1. 0	7. 0	·1048	9. 1	·01109			
	***		***	9. 56	·01149			
11. 18	1. 10	8. 0	·1058	10. 45	·01197			
11. 39	3. 0		***	11. 55	·01275			
12. 19	2. 10	9. 0	·1055	12. 26	·01365			
12. 49	6. 50	9. 26	·1062	13. 15	·01398			
13. 35	1. 15	9. 51	·1056	16. 51	·01899			
19. 38	0. 45	10. 23	·1062	17. 20	·01892			
23. 59	4. 55		***	18. 38	·01879			
		11. 45	·1065	21. 21	·01894			
		12. 20	·1063	22. 15	·01885			
		12. 55:	·1077	22. 58	·01866			
		14. 0	·1067	23. 16	·01847			
		14. 52	·1073	23. 59	·01809			
		15. 15	·1070					
		18. 29	·1076					
		19. 40	·1076					
		20. 8	·1072					
			***					
		22. 0	·1069					
		22. 31	·1074					
			***					
		23. 17	·1068					
		23. 59	·1069					
Mar. 24		Mar. 24		Mar. 24		Mar. 24		
0. 15	22. 5. 10	0. 0	·1069	0. 30	·01715	1. 40	48 ·0	48 ·5
0. 47	5. 35	0. 55	·1070	3. 7	·01680	3. 40	51 ·0	53 ·5
6. 38	2. 15	2. 55	·1067	4. 5	·01589	9. 40	54 ·3	56 ·0
8. 28	1. 30	3. 8	·1069	4. 42	·01487	21. 40	45 ·8	48 ·0
9. 23	22. 3. 0	3. 38	·1066	5. 15	·01382			
9. 47	21. 59. 40		***	5. 48	·01371			
10. 8	22. 2. 10	6. 8	·1073	6. 56	·01248			
10. 40	21. 55. 40	7. 39	·1055	7. 42	·01204			
11. 24	55. 15		***	8. 30	·01142			
11. 41	58. 0	8. 45	·1063	9. 15	·01119			
12. 5	21. 55. 15	9. 5	·1060	9. 47	·01116			
13. 20	22. 1. 20	10. 8	·1074	10. 38	·01074			
14. 23	0. 0		***	11. 33	·01104			
	***	10. 47	·1067	12. 30	·01123			
16. 33	22. 1. 20	11. 15	·1056	13. 58	·01189			
	***	11. 50	·1068	14. 13	·01190			
19. 42	21. 59. 30	12. 50	·1064	15. 43	·01335			
21. 38	21. 59. 0	13. 10	·1068	17. 23	·01554			
23. 59	22. 7. 0	14. 25	·1068	19. 36	·01864			
			***	20. 0	·01860			
		15. 14	·1076	20. 19	·01844			
		19. 18	·1083	21. 15	·01847			
		19. 46	·1078	21. 44	·01830			
		20. 35	·1079	22. 48	·01809			
		21. 32	·1072	23. 18	·01759			
		21. 53:	·1076	23. 45	·01725			
		22. 17	·1069	23. 59	·01714			

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.24 h m		h m		h m	°	°
		22. 34	·1072					
		22. 44	·1066					
		23. 0	·1069					
		23. 45	·1065					
		23. 59	·1067					
Mar.25		Mar.25		Mar.25		Mar.25		
0. 22	22. 8. 25	0. 0	·1067	0. 26	·01692	1. 40	47·5	50·5
	***	0. 49	·1080	0. 46	·01674	3. 40	50·5	53·0
1. 35	12. 0	1. 15	·1070	1. 3	·01651	9. 40	53·0	55·0
1. 48	9. 35	1. 27	·1074	1. 17	·01645	23. 15	49·5	52·0
2. 10	12. 15	1. 41	·1064	1. 45	·01632			
2. 39	11. 0		***	1. 53	·01640			
2. 53	11. 35	2. 10	·1069	2. 15	·01642			
3. 40	8. 0	2. 40	·1054	2. 45	·01639			
4. 0	11. 15		***	3. 27	·01604			
	***	3. 17	·1066	3. 58	·01541			
6. 50	5. 25	3. 30	·1063	4. 36	·01432			
	***	4. 0	·1072	5. 16	·01331			
7. 55	22. 3. 35	4. 29	·1060	6. 19	·01219			
8. 57	21. 51. 0		***	7. 10	·01164			
9. 35	22. 1. 30	5. 20	·1063	8. 30	·01101			
10. 2	22. 3. 0	5. 35	·1071	9. 21	·01079			
10. 44	21. 59. 25	6. 15	·1058	10. 38	·01019			
11. 8	22. 1. 35		***	11. 15	·01014			
11. 22	0. 30	6. 45	·1076	11. 47	·01005			
11. 44	22. 2. 30	7. 8	·1063	12. 16	·01006			
12. 31	21. 48. 0	7. 22	·1064	12. 21	·01012			
12. 45	55. 30		***	12. 32	·01051			
13. 4	59. 40	8. 10	·1056	13. 12	·00971			
13. 20	54. 30		***	13. 51	·00988			
13. 36	58. 45	9. 21	·1061	14. 47	·01014			
13. 55	56. 35	9. 45	·1067	15. 45	·01049			
	***	10. 50:	·1068	16. 16	·01052			
14. 54	58. 40	11. 19	·1060	17. 7	·01081			
	***	11. 40:	·1067	18. 23	·01164			
15. 30	55. 45	11. 55	·1059	20. 43	·01297			
15. 42	59. 0	12. 5	·1070	22. 42	·01324			
	***		***	23. 0	·01348			
16. 13	55. 0	12. 35	·1053	23. 27	·01325			
	***	12. 42	·1116					
16. 44	58. 0	13. 15	·1069					
16. 58	21. 57. 0	13. 28	·1072					
	***	13. 46	·1060					
18. 39	22. 3. 10	14. 8	·1068					
	***	14. 16	·1064					
20. 28	21. 56. 15	14. 33	·1070					
	***	14. 47	·1068					
21. 33	22. 6. 0	15. 23	·1076					
21. 53	5. 45		***					
22. 38	11. 40	16. 15	·1066					
23. 17	13. 0		***					
23. 52	10. 35	16. 45	·1069					
	***	17. 9	·1052					
		17. 43	·1065					
		18. 15:	·1055					
		19. 0	·1067					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Mar.25 h m		h m		h m	°	°
		21. 6	·1058					
		21. 40	·1041					
		21. 46	·1043					
		22. 0	·1039					
		22. 10	·1045					
		22. 35	·1038					
		22. 55	·1048					
		23. 4	·1046					
		23. 23	·1051					
		23. 35	·1056					
		23. 53	·1055					
		23. 59	·1060					
Mar.26		Mar.26		Mar.26		Mar.26		
0. 12	22. 12. 25	0. 0	·1061	0. 22	·01349	9. 13	53·0	56·2
0. 18	10. 30		***	0. 28	·01368	21. 40	48·3	52·5
	***	0. 14	·1059		***			
1. 2	14. 45	0. 20	·1048	1. 52	·01389			
1. 13	12. 30	0. 35	·1052	3. 3	·01362			
1. 20	13. 0	0. 46	·1041	3. 23	·01352			
1. 31	10. 30	1. 22	·1061	3. 37	·01329			
1. 37	15. 25	1. 30	·1056	3. 47	·01331			
1. 41	12. 30	2. 36	·1055	4. 42	·01261			
	***	2. 48	·1050	5. 28	·01197			
2. 56	10. 15	3. 5	·1051	6. 34	·01132			
3. 8	11. 30	3. 28	·1064	7. 36	·01086			
	***	3. 38	·1053	8. 20	·01059			
4. 20	7. 30	3. 50	·1060	8. 27	·01064			
	***	4. 13	·1054	8. 28	·01058			
5. 1	8. 25	4. 30	·1061	8. 43	·01065			
5. 10	5. 0	4. 37	·1058	9. 13	·01024			
5. 37	1. 35	4. 45	·1067	9. 52	·01011			
6. 7	0. 30	5. 0	·1064	10. 35	·00985			
7. 20	3. 20	5. 29	·1045	11. 15	·00974			
7. 38	1. 0	5. 52	·1060	12. 12	·00976			
7. 53	22. 2. 0	6. 2	·1055	12. 23	·01971			
8. 28	21. 34. 15	6. 30	·1063	13. 58	·01049			
	***		***	16. 15	·01193			
9. 31	54. 15	7. 0	·1064	18. 14	·01333			
9. 50	49. 30	7. 10	·1058	20. 8:	·01497			
10. 16	52. 40	7. 23:	·1060	21. 28	·01521			
10. 41	52. 25	7. 45	·1058	22. 13	·01486			
11. 0	57. 0	8. 0	·1064	23. 17	·01497			
11. 24	56. 0	8. 21	·1048					
12. 4	58. 30	8. 44	·1090					
12. 33	51. 25	9. 3	·1086					
12. 44	54. 30	9. 40	·1051					
	***	10. 11	·1066					
13. 22	21. 59. 0	10. 43	·1058					
13. 37	22. 2. 50	11. 14	·1066					
	***	11. 16	·1063.					
14. 35	0. 0	11. 30	·1073					
14. 49	3. 0	11. 55	·1066					
15. 42	5. 0	12. 4	·1070					
	***	12. 53	·1044					
17. 9	1. 30		***					
	***	14. 35	·1063					
17. 49	3. 30		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.26		Mar.26						
h m	° ′ ″	h m		h m		h m	°	°
18. 3	22. 2. 15	15. 28	·1062					
18. 26	3. 20	17. 0	·1063					
	***	18. 0:	·1068					
20. 31	0. 45	19. 30:	·1056					
21. 30	1. 0	21. 0:	·1062					
	***	23. 24	·1051					
23. 48	8. 30	23. 45	·1044					
		23. 50	·1048					
		23. 59	·1044					
Mar.27		Mar.27		Mar.27		Mar.27		
0. 8	22. 6. 15	0. 6	·1043	1. 30	·01465	1. 40	52 ·5	54 ·5
1. 0	10. 30	0. 55	·1056	1. 53	·01443	3. 40	53 ·7	55 ·5
1. 10	9. 50		***	2. 22	·01416	9. 40	56 ·3	58 ·0
1. 52	13. 25	1. 24	·1046	2. 28	·01413	21. 40	49 ·0	53 ·0
2. 3	11. 35		***	2. 59	·01354			
	***	2. 20	·1023	3. 6	·01358			
2. 42	14. 0		***	3. 30	·01369			
	***	2. 35	·1030	4. 28	{·01138			
2. 57	11. 0	2. 57	·1002		{·01165			
3. 10	14. 0	3. 15	·1009	5. 38	·01155			
3. 40	4. 30	3. 29	·0994	6. 40	·01106			
4. 20	6. 35		***	7. 28	·01148			
6. 8	4. 0	3. 45	·1003	8. 23	·01140			
	***		***	9. 27	·01156			
11. 52	22. 1. 45	4. 4	·0998	9. 45	·01163			
12. 9	21. 58. 30	4. 23:	·1014	10. 11	·01172			
12. 22	59. 0	4. 53	·1010	11. 52	·01271			
12. 37	55. 0	5. 23	·1016	12. 35	·01376			
	***	5. 30	·1012	13. 45	·01406			
13. 33	52. 50	5. 39	·1020	14. 27	·01466			
13. 47	55. 25	5. 53	·1018	15. 48	·01624			
14. 8	51. 35	6. 10	·1024	16. 12	·01635			
	***	6. 21	·1017	17. 20	·01698			
14. 39	52. 40		***	17. 52	·01759			
15. 14	49. 30	7. 15	·1012	18. 6	·01804			
	***	7. 25	·1021	18. 57	·01873			
15. 55	57. 0		***	19. 20	·01906			
16. 14	52. 10	8. 0	·1015	20. 14	·01865			
16. 44	58. 40		***	20. 53	·01887			
17. 11	53. 0	9. 19	·1015	21. 51	·01875			
	***	9. 24	·1021	22. 27	·01866			
18. 2	21. 58. 50	9. 37	·1013		***			
18. 13	22. 1. 35	10. 5	·1021	23. 18	·01912			
	***	10. 10	·1012	23. 59	·01907			
19. 10	22. 1. 30	11. 23	·1014					
	***	11. 35	·1007					
19. 45	21. 56. 30	11. 46	·1013					
20. 44	21. 58. 0	12. 3	·1006					
	***	12. 30	·1012					
21. 0	22. 6. 0	12. 50	·1000					
	***		***					
21. 26	12. 30	13. 23	·0992					
	***	13. 41	·1001					
22. 8	8. 30	13. 50	·0995					
	***	14. 0	·0998					
22. 48	14. 0	14. 15	·1003					
	***	14. 25	·0995					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Mar.27		Mar.27						
h m	° ′ ″	h m		h m		h m	°	°
23. 1	22. 10. 35	15. 0	·1007					
	***	15. 24	·1000					
23. 8	13. 30	15. 51	·1005					
	***	16. 7	·1016					
23. 21	9. 30	17. 23:	·1008					
	***	17. 45	·0993					
23. 37	13. 35	18. 8	·1010					
	***	18. 25	·1011					
23. 46	12. 0	18. 30	·1006					
	***	19. 9	·1016					
23. 59	14. 30	19. 45:	·0993					
	***	20. 40	·0952					
		20. 50	·0974					
		21. 40	·0952					
		21. 55	·0956					
		22. 14	·0940					
		22. 21	·0954					
		22. 27	·0947					
		22. 33	·0950					
		22. 45	·0940					
		23. 15	·0941					
		23. 56	·0982					
		23. 59	·0980					
Mar.28		Mar.28		Mar.28		Mar.28		
0. 12	22. 15. 0	0. 0	·0980	1. 19	·01806	1. 40	52 ·8	54 ·7
	***		***	1. 42	·01870	3. 40	55 ·5	57 ·0
1. 14	19. 0	0. 23	·0983	1. 56	·01921	9. 40	59 ·0	61 ·5
1. 22	16. 30		***	2. 9	·01923	21. 40	50 ·0	53 ·0
1. 33	17. 40	0. 45	·0970	2. 19	·01872			
1. 39	16. 0		***	2. 41	·01814			
1. 45	18. 0	1. 5	·0972	3. 30	·01763			
2. 0	10. 25	1. 9	·0982	3. 52	·01707			
2. 4	11. 35	1. 15	·0976	3. 59	·01783			
2. 8	9. 0	1. 24	·0993	4. 2	·01765			
2. 40	16. 35	1. 35	·0980	4. 7	·01779			
2. 45	14. 50	1. 40	·0992	4. 13	·01702			
2. 55	16. 30	1. 48	·0972	4. 19	·01708			
	***	2. 2	·0998	4. 28	·01648			
3. 35	10. 15	2. 6	·0991	4. 32	·01650			
3. 55	22. 13. 0	2. 14	·0994	4. 46	·01572			
4. 12	21. 58. 30	2. 30	·0972	4. 52	·01608			
4. 17	22. 4. 0	2. 36	·0980	5. 12	·01498			
4. 25	21. 56. 30	2. 40	·0975	5. 28	·01712			
4. 46	22. 9. 25	2. 55	·0992	5. 48	·01501			
4. 58	21. 56. 0	3. 20	·0979	6. 5	·01411			
5. 7	22. 3. 45	3. 26	·0990	6. 21	·01415			
5. 12	2. 40	3. 32	·0986	6. 44	·01435			
5. 17	22. 4. 30	3. 40	·0990	6. 59	·01461			
5. 26	21. 38. 30		***	7. 31	·01387			
5. 30	49. 30	3. 50	·0987	7. 53	·01312			
5. 35	47. 30	3. 57	·1022	8. 6	·01307			
5. 48	55. 15	4. 12	·0996	8. 15	·01287			
5. 58	53. 0	4. 15	·1008	8. 44	·01283			
	***	4. 25	·0986	9. 25	·01271			
6. 24	21. 59. 0	4. 30	·0998	9. 55	·01211			
	***	4. 40	·0998	10. 14	·01181			
6. 35	22. 4. 30	4. 52	·0998	10. 25	·01196			

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		Mar.28				
h m	° ′ ″	h m		h m		h m	°	°
6.45	21.59. 0	4.56	·0992	10.36	·01175			
6.53	22. 0.15	5. 1	·1005	10.45	·01212			
7.25	21.31.30	5. 5	·1002	10.52	·01207			
7.45	58. 0	5.14	·0986	11.10	·01224			
8. 2	21.44.30	5.20	·0990	11.29	·01213			
8. 7	22. 0. 0	5.29	·0980	12.18	·01234			
8.21	21.54. 3	5.31	·1010	13. 0	·01253			
8.27	56. 0	5.35	·1004	13.29	·01261			
8.30	55.10	5.45	·1018	13.55	·01278			
8.39	59.45	5.55	·0992	14.35	·01329			
8.47	21.58.20	6. 9	·0983	15.17	·01421			
9. 0	22. 2.25		***	15.48	·01463			
9.18	22. 1.45	6.34	·0991	17.13	·01705			
9.36	21.55.35		***	18.21	·01916			
9.48	22. 3. 0	6.46	·0979	18.49	·02050			
10. 8	21.47.20	6.53	·0983	19. 5	·02054			
10.23	22. 0. 0	6.56	·0989	21. 7	·02044			
10.37	21.52.30	7. 2	·0963	22.48	·01973			
10.49	22. 0. 0	7.13	·0966	23.30	·01938			
11. 0	21.54.30	7.15	·0962	23.59	·01914			
11.16	59.30	7.32	·1019					
11.37	52. 0	7.53	·0956					
12. 1	47.50	8. 5	·0986					
12.37	50. 0	8.15	·0953					
13. 1	55.10	8.20	·0948					
13.32	50.45		***					
14. 0	21.51.30	8.36	·0958					
14.53	22. 3.25	8.45	·0953					
15. 6	3.40	9.13	·0970					
15.24	11. 0	9.30	·0970					
15.59	4. 0	9.47	·1018					
16.28	22. 0.30	10. 6	·0976					
17.32	21.58.40	10.24	·1000					
18.42	22. 0.35	10.36	·0969					
19.24	21.58. 0	10.45	·0986					
22.24	22. 2.35	10.57	·0965					
23.59	8.20	11. 4	·0972					
			***					
		11.55	·0970					
		12. 7	·0978					
		13. 0	·0967					
		13.24	·0985					
		13.45	·0987					
		14.30	·0972					
		14.55:	·0986					
		15.30:	·0982					
		16.19	·0999					
		17.53	·1004					
			***					
		18.53	·0992					
			***					
		20.16	·0998					
		22.28	·0987					
		22.50	·0990					
		23.10	·0988					
		23.23	·0992					
		23.50	·0987					
		23.59	·0989					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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.29		Mar.29		Mar.29		Mar.29		
h m	° ′ ″	h m		h m		h m	°	°
0.18	22. 8.40	0. 0	·0989	0.30	·01886	1.40	53·0	55·5
2.20	12.25	0.15	·0988	0.43	·01878	3.40	57·0	58·0
2.44	6.30		***	1.50	·01747	9.40	61·0	62·3
	***	2.20	·0993	2.20	·01691	21.40	51·5	54·0
3.22	8. 0	2.35	·0984	2.25	·01642			
3.36	11.25	3. 8	·1002	2.50	·01573			
	***	3.17	·0992	3.20	·01485			
4.47	22. 7. 0		***	3.38	·01405			
4.59	21.49. 0	3.37	·0999	3.48	·01306			
5.12	22. 0.15	3.44	·0995	5. 5	·01302			
5.18	21.59. 0	4.18	·0991	5.14	·01335			
5.44	22. 4.15	4.35	·0995	5.28	·01319			
7. 5	4.30		***	5.41	·01307			
8. 7	22. 2.45	4.59	·0974	6. 6	·01296			
8.50	21.59.15	5.15	·1030	7. 2	·01336			
9.13	22. 2. 0	5.28	·1009	9.25	·01419			
9.51	21.59. 0	5.35	·1010	9.47	·01448			
10.13	22. 2.15	5.43	·1003	10.18	·01476			
10.24	10. 0	5.55	·1002	10.31	·01455			
10.52	22. 3. 0	6. 0	·0994	11.20	·01483			
11. 7	21.56.40	6.45	·0981	11.58	·01524			
11.26	22. 0. 0	7.35	·0991	12.15	·01541			
11.40	21.59. 0	8.25:	·0983	13.24	·01625			
11.55	22. 0. 0	9. 5	·0994	14.46	·01752			
12.22	21.58. 0	9.17	·0988	15.37	·01884			
12.45	22. 2. 0	10. 0	·0992	16.45	·02115			
13. 0	22. 2. 0	10.14	·0991	18.49	·02065			
13.15	21.59.40	10.20	·1003	20. 5	·02100			
13.51	22. 7. 0		***	20.10	·02089			
15.20	0. 0	11. 6	·0986	20.17	·02097			
16.51	1. 0	11.29	·1001	21.40	·02062			
17.45	5.30	11.40	·0996	22.42	·02014			
18.58	0.30	11.56	·0998	23.32	·01953			
21.50	0.45	12.10	·0994	23.59	·01931			
23.20	4.30		***					
23.59	8. 0	13.23	·0999					
		13.55	·0994					
		14.35	·1004					
		15.43	·1002					
		16.35:	·1012					
		17.28:	·1001					
		18.15	·1015					
		18.36	·1010					
		19.45:	·1013					
			***					
		21.43	·0998					
		23.11	·0996					
		23.30	·0991					
		23.59	·0993					
Mar.30		Mar.30		Mar.30		Mar.30		
0.10	22. 8.15	0. 0	·0993	0.13	·01909	1.40	54·0	56·5
1.40	10.20		***	1.25	·01896	3.40	55·5	57·8
2.38	8.15	0.40	·0996	2. 2	·01863	9.40	58·5	60·0
3. 5	10.15	1. 0	·0994	2.33	·01835	21.40	49·2	53·0
	***		***	3. 5	·01827			
4.34	8.50	2.26	·1000	4.11	·01693			
5. 7	5.30	3. 3	·1014	4.30	·01635			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Mar.30		Mar.30		Mar.30				
h m	° ′ ″	h m		h m		h m	°	°
7. 12	22. 2. 30	3. 25	·1008	6. 17	·01434			
7. 35	21. 48. 40		***	7. 7	·01376			
8. 21	53. 20	4. 9	·1017	7. 25	·01358			
8. 34	57. 0		***	8. 40	·01213			
8. 49	21. 55. 0	4. 29	·1002	9. 38	·01157			
9. 38	22. 1. 30	4. 45	·1008	10. 52	·01129			
11. 2:	21. 57. 30	4. 52	·1003	11. 47	·01143			
12. 0:	22. 3. 25	4. 58	·1006	12. 30	·01139			
12. 37:	21. 58. 35	5. 5	·1003	12. 57	·01187			
13. 5	22. 2. 0	5. 30	·1014	16. 12	·01414			
13. 38	21. 57. 0	6. 5	·1012	16. 52	·01494			
14. 5	58. 30		***	18. 42	·01692			
	***	6. 30	·1014	19. 32	·01852			
15. 24	55. 0	7. 9	·1006	19. 48	·01887			
	***	7. 24	·0994	20. 5	·01927			
15. 50	56. 45	7. 43	·1021	20. 14	·01937			
	***	8. 25	·1005	20. 23	·01935			
16. 18	21. 54. 0	8. 45	·0989	20. 40	·01977			
	***	9. 45	·0996	20. 54	·02015			
16. 50	22. 0. 45	10. 15	·1006	21. 15	·02050			
	***	11. 0	·0995	21. 52	·02036			
17. 32	21. 59. 0	11. 53	·1002	22. 10	·02039			
	***	12. 20	·1004	22. 39	·02028			
18. 21	22. 4. 0	12. 45	·1002	22. 56	·02019			
	***	12. 55	·1020	23. 12	·02018			
19. 15	1. 30	13. 9	·1012	23. 59	·02085			
	***	13. 20	·1016					
19. 46	22. 3. 0	13. 39	·1004					
19. 55	21. 58. 0	14. 0	·1013					
20. 4	22. 4. 35	14. 10	·1012					
	***	14. 30	·1021					
20. 22	21. 59. 10	14. 45	·1020					
20. 30	22. 4. 35	15. 0	·1026					
20. 46	1. 0		***					
	***	16. 40	·1018					
21. 21	7. 0	16. 50	·1026					
	***	17. 0	·1024					
22. 7	8. 30	17. 15	·1030					
	***		***					
22. 36	6. 0	17. 33	·1026					
	***	17. 45	·1020					
23. 23	6. 0	18. 15	·1028					
23. 30	9. 30	18. 36:	·1024					
	***		***					
23. 59	12. 0	19. 23	·1033					
	***		***					
		19. 45	·1027					
		19. 53	·1021					
		20. 0	·1028					
		20. 18	·1022					
		20. 21	·1014					
		20. 30	·1021					
		20. 51	·0992					
		21. 15	·1009					
			***					
		22. 11	·1001					
		23. 0	·1000					
		23. 23	·0996					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
		Mar.30						
h m	° ′ ″	h m		h m		h m	°	°
		23. 27	·0995					
		23. 35	·0966					
		23. 59	·0984					
Mar.31		Mar.31		Mar.31		Mar.31		
0. 33	22. 11. 0	0. 0	·0985	0. 45	·02025	1. 40	52 ·3	55 ·0
	***	0. 15	·0986	1. 21	·01974	3. 40	57 ·5	58 ·5
1. 10	9. 0	0. 23	·0992	2. 12	·01920	9. 40	62 ·5	63 ·0
	***	1. 15	·0998	3. 0	·01827	21. 40	50 ·0	53 ·0
1. 15	10. 30	1. 36	·0990	3. 43	·01675			
	***	2. 30	·0997	4. 46	·01420			
2. 37	8. 45	2. 53	·0994	5. 43	·01231			
5. 10	0. 0		***	6. 1	·01247			
9. 7	22. 1. 10	3. 30	·1004	6. 35	·01241			
9. 35	21. 58. 0		***	7. 16	·01289			
10. 25	22. 0. 0	4. 51	·0994	7. 58	·01338			
12. 2	2. 0	5. 30	·1002	8. 17	·01342			
12. 48	1. 0	5. 55	·0999	8. 52	·01350			
	***	6. 21	·1003	10. 14	·01422			
13. 53	5. 45	6. 37	·0997	11. 30	·01499			
14. 53	2. 10	7. 10	·1001	12. 13	·01543			
	***	7. 30	·0998	12. 58	·01579			
15. 45	2. 30	7. 45	·1002	13. 50	·01677			
	***	8. 15	·0998	14. 37	·01743			
16. 54	22. 0. 0	9. 0	·1000	15. 43	·01935			
	***	9. 20	·0997	16. 44	·02114			
20. 59	21. 58. 10	9. 40	·1002	17. 52	·02106			
22. 1	21. 59. 0	10. 24	·0998	19. 33	·02139			
23. 59	22. 6. 30		***	21. 0	·02119			
		11. 35	·1006		***			
		11. 55:	·1002	22. 59	·01977			
		12. 15	·1006	23. 38	·01935			
		12. 25	·1002	23. 59	·01905			
			***					
		13. 25	·1000					
		13. 39	·1010					
		13. 47	·1005					
		15. 18	·1002					
			***					
		17. 45	·1012					
		18. 15	·1020					
			***					
		19. 0	·1022					
		22. 51	·0999					
		23. 45	·1000					
		23. 47	·0994					
		23. 59	·0998					
April 1		April 1		April 1		Apr. 1		
0. 7	22. 6. 0	0. 0	·0999	1. 12	·01844	1. 40	54 ·0	56 ·5
2. 8	10. 0	0. 14	·0992	1. 34	·01775	3. 40	58 ·7	62 ·2
5. 54	22. 2. 10	1. 5	·0998	2. 20	·01639	9. 40	64 ·0	65 ·0
6. 22	21. 58. 45		***	3. 49	·01261	23. 19	56 ·0	57 ·7
6. 42	22. 0. 15	2. 15	·1000	4. 47	·01320			
6. 55	21. 55. 15	2. 51	·0989	6. 5	·01304			
7. 32	21. 59. 15	3. 44	·0993	6. 12	·01287			
8. 44	22. 2. 20	4. 15	·1042	6. 20	·01304			
9. 30	22. 2. 15		***	6. 47	·01317			

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.
April 1		April 1		April 1		h m	°	°
h m	° ′ ″	h m		h m				
10. 6	21. 57. 10	4. 46	·1049	7. 0	·01300			
10. 28	59. 15	5. 40	·1050	7. 16	·01319			
11. 18	21. 58. 0		***	8. 6	·01335			
11. 45	22. 1. 35	6. 15	·1043	9. 24	·01330			
12. 2	22. 0. 0	6. 45:	·1045	9. 45	·01355			
13. 4	21. 58. 0	7. 0	·1040	10. 9	·01335			
13. 23	21. 59. 35	7. 20	·1049	10. 42	·01374			
13. 33	21. 58. 50	7. 44	·1040	11. 44	·01405			
13. 58	22. 4. 30		***	12. 35	·01446			
14. 37	21. 59. 0	8. 13	·1044	13. 30	·01493			
15. 7	22. 2. 0	8. 26	·1040	13. 58	·01536			
15. 15	0. 45	9. 45	·1041	14. 50	·01574			
15. 51	22. 4. 10	10. 15	·1051	15. 52	·01692			
	***	10. 33	·1038	16. 16	·01737			
20. 51	21. 58. 35	10. 55	·1059	18. 16	·02026			
21. 47	21. 59. 0		***		(†)			
22. 54	22. 1. 40	12. 0	·1040	19. 57	·02139			
23. 40	5. 40	12. 10	·1043	23. 51	·02098			
		13. 13	·1043					
			***					
		13. 47	·1038					
			***					
		14. 15	·1052					
			***					
		14. 45	·1041					
		16. 0	·1040					
		16. 20	·1047					
		17. 0	·1049					
		18. 0	·1056					
		18. 32	·1054					
		19. 6	·1058					
		20. 30	·1059					
		20. 45	·1054					
		21. 8	·1055					
		21. 25	·1049					
		23. 6	·1038					
		23. 45	·1038					
		23. 53	·1033					
April 2		April 2		April 2		April 2		
0. 9	22. 6. 0	0. 15	·1024	0. 0	·02076	10. 17	63 ·5	66 ·5
0. 17	8. 30		***		***	21. 40	54 ·5	57 ·0
0. 25	6. 0	1. 40	·1024	2. 15	·01978			
	***		***	3. 12	·01858			
2. 13	11. 0	2. 14	·1034	3. 33	·01788			
	***		***	5. 24	·01430			
4. 53	4. 35	2. 40	·1027	6. 47	·01241			
5. 21	0. 25		***	7. 9	·01242			
6. 13	2. 30	4. 2	·1038	8. 12	·01285			
	***	4. 15	·1032	10. 13	·01301			
9. 18	22. 1. 0	4. 30	·1032	11. 30	·01342			
9. 37	21. 59. 0	4. 38	·1038	12. 50	·01406			
9. 52	21. 55. 10	4. 46	·1034	14. 59	·01649			
10. 20	22. 0. 30	5. 5	·1034	18. 0	·02134			
11. 33	1. 0	5. 27	·1024		(†)			
	***		***	20. 26	·02126			
13. 7	3. 0	6. 8	·1042	21. 5	·02138			
13. 50	1. 25	6. 40	·1038	23. 53	·02055			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
April 2		April 2		h m		April 3		
h m	° ′ ″	h m				h m	°	°
14. 56	22. 2. 25	6. 53	·1040			1. 40	57 ·5	59 ·5
15. 30	1. 0		***			3. 40	60 ·0	62 ·0
16. 15	2. 40	7. 19	·1032			9. 40	61 ·0	63 ·0
	***		***			21. 40	49 ·0	51 ·7
19. 22	22. 0. 30	8. 45	·1038					
	***	8. 59	·1042					
19. 35	21. 58. 0		***					
	***	9. 9	·1037					
20. 17	21. 59. 10		***					
20. 26	22. 4. 10	9. 55	·1041					
20. 48	5. 0		***					
20. 57	7. 30	10. 35	·1037					
	***	11. 30	·1038					
21. 23	5. 30	12. 10	·1036					
21. 44	2. 35		***					
22. 25	1. 30	14. 45	·1043					
23. 59	6. 0	15. 0	·1051					
		15. 6	·1046					
			***					
		17. 34	·1052					
			***					
		19. 45	·1060					
		20. 9	·1044					
		20. 46	·1032					
		21. 32	·1052					
		23. 25	·1040					
		23. 59	·1039					
April 3		April 3		April 3		April 3		
0. 7	22. 6. 15	0. 0	·1038			1. 36	·02048	
1. 6	7. 10	0. 15	·1041			3. 11	·01959	
1. 35	9. 30	0. 30	·1030				***	
	***	1. 0	·1028			4. 10	·01683	
2. 4	8. 45	1. 30	·1030			4. 35	·01574	
2. 49	10. 35		***			5. 4	·01513	
3. 21	9. 15	2. 29	·1026			5. 50	·01444	
3. 35	10. 30	2. 50	·1038			7. 15	·01515	
	***		***			8. 38	·01549	
4. 14	5. 30	3. 30	·1030			9. 20	·01539	
4. 37	8. 0	3. 44	·1017			11. 2	·01635	
4. 52	5. 30		***			12. 41	·01832	
5. 35	22. 5. 25	3. 48	·1024			14. 33	{ ·01938	
7. 1	21. 59. 10	3. 52	·1018				{ ·01927	
7. 27	22. 0. 0	3. 56	·1026			15. 52	·02118	
7. 55	21. 57. 20	4. 2	·1018			17. 10	·02092	
8. 5	21. 54. 0	4. 5	·1024			18. 59	·02107	
8. 42	22. 0. 30	4. 10	·1015			21. 35	·02052	
9. 10	0. 50		***			23. 57	·01959	
9. 28	0. 0	4. 25	·1012					
10. 21	22. 2. 40	4. 38	·1022					
11. 5	21. 59. 30	4. 40	·1018					
11. 55	22. 2. 0		***					
12. 13	1. 0	5. 18	·1036					
13. 34	2. 15		***					
14. 8	5. 45	5. 40	·1032					
	***		***					
16. 6	1. 0	6. 30	·1041					
	***	6. 50	·1036					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
April 3		April 3						
h m	° ′ ″	h m		h m		h m	°	°
16. 42	22. 2. 45	7. 15:	·1041					
	***	7. 35	·1032					
17. 31	1. 40	7. 55	·1032					
	***	8. 7	·1050					
18. 55	3. 0	8. 25	·1045					
20. 18	0. 0	8. 31	·1047					
22. 31	1. 0	9. 15	·1038					
23. 59	5. 30	10. 30	·1041					
		10. 50	·1047					
		11. 13	·1042					
		11. 45	·1052					
		12. 16	·1046					
			***					
		14. 30	·1054					
		14. 50	·1052					
			***					
		17. 14	·1053					
		19. 0	·1062					
			***					
		23. 59	·1034					
April 4		April 4		April 4		April 4		
0. 13	22. 6. 0	0. 0	·1036	0. 46	·01935	1. 40	54 ·5	55 ·5
1. 22	10. 0	0. 23	·1032	2. 19	·01813	3. 40	58 ·2	59 ·5
2. 28	9. 15		***	3. 40	·01574	9. 40	61 ·0	63 ·0
4. 35	4. 30	2. 0	·1032	5. 1	·01218	21. 40	53 ·2	55 ·2
6. 36	22. 1. 0	5. 40	·1043	6. 11	·01126			
8. 0	21. 59. 20	6. 10	·1048	7. 15	·01168			
8. 43	22. 2. 0	6. 16	·1044	8. 7	·01205			
13. 1	2. 35	6. 54	·1043	8. 51	·01216			
13. 8	4. 15	7. 17	·1034	9. 44	·01218			
14. 2	1. 0	8. 4	·1032	10. 50	·01261			
14. 22	2. 0	8. 46	·1043	11. 45	·01301			
14. 45	0. 30	9. 15	·1036	12. 50	·01372			
15. 10	2. 10		***	13. 32	·01425			
16. 0	1. 25	10. 29	·1042	14. 35	·01522			
17. 53	22. 3. 30	10. 52	·1038	15. 48	·01695			
20. 10	21. 59. 25	11. 30	·1046	16. 50	·01872			
21. 50	22. 0. 30	12. 27	·1043	18. 25	·02167			
23. 32	5. 10	13. 24	·1054		(†)			
23. 36	4. 0	14. 8:	·1047	21. 40	·02204*			
		15. 55	·1052					
		16. 48	·1048					
		17. 20	·1052					
		19. 30	·1053					
		20. 35	·1052					
		23. 50	·1032					
		23. 59	·1033					
April 5		April 5		April 5		April 5		
0. 0	22. 4. 30	0. 0	·1033	0. 38	·02032	1. 40	55 ·0	57 ·0
0. 43	8. 30	0. 35	·1036	1. 31	·01901	3. 40	58 ·0	60 ·0
	***	0. 45	·1041	2. 28	·01774	9. 40	63 ·0	65 ·5
1. 49	12. 25	1. 0	·1034	3. 58	·01485	21. 40	51 ·2	56 ·0
4. 3	5. 30	1. 15	·1035	5. 8	·01331			
5. 29	4. 30		***		***			
6. 14	2. 0	1. 46	·1033	6. 56	·01275			
6. 26	22. 3. 0	2. 10	·1024	7. 12	·01279			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
April 5		April 5		April 5				
h m	° ′ ″	h m		h m		h m	°	°
7. 5	21. 54. 15	3. 30	·1024	7. 36	·01339			
7. 30	21. 42. 0	4. 45:	·1044	8. 55	·01281			
7. 53	22. 0. 45		***	10. 50	·01335			
8. 25	21. 58. 45	6. 16	·1028	11. 45	·01358			
8. 48	22. 1. 30	6. 40	·1036	12. 30	·01379			
9. 52	2. 45	7. 4	·1028	13. 14	·01408			
11. 58	0. 15	7. 18	·1017	14. 41	·01615			
12. 35	3. 0	7. 38	·1065	16. 10	·01843			
13. 9	0. 55	8. 0	·1032	18. 12	·02136			
13. 40	3. 35	8. 45	·1040		(†)			
14. 30	2. 15	9. 22	·1037	21. 40	·02187*			
14. 50:	5. 20	9. 49	·1040	22. 25	·02098			
15. 28	1. 30	10. 4	·1033	23. 53	·01995			
16. 49	22. 2. 30	10. 49	·1040					
20. 48	21. 59. 35	11. 30:	·1040					
22. 2	22. 1. 30	12. 6	·1049					
23. 59	7. 20	12. 17	·1046					
		12. 30	·1052					
		13. 14	·1044					
			***					
		17. 40	·1056					
		20. 0	·1048					
		22. 20	·1051					
		23. 47	·1038					
		23. 59	·1041					
April 6		April 6		April 6		April 6		
0. 32	22. 8. 0	0. 0	·1041	1. 5	·01900	1. 40	56 ·0	58 ·5
1. 45:	10. 35	0. 10	·1043	3. 23:	·01670	3. 40	59 ·0	63 ·5
3. 35	6. 0	1. 30	·1044	5. 5	·01320	9. 40	64 ·5	67 ·0
7. 24	2. 0	2. 52	·1044	5. 27	·01280	21. 40	54 ·5	56 ·5
9. 13	22. 2. 0	3. 38:	·1034	7. 5	·01292			
9. 37	21. 56. 30	4. 35	·1041	8. 7:	·01373			
10. 0	22. 0. 0	7. 5	·1042	9. 28	·01390			
10. 45	21. 54. 30		***	12. 45	·01505			
11. 8	22. 2. 30	10. 14	·1038	15. 38:	·01715			
11. 29	22. 0. 0	10. 36	·1056	18. 7	·02135			
13. 8	21. 58. 30	11. 15	·1042		(†)			
	***	11. 20	·1044	21. 40	·02146*			
14. 13	22. 3. 30	11. 34	·1040	22. 17	·02038			
15. 7	21. 57. 45	12. 25	·1051	23. 59	·01910			
16. 11	22. 0. 30	13. 25	·1036					
19. 32	2. 0	14. 0	·1044					
20. 20	8. 0	14. 15	·1043					
21. 16	0. 50	14. 35	·1049					
22. 13	0. 30	15. 45:	·1042					
23. 59	6. 0	18. 0	·1051					
		19. 10	·1052					
		19. 30	·1049					
		20. 10	·1049					
		20. 30	·1062					
		21. 15	·1054					
		22. 0	·1056					
		22. 45	·1048					
		23. 0	·1051					
		23. 15	·1056					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
April 7		April 7		April 7		April 7		
h m	° ′ ″	h m		h m		h m	°	°
0. 50	22. 7. 30	0. 55	·1046	1. 5	·01830	1. 40	57 ·0	58 ·5
1. 55	8. 0	1. 8	·1042	3. 0:	·01660	3. 40	59 ·0	63 ·0
5. 27	2. 15	2. 26	·1044	4. 4	·01342	9. 40	64 ·0	65 ·0
12. 23	3. 0		***	5. 45:	·01252	21. 40	55 ·5	58 ·0
12. 52	4. 15	3. 25	·1049	6. 47	·01248			
13. 17	2. 35	12. 36	·1047	10. 0:	·01260			
	***		***	12. 50	·01400			
16. 20	2. 25	15. 43	·1052	15. 3:	·01580			
16. 55:	8. 20	16. 20:	·1049	17. 13	·01818			
17. 36	2. 20	16. 45:	·1044	19. 36	·01989			
18. 45	4. 15	17. 19	·1063	21. 25	·01975			
	***	17. 40	·1062	23. 59	·01348			
20. 24	1. 30	18. 10:	·1056					
	***	18. 55	·1060					
21. 22	1. 0	19. 17	·1056					
23. 12	5. 30	19. 46	·1059					
23. 50	5. 45		***					
23. 59	6. 30	21. 5	·1044					
		21. 40	·1043					
		22. 14	·1036					
		22. 23	·1037					
		23. 16	·1026					
		23. 59	·1028					
April 8		April 8		April 8		April 8		
0. 7	22. 7. 30	0. 0	·1028	0. 27	·01860	1. 40	59 ·0	62 ·0
0. 52	9. 25	0. 10	·1031	3. 52	·01480	3. 40	63 ·0	65 ·5
6. 17	1. 0	0. 55	·1035	4. 47	{·01307	9. 40	66 ·0	68 ·0
12. 6	2. 50	1. 9	·1026		{·01333	22. 58	56 ·0	58 ·4
12. 35	1. 0	1. 35	·1025	6. 28:	·01300			
12. 55	1. 35	2. 15	·1035	8. 0	·01342			
13. 18	0. 30		***	9. 32	·01390			
13. 38	2. 0	3. 39	·1031	10. 10	·01420			
14. 0	1. 20	5. 15	·1040	11. 58	·01557			
14. 43	4. 45	6. 8	·1040	14. 35:	·01782			
15. 17	2. 0	8. 20	·1034	16. 48	·02120			
18. 17	22. 2. 30	8. 55	·1039		(†)			
20. 53	21. 58. 0	12. 5	·1035	22. 58	·02146			
23. 1	22. 1. 0	12. 30	·1041					
23. 55	6. 0	12. 36	·1039					
		13. 25	·1047					
		14. 17	·1040					
		14. 40	·1048					
		15. 45	·1045					
		17. 50	·1055					
		20. 10	·1055					
		23. 10	·1030					
		23·45	·1030					
		23. 59	·1032					
April 9		April 9		April 9		April 9		
0. 4	22. 7. 15	0. 0	·1032	0. 0	·02055	10. 50	64 ·0	65 ·5
0. 35	9. 30	0. 30	·1031	1. 50:	·02000	21. 40	52 ·5	54 ·8
2. 17	11. 30	0. 46	·1028	3. 20	·01880			
4. 8	5. 40	1. 40	·1033	4. 30:	·01639			
5. 35	3. 0	1. 55	·1030	6. 5	·01417			
10. 5	3. 0	2. 14	·1034	6. 52:	·01386			
12. 20	1. 0	3. 0	·1027	7. 46	·01430			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
April 9		April 9		April 9				
h m	° ′ ″	h m		h m		h m	°	°
13. 0	22. 1. 40	3. 55	·1035	8. 32:	·01470			
13. 20	21. 57. 15	5. 45	·1032	9. 10	·01482			
	***	6. 30	·1042	11. 32	·01580			
13. 35	22. 5. 0	7. 40	·1038	11. 55	·01600			
15. 25	21. 59. 40	10. 10	·1042	12. 48	·01710			
	***	11. 46	·1052	13. 34:	·01790			
15. 36	22. 0. 30	11. 55	·1060	14. 10	·01900			
16. 7	21. 57. 30	12. 4	·1044	15. 40	{·02122			
16. 53	21. 59. 0	12. 14	·1047		{·02105			
18. 4	22. 3. 45	12. 20	·1042	18. 58	·02071			
	***	12. 30	·1049	19. 5	·02075			
19. 3	0. 15		***	20. 42:	·02020			
	***	13. 29	·1051	22. 0	·02020			
21. 45	0. 0	14. 15	·1041	23. 8	·01970			
23. 44	6. 30	15. 27	·1054	23. 59	·01917			
23. 59	8. 30	16. 15:	·1058					
		17. 15	·1050					
		18. 50	·1064					
			***					
		19. 35	·1063					
		22. 32	·1036					
		23. 38	·1034					
		23. 53	·1042					
		23. 59	·1038					
Apr. 10		Apr. 10		Apr. 10		Apr. 10		
0. 7	22. 9. 0	0. 5	·1037	1. 23	·01832	1. 40	54 ·5	57 ·5
1. 29	11. 0	0. 50	.1047	2. 46:	·01718	3. 40	56 ·5	58 ·0
2. 39	9. 30	1. 8	·1044	3. 48	·01570	9. 40	59 ·0	62 ·3
3. 45	6. 0	1. 15	·1046	5. 23:	·01440	21. 50	49 ·0	53 ·0
6. 57	1. 0	1. 30	·1046	7. 10	·01360			
8. 35	4. 10	1. 37	·1051	8. 3	·01380			
	***	1. 53	·1044	8. 52	·01358			
11. 50	3. 0	2. 8	·1050	10. 29:	·01369			
11. 52	5. 30	2. 22	·1048	11. 36	·01445			
12. 44	0. 0	2. 31	·1054	11. 38	·01465			
13. 5	22. 21. 0	2. 55	·1047	11. 47	·01445			
13. 47	21. 40. 0	3. 30	·1050	11. 54	·01460			
13. 49	41. 50	3. 45	·1046	12. 27	·01465			
13. 54	37. 0	4. 30	·1054	12. 45	·01475			
	***		***	13. 30	·01238			
14. 12	42. 0	5. 2	·1045	13. 35	·01245			
14. 31	38. 35	5. 23	·1047	13. 50	·01330			
14. 37	39. 30	5. 37	·1053	13. 53	·01315			
14. 44	33. 35	6. 8	·1044	13. 59	·01360			
15. 29	59. 40	6. 30	·1048	14. 28	·01565			
15. 41	55. 30	6. 43	·1047	14. 37	·01578			
15. 47	56. 0	7. 0	·1054	14. 43	·01590			
16. 12	44. 35	7. 27	·1043	14. 52	·01559			
16. 18	43. 0	7. 32	·1048	14. 57	·01553			
16. 28	46. 30	7. 45	·1044	15. 8:	·01629			
16. 37	48. 30		***	15. 29	·01530			
16. 46	45. 0	8. 40	·1055	15. 36	·01626			
16. 53	44. 0	8. 55	·1046	15. 59	·01485			
17. 7	27. 0	9. 30	·1057	16. 5	·01479			
17. 17	29. 30	9. 35	·1053	16. 15	·01430			
17. 47	21. 44. 15	9. 53	·1057	16. 23	·01430			
18. 17	22. 16. 35	10. 1	·1054	16. 40	·01355			

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. 10	° ′ ″	Apr. 10		Apr. 10		h m	°	°
h m		h m		h m				
18. 26	22. 12. 30	10. 40	·1056	16. 46	·01369			
18. 30	22. 18. 30	10. 50	·1065	16. 50:	·01334			
18. 49	21. 48. 30	11. 10	·1062	17. 5	·01375			
18. 56	52. 15	11. 16	·1066	17. 12	·01355			
19. 42	48. 0	11. 30	·1062	17. 33	·01462			
19. 50	53. 0	11. 34	·1066	17. 47	·01358			
	***	11. 40	·1058	17. 52	·01330			
20. 37	57. 0	11. 53	·1094	17. 56	·01370			
20. 43	21. 53. 0	12. 0	·1078	18. 3	·01365			
20. 51	22. 3. 25	12. 8	·1083	18. 7	·01378			
21. 0	21. 59. 10	12. 15	·1077	18. 12	·01361			
21. 8	22. 2. 30	12. 32	·1082	18. 20	·01387			
21. 15	1. 0	12. 44	·1066	18. 38	·01330			
	***		***	18. 42	·01400			
21. 48	10. 0	12. 53	·1066	19. 0	·01347			
	***	13. 6	·1078	19. 22	·01522			
22. 14	9. 0	13. 32	·1000	19. 45	·01650			
	***	13. 45	·1028	20. 12	·01710			
22. 28	19. 0	13. 50	·1006	20. 22:	·01735			
	***	13. 54	·1016	20. 33	·01705			
22. 45	14. 0	13. 59	·1009		***			
	***		***	20. 55	·01752			
22. 57	21. 0	14. 36	·1056		***			
	***		***	22. 10	·01737			
23. 4	17. 0	15. 16	·1014		***			
	***	15. 35	·1066	22. 40	·01732			
23. 13	21. 0	15. 46	·1060		***			
	***	15. 55	·1042	22. 53	·01765			
23. 21	18. 0	16. 10	·1038		***			
	***	16. 17	·1048	23. 59	·01850			
23. 25	21. 0	17. 0	·0950					
	***	17. 25	·1048					
23. 40	13. 30	17. 42	·0990					
	***		***					
23. 59	17. 10	18. 5	·1033					
	***	18. 9	·1024					
		18. 15	·1033					
		18. 39	·0987					
		18. 44	·1008					
		18. 59	·0978					
		19. 8	·0998					
		19. 15	·0982					
		19. 18	·0986					
			***					
		19. 27	·0974					
			***					
		19. 53	·0998					
		20. 5	·0992					
		20. 21	·1000					
		20. 31	·0978					
		20. 42	·1018					
		20. 49	·1012					
		20. 59	·1019					
		21. 5	·1010					
		21. 15	·1026					
			***					
		22. 27	·0916					
			(†)					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	Apr. 10 h m		h m		Apr. 11 h m	°	°
		23. 12	·0924					
		23. 25	·0916					
			***					
		23. 59	·0985					
Apr. 11		Apr. 11		Apr. 11		Apr. 11		
0. 13	22. 20. 0	0. 15	·1016	1. 8	·01732	1. 40	54 ·3	57 ·0
0. 31	27. 30	0. 20	·1006	2. 28	·01603	3. 40	59 ·0	63 ·0
0. 45	22. 30	0. 27	·1018	3. 7	·01520	9. 40	64 ·0	67 ·0
0. 55	24. 35	0. 30	·1026	3. 25	·01450	21. 40	52 ·0	54 ·0
1. 12	19. 0		***	3. 32	·01431			
	***	1. 50	·1027	3. 52	·01338			
1. 54	18. 0	2. 5	·1055	4. 3	·01320			
	***	2. 28	·1010	4. 33	·01340			
2. 9	23. 10	2. 45	·1014	5. 25	·01375			
	***	2. 55	·1006	6. 20	·01385			
3. 3	10. 0		***	6. 38	·01375			
	***	3. 15	·1024	6. 53:	·01385			
3. 18	13. 0	3. 36	·1013	7. 13	·01381			
	***	3. 49	·1014	7. 57	·01409			
4. 9	10. 45	3. 55	·1002	8. 28	·01450			
4. 46	11. 10	4. 3	·1010	8. 52:	·01442			
5. 12	8. 20		***	9. 32	·01460			
6. 48	3. 40	4. 31	·1010	10. 18	·01471			
8. 0	22. 3. 20		***	10. 32	·01345			
8. 20	21. 49. 20	5. 28	·1000	10. 50	·01420			
8. 43	59. 10	5. 36	·1008	11. 0	·01465			
9. 11	21. 53. 35	6. 0	·1008	11. 28	·01482			
9. 43	22. 0. 40	6. 30	·1019	11. 53	·01529			
9. 56	21. 58. 10	6. 41	·1013	12. 6	·01555			
10. 19	22. 0. 30	7. 0	·1022	12. 20	·01555			
10. 24	19. 30	7. 13	·1019	12. 25	·01557			
10. 44	4. 0	7. 40	·1024	13. 5:	·01628			
11. 53	7. 35	8. 16	·1008	13. 42	·01722			
12. 20	6. 30	8. 29	·1028	14. 23:	·01763			
12. 53	2. 0	8. 45	·1022	14. 57	·01883			
13. 29	2. 30	8. 52	·1024	15. 29	·02000			
13. 43	12. 0	9. 7	·1021	16. 7	·02115			
13. 55	14. 10	9. 15	·1026		(†)			
14. 31	3. 0	9. 26	·1025	20. 52	·02120			
14. 50	1. 30	9. 35	·1034	21. 58	·02063			
15. 25	5. 20	9. 50	·1024	22. 20	·02045			
16. 37	2. 0	10. 45	·1026	22. 42	·02025			
18. 5	22. 2. 30	10. 56	·1017	23. 59	·01974			
	***	11. 5	·1030					
20. 7	21. 59. 10	11. 17	·1023					
	***		***					
21. 24	21. 59. 15	11. 47	·1033					
22. 28	22. 2. 0	11. 59	·1028					
	***	12. 5	·1033					
22. 47	4. 35	12. 17	·1026					
22. 53	4. 0	12. 34	·1037					
23. 53	7. 35	13. 33	·1034					
		14. 5	·1024					
		14. 38:	·1040					
		15. 23	·1031					
		16. 5	·1046					
			***					

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

April 11. Vertical Force Magnet. The spot of light was off the sheet from $16^h.\ 7^m.$ to $20^h.\ 52^m$, and no eye observation was made between those times.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F Magnet.
h m	° ′ ″	Apr. 11 h m		h m		h m	°	°
		17. 3	·1043 ***					
		18. 55	·1042					
		21. 0	·1040					
		23. 0	·1024					
		23. 50	·1034					
		23. 59	·1032					
Apr. 12		Apr. 12		Apr. 12		Apr. 12		
0. 4	22. 7. 20	0. 0	·1031	1. 5	·01600	1. 40	55 ·4	58 ·0
2. 2	6. 35	0. 36	·1025	1. 30	·01573	3. 40	59 ·0	63 ·0
5. 33	2. 0	1. 30	·1032	2. 7	·01519	9. 40	62 ·0	64 ·0
9. 13	1. 30	3. 0	·1021	2. 25	·01472	21. 40	56 ·0	58 ·0
10. 8	2. 10	7. 10	·1034	3. 5:	·01340			
10. 35	1. 40 ***	10. 20	·1037	3. 45	·01270			
		10. 30	·1042	5. 52:	·01235			
12. 1	3. 30	11. 5	·1039	7. 33	·01282			
12. 42	1. 0	11. 30:	·1051	8. 16:	·01330			
13. 28	2. 40	11. 50	·1046	9. 5	·01320			
18. 40	22. 1. 10 ***	12. 0	·1051	10. 8:	·01330			
		13. 13	·1038	12. 17	·01380			
20. 52	21. 59. 30	13. 38	·1043	14. 27:	·01525			
21. 40	22. 3. 0	16. 10	·1046	16. 52	·01782			
23. 59	6. 40	19. 0	·1051	20. 38	·01920			
		22. 0	·1021	23. 59	·01840			
		23. 59	·1030					
Apr. 13		Apr. 13		Apr. 13		Apr. 13		
0. 28	22. 7. 0	0. 0	·1028 ***	0. 28	·01810	1. 40	59 ·0	63 ·0
2. 1	9. 0 ***			3. 12:	·01520	3. 40	63 ·0	64 ·5
		0. 50:	·1034 ***	4. 27	·01335	9. 40	64 ·0	65 ·8
6. 1	2. 30 ***			4. 57:	·01315 ***	21. 40	52 ·0	54 ·0
		1. 45	·1030					
8. 7	3. 20 ***	1. 54	·1034	7. 25	·01440			
		2. 25	·1027 ***	8. 23:	·01495			
9. 0	1. 30			9. 16	·01514			
12. 25	1. 13	3. 30	·1036 ***	11. 7:	·01625			
12. 52	4. 10			12. 26	·01765			
12. 58	1. 45	4. 2	·1028	13. 37:	·01880			
13. 10	22. 3. 10 ***	4. 21	·1036	15. 5	·02120			
		4. 30	·1030		(†)			
19. 46	21. 58. 0 ***	4. 32	·1034	19. 36	·02115			
		4. 43	·1028 ***	21. 55	·02060			
21. 45	21. 59. 45 ***			23. 59	·01973			
		5. 46	·1036					
23. 59	22. 5. 15 ***	5. 53	·1030					
		5. 58	·1035					
		6. 8	·1025					
		6. 23	·1038					
		6. 30	·1033					
		6. 40	·1050					
		6. 54	·1026					
		7. 0	·1038					
		7. 25	·1023					
		8. 10	·1027					
		8. 20	·1025					
		9. 3	·1036					
		9. 17	·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.
h m	° ′ ″	Apr. 13 h m		h m		h m	°	°
		12. 53	·1050					
		12. 59	·1040 ***					
		14. 20	·1050					
		19. 9	·1064					
		19. 30:	·1060					
		19. 58	·1064					
		21. 38	·1050					
		23. 15	·1044					
		23. 30	·1052 ***					
		23. 59	·1047					
Apr. 14		Apr. 14		Apr. 14		Apr. 14		
0. 14	22. 6. 0	0. 0	·1048	0. 15	·01965	8. 18	64 ·0	66 ·0
1. 51	9. 45	1. 23	·1052	2. 7	·01875	21. 40	53 ·0	55 ·0
2. 23	9. 30	1. 35	·1058 ***	4. 27	·01475			
2. 32	10. 45			5. 31	·01430			
3. 7	7. 25	2. 18	·1053	6. 22	·01410			
3. 23	9. 0 ***	2. 29	·1064 ***	7. 36	·01508			
				8. 50	·01560			
4. 27	8. 0	3. 0	·1046	9. 8	·01689			
5. 26	11. 30	3. 16	·1060	9. 40	·01485			
6. 0	8. 0	3. 23	·1052	9. 52	·01590			
6. 7	6. 30	3. 40	·1058	10. 22	·01585			
6. 25	8. 40	3. 50	·1053	10. 45	·01513			
7. 2	8. 0	4. 6	·1055	11. 10	·01540			
7. 28	1. 0	5. 20	·1050	11. 28	·01495			
7. 38	7. 0	5. 30	·1042	11. 47	·01563			
7. 43	4. 25	5. 40	·1050	12. 37	·01587			
7. 45	6. 30	5. 55	·1045	16. 20	·02110			
7. 48	5. 15	6. 5	·1050		(†)			
7. 56	10. 15	6. 35	·1036	21. 0	·02120			
8. 7	7. 0	6. 53	·1042 ***	22. 58:	·02053			
8. 25	22. 13. 30			23. 50	·02062			
9. 10	21. 55. 0	7. 20	·1036	23. 59	·02045			
9. 15	56. 15	7. 37	·1054					
9. 29	50. 0	7. 45	·1042					
9. 37	51. 30	7. 55	·1058					
9. 50	48. 35	8. 3	·1042					
9. 56	49. 30	8. 12	·1040					
10. 2	47. 10	8. 21	·1043					
10. 29	58. 0	9. 0	·0996 ***					
11. 3	43. 30							
11. 38	55. 20	9. 14	·1013					
11. 58	44. 0	9. 20	·1006					
12. 12	54. 10	9. 30	·1015					
12. 20	21. 52. 40	9. 45	·1004					
12. 48	22. 1. 0	9. 55	·0977					
13. 15	21. 59. 30 ***	10. 10	·1013					
		10. 25	·1015					
14. 40	22. 3. 30 ***	10. 38	·0999 ***					
15. 37	22. 1. 15 ***	11. 10	·1004					
		11. 30	·1034					
18. 45	21. 59. 50 ***	11. 44	·1022					
		11. 53	·1030					
19. 42	56. 30	12. 10	·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.

April 13. Vertical Force Magnet. The spot of light was off the sheet from $15^h.\ 3^m.$ to $19^h.\ 35^m.$

April 14. There was no register of vertical force between $16^h.\ 20^m.$ and $21^h.\ 0^m.$

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 14		Apr. 14						
h m	° ′ ″	h m		h m		h m	°	°
19. 50	21. 58. 45	12. 24	·1052					
21. 5	56. 40	13. 10:	·1028					
21. 32	59. 50	14. 0	·1032					
21. 50	21. 59. 30	14. 16	·1025					
23. 59	22. 8. 30		***					
		19. 53	·1049					
		21. 2	·1042					
		21. 11	·1046					
		21. 14	·1038					
		22. 10	·1038					
		23. 0:	·1027					
		23. 59	·1027					
Apr. 15		Apr. 15		Apr. 15		Apr. 15		
0. 12	22. 9. 50	0. 0	·1028	0. 52	·02048	1. 40	56 ·5	58 ·5
1. 10	13. 30	0. 40	·1032	1. 27	·02025	3. 40	61 ·0	66 ·0
2. 25	12. 0	1. 30	·1034	1. 53	·01945	9. 40	66 ·0	68 ·0
3. 2	13. 10		***	3. 5:	·01758	23. 32	54 ·0	56 ·5
	***	2. 4	·1028	3. 57	·01480			
4. 5	9. 30	2. 50:	·1049		***			
	***	3. 14	·1038	5. 34:	·01540			
4. 58	11. 0		***	7. 15	·01523			
	***	4. 0	·1038	8. 12	·01569			
5. 53	5. 0	4. 10	·1045	9. 22:	·01572			
6. 32	5. 0	4. 18	·1043	11. 13	·01650			
6. 55	1. 30	4. 30	·1052	12. 8	·01700			
7. 5	22. 2. 0	5. 7	·1014	14. 50	·02120			
7. 31	21. 54. 15	5. 30:	·1022		(†)			
8. 8	22. 0. 0	5. 53	·1023	19. 50	·02100			
10. 0	21. 59. 20	6. 15:	·1034	21. 7	·02073			
10. 39	22. 1. 15	6. 47	·1033	22. 20:	·02042			
11. 8	21. 59. 10	7. 0	·1043	23. 38	·02033			
11. 14	58. 40	7. 17	·1031	23. 59	·02010			
11. 36	53. 15	7. 34	·1048					
12. 0	56. 40	8. 4	·1038					
	***		***					
12. 44	21. 56. 15	8. 53	·1037					
	***	9. 8	·1041					
14. 8	22. 2. 0	9. 44	·1038					
	***	10. 23	·1045					
21. 17	21. 59. 15	10. 50	·1041					
23. 59	22. 5. 50	11. 14	·1049					
		11. 25	·1044					
		11. 36	·1047					
		12. 8	·1039					
		12. 24	·1054					
			***					
		12. 42	·1049					
			***					
		13. 5	·1052					
		13. 25	·1050					
		19. 15	·1067					
		21. 0	·1064					
		23. 23	·1051					
		23. 59	·1052					
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
0. 50	22. 6. 0	0. 0	·1052	0. 37	·01980	9. 40	64 ·5	67 ·4
1. 40	6. 25	1. 10	·1058	3. 3:	·01855	21. 40	55 ·5	58 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 16		Apr. 16		Apr. 16		Apr. 16		
h m	° ′ ″	h m		h m		h m	°	°
6. 35	22. 1. 0	2. 0	·1058	4. 52	·01568			
9. 22	2. 0	5. 37	·1051	5. 34:	·01487			
13. 52	2. 0	7. 17	·1060	6. 47	·01425			
14. 7	3. 45	8. 6	·1056	7. 20:	·01401			
14. 43	0. 30	12. 0	·1053	8. 30	·01445			
	***	13. 30	·1057	10. 38:	·01433			
19. 20	22. 2. 15	14. 23	·1066	12. 23	·01461			
	***	15. 0	·1063	14. 27:	·01608			
20. 25	21. 59. 30	18. 0	·1072	16. 32	·01875			
21. 27	22. 1. 0	18. 45	·1067	18. 21	·02000			
21. 55	0. 45	20. 45:	·1071	19. 28	·02060			
22. 59	4. 30	21. 23	·1060	20. 55	·02033			
23. 59	5. 30	22. 20	·1056	22. 30	·02021			
		23. 10	·1042	23. 59	·01922			
			***					
		23. 59	·1048					
Apr. 17		Apr. 17		Apr. 17		Apr. 17		
0. 23	22. 6. 0	0. 0	·1048	0. 41	·01860	1. 40	59 ·0	61 ·5
1. 40	7. 35	0. 8	·1045	2. 49	·01712	3. 40	61 ·5	63 ·0
6. 0	3. 30	0. 35	·1046	4. 7	·01573	9. 40	60 ·0	63 ·0
9. 35	3. 0	4. 53	·1059	5. 7	·01495	21. 40	51 ·0	54 ·0
10. 11	1. 30	6. 15	·1056	6. 46	·01475			
10. 53	3. 0	6. 53:	·1062	7. 18	·01488			
14. 0	2. 30	8. 4	·1059	8. 12:	·01562			
14. 17:	7. 25	13. 5	·1074	9. 4	·01554			
15. 10	1. 0	14. 15:	·1072	10. 14:	·01585			
	***	14. 38	·1081	12. 27	·01804			
15. 55	2. 10	15. 30	·1075	14. 7	·01975			
16. 40	0. 30	16. 30	·1081	14. 40	·01970			
19. 22	1. 10	20. 0	·1084	15. 35	·02045			
19. 55	2. 30	23. 59	·1062	17. 33	·02020			
21. 22	2. 0			19. 37	·02015			
23. 59	6. 30			21. 30	·01925			
				23. 59	·01805			
Apr. 18		Apr. 18		Apr. 18		Apr. 18		
0. 8	22. 6. 45	0. 13	·1057	1. 30	·01675	1. 40	58 ·5	60 ·0
1. 37	9. 0	1. 33	·1066	3. 37	·01260	3. 40	63 ·0	65 ·3
3. 43	5. 10	2. 8	·1057	4. 2	·01285	9. 40	66 ·5	68 ·5
6. 2	3. 0	3. 45	·1052	5. 5	·01288	21. 40	57 ·0	59 ·0
10. 23	3. 0	5. 5	·1052	6. 46:	·01256			
10. 54	21. 59. 20	5. 45	·1056	8. 0	·01316			
11. 28	22. 1. 30	12. 25	·1057	8. 37:	·01342			
13. 58	22. 1. 0	12. 35	·1073	9. 37	·01305			
	***	12. 47	·1066	9. 57	·01360			
17. 7	21. 58. 0		***	13. 7	·01528			
	***	16. 23	·1080	14. 0	·01588			
19. 10	22. 0. 15	17. 30	·1077	16. 34	·01888			
19. 28	21. 57. 30	18. 23	·1067	17. 20	·01951			
20. 0	22. 2. 0	18. 53	·1074	18. 8	·02000			
	***	19. 30	·1067	19. 12	·01955			
21. 1	4. 30		***	20. 3	·01982			
21. 33	3. 0	20. 46	·1078	22. 16	·01992			
	***	23. 0:	·1046	23. 1:	·01982			
22. 7	5. 10	23. 59	·1056	23. 32	·01925			
22. 32	4. 30							
23. 59	9. 0							

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

April 15. Vertical Force Magnet. The spot of light was off the sheet from $14^h.\ 50^m.$ to $19^h.\ 50^m.$

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.19 h m	° ′ ″	Apr.19 h m		Apr.19 h m		Apr.19 h m	°	°
0. 7	22. 11. 0	0. 0	·1057	0. 0	·01927	1. 40	62 ·3	65 ·8
1. 13	9. 15	0. 49	·1044	1. 0:	·01840	3. 40	67 ·0	69 ·0
2. 7	12. 30		***	1. 50	·01683	9. 40	69 ·0	71 ·0
	***	1. 30	·1054	3. 12	·01468	21. 40	59 ·0	62 ·0
2. 29	11. 30		***	4. 22	·01410			
	***	2. 35	·1046	5. 20	·01385			
3. 0	13. 0	2. 45	·1050	6. 1	·01440			
3. 17	10. 0	2. 52	·1048	6. 22	·01520			
3. 30	11. 15	3. 4	·1058	6. 42	·01594			
3. 51	9. 15	3. 23	·1044	6. 47	·01600			
4. 0	10. 0		***	7. 15	·01555			
4. 13	5. 45	3. 53	·1037	7. 40	·01594			
4. 40	8. 0	4. 5	·1046	8. 52:	·01679			
5. 43	7. 30	4. 20	·1033	9. 40	·01660			
6. 1	4. 30	5. 0	·1068	10. 6	·01650			
6. 9	22. 8. 0	5. 19	·1058	10. 31	·01704			
6. 48	21. 44. 20	5. 45	·1060	10. 50	·01680			
7. 4	51. 30	6. 5	·1036	11. 7	·01700			
7. 13	50. 0	6. 20	·1067	11. 16	·01692			
7. 22	52. 0	6. 37	·1050	12. 3	·01725			
7. 27	51. 0		***	13. 45	·01920			
7. 38	57. 0	7. 0	·1060	15. 7	·02125			
8. 2	58. 30	7. 30	·1028	16. 46:	·02070			
8. 21	57. 30	7. 39	·1037	18. 4	·02094			
8. 32	58. 0	8. 15	·1018	20. 46	·02035			
8. 53	49. 0	8. 43	·1021	21. 50	·02055			
9. 4	49. 0	8. 52	·1018	23. 27	·01960			
9. 22	21. 59. 20	9. 15	·1037					
9. 52	22. 3. 30	9. 29	·1016					
10. 24	21. 53. 20	9. 34	·1022					
10. 43	22. 2. 0	9. 42	·1020					
10. 56	21. 55. 0	9. 58	·1030					
11. 14	22. 1. 30	10. 9	·1020					
11. 20	0. 15	10. 35	·1056					
11. 38	22. 3. 10	10. 53	·1038					
11. 59	21. 55. 30	11. 12	·1057					
12. 15	54. 50	11. 55	·1022					
12. 37	59. 0	12. 24	·1040					
13. 23	59. 30	12. 45	·1033					
13. 46	56. 40		***					
14. 7	59. 15	14. 5	·1037					
14. 21	21. 59. 15	14. 40	·1030					
14. 46	22. 5. 35		***					
15. 28	4. 45	16. 8:	·1053					
	***	17. 33	·1040					
16. 9	22. 0. 35	19. 8:	·1058					
	***	20. 23	·1054					
16. 51	21. 59. 20	20. 50:	·1054					
	***	21. 30	·1043					
18. 28	22. 1. 30	22. 45	·1046					
19. 20	21. 59. 30	23. 45	·1032					
22. 20	22. 1. 0	23. 51	·1036					
23. 17	3. 30	23. 59	·1027					
23. 34	3. 0							
23. 59	6. 0							
Apr.20		Apr.20		Apr.20		Apr.20		
0. 14	22. 6. 0	0. 0	·1027	0. 10	·01910	1. 40	64 ·8	67 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.20 h m	° ′ ″	Apr.20 h m		Apr.20 h m		Apr.20 h m	°	°
0. 49	22. 6. 30	0. 40	·1020	0. 10	·01910	3. 40	68 ·0	72 ·3
3. 2	5. 30	0. 45	·1022	1. 53	·01685	9. 40	69 ·5	72 ·5
5. 34	22. 2. 0	2. 10	·0998	3. 35	·01672	21. 40	63 ·5	65 ·0
6. 14	21. 48. 25	3. 22	·0988	4. 32	·01638			
7. 2	48. 20	3. 55	·0997	5. 22	·01635			
7. 31	51. 30	4. 8	·0994	6. 13	·01590			
7. 43	49. 30	4. 18	·0997	6. 37	·01610			
8. 19	58. 20	4. 36	·0988	6. 50	·01665			
8. 27	56. 35	4. 47	·0997	7. 39:	·01670			
8. 38	59. 0	5. 0	·0995	8. 10	·01725			
9. 8:	21. 57. 10	5. 15	·1003	9. 40	·01718			
9. 39	22. 5. 30	5. 28	·0994	9. 48	·01680			
9. 50	21. 57. 30	6. 0	·0998	11. 37	·01723			
10. 2	58. 45	6. 10	·0986	12. 53	·01725			
10. 15	54. 0	6. 38	·1013	13. 13	·01683			
10. 31	51. 0	7. 7	·0996	14. 31	·01861			
10. 48	53. 50	7. 18	·0996	15. 17	·01921			
	***		***	17. 10	·02125			
11. 25	51. 50	7. 55	·0980		(†)			
11. 44	55. 30	8. 5	·0984	21. 22	·02125			
12. 14	54. 15	8. 17	·0978	22. 47:	·02017			
12. 23	21. 52. 10	8. 33	·0987	23. 55	·01975			
12. 53	22. 11. 0	8. 52	·0980					
13. 50	21. 49. 25	9. 10	·0982					
14. 16	56. 0	9. 33	·1002					
14. 23	21. 55. 30	9. 45	·0996					
14. 52:	22. 8. 0	9. 57	·1004					
15. 44	21. 58. 30	10. 13	·0994					
16. 55	57. 0	10. 18	·0999					
21. 18	21. 59. 0	10. 30	·0992					
23. 7	22. 6. 0	10. 45	·0995					
23. 59	7. 50	11. 10:	·0990					
		11. 46	·0998					
		12. 20	·0986					
		12. 30	·0960					
		12. 50	·0996					
		13. 3	·0988					
		13. 24	·0988					
		13. 55	·1014					
		14. 40	·0978					
		15. 25	·1004					
		15. 40	·1000					
			***					
		16. 23	·1006					
		17. 27	·1010					
		18. 18	·1004					
		18. 34	·1007					
		19. 23	·1004					
		20. 16	·1006					
		20. 38	·1001					
		22. 10	·1006					
		23. 0	·0994					
		23. 59	·0996					
Apr.21		Apr.21		Apr.21		Apr.21		
0. 11	22. 6. 0	0. 0	·0996	0. 0	·01975	1. 40	65 ·2	68 ·0
0. 46	4. 30	0. 6	·1000	0. 30:	·01965	3. 40	67 ·2	71 ·0
2. 15	22. 4. 30	0. 38	·0998	1. 7	·01984	9. 40	69 ·0	71 ·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 20. Vertical Force Magnet. The spot of light was off the sheet from $17^h.\ 10^m.$ to $21^h.\ 22^m.$; and on April 21. from $16^h.\ 40^m.$ to $19^h.\ 29^m.$

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V F. Magnet.
Apr.21		Apr.21		Apr.21		Apr.21	°	°
h m	° ′ ″	h m		h m		h m		
4. 42	21. 59. 20	1. 35	·1010	3. 0	·01763	21. 40	60 ·2	63 ·0
6. 13	57. 40	3. 47	·1008	6. 20:	·01685			
6. 38	53. 50		***	8. 46	·01700			
7. 49	49. 0	5. 30	·1018	9. 52	·01708			
8. 24	57. 30	6. 25	·1004	10. 40	·01672			
9. 2	59. 30	6. 52	·1020	11. 42	·01792			
9. 41	21. 56. 25	8. 30	·1005	12. 0	·01810			
10. 5	22. 3. 40	9. 15	·1011	13. 12	·01865			
10. 21	21. 56. 30	9. 38	·1006	14. 0	·01938			
10. 40	59. 40	10. 0	·1022	14. 34	·01919			
11. 1	56. 0	10. 15	·1010	15. 23	·02045			
11. 18	55. 0	10. 28	·1036	16. 0	{·02050			
11. 43	56. 15	10. 55	·1011		{·02065			
12. 28	54. 0	11. 14	·1006	16. 40	·02120			
12. 46	56. 30	11. 45	·1016		(†)			
13. 0	57. 0	12. 4	·1014	19. 29	·02120			
13. 17	53. 15	12. 29	·1008	22. 8:	·02000			
13. 28	53. 30	13. 5	·1031	23. 59	·01950			
13. 47	55. 30	13. 15	·1026					
14. 0	55. 30	13. 23	·1031					
14. 31	44. 10	13. 38	·1023					
15. 9	58. 30	14. 0	·1027					
15. 32	59. 45	14. 16	·1022					
16. 7	56. 40	14. 25	·1003					
16. 21	56. 40	14. 51	·0992					
17. 7	57. 30	15. 50	·1028					
17. 20	55. 40	16. 45	·1014					
	***	17. 45	·1020					
17. 50	55. 15	23. 14	·1014					
	***	23. 30	·1017					
18. 23	56. 50	23. 44	·1015					
	***	23. 53	·1023					
20. 17	56. 0	23. 59	·1020					
	***							
21. 43	21. 58. 0							
	***							
23. 59	22. 5. 30							
	***							
Apr.22		Apr.22		Apr.22		Apr.22		
0. 37	22. 9. 10	0. 0	·1020	0. 45	·01940	1. 40	59 ·5	63 ·0
1. 16	7. 40	0. 16	·1020	2. 0	·01924	3. 40	61 ·0	63 ·0
2. 5	13. 0	0. 24	·1024	3. 22	·01945	9. 40	58 ·5	62 ·3
	***	1. 13	·1014	4. 7	·01845	23. 9	50 ·5	53 ·0
2. 59	6. 15	2. 0	·1028	6. 59:	·01880			
	***	2. 30	·1008	8. 31	·02005			
3. 48	9. 0	2. 44	·1018	9. 30	·01940			
4. 7	8. 0	2. 53	·1014	10. 31	·01939			
4. 17	9. 15	3. 20	·1034	11. 1	·01905			
4. 23	7. 45	3. 45	·1018	12. 7	·01950			
6. 16	5. 30	4. 8	·1016	12. 57	·01823			
7. 53	22. 2. 0	4. 21	·1032	13. 20	·01873			
8. 19	21. 52. 15	4. 35	·1018	13. 51	·01834			
8. 32	22. 5. 0		***	15. 4	·01898			
8. 47	21. 57. 0	5. 40	·1030	18. 0	·01914			
8. 58	47. 0	6. 0	·1038	20. 10	·01892			
9. 5	47. 0	6. 28	·1028	21. 12:	·01868			
9. 16	44. 10	7. 15	·1040	23. 22	·01855			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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		h m	°	°
h m	° ′ ″	h m		h m				
10. 0	21. 56. 0	7. 45	·1037	23. 59	·01845			
10. 21	56. 20	8. 9	·1022					
10. 28	58. 30	8. 40	·1033					
10. 37	21. 58. 30	8. 53	·1022					
10. 53	22. 2. 10	9. 0	·1028					
11. 18	21. 52. 0	10. 15	·1013					
11. 29	53. 25	10. 29	·1014					
12. 1	21. 51. 45	10. 44	·1025					
12. 40	22. 3. 30	11. 6	·1004					
12. 58	21. 55. 45	11. 30	·1033					
13. 22	22. 4. 0	11. 45	·1026					
14. 0	21. 50. 30	12. 0	·1030					
14. 29	56. 25	12. 44	·0998					
14. 48	55. 0	13. 23	·1022					
15. 8	57. 0	13. 38	·1018					
15. 53	54. 10	14. 25	·1028					
16. 15	55. 0	14. 44	·1023					
16. 23	59. 0	15. 52	·1034					
16. 47	21. 59. 0		***					
	***	17. 40	·1028					
17. 25	22. 3. 30	17. 55	·1038					
17. 59	21. 59. 45		***					
	***	19. 5	·1045					
18. 56	57. 0	19. 50	·1034					
19. 6	59. 15	21. 15	·1024					
19. 37	21. 58. 0	23. 15	·1028					
20. 58	22. 0. 0	23. 59	·1032					
21. 18	2. 45							
21. 37	1. 0							
23. 8	1. 30							
23. 59	5. 10							
Apr.23		Apr.23		Apr.23		Apr.23		
0. 24	22. 5. 45	0. 0	·1032	0. 15	·01894	10. 0	52 ·0	55 ·0
1. 55	6. 40	1. 15	·1042		***	21. 40	46 ·0	48 ·5
	***	1. 25	·1038	3. 47	·01960			
3. 23	13. 0	1. 43	·1042	6. 31:	·01817			
3. 32	11. 0	2. 10	·1030	8. 30	·01860			
	***	2. 25	·1031	10. 0	·01845			
4. 36	9. 30		***	10. 22	·01850			
5. 18	7. 20	3. 0	·1037	10. 50	·01775			
	***	3. 29	·1004	11. 10	·01820			
7. 0	4. 45	4. 0	·1038	12. 17	·01930			
	***	4. 30	·1021	13. 40	·01820			
7. 55	0. 30		***		***			
8. 43	4. 0	5. 35	·1042	13. 43	·01755			
9. 36	2. 30	6. 0	·1044		***			
9. 54	21. 59. 35	6. 5	·1052	15. 5	·01725			
10. 7	22. 1. 0	6. 36	·1053	15. 17	·01745			
10. 17	21. 58. 15	7. 5	·1058	15. 30	·01730			
10. 33	22. 8. 30	7. 39	·1041	16. 0:	·01760			
11. 1	21. 52. 20		***	16. 38	·01725			
11. 12	56. 0	8. 15	·1040	17. 3	·01695			
11. 57	59. 30	8. 30	·1048	17. 13	·01691			
12. 35	58. 0	8. 34	·1043	17. 48	·01739			
12. 52	52. 15		***	18. 0	·01730			
13. 19	55. 0	9. 13	·1050	19. 17	·01725			
13. 44	49. 0	9. 50	·1043	20. 0	·01778			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 23		Apr. 23		Apr. 23		h m	°	°
h m	° ′ ″	h m		h m				
13. 55	21. 54. 40	10. 13	·1052	20. 12	·01773			
14. 5	53. 0	10. 25	·1102	22. 24	·01810			
14. 35	57. 30	10. 53	·1043	23. 59	·01806			
14. 47	55. 15	11. 5	·1056					
15. 8	59. 25	11. 27	·1040					
15. 20	57. 35	11. 57	·1041					
	***	12. 4	·1048					
15. 54	21. 58. 25		***					
16. 35	22. 3. 0	12. 26	·1038					
16. 45	3. 0	12. 34	·1054					
16. 57	6. 25	13. 9	·1038					
17. 16	1. 25		***					
17. 50	6. 0	13. 39	·1065					
18. 15	4. 0	13. 45	·1060					
18. 47	5. 0	13. 53	·1065					
18. 59	7. 30	14. 7	·1042					
	***	14. 28	·1028					
19. 25	1. 0	15. 0	·1036					
	***	15. 16	·1016					
20. 46	2. 30	15. 30	·1025					
	***	15. 46	·1021					
21. 33	10. 20	16. 15:	·1036					
	***	16. 48	·1022					
22. 52	9. 0		***					
	***	17. 45	·1028					
23. 44	13. 0	18. 27	·1049					
23. 58	16. 0	19. 38	·1021					
			***					
		20. 0	·1032					
		20. 29	·1026					
		20. 40	·1016					
		21. 23	·1014					
		21. 35	·1018					
		22. 30	·1012					
		23. 0	·1014					
		23. 16	·1020					
		23. 59	·1000					
Apr. 24		Apr. 24		Apr. 24		Apr. 24		
0. 8	22. 16. 30	0. 0	·1000	0. 45	·01806	1. 40	50 ·0	53 ·0
	***	0. 15	·1002	1. 10	·01795	3. 40	53 ·0	55 ·0
1. 35	14. 45	0. 40	·1022	1. 45	·01750	9. 40	56 ·0	57 ·5
2. 45	14. 0	0. 45	·1019		***	21. 40	45 ·0	48 ·0
3. 12	19. 40	1. 13	·1035	3. 15	·01655			
	***	1. 22	·1028		***			
3. 15	16. 10	1. 25	·1034	3. 50	·01760			
3. 28	23. 0	1. 39	·1020	4. 0	·01760			
3. 32	16. 40	2. 9	·1030	4. 7	·01662			
3. 35	21. 0	2. 18	·1042		***			
3. 40	14. 30		***	4. 48	·01675			
3. 46	20. 0	2. 34	·1030	4. 53	·01640			
3. 50	12. 30	2. 50	·1046	5. 5	·01592			
	***	3. 7	·1028	5. 10	·01600			
3. 58	15. 0	3. 15	·1028	5. 24	·01505			
4. 2	10. 0	3. 24	·1052	5. 38	·01530			
4. 12	13. 0	3. 34	·1043	6. 5	·01440			
4. 14	10. 30	3. 40	·1059	6. 30	·01385			
4. 16	14. 0	3. 45	·1040	7. 12	·01385			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Apr. 24		Apr. 24		Apr. 24		h m	°	°
h m	° ′ ″	h m		h m				
4. 22	22. 9. 30	3. 51	·1052	7. 39	·01340			
4. 43	15. 10	3. 55	·1034	8. 5	·01370			
5. 20	22. 11. 0	4. 3	·1050	8. 28	·01344			
5. 26	21. 57. 0	4. 8	·1028	9. 20	·01290			
5. 33	22. 4. 0	4. 23	·1048	10. 4	·01319			
5. 43	2. 0	4. 29	·1038	10. 50:	·01325			
6. 28	7. 10	4. 45	·1058	11. 28	·01369			
6. 44	3. 0		***	12. 20	·01390			
7. 0	22. 4. 15	5. 8	·1020	12. 32	·01362			
7. 17	21. 57. 45	5. 15	·1034	12. 38	·01329			
7. 22	58. 15	5. 44	·0986	12. 50	·01338			
7. 25	57. 15	5. 53	·1016	13. 0	·01280			
7. 32	59. 30	6. 1	·1006	13. 30	·01325			
7. 40	58. 30	6. 23	·1024	14. 46	·01575			
7. 47	59. 0	6. 40	·1006	16. 7	·01755			
7. 55	47. 30	6. 59	·1015	18. 3	·01882			
8. 10	52. 30	7. 13	·1000	18. 6	·01870			
8. 30	43. 15	7. 16	·1010	18. 50:	·01870			
9. 0	59. 10		***	19. 40	·01835			
9. 16	54. 0	7. 41	·1008	20. 10	·01830			
9. 28	47. 0	7. 56	·0990		***			
9. 40	53. 30	8. 10	·1016	22. 30	·01725			
9. 45	53. 0	8. 30	·1002		***			
10. 5	57. 0	8. 45	·1017	23. 59	·01755			
10. 17	52. 35	9. 2	·1017					
	***	9. 15	·0999					
11. 9	48. 35	9. 30	·0990					
11. 32	55. 0	9. 45	·1014					
12. 13	21. 55. 45	10. 3	·1001					
12. 17	22. 1. 30	10. 15	·1004					
12. 27	21. 52. 15	10. 25	·1001					
12. 43	54. 45	10. 38	·1008					
13. 12	42. 20	11. 13	·1004					
13. 20	44. 15	11. 45	·1014					
13. 44	21. 58. 0	12. 5	·1012					
14. 30	22. 2. 20	12. 27	·1034					
14. 45	0. 30	12. 36	·1060					
15. 17	1. 40	12 45	·1034					
16. 15	0. 15	13. 11	·1025					
16. 45	1. 40	13. 18	·1013					
17. 8	2. 0	13. 36	·1015					
17. 25	3. 0	13. 53	·1009					
20. 30	0. 0	15. 17	·1026					
22. 30	2. 0		***					
23. 15	3. 30	18. 5	·1028					
23. 59	5. 55	18. 45	·1022					
		19. 17	·1024					
		19. 42	·1016					
		20. 40	·1022					
		23. 59	·1020					
Apr. 25		Apr. 25		Apr. 25		Apr. 25		
0. 15	22. 6. 0	0. 0	·1020			1. 40	49 ·0	51 ·5
1. 7	6. 30	0. 20	·1022	1. 0	·01742	3. 40	52 ·0	54 ·5
2. 25	22. 6. 30	4. 0	·1022		***	9. 40	58 ·0	58 ·0
7. 0	21. 59. 30	8. 10	·1020	2. 40:	·01625	23. 4	51 ·0	54 ·2
14. 44	22. 1. 30	11. 38	·1024	4. 17	·01395			
20. 49:	21. 56. 30	19. 40	·1030	6. 10:	·01180			

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. 25		Apr. 25		Apr. 25				
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 4. 30	22. 30	·1014	7. 26	·01090			
		23. 59	·1016	8. 27	·01130			
				10. 19:	·01045			
				12. 10	·01055			
				12. 45	·01055			
				14. 12:	·01070			
				16. 3	·01482			
				17. 16	·01268			
				18. 20:	·01342			
				19. 17	·01345			
				20. 47	·01346			
				22. 8	·01363			
				23. 23	·01365			
				23. 59	·01370			
Apr. 26		Apr. 26		Apr. 26		Apr. 26		
0. 13	22. 5. 45	0. 0	·1016	0. 52	·01405	9. 40	57 ·0	60 ·0
1. 55	22. 10. 30	1. 10	·1016	1. 38	·01460	21. 40	52 ·3	56 ·0
6. 52	21. 58. 40	2. 0	·1030	3. 53	·01225			
7. 20	22. 0. 0	2. 16	·1026	5. 38	·01100			
7. 56	21. 57. 40	2. 45	·1026	7. 31	·00955			
8. 5	59. 0	3. 14	·1032	8. 22	·01020			
8. 9	21. 57. 40	4. 8	·1030	9. 31	·00973			
8. 52	22. 0. 50	5. 35	·1030	10. 27	·00945			
	***	6. 30:	·1037	14. 7:	·01018			
15. 47	22. 0. 0	6. 53	·1030	16. 43	·01230			
16. 20	21. 59. 0	7. 23	·1027	20. 18:	·01460			
16. 47	22. 2. 10	7. 40	·1018	23. 59	·01370			
	***	8. 4	·1033					
19. 7	21. 54. 30	8. 15	·1028					
	***	9. 30	·1030					
19. 43	55. 20	10. 30	·1026					
20. 7	58. 30	12. 15	·1026					
20. 31	21. 57. 10	15. 23	·1037					
21. 7	22. 0. 0	15. 36	·1030					
21. 50	21. 59. 0	17. 8	·1035					
23. 52	22. 7. 0	17. 38	·1032					
		18. 15	·1040					
		19. 16	·1036					
		20. 8	·1017					
		20. 20	·1020					
		20. 58	·1010					
		21. 45	·1014					
		23. 30	·0998					
		23. 46	·1008					
		23. 56	·1004					
Apr. 27		Apr. 27		Apr. 27		Apr. 27		
0. 3	22. 8. 30	0. 30	·1006	0. 15	·01368	1. 40	55 ·5	58 ·0
1. 42	11. 0	0. 58	·1013	2. 17	·01270	3. 40	57 ·5	58 ·0
4. 1	8. 0	1. 28	·1002	4. 22	·01175	9. 40	57 ·3	59 ·0
4. 23	8. 45		***	5. 18	·01105	21. 50	51 ·0	53 ·0
4. 52	8. 0	2. 40	·1022	5. 57	·01056			
5. 4	9. 0	3. 23	·1024	7. 7	·01036			
6. 32	1. 45		***	7. 52	·01031			
8. 33	2. 30	5. 14	·1030	9. 12	·01005			
9. 8	22. 0. 0		***	10. 1	·01020			
9. 43	21. 55. 0	6. 0	·1026	10. 18	·01013			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr. 27		Apr. 27		Apr. 27				
h m	° ′ ″	h m		h m		h m	°	°
10. 15	21. 56. 10	6. 14	·1014	11. 22	·01050			
10. 23	53. 0	6. 32	·1026	11. 42	·01020			
10. 40	53. 20		***	12. 40	·01103			
11. 8	36. 35	7. 18	·1020	13. 0	·01118			
11. 36	52. 35		***	13. 46	·01185			
11. 47	52. 0	9. 10	·1033	14. 32	·01300			
12. 0	53. 25	9. 25	·1022	15. 0	·01340			
12. 21	47. 20	10. 0	·1034	15. 8	·01330			
13. 8	21. 58. 50	10. 43	·1021	15. 32	·01340			
13. 18	22. 6. 0	11. 0	·1060	16. 42	·01428			
13. 37	22. 4. 10	12. 13	·1006	18. 0	·01462			
13. 53	21. 59. 15	12. 44	·1019	20. 0	·01480			
	***	13. 30	·1004	20. 15	·01465			
14. 17	22. 0. 30		***	21. 45	·01454			
14. 42	8. 0	14. 46	·1012	23. 0	·01440			
15. 23	0. 40	15. 15	·1024	23. 59	·01430			
	***		***					
16. 21	1. 0	16. 30	·1034					
16. 44	22. 2. 0	17. 15	·1034					
17. 30	21. 59. 0	17. 30	·1026					
	***		***					
19. 12	22. 1. 30	22. 15	·1016					
	***	23. 0	·1008					
19. 48	21. 59. 0	23. 59	·1010					
	***							
20. 29	22. 3. 0							
	***							
21. 32	21. 59. 0							
23. 2	22. 2. 10							
23. 56	6. 30							
Apr. 28		Apr. 28		Apr. 28		Apr. 28		
0. 18	22. 6. 45	0. 0	·1000	0. 15	·01370	1. 40	53 ·0	55 ·0
0. 38	9. 0	0. 16	·1000	3. 7:	·01405	3. 40	48 ·0	53 ·0
2. 18	9. 0	0. 37	·1008		***	9. 40	57 ·0	58 ·5
3. 0	8. 0		***	5. 14	·01187	21. 40	51 ·5	54 ·0
3. 17	9. 10	2. 28	·1018	6. 23	·01105			
4. 17	3. 0	3. 30	·1010	7. 23	·01030			
7. 15	1. 30		***	8. 25:	·00995			
8. 24	22. 2. 45	3. 53	·0996	9. 22	·00912			
9. 2	21. 59. 45	4. 10	·1014	10. 20	·00885			
9. 28	52. 0	6. 15	·1028	10. 58	·00848			
9. 53	21. 55. 30	6. 30	·1036	12. 5	·00910			
10. 7	22. 0. 15	6. 54	·1026	14. 25:	·00988			
10. 17	21. 55. 30	7. 5	·1032	16. 28	·01180			
10. 35	22. 0. 10	7. 30	·1024	19. 7:	·01445			
10. 45	21. 59. 15	7. 45	·1032	21. 10	·01500			
10. 58	22. 0. 45	8. 0	·1027	22. 45	·01410			
11. 26:	21. 57. 50	8. 45	·1030	23. 59	·01378			
12. 1	22. 0. 50		***					
12. 22	21. 59. 40	9. 30	·1023					
13. 13	22. 1. 30	9. 53	·1014					
14. 43	1. 0	10. 15	·1015					
15. 8	3. 0	10. 30	·1036					
16. 13	0. 6	11. 8	·1016					
16. 22	1. 0	11. 30	·1018					
17. 12	0. 0	14. 55	·1026					
17. 38	22. 2. 0		***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Apr.28		Apr.28						
h m	° ′ ″	h m		h m		h m	°	°
18. 0	21. 59. 40	18. 30	·1024					
18. 51	22. 2. 15	19. 0	·1016					
19. 18	21. 59. 0		***					
19. 50	22. 3. 0	21. 35	·1022					
20. 17	0. 15	22. 33	·1010					
	***	23. 59	·1010					
21. 20	1. 0							
21. 46	3. 25							
22. 36	2. 30							
23. 59	7. 20							
Apr.29		Apr.29		Apr.29		Apr.29		
0. 34	22. 9. 0	0. 0	·1010	0. 45	·01355	1. 40	54 ·3	55 ·8
	***	1. 14	·1009	1. 34	·01362	3. 40	56 ·0	58 ·0
5. 30	3. 0	2. 33	·1016	2. 42	·01282	9. 40	58 ·0	61 ·0
5. 47:	22. 4. 25	2. 34	·1025	4. 15	·01040	23. 24	50 ·0	53 ·0
6. 28	21. 58. 0	3. 0	·1016	5. 7	·00995			
7. 3	22. 0. 35	5. 15	·1022	5. 10	·00980			
8. 15	21. 59. 50	6. 0	·1013	5. 16	·01000			
8. 25	58. 0	7. 0	·1026		***			
8. 30	59. 0	7. 20	·1018	6. 37	·01045			
8. 36	57. 40	8. 10	·1020	8. 12	·01032			
8. 45	59. 0	8. 23	·1016	8. 52	·00992			
8. 58	21. 55. 30	8. 29	·1023	9. 5	·01015			
9. 8	22. 7. 45	8. 35	·1019	9. 30	·00920			
9. 58	21. 53. 15	8. 40	·1022	10. 6	·00954			
10. 17	55. 30	8. 53	·1007	10. 34	·00945			
10. 38	52. 30	9. 6	·1038	11. 7	·00930			
11. 0	59. 30	9. 30	·1004	11. 23	·00950			
11. 21	21. 57. 0		***	11. 52	·00960			
11. 42	22. 2. 0	10. 15	·1014	15. 9:	·01285			
12. 13	21. 57. 10	10. 30	·1008	17. 40	·01720			
12. 32	21. 57. 0		***	19. 0	·01875			
	***	11. 2	·1014	21. 1	·01730			
13. 0	22. 0. 0	11. 20	·1006	22. 15:	·01631			
	***	11. 30	·1018	23. 59	·01565			
14. 5	21. 57. 30	11. 55	·1008					
15. 4	22. 0. 30		***					
	***	12. 55	·1015					
17. 1	21. 59. 30		***					
17. 52	22. 4. 0	14. 16	·1012					
	***	15. 10	·1017					
18. 45	0. 30	15. 58	·1028					
18. 55	3. 30	16. 8	·1025					
	***	16. 23	·1034					
20. 38	2. 50	16. 36	·1016					
	***		***					
21. 27	5. 0	17. 20	·1024					
22. 8	4. 0	17. 32	·1015					
23. 28	6. 15		***					
		18. 0	·1023					
		18. 15	·1000					
		18. 39	·1022					
		19. 9	·1026					
		19. 30	·1007					
		19. 55	·1014					
		20. 17	·1008					
			***					
		21. 26	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
		Apr.29						
h m	° ′ ″	h m		h m		h m	°	°
		22. 8	·1008					
		23. 5	·1017					
		23. 47	·1013					
		23. 59	·1014					
Apr.30		Apr.30		Apr.30		Apr.30		
0. 0	22. 7. 40	0. 0	·1014	0. 15	·01555	10. 45	54 ·0	58 ·0
0. 47	8. 45	0. 46	·1019	1. 3	·01565	21. 40	54 ·0	55 ·8
0. 53	10. 30	0. 50	·1024		***			
1. 29	12. 0	1. 14	·1018	2. 58	·01550			
1. 47	10. 45	1. 26	·1025	3. 13	·01575			
	***	1. 47	·1016	3. 38	·01555			
2. 4	12. 0	2. 5	·1025	3. 52	·01595			
	***	2. 13	·1020	4. 6	·01585			
2. 36	9. 15	2. 23	·1032	4. 17	·01595			
	***		***		***			
2. 44	10. 10	3. 6	·1016	6. 27	·01455			
3. 5	8. 30	3. 25	·1040	7. 28:	·01375			
	***	3. 54	·1008	8. 30	·01315			
3. 29:	22. 10. 20	4. 5	·1036	9. 32	·01254			
	***	4. 15	·1032	9. 57	·01180			
4. 6	21. 59. 30	4. 30	·1052	10. 14	·01188			
	***	4. 45	·1030	10. 50	·01165			
4. 55	22. 9. 0	4. 55	·1034	12. 28	·01090			
5. 55	22. 4. 30	5. 15	·1025	13. 31	·01085			
6. 12	21. 59. 30	5. 25	·1030	14. 34:	·01055			
6. 50	22. 1. 15		***	15. 45	·01095			
7. 15	21. 59. 0	6. 6	·1014	16. 18	·01085			
7. 23	22. 0. 35	6. 45	·1048	18. 12	·01195			
7. 34	0. 15	7. 44	·1021	19. 12:	·01183			
8. 42	3. 0		***	19. 55	·01150			
9. 20	0. 0	8. 36	·1027	20. 55	·01195			
9. 40	22. 5. 30	9. 10:	·1020	22. 7	·01040			
10. 3	21. 58. 30	9. 33	·1022	23. 59	·00908			
10. 28	22. 11. 30	9. 44	·1040					
11. 16	22. 1. 10	10. 14	·1004					
12. 11	21. 58. 30	10. 30	·1042					
12. 28	59. 20	11. 18	·1013					
12. 40	21. 57. 30	11. 30	·1021					
13. 2	22. 2. 0		***					
13. 50	4. 25	11. 55	·1024					
14. 38	0. 0	13. 7	·1012					
	***	14. 0	·1021					
15. 47	22. 2. 30	14. 50	·1008					
20. 1	21. 58. 30	15. 30	·1016					
20. 20	22. 0. 0		***					
20. 43	21. 59. 15	16. 34	·1012					
21. 5	22. 1. 15	17. 0	·1018					
21. 47	1. 0	21. 30	·1006					
23. 6	2. 30	21. 40	·1010					
23. 23	5. 0	23. 1	·1007					
23. 38	4. 30	23. 23	·1016					
23. 59	5. 30	23. 53	·1003					
		23. 59	·1004					
May 1		May 1		May 1		May 1		
0. 19	22. 6. 15	0. 0	·1005	0. 20	·00880	1. 40	56 ·0	58 ·0
1. 17	9. 15		***	1. 16	·00880	3. 40	58 ·0	59 ·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.
May 1		May 1		May 1		May 1		
h m	° ′ ″	h m		h m		h m	°	°
1. 58	22. 7. 0	0. 55	·1016	1. 38	·00860	9. 40	58 ·5	61 ·0
2. 47	9. 0		***	1. 48	·00875	21. 40	54 ·0	56 ·0
	***	1. 25	·1012	2. 47	·00945			
4. 35	6. 0		***		***			
5. 37	5. 45	1. 51	·1007	3. 38	·00924			
5. 54	2. 15	2. 45	·1029	4. 0	·00928			
6. 18	22. 4. 0	3. 0	·1022	5. 48:	·01060			
6. 25	21. 59. 30		***	7. 45	·01030			
6. 48	22. 1. 0	4. 23	·1021	10. 0	·01020			
7. 8	0. 0	4. 30	·1026	11. 7	·01060			
8. 17	3. 0	5. 0:	·1021	12. 36	·01108			
8. 38	1. 0	5. 45	·1036	14. 7:	·01206			
9. 24	3. 20		***	17. 8	·01495			
10. 28	22. 3. 0	6. 23	·1031	17. 18	·01475			
11. 6	21. 54. 30	6. 33	·1036	18. 8	·01508			
11. 39	22. 1. 45	7. 8	·1030	22. 16:	·01460			
12. 15	21. 57. 0		***	23. 59	·01415			
12. 35	59. 0	8. 5	·1032					
	***	8. 30	·1020					
14. 7	21. 57. 30	10. 50	·1032					
	***	11. 10	·1054					
14. 43	22. 1. 25	12. 0	·1032					
15. 33	22. 2. 30	12. 40	·1021					
16. 1	21. 59. 45	13. 0	·1026					
16. 56	22. 4. 45		***					
17. 43	22. 1. 30	13. 36	·1020					
	***	14. 0	·1024					
20. 47	21. 58. 0	14. 43	·1021					
23. 59	22. 7. 0	15. 50	·1026					
		16. 15	·1017					
		17. 8	·1027					
		18. 38	·1032					
		19. 20	·1027					
		19. 53	·1029					
			***					
		23. 5	·1014					
			***					
		23. 59	·1017					
May 2		May 2		May 2		May 2		
0. 6	22. 7. 0	0. 0	·1017	0. 30	·01392	1. 40	56 ·5	58 ·0
0. 34	8. 30	0. 23	·1016	1. 2:	·01364	3. 40	58 ·6	60 ·5
1. 3	8. 0	0. 27	·1022	1. 35	·01350	9. 40	60 ·0	62 ·3
2. 10	10. 0	0. 47	·1018	2. 12:	·01335	21. 40	55 ·5	58 ·0
2. 54	9. 35		***	2. 50	·01282			
4. 35	4. 30	2. 30	·1026	4. 31	·01033			
10. 15	2. 30	2. 49	·1016		·01050			
16. 56	2. 20		***	5. 40:	·01052			
16. 28	0. 40	3. 4	·1018	7. 22	·01035			
	***		***	8. 31	·01070			
18. 45	4. 35	3. 58	·1006	9. 42	·01055			
	***		***	10. 30	·01045			
19. 35	2. 15	4. 50	·1023	12. 25	·01087			
	***		***	14. 13:	·01170			
19. 46	4. 0	6. 13	·1034	16. 22	·01358			
	***		***	20. 0:	·01633			
20. 50	0. 50	7. 50	·1021	23. 59	·01630			
	***		***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force 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.
May 2		May 2				May 3		
h m	° ′ ″	h m		h m		h m	°	°
22. 43	22. 5. 30	9. 23	·1022					
23. 59	6. 0	11. 30	·1022					
		11. 54	·1021					
		12. 5	·1024					
		12. 27	·1022					
		17. 26	·1032					
		19. 0	·1020					
		19. 30	·1026					
			***					
		20. 35	·1018					
		21. 23	·1022					
		23. 5	·1002					
		23. 59	·1003					
May 3		May 3		May 3		May 3		
0. 0	22. 6. 10	0. 0	·1004	0. 0	·01628	1. 40	58 ·5	60 ·5
1. 16	8. 10	0. 10	·1004	2. 22:	·01450	3. 40	60 ·3	61 ·0
3. 46	6. 0		***	4. 30	·01123	9. 40	62 ·0	63 ·0
4. 37	2. 30	1. 42	·0998		·01150	21. 40	54 ·5	56 ·0
8. 0	3. 0		***	5. 35	·01128			
8. 37	1. 40	3. 15	·1006	7. 32:	·01083			
10. 16	3. 15	3. 30	·1016	9. 35	·01092			
	***		***	14. 38:	·01330			
13. 42	1. 45	4. 5	·1007	18. 47	·01962			
14. 51	4. 20	5. 0	·1020	18. 55	·01949			
15. 2	2. 45		***		***			
15. 35	5. 0	8. 30	·1017	21. 30	·01905			
16. 18	3. 45	9. 0	·1021		***			
17. 2	22. 4. 10		***	23. 21	·01835			
18. 16	21. 59. 0	14. 40	·1020	23. 59	·01768			
18. 42	22. 0. 20	15. 10	·1026					
	***	15. 30:	·1022					
20. 43	21. 57. 50	15. 55	·1026					
21. 28	21. 50. 40	16. 53	·1016					
22. 50	22. 2. 35		***					
23. 4	4. 30	18. 45	·1026					
23. 59	7. 30		***					
		19. 22	·1016					
			***					
		21. 0	·1021					
		22. 53	·1007					
		23. 2	·1014					
		23. 11	·1012					
		23. 39	·1013					
May 4		May 4		May 4		May 4		
0. 13	22. 7. 15	0. 0	·1012	0. 15	·01732	1. 40	58 ·0	61 ·0
1. 25	9. 30		***		***	3. 40	62 ·0	65 ·0
1. 43	12. 0	1. 0	·1002	2. 10	·01430	9. 30	64 ·5	66 ·0
	***	1. 39	·1001		***	21. 40	54 ·5	56 ·0
2. 48	8. 0	1. 47	·1014	3. 34	·01205			
3. 4	8. 0		***		***			
	***	2. 45	·1002	4. 52	·01200			
4. 28	3. 50	3. 15	·1004	5. 35	·01200			
7. 7	1. 45		***		***			
10. 22	2. 20	4. 16	·0998	7. 38	·01185			
11. 37	0. 0	4. 29	·1006	8. 14	·01160			
11. 47	1. 15		***	9. 43	·01172			

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

INDICATIONS OF THE MAGNETOMETERS

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 4		May 4		May 4				
h m	° ′ ″	h m		h m		h m	°	°
12. 8	22. 0. 0	4. 40	·1001	10. 13	·01170			
12. 33	2. 35	5. 10	·1009	11. 22	·01210			
12. 44	0. 0	5. 50	·1002	12. 12	·01245			
13. 2	22. 5. 25	6. 0	·1014	12. 47	·01270			
13. 22	21. 58. 35	6. 25	·1012	13. 0	·01292			
	***	6. 30	·1003	13. 25	·01276			
14. 3	50. 30	6. 45	·1017	14. 8	·01352			
14. 14	53. 30		***	14. 30	·01410			
14. 56	56. 0	7. 7	·1004	15. 53:	·01572			
15. 47	50. 30	7. 23	·1004	17. 47	·01924			
16. 4	51. 30	7. 27	·1016	18. 11	·01892			
	***	7. 31	·1003	19. 8	·01890			
16. 47	49. 30	7. 38	·1017	21. 5:	·01854			
17. 37	56. 20		***	23. 30	·01880			
	***	8. 10	·1001	23. 59	·01889			
18. 53	53. 0		***					
	***	10. 30	·1016					
19. 43	21. 57. 15	11. 0	·1011					
20. 38	22. 6. 0	11. 22	·1017					
	***	11. 36	·0999					
21. 58	6. 15	11. 47	·1009					
23. 14	10. 30	12. 3	·1010					
23. 59	11. 0	12. 8	·1001					
		12. 25	·1007					
		12. 43	·1020					
		12. 47	·1012					
		13. 0	·1025					
			***					
		13. 45	·1008					
			***					
		15. 53	·1021					
			***					
		17. 25	·1010					
		18. 25	·1012					
		18. 30	·1002					
			***					
		19. 0:	·1014					
		20. 0:	·0990					
		21. 5	·0998					
		22. 3	·0992					
		23. 0	·0996					
		23. 20	·0996					
		23. 59	·1003					
May 5		May 5		May 5		May 5		
0. 15	22. 11. 0	0. 0	·1003	0. 5	·01888	1. 40	57 ·5	60 ·0
1. 45	11. 30	0. 23	·1002	1. 5	·01880	3. 40	61 ·0	64 ·0
	***	1. 30	·1009	1. 10	·01848	9. 40	64 ·0	65 ·5
3. 31	6. 50	2. 17	·0992	2. 45:	·01650	21. 40	54 ·0	56 ·0
	***	2. 56	·0998	4. 8	·01280			
4. 17	1. 30	3. 25	·1016	4. 25	·01295			
4. 46	5. 10	3. 37	·1004	5. 47	·01248			
6. 13	3. 30	3. 57	·1016	6. 57	·01228			
6. 43	4. 0	4. 13	·1004	7. 10	·01235			
6. 57	1. 30	4. 35	·1014	7. 31	·01230			
7. 3	22. 1. 30	5. 15:	·0997	7. 43	·01240			
7. 31	21. 50. 35	5. 55	·1004	9. 37	·01220			
7. 53	50. 45		***	10. 24:	·01228			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 5		May 5		May 5				
h m	° ′ ″	h m		h m		h m	°	°
8. 8	21. 59. 10	6. 36	·1000	12. 5	·01315			
8. 43	55. 45	6. 46	·1004	14. 20:	·01570			
9. 0	57. 30	7. 0	·0996	16. 25	·01960			
9. 23	55. 40	7. 8	·1002	16. 33	·01945			
10. 5	21. 59. 50	7. 30	·0993	17. 30	·01956			
11. 2	22. 0. 0	7. 45	·1014	20. 18	·01945			
11. 13	21. 58. 0	8. 21	·0996	21. 42	·01925			
11. 36	22. 2. 45	8. 48	·1001		***			
12. 2	0. 25	9. 30	·0989	23. 59	·01930			
13. 26	22. 2. 0	10. 5	·1001					
19. 35	21. 57. 30	10. 15	·1001					
23. 46	22. 4. 30	10. 30	·0998					
		10. 54	·1004					
		11. 14	·1034					
		11. 50	·1004					
		14. 45	·1012					
		16. 6	·1012					
		18. 25	·1018					
		20. 30	·1017					
		22. 0	·1010					
		23. 10	·1008					
		23. 42	·1011					
		23. 59	·1016					
May 6		May 6		May 6		May 6		
0. 0	22. 5. 0	0. 0	·1014	0. 16	·01930	1. 40	57 ·0	58 ·5
1. 28	22. 5. 50	0. 25	·1017	1. 37	·01870	3. 40	59 ·0	61 ·7
17. 10	21. 59. 35	0. 34	·1014	2. 52	·01790	9. 40	60 ·0	63 ·0
20. 5	21. 59. 30		***	4. 7	·01675	23. 37	57 ·0	58 ·0
21. 0	22. 2. 10	5. 15	·1016	4. 57	·01570			
21. 5	0. 15	5. 20	·1010	8. 38:	·01272			
22. 7	5. 0	5. 40	·1016	11. 45	·01278			
23. 47	7. 30	6. 3	·1016	13. 24	·01370			
		6. 8	·1010	15. 13:	·01445			
		6. 26	·1012	16. 57	·01570			
		6. 35	·1020	18. 38	·01692			
			***	18. 47	·01668			
		7. 20	·1010	20. 16:	·01740			
		14. 25	·1022	23. 2	·01762			
		15. 35	·1019	23. 59	·01712			
		18. 50	·1021					
		21. 3	·1016					
		21. 37	·1020					
		21. 50	·1014					
		23. 30	·1010					
		23. 41	·1010					
May 7		May 7		May 7		May 7		
0. 3	22. 7. 35	0. 13	·1008	0. 15	·01698	9. 57	61 ·2	63 ·2
1. 38	8. 50	1. 30	·1010	1. 30	·01625	21. 40	55 ·8	57 ·0
5. 1	2. 45	4. 40	·1020	3. 19	·01475			
7. 13	1. 0	4. 54	·1019	4. 52	·01326			
10. 11	22. 2. 0	4. 59	·1013	6. 7	·01211			
18. 38	21. 56. 25	5. 15	·1018	7. 13:	·01095			
20. 16	21. 57. 0	5. 52	·1017	8. 31	·01070			
23. 38	22. 6. 0	6. 0	·1024	10. 23	·01063			
			***	12. 0	·01117			
		7. 17	·1014	13. 8	·01190			

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 7 h m		May 7 h m		h m	°	°
		7. 50	·1020	15. 34:	·01342			
		10. 45	·1021	17. 22	·01535			
		11. 0	·1018	18. 30	·01670			
		12. 20	·1023	20. 12	·01840			
		18. 30	·1020		***			
		20. 35	·1020	21. 0	·01878			
		23. 25	·1001		***			
		23. 45	·1003	21. 45	·01845			
					***			
				22. 45	·01825			
				23. 59	·01812			
May 8		May 8		May 8		May 8		
0. 10	22. 6. 30	0. 0	·1003	0. 30	·01802	1. 40	58 ·5	59 ·0
2. 13	7. 20	3. 15	·1018	1. 35	·01778	3. 40	59 ·5	62 ·5
5. 33	2. 30	3. 40	·1014	2. 13	·01713	9. 40	59 ·0	61 ·0
7. 45	1. 30	4. 5:	·1019	3. 0	·01610	21. 40	52 ·0	54 ·3
8. 40	22. 3. 15		***	5. 22:	·01405			
9. 21	21. 59. 30	5. 16	·1018	7. 45	·01380			
9. 49	59. 30		***	8. 35	·01380			
10. 3	56. 40	6. 13	·1026	9. 45	·01430			
10. 25	55. 30		***	10. 30	·01460			
10. 50	47. 25	6. 45	·1021	11. 5	·01495			
11. 18	50. 50	7. 8	·1030	12. 15	·01573			
11. 31	49. 35	7. 23	·1025	12. 42	·01613			
12. 8	52. 30	8. 0	·1026	13. 30	·01702			
12. 37	50. 30	8. 16	·1033	15. 38	·01925			
13. 19	56. 15		***	15. 48	·01887			
	***	9. 13	·1020	16. 26	·01845			
14. 23	59. 45	9. 35	·1026	16. 55	·01870			
14. 35	58. 30	10. 0	·1024	17. 0	·01852			
14. 43	59. 30	10. 13	·1027	17. 27	·01861			
15. 22	55. 20		***	18. 25	·01855			
15. 52	59. 30	11. 5	·1001	18. 52	·01841			
16. 27	53. 30	11. 16	·1006	20. 6	·01832			
16. 36	54. 45		***	20. 15	·01835			
17. 44	55. 0	12. 0	·1008	21. 6	·01812			
18. 23	53. 0	12. 30	·1008	21. 37	·01823			
18. 36	54. 45	12. 45	·1004	22. 27	·01785			
18. 57	53. 0	14. 46	·1016	22. 55	·01780			
	***	15. 30	·1013	23. 23	·01770			
19. 43	57. 30	16. 5	·1028	23. 32	·01753			
20. 0	21. 56. 50	16. 45	·1019	23. 59	·01785			
	***	17. 36	·1020					
20. 35	22. 1. 0		***					
	***	19. 23	·1007					
20. 50	21. 59. 0	20. 23	·1017					
	***		***					
21. 15	22. 2. 20	21. 0	·1009					
21. 54	1. 10	21. 25:	·1015					
22. 44	5. 25		***					
	***	22. 35	·1005					
23. 59	7. 30	23. 59	·1006					
May 9		May 9		May 9		May 9		
0. 16	22. 8. 15	0. 0	·1006	1. 0	·01650	1. 40	55 ·5	57 ·0
0. 57	9. 15	1. 15	·0996	1. 15	·01628	3. 40	58 ·5	59 ·0
1. 13	8. 30	1. 37	·1014	1. 33	·01632	10. 25	59 ·0	60 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
May 9 h m	° ′ ″	May 9 h m		May 9 h m		May 9 h m	°	°
1. 38	22. 12. 30	2. 3	·1000	3. 0	·01535	21. 40	52 ·2	55 ·0
2. 17	14. 0	2. 28	·1001	3. 30	·01470			
3. 13	10. 10	2. 42	·1004	4. 7	·01390			
	***	3. 9	·0993	4. 36	·01323			
4. 9	11. 30	3. 21	·0996	5. 18	·01202			
4. 19	9. 0	3. 40	·1028	5. 55	·01128			
4. 47	9. 45		***	6. 37	·01135			
4. 58	7. 0	4. 17	·0998	7. 23	·01083			
5. 11	9. 0		***	7. 47	·01090			
5. 20	4. 30	5. 14	·1022	8. 27	·01088			
6. 15	4. 0		***	8. 50	·01042			
6. 31	0. 30	5. 36	·1021	10. 13	·01055			
7. 19	22. 3. 15	6. 0	·1026	10. 34	·01062			
7. 47	21. 59. 15	6. 30	·1016	11. 2	·01063			
8. 17	59. 20	7. 0	·1021	11. 20	·01041			
8. 31	51. 25	7. 45	·1021	11. 38	·01060			
8. 38	57. 20	7. 52	·1025	11. 48	·01065			
9. 3	54. 30	8. 17	·1016	13. 30	·01158			
9. 30	55. 30	8. 34	·1040	14. 45	·01290			
9. 45	57. 50	9. 15	·0992	16. 14	·01462			
9. 53	57. 20	9. 57	·1006	17. 33	·01640			
10. 22	57. 35	10. 34	·1000	19. 13	·01841			
10. 30	55. 30	11. 10	·1016	19. 30	·01825			
11. 2	56. 0	11. 30	·1000	19. 48	·01802			
11. 35	47. 0	11. 45	·1015	20. 27	·01800			
12. 12	55. 15	12. 6	·1000	21. 53:	·01800			
12. 29	53. 30	12. 45	·1010	23. 57	·01695			
12. 46	54. 45	16. 53	·1013					
13. 35	53. 30	18. 10	·1008					
14. 8	54. 30	19. 0	·1015					
14. 56	58. 0	21. 50	·1009					
19. 26	56. 30	22. 45	·0999					
20. 32	21. 58. 30	23. 55	·1001					
23. 23	22. 9. 45							
23. 59	10. 15							
May 10		May 10		May 10		May 10		
0. 17	22. 9. 50	0. 0	·1004	0. 4	·01695	1. 40	57 ·0	58 ·5
1. 26	8. 45	0. 16	·1006	2. 12:	·01440	3. 40	59 ·5	61 ·0
2. 14	9. 15	1. 23	·1000	3. 30	·01123	9. 40	64 ·0	64 ·8
3. 49	3. 45	2. 14	·1004	3. 53	·01103	21. 40	55 ·0	57 ·0
7. 39	22. 1. 30		***	4. 8	·01125			
8. 7	21. 58. 15	2. 45	·0997	4. 43	·01120			
	***	3. 30	·1000	5. 5	·01130			
9. 44	22. 3. 30	3. 54	·0994	5. 35	·01120			
9. 47	5. 0	4. 23	·1001	5. 56	·01132			
10. 27	0. 0	4. 40	·1001	7. 5	·01132			
11. 53	22. 1. 35	5. 5	·1010	7. 33	·01123			
	***	5. 40	·1006	8. 15	·01155			
19. 4	21. 56. 30	6. 0	·1015	9. 35	·01132			
	***	6. 33	·1009	10. 7	·01115			
19. 50	59. 30	7. 5	·1010	10. 45	·01132			
	***	7. 45	·0994	11. 22	·01170			
20. 58	21. 58. 35	8. 10	·1002	13. 20:	·01310			
21. 53	22. 4. 30		***	15. 0	·01520			
23. 12	8. 0	9. 45	·1004	16. 0	·01670			
23. 59	8. 15	10. 5	·1000	18. 4	·01955			
		10. 11	·1010	18. 38:	·01918			
			***	19. 13	·01915			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 10 h m		May 10 h m		h m	°	°
		10. 53	·1004	20. 25	·01877			
		11. 8	·1005	21. 0	·01868			
			***	21. 27	·01855			
		11. 45	·1011	22. 5	·01852			
		12. 8	·1010	22. 45	·01852			
		12. 18	·1002	23. 59	·01850			
		12. 30	·1012					
		12. 38	·1004					
		12. 50	·1003					
		12. 54	·1010					
		13. 7	·1005					
		13. 15	·1013					
		13. 45	·1014					
		13. 51	·1008					
		13. 59	·1016					
		14. 4	·1003					
		14. 10	·1009					
		14. 40	·1006					
		14. 57	·1010					
		17. 45	·1010					
			***					
		18. 15	·1012					
		18. 35	·1007					
		19. 25	·1016					
		21. 15	·1006					
		21. 28	·0998					
		21. 45	·1014					
		22. 10	·1010					
		23. 0	·1014					
		23. 20	·1012					
		23. 59	·1020					
May 11		May 11		May 11		May 11		
0. 14	22. 9. 30	0. 0	·1021	0. 15	·01839	1. 40	58 ·0	59 ·4
1. 31	11. 0	0. 20	·1024	2. 7:	·01745	3. 40	61 ·0	63 ·0
	***	0. 29	·1034	3. 48	·01445	9. 40	53 ·5	55 ·5
4. 28	5. 45	1. 45	·1022	5. 7	·01183	21. 40	54 ·5	57 ·0
	***	2. 3	·1024	5. 17	·01198			
6. 0	4. 30	2. 19	·1014	5. 48	·01210			
	***	2. 47	·1021	6. 10	·01215			
6. 47	0. 30	3. 5	·1019	6. 37	·01222			
7. 13	2. 20	3. 55	·1000	7. 7	·01232			
9. 40	2. 30		***	7. 45	·01217			
10. 47	22. 0. 30	4. 55	·1018	8. 31	·01190			
11. 8	21. 53. 0	5. 20	·1016	9. 6	·01185			
11. 40	52. 30	5. 32	·1020	10. 5	·01165			
12. 11	55. 30	5. 44	·1014	10. 15	·01155			
13. 34	58. 30	5. 58	·1020	11. 15	·01175			
14. 12	56. 15	6. 23	·1003	11. 30	·01180			
16. 53	57. 15	6. 44	·1001	14. 33:	·01170			
18. 6	21. 56. 30	6. 50	·0996	16. 55	·01759			
21. 0	22. 0. 0	7. 12	·1005	17. 56	·01935			
21. 39	3. 0	7. 31	·1003	18. 6	·01915			
22. 17	3. 30	8. 5	·1008	19. 3	·01905			
23. 59	9. 0	8. 30	·1008	19. 37	·01887			
		9. 50	·1012	20. 6	·01875			
		10. 51	·1001	21. 0	·01875			
		11. 13	·1019	22. 6	·01905			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 11 h m		May 11 h m		h m	°	°
		11. 43	·1004	23. 30	·01910			
		12. 23	·1000	23. 59	·01905			
		12. 45	·1000					
		13. 14	·1005					
		13. 40	·1020					
		14. 0	·1020					
		14. 55	·1007					
		15. 30	·1012					
		16. 0	·1010					
		17. 15	·1016					
		18. 45	·1015					
		21. 45	·0999					
		22. 17	·1002					
		23. 0	·1000					
		23. 59	·1007					
May 12		May 12		May 12		May 12		
0. 10	22. 9. 40	0. 0	·1007	0. 30	·01875	1. 40	58 ·5	61 ·0
1. 10	11. 30	0. 45	·1009	1. 35	·01750	3. 40	62 ·0	64 ·5
2. 34	10. 0	1. 10:	·1015	2. 22	·01583	9. 40	67 ·0	69 ·0
2. 44	12. 30	2. 6	·1004	3. 13	·01412	21. 40	59 ·5	61 ·0
3. 2	9. 0	2. 46	·1014	4. 3	·01223			
4. 53	5. 0	3. 25	·1007	4. 15	·01245			
	***		***	4. 51	·01272			
8. 8	2. 15	3. 55	·1010	6. 5	·01250			
8. 24	3. 25	4. 5	·1004	6. 52	·01230			
8. 50	0. 0	4. 38	·1004	7. 50	·01228			
9. 25	22. 1. 0	4. 50	·1009	8. 44	·01250			
11. 45	21. 59. 30		***	10. 12	·01220			
12. 18	22. 1. 0	6. 5	·1006	10. 58	·01228			
12. 47:	6. 0		***	12. 42	·01290			
13. 47:	0. 0	6. 45	·1013	13. 17	·01318			
14. 50:	2. 45	6. 52	·1006	13. 45	·01367			
15. 47	22. 0. 30	7. 35	·1008	14. 37	·01472			
19. 26	21. 57. 10		***	15. 42	·01621			
22. 38	22. 4. 40	8. 7	·1004	16. 43	·01770			
23. 48	8. 35	8. 30	·0993	17. 52	·01918			
		8. 58	·0992	18. 43	·02024			
		9. 45	·0994	19. 50	·01985			
		10. 7	·1000	20. 38	·01913			
		10. 50	·0998	21. 30	·01942			
		11. 14	·1003	22. 18	·01950			
		11. 40	·0994	23. 59	·01875			
		12. 26	·0995					
		13. 0:	·1007					
		13. 30	·1006					
		16. 35	·1006					
		17. 20	·1010					
		22. 45	·0986					
		23. 40	·0990					
May 13		May 13		May 13		May 13		
0. 12	22. 9. 35	0. 5	·0992	0. 30	·01840	1. 40	61 ·5	64 ·0
1. 43:	13. 35	1. 5	·0992	2. 20:	·01730	3. 40	63 ·5	65 ·0
7. 9	0. 30	1. 43	·0996	3. 15	·01610	9. 40	64 ·5	67 ·5
9. 4	2. 20	2. 5	·0992	5. 3:	·01390	23. 31	60 ·5	62 ·5
15. 55	22. 2. 50	2. 15	·0996	7. 10	·01252			
17. 48	21. 59. 20	2. 27	·0994	8. 28	·01187			

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 13		May 13		May 13				
h m	° ′ ″	h m		h m		h m	°	°
20. 52	21. 58. 30	2. 48	·0998	9. 5	·01201			
22. 4	22. 1. 0	3. 16:	·0992	10. 45:	·01182			
23. 59	8. 0	3. 50	·0999	11. 58	·01210			
		4. 7	·0994	13. 50	·01310			
		7. 6	·1010	15. 20:	·01400			
		9. 10	·1004	17. 19	·01642			
		10. 10	·1007	18. 15:	·01755			
		14. 0	·1007	19. 30	·01913			
		14. 30	·1010	19. 37	·01945			
		19. 50	·1010	20. 16	·01945			
		23. 0	·0992	21. 5	·01937			
		23. 24	·0993	22. 0	·01940			
		23. 59	·0990	23. 7	{·01950 ·01870			
				23. 59	·01832			
May 14		May 14		May 14		May 14		
0. 37	22. 9. 30	0. 0	·0990	1. 0	·01685	9. 40	66 ·0	68 ·0
1. 31	10. 30	1. 34	·0993	1. 33	·01580	21. 40	61 ·5	63 ·0
2. 40	9. 40	2. 8	·0988	2. 20	·01430			
6. 15	22. 2. 0	2. 32	·0988	3. 15	·01245			
7. 7	21. 59. 0	2. 56	·0996	4. 4:	·01306			
7. 47	21. 59. 40	3. 20	·0987	5. 7	·01290			
10. 0	22. 0. 0	4. 5	·0988	5. 48	·01282			
10. 32	21. 57. 0	4. 18	·0993	6. 45	·01278			
11. 33	21. 59. 30	4. 40	·0988	7. 57:	·01249			
16. 38	22. 0. 0	5. 10	·0990	9. 0	·01265			
17. 0	21. 58. 30	5. 22	·0994	10. 37:	·01305			
17. 32	58. 45	5. 38	·0985	11. 32	·01379			
18. 22	55. 0		***	12. 15	·01435			
19. 6	57. 10	6. 40	·0991	13. 13	·01515			
20. 29	57. 10	7. 0	·1000	14. 4	·01618			
20. 37	55. 15	7. 29	·1002	15. 8	·01755			
21. 2	58. 30	8. 7	·0996	17. 0	·02005			
21. 15	56. 30	9. 6	·0998	17. 15	·01988			
22. 1	21. 56. 40	9. 18	·0996	17. 57	·01985			
22. 32	22. 1. 30	9. 50	·0998	18. 45	·01985			
22. 41	21. 58. 30	10. 35	·1006	20. 35	·01968			
22. 47	22. 4. 30	11. 5	·1000	21. 58	·01960			
	***	12. 30	·1000	22. 15	·01940			
23. 59	9. 0	16. 32	·1012	22. 40	·01955			
		16. 40	·1018	22. 47	·01930			
		18. 20	·1021	22. 55	·01940			
		19. 45:	·1012	23. 45	·01875			
		20. 34	·1011	23. 59	·01832			
			***					
		21. 43	·1007					
		22. 10	·1012					
		22. 43	·0987					
		22. 46	·0987					
		22. 55	·0996					
		23. 2	·0988					
			***					
		23. 20	·0993					
		23. 45	·0987					
		23. 50	·0998					
		23. 59	·0994					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		May 15		May 15		
h m	° ′ ″	h m		h m		h m	°	°
0. 21	22. 12. 30	0. 0	·0993	0. 30	·01784	1. 40	64 ·5	67 ·0
	***	0. 15	·0977		***	3. 40	68 ·3	69 ·0
1. 44	10. 35		***	2. 30	·01515	9. 40	68 ·0	69 ·8
1. 54	12. 15	0. 46	·0968	3. 7	·01420	21. 40	59 ·0	61 ·0
3. 23	13. 40	1. 0	·0990		***			
3. 35	19. 45	1. 7	·0978	3. 55	·01320			
4. 1	13. 0	1. 23	·1004	4. 10	·01312			
4. 17	5. 10	1. 40	·0987	4. 22	·01335			
4. 28	5. 10	1. 58	·1010	4. 48	·01325			
4. 47	10. 45	2. 8	·1002	4. 58	·01310			
	***		***	5. 10	·01290			
5. 18	8. 30	2. 32	·1007	5. 17	·01305			
5. 26	10. 30	2. 45	·1002	5. 21	·01290			
	***	3. 5	·1021	5. 30	·01292			
5. 51	5. 45	3. 25	·1026	5. 50	·01280			
5. 58	6. 20	3. 38	·1015	6. 8	·01300			
6. 32	4. 10	3. 45	·1019	6. 22	·01290			
6. 52	7. 10	4. 14	·0969	6. 35	·01313			
7. 8	22. 2. 15	4. 53	·1010	6. 50	·01310			
8. 8	21. 54. 10	5. 0	·1001	7. 43	·01350			
8. 25	56. 50		***	8. 8	·01335			
8. 31	55. 0	5. 18	·1010	8. 43	·01320			
8. 38	55. 0	5. 29	·1001	9. 5	·01315			
8. 51	45. 15	5. 31	·1008	9. 30	·01248			
9. 7	54. 45	5. 51	·0983	10. 6	·01300			
9. 18	50. 30	6. 14	·1004	10. 36	·01300			
9. 22	50. 50	6. 23	·0996	11. 37	·01398			
9. 47	49. 0	6. 38	·1008	11. 50	·01351			
10. 22:	53. 30	6. 53	·0994	12. 4	·01395			
10. 43	55. 0	7. 4	·0998	12. 43	·01475			
10. 55	55. 0	7. 19	·0990	13. 57	·01550			
11. 9	52. 40	7. 29	·0992	14. 18	·01638			
11. 33	54. 0	7. 34	·0987	14. 23	·01635			
11. 46	59. 45	7. 55	·0990	14. 50	·01708			
12. 2	52. 0	8. 9	·0984	16. 0	·01980			
12. 8	52. 20	8. 20	·0992	16. 57	·02000			
12. 22	50. 30	8. 27	·0986	18. 0	·02000			
12. 53	55. 0	8. 32	·0990	19. 6	·01987			
13. 17	55. 0	8. 45	·0975		***			
13. 32	51. 30	9. 10	·1000	20. 15	·01990			
13. 42	53. 0	9. 45	·0956	21. 37	·01973			
13. 58	50. 10	10. 16	·0978	22. 50	·01980			
14. 17	56. 20	10. 43	·0968	23. 31	·01965			
14. 42	53. 25	10. 47	·0974	23. 59	·01953			
	***	10. 58	·0966					
15. 40	58. 0	11. 5	·0976					
	***	11. 16	·0975					
17. 12	56. 0	11. 45	·0995					
17. 29	58. 0	11. 54	·0986					
19. 31	56. 40	12. 10	·1004					
	***	12. 32	·0996					
21. 9	21. 59. 0	12. 52	·1015					
	***	13. 10	·1003					
22. 38	22. 0. 0	13. 25	·1012					
23. 59	4. 30	13. 50	·0982					
		14. 24:	·1002					
		14. 49	·1010					
		15. 23	·0997					
			***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	May 15 h m		h m		h m	°	°
		17. 0	·1005					
		17. 44	·1001					
		18. 3	·1004					
		19. 39	·1002					
		20. 21	·1008					
		20. 32	·1001					
		21. 30	·1001					
		22. 0	·1006					
		23. 5	·1003					
		23. 14	·1008					
		23. 27	·1002					
		23. 34	·1006					
		23. 45	·1001					
		23. 59	·1004					
May 16		May 16		May 16		May 16		
0. 30	22. 5. 20	0. 0	·1003	1. 0	·01920	1. 40	60 ·8	63 ·0
2. 16	6. 0	0. 50	·1006	1. 59	·01870	3. 40	63 ·0	66 ·5
	***	1. 5	·1015	2. 40	·01792	9. 40	64 ·0	67 ·5
3. 37	8. 25	1. 33	·1014	2. 57	·01780	21. 40	54 ·0	57 ·0
3. 52	7. 30	2. 0	·1018	3. 23	·01700			
4. 23	9. 30	2. 15	·1016	5. 37	·01545			
4. 38	6. 35	2. 30	·1024	7. 7	·01345			
4. 44	7. 10	2. 44	·1019	7. 22	·01335			
4. 51	3. 35	3. 0	·1037	7. 52	·01305			
5. 6	3. 35		***	8. 58	·01262			
5. 17	6. 0	3. 15	·1028	10. 28	·01210			
5. 26	4. 0	3. 46	·1044	10. 32	·01220			
5. 37	4. 45	4. 14	·1026	11. 3	·01128			
5. 44	2. 30	4. 30	·1034	11. 23	·01200			
6. 18	2. 30	4. 50	·1020	11. 50	·01260			
6. 55	5. 0		***	13. 31	·01470			
7. 10	3. 10	5. 6	·1022	14. 13	·01545			
7. 40	22. 3. 0	5. 14	·1017	14. 37	·01625			
8. 29	21. 58. 25	5. 30	·1028	15. 7	·01680			
8. 40	54. 0		***	16. 0	{·01870			
8. 43	54. 40	6. 17	·1001		{·01853			
8. 55	52. 0		***	17. 53	·01897			
9. 12	56. 25	7. 0	·1024	18. 1	·01870			
9. 29	52. 40	7. 7	·1021	18. 22	·01905			
9. 38	57. 0	7. 15	·1030	21. 23	{·01890			
9. 52	53. 30	7. 42	·1010		{·01905			
10. 4	55. 40	7. 59	·1021	22. 33	·01875			
10. 17	21. 54. 30	8. 5	·1016	23. 28:	·01880			
10. 45	22. 10. 30		***	23. 59	·01860			
11. 2	21. 53. 40	8. 23	·1021					
11. 20	57. 10	8. 32	·1012					
11. 28	55. 35	8. 40	·1021					
11. 38	57. 30	8. 54	·1006					
12. 40	58. 0	9. 6	·1010					
13. 21	21. 56. 50	9. 29	·0996					
14. 5	22. 5. 30	9. 38	·1000					
14. 19	4. 35	9. 45	·0994					
14. 35	9. 0	10. 2	·0995					
15. 0	22. 3. 0	10. 20	·0984					
15. 54	21. 57. 15	10. 37	·1021					
16. 7	59. 30	11. 0	·0970					
	***	11. 16	·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.
May 16 h m	° ′ ″	May 16 h m		h m		h m	°	°
17. 54	21. 57. 0	11. 30	·0995					
	***	11. 45	·1008					
19. 10	22. 0. 35	12. 0	·1004					
	***		***					
20. 34	21. 59. 25	13. 16	·1008					
22. 23	22. 7. 0	13. 29	·1002					
23. 59	7. 0	13. 53:	·1001					
		14. 10	·0996					
		15. 13:	·1030					
			***					
		15. 57	·1020					
		16. 45	·1022					
		16. 51	·1031					
		17. 5	·1024					
			***					
		19. 2	·1010					
		20. 23:	·1021					
		21. 46	·1000					
			***					
		22. 17	·0989					
			***					
		22. 57	·1000					
		23. 59	·1000					
May 17		May 17		May 17		May 17		
0. 13	22. 7. 40	0. 0	·1000	0. 28	·01800	1. 40	58 ·0	60 ·5
1. 5	6. 15	1. 15	·1006	1. 7	·01740	3. 40	63 ·0	65 ·0
2. 17	7. 0		***	2. 30	·01420	9. 40	66 ·0	68 ·5
3. 16	2. 25	1. 36	·0998	3. 28	·01155	21. 40	59 ·0	61 ·5
3. 58	3. 0	1. 49	·1002		***			
4. 40	1. 30	2. 10	·0991	4. 37	·01188			
4. 53	3. 0		***	4. 50	·01200			
5. 55	22. 1. 0	2. 55	·0989	5. 22	{·01200			
6. 23	21. 53. 25	3. 44	·0998		{·01240			
6. 33	55. 0	4. 12	·0996		***			
	***		***	7. 43	·01225			
7. 35	54. 0	4. 44	·0997	8. 38:	·01182			
7. 47	56. 30	5. 0	·1008	9. 29	·01170			
8. 43	57. 20	5. 30	·0992	10. 10	·01140			
9. 15	55. 0	5. 57	·1005	10. 50	·01160			
9. 49	49. 30	6. 24	·0983	12. 0	·01192			
10. 10	52. 0	6. 38	·0992	13. 20	·01243			
10. 22	51. 30		***	14. 28	·01380			
10. 35	53. 45	7. 2	·0993	15. 8	·01480			
10. 48	53. 30	7. 13	·1002	16. 10	·01650			
10. 58	56. 0	7. 30	·0994	17. 12	·01820			
12. 4	57. 20	7. 45	·1002	18. 10	·02000			
12. 43	56. 45	7. 55	·0997	19. 57	·01975			
12. 55	58. 0	8. 16	·1001	21. 0	·01970			
13. 21	21. 54. 15		***	21. 46	·01955			
14. 36	22. 1. 40	9. 25	·0989	23. 0	·01964			
17. 47	21. 57. 0	9. 57	·0997	23. 59	·01965			
20. 33	21. 56. 0	10. 23	·0984					
22. 24	22. 1. 0		***					
23. 59	7. 0	11. 0	·0993					
		11. 23	·0988					
		12. 34	·0994					
		13. 0:	·1001					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 17 h m		h m		h m	°	°
		13. 45	·0987 ***					
		15. 30	·1002					
		17. 30	·1000					
		19. 0	·1002					
		20. 30	·0998					
		23. 35	·1000					
May 18		May 18		May 18		May 18		
0. 18	22. 7. 40	1. 0	·1006	1. 30	·01990	1. 40	59 ·5	62 ·0
2. 10	8. 15	1. 38	·1013	2. 50	·02015	3. 40	59 ·0	62 ·6
3. 9	7. 20		***	3. 17	·02010	9. 50	60 ·0	62 ·7
4. 30	3. 20	2. 24	·1010	4. 15	·02020	21. 40	53 ·5	55 ·0
8. 17	22. 1. 30	3. 0	·1018	5. 27	·02010			
9. 46	21. 59. 10	3. 36	·1005	6. 22	·02010			
12. 27	22. 0. 10		***	7. 32	·02024			
12. 54	2. 45	4. 55	·1022	8. 47	·02050			
13. 10	2. 0	5. 52	·1016	11. 12	·02055			
13. 23	3. 40	8. 6	·1026	12. 52	·02027			
14. 43	0. 0	12. 15	·1019	13. 0	·01990			
17. 33	22. 1. 0	12. 31	·1016	13. 22	·02000			
19. 50	21. 58. 40		***	14. 38	·01940			
21. 37	22. 0. 15	13. 50	·1026	15. 46	·01927			
23. 5	4. 35	14. 45	·1022	16. 36	·01920			
23. 59	7. 0	19. 6	·1033	17. 28	·01921			
		23. 59	·0998	18. 30	·01891			
				20. 20	·01865			
				21. 4	·01845			
				22. 45	·01890			
				23. 13	·01873			
				23. 32	·01825			
				23. 59	·01770			
May 19		May 19		May 19		May 19		
0. 39	22. 7. 30	0. 0	·0998	0. 48	·01625	1. 40	57 ·5	61 ·0
2. 15	6. 30	2. 0	·0998	1. 45	·01365	3. 40	62 ·0	64 ·0
5. 19	22. 0. 0	2. 6	·0996	2. 46	·01020	9. 40	65 ·8	67 ·0
7. 16	21. 59. 25	2. 26	·1002	3. 38	·01085	21. 40	56 ·5	57 ·5
	***	3. 5	·0998	4. 40	·01100			
8. 10	22. 1. 0	4. 7	·0997	5. 45	·01130			
10. 7	21. 57. 45	4. 25	·1003	6. 17	·01130			
10. 53	59. 20	4. 59	·1003	6. 58	·01118			
11. 54	59. 0		***	7. 53	·01105			
12. 46	55. 0	6. 23	·1018	8. 20	·01087			
13. 12	57. 30	7. 46	·1007	8. 53	·01100			
14. 7:	53. 0	8. 30:	·1013	10. 52:	·01107			
15. 20	56. 45	9. 55:	·0994	13. 18	·01240			
16. 22	54. 40	10. 29	·0998	14. 2	·01300			
16. 45	57. 0	12. 5	·0998	15. 3	·01470			
17. 47	53. 30	12. 20	·1004	16. 7	·01680			
18. 47	52. 30	12. 55	·1000	17. 16	·01921			
	***	13. 45	·1014	17. 20	·01900			
21. 21	59. 0	14. 30	·1007	18. 22	·01878			
22. 10	21. 59. 30	15. 30	·1007	19. 50	·01855			
22. 47	22. 3. 0	16. 2	·1016	21. 45	·01905			
23. 32	4. 0	16. 29	·1015	22. 20:	·01015			
23. 58	6. 0	17. 5	·1022	22. 50	·01880			
		18. 21	·1015	23. 10	·01842			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	May 19 h m		h m		h m	°	°
		19. 14	·1020	23. 59	·01750			
		19. 46	·1007					
		20. 6	·1012					
		20. 23	·1004					
		21. 27	·1010					
		23. 15	·1000					
		23. 59	·1000					
May 20		May 20		May 20		May 20		
0. 13	22. 7. 0	0. 14	·1004	0. 15	·01735	1. 40	60 ·8	64 ·0
0. 55	8. 0	0. 27	·0998	1. 47:	·01460	3. 40	64 ·0	67 ·5
1. 32	7. 0	0. 47	·1001	3. 3	·01123	9. 40	68 ·0	68 ·0
1. 46	8. 20	1. 19	·0992	3. 50	·01172	23. 7	59 ·0	61 ·0
2. 11	6. 0	1. 44	·1000	4. 38	·01188			
5. 53	1. 0	2. 5	·0993	7. 12	·01142			
6. 45	22. 0. 30		***	8. 22	·01145			
7. 25	21. 53. 40	2. 53	·1000	9. 15:	·01179			
8. 29	52. 30	3. 6	·0998	10. 22	·01152			
9. 3	56. 40		***	10. 33	·01162			
9. 43	59. 0	4. 34	·1001	11. 7	·01100			
10. 30	52. 20	4. 55	·0996	13. 33	·01342			
10. 42	21. 59. 30	5. 7	·1003	15. 13:	·01545			
11. 2	22. 1. 0	5. 33	·1000	17. 23	·01970			
11. 26	21. 51. 30	6. 16	·1010	17. 35	·01952			
12. 2	58. 20	6. 34	·1010	18. 30	·01960			
12. 28	55. 25	7. 8	·1000	20. 4	·01924			
13. 32	58. 0		***	21. 30	·01918			
13. 57	21. 57. 0	7. 51	·1006	22. 15	·01922			
14. 30	22. 2. 0	8. 5	·1014	23. 59	·01942			
15. 1	22. 1. 50	8. 23	·1003					
15. 28	21. 59. 20	9. 6	·1001					
17. 16	55. 0	9. 30	·1002					
19. 58	21. 54. 25	10. 4	·1010					
23. 59	22. 7. 30	10. 25	·1004					
		10. 37	·1032					
		11. 0	·1018					
		11. 19	·0992					
		11. 50:	·1007					
		12. 14	·1000					
			***					
		13. 38	·1010					
		13. 54	·1004					
		14. 30	·1005					
		15. 15:	·1015					
		16. 15	·1008					
		17. 36	·1015					
		22. 34	·1000					
		23. 59	·1001					
May 21		May 21		May 21		May 21		
0. 10	22. 8. 30	0. 0	·1001	0. 30	·01928	9. 54	63 ·4	65 ·0
1. 17	9. 35	0. 8	·1001	2. 25:	·01828	21. 40	59 ·0	62 ·0
3. 3	3. 0	0. 40	·0993	4. 9	·01600			
5. 50	4. 0	1. 18	·1004	4. 45	·01497			
7. 0	0. 0	1. 37	·0996	5. 22	·01418			
7. 12	22. 2. 20		***	6. 7	·01340			
7. 34	21. 58. 0	2. 20	·0999	6. 44	·01311			
7. 56	59. 25	2. 29	·0994	6. 55	·01278			

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 21		May 21		May 21				
h m	° ′ ″	h m		h m		h m	°	°
8. 42	21. 58. 15	3. 26	·1017	7. 22	·01252			
9. 8	59. 45	4. 6	·1006	7. 42	·01257			
9. 29	21. 58. 10	4. 50:	·1012	8. 25	·01260			
9. 45	22. 0. 35	5. 28	·1026	8. 44	·01265			
10. 8	21. 59. 0	6. 20	·1014	9. 50	·01255			
10. 21	22. 0. 50	6. 48	·1041	10. 8	·01262			
10. 37	21. 59. 30	7. 26	·1018	10. 35	·01230			
11. 2	22. 2. 30	7. 38	·1026	11. 6	·01220			
11. 38	21. 53. 25	8. 6	·1014	12. 44	·01345			
12. 29	56. 30		***	13. 30	·01390			
12. 57	57. 0	9. 16	·1002	14. 22	·01445			
13. 18	21. 55. 0	9. 35	·1013	15. 15	·01515			
14. 0	22. 0. 35	9. 53	·1007	16. 18	·01665			
14. 15	21. 59. 30	10. 20	·1040	16. 57	·01746			
14. 57	22. 5. 25	11. 23	·1005	17. 43	·01830			
15. 47	21. 55. 30	11. 45	·1014	17. 46	·01745			
16. 6	21. 55. 35	12. 16	·1010	19. 37	·01915			
16. 40	22. 1. 30	12. 55:	·1021	19. 43	·01893			
18. 2	21. 57. 10	13. 20	·1018	20. 37	·01890			
19. 16	21. 59. 0	13. 30	·1004	22. 18	·01890			
20. 8	22. 1. 50	13. 50	·1002	23. 59	·01868			
21. 34	1. 0	14. 29	·1017					
23. 58	8. 0	14. 46	·1012					
		15. 21	·1032					
		16. 7	·1005					
		17. 18:	·1024					
		18. 0	·1017					
		21. 40	·1001					
		23. 59	·1009					
May 22		May 22		May 22		May 22		
0. 25	22. 8. 30	0. 23	·1009	0. 30	·01849	1. 40	60 ·7	63 ·0
1. 44	9. 15	1. 30	·1014	1. 30	·01840	3. 40	60 ·5	63 ·0
1. 55	8. 30	1. 46	·1019	2. 15	·01811	9. 40	64 ·0	65 ·0
3. 2	8. 35	2. 0	·1013	3. 20	·01756	21. 40	58 ·0	61 ·0
5. 54	4. 20		***	4. 32	·01680			
8. 16	2. 0	3. 5	·1022	8. 42:	·01463			
10. 16	3. 0	3. 39	·1013	12. 0	·01490			
10. 32	2. 0	3. 56	·1018	14. 23:	·01540			
11. 23	3. 20	4. 8	·1016	16. 33	·01690			
12. 19	2. 0	4. 20	·1022	17. 53	·01756			
14. 13	3. 30	4. 30	·1018	21. 18	·01889			
14. 45	2. 30	4. 45	·1022	23. 59	·01882			
15. 30	2. 35	5. 20	·1016					
16. 25	22. 0. 0	5. 47	·1021					
18. 45	21. 58. 0		***					
22. 13	22. 3. 0	8. 45	·1022					
23. 45	7. 0	9. 22	·1015					
		10. 12	·1020					
		10. 32	·1016					
		11. 15	·1020					
		12. 49	·1017					
		14. 0	·1023					
		19. 28	·1021					
		22. 44	·1010					
		23. 45	·1018					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 23		May 23		May 23		May 23		
h m	° ′ ″	h m		h m		h m	°	°
0. 8	22. 7. 0	0. 10	·1018	0. 15	·01885	1. 40	60 ·0	62 ·0
1. 2	8. 25	1. 23	·1019	1. 30	·01858	3. 40	62 ·8	65 ·0
3. 10	6. 15	2. 30	·1028	2. 43	·01736	9. 40	65 ·0	67 ·0
5. 2	1. 10		***	3. 13	·01660	21. 40	57 ·0	58 ·0
10. 33	22. 1. 30	4. 45	·1014	4. 12	·01474			
11. 58	21. 56. 45	5. 8	·1022	7. 3:	·01153			
10. 55	22. 2. 15	5. 45	·1026	9. 40	·01136			
12. 13	1. 20	6. 40:	·1022	10. 35	·01150			
12. 38	22. 2. 30	7. 48	·1024	11. 35	·01225			
14. 26	21. 58. 0	9. 1	·1023	13. 46	·01398			
16. 14	58. 45	9. 40	·1020	15. 16	·01623			
16. 55	57. 30	10. 15:	·1023	16. 3	·01750			
19. 14	56. 0	10. 50	·1018	17. 0	·01910			
21. 47	21. 59. 30	11. 8	·1025	18. 30	·01880			
23. 46	22. 5. 45	11. 25	·1021	20. 22	·01878			
23. 59	5. 45	13. 4	·1029	20. 51	·01862			
		13. 25:	·1025	21. 45	·01882			
		17. 50	·1024	22. 16	·01887			
		18. 8	·1026	23. 59	·01865			
		23. 34	·1010					
		23. 59	·1008					
May 24		May 24		May 24		May 24		
0. 26	22. 6. 35	0. 0	·1008	0. 30	·01782	1. 40	59 ·0	62 ·0
3. 4	5. 30	0. 25	·1014	2. 50:	·01442	3. 40	63 ·0	64 ·5
5. 35	1. 30	1. 59	·1023	4. 30	·01020	9. 40	66 ·0	67 ·5
9. 49	1. 0	6. 45	·1019	5. 38	·01035	21. 50	58 ·0	58 ·0
10. 3	0. 0	8. 8:	·1023	6. 22	·01025			
11. 4	1. 0	10. 0	·1015	7. 20	·01027			
11. 17	22. 3. 0	11. 10	·1016	8. 9	·01022			
11. 53	21. 59. 30	11. 38	·1030	9. 24	·01063			
13. 32	22. 0. 0	12. 45	·1018	10. 1	·01053			
20. 0	21. 56. 0	19. 8	·1028	11. 2	·01055			
23. 31	22. 3. 15	19. 46	·1024	11. 15	·01063			
		20. 8	·1028	11. 43	·01055			
		21. 55	·1018	12. 15	·01086			
		22. 25	·1021	15. 2:	·01360			
		22. 35	·1028	18. 6	·01901			
		23. 0	·1020	18. 10	·01878			
		23. 15	·1023		***			
		23. 27	·1018	20. 30	·01885			
		23. 36	·1022	21. 5	·01842			
		23. 59	·1018	22. 3:	·01872			
				22. 50	·01885			
				23. 45	·01790			
				23. 59	·01780			
May 25		May 25		May 25		May 25		
0. 0	22. 3. 30	0. 0	·1018	0. 5	·01772	1. 40	60 ·0	63 ·0
	***		***	0. 34	·01739	3. 40	62 ·0	64 ·0
0. 55	8. 10	0. 25	·1024	0. 53	·01738	9. 40	64 ·0	65 ·0
1. 8	6. 30	0. 34	·1019	1. 8	·01692	21. 40	58 ·0	59 ·5
1. 53	10. 30	0. 59	·1050	2. 20	·01572			
2. 40	9. 0	1. 11	·1025		***			
3. 5	10. 15	1. 23	·1032	3. 47	·01330			
3. 48	7. 0	1. 53	·0993		***			
4. 52	9. 0		***	4. 52	·01180			
5. 2	6. 50	2. 40	·0993	5. 1	·01141			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 25	° ′ ″	May 25		May 25		h m	°	°
h m		h m		h m	***			
5. 58	22. 4. 30	3. 8	·1016	6. 40	·01020			
6. 30	8. 30	3. 15	·1010	6. 47	·01030			
6. 54	0. 20	3. 20	·1016	6. 50	·01020			
7. 7	22. 2. 30	3. 28	·1007	7. 14	·01088			
7. 40	21. 44. 45	3. 39	·1017	7. 20	·01097			
8. 8	21. 59. 30	3. 50	·1009	7. 47	·01182			
8. 45	22. 1. 0	4. 6	·1024	8. 30	·01032			
10. 30	22. 2. 30	4. 15	·1018	8. 55	·01100			
11. 45	21. 58. 0	4. 27	·1023	9. 42	·01085			
13. 2	21. 58. 0	4. 36	·1017	10. 21	·01060			
13. 14	22. 1. 30	4. 48	·1024	10. 52	·01049			
13. 25	0. 0	5. 0	·1004	12. 0	·01115			
13. 43	22. 2. 0	5. 35	·1022	13. 10	·01227			
14. 6	21. 57. 0	5. 53	·1026	13. 47	·01262			
14. 20	57. 50	6. 23	·1064	14. 40	·01356			
14. 53	55. 15	6. 59	·1018	15. 50	·01538			
	***	7. 6	·1024	16. 12	·01565			
15. 48	59. 20	7. 27	·0993	17. 30	·01755			
16. 6	21. 55. 30	7. 50	·1038	18. 38	·01882			
16. 52	22. 0. 45	8. 20	·1014	19. 5	·01865			
	***		***	19. 15	·01885			
18. 8	21. 57. 0	9. 0	·1010		***			
18. 24	22. 1. 30	9. 30	·1018	19. 40	·01882			
18. 47	21. 58. 30	9. 45	·1016	19. 46	·01862			
19. 0	22. 0. 30	10. 14	·1022	20. 1	·01895			
19. 5	21. 55. 0		***	20. 18	·01878			
19. 15	59. 50	12. 28	·1016		***			
	***		***	21. 40	·01920			
19. 45	21. 56. 50	14. 0	·1030	21. 46	{·01910			
20. 2	22. 3. 45		***		{·01340			
20. 17	21. 58. 0	14. 45	·1020	22. 52	·01325			
	***	15. 5	·1026	23. 45	·01295			
20. 45	22. 4. 0	15. 14	·1022	23. 59	·01285			
21. 45	21. 59. 30		***					
	***	16. 0	·1032					
22. 57	22. 3. 30	16. 36	·1017					
23. 15	3. 0	17. 10	·1026					
23. 38	5. 0	17. 36	·1021					
		18. 0	·1026					
		18. 9	·1020					
		18. 25	·1032					
		19. 0	·1026					
		19. 6	·1015					
		19. 25	·1028					
		19. 46	·1013					
		20. 0	·1016					
		20. 20	·0998					
		20. 58	·1014					
		21. 34	·1016					
		21. 45	·1008					
		22. 21	·1014					
		23. 40	·1004					
		23. 59	·1002					
May 26		May 26		May 26		May 26		
0. 0	22. 6. 0	0. 0	·1003	0. 15	·01372	1. 40	60 ·0	62 ·5
0. 33	8. 0	0. 42	·1014	0. 47	·01337	3. 40	61 ·0	64 ·0
1. 12	9. 30	0. 55	·1002	1. 5	·01335	9. 40	64 ·0	67 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F Magnet.	Of V. F. Magnet.
May 26	° ′ ″	May 26		May 26	′	May 26	°	°
h m	***	h m		h m		h m		
1. 8	·1016	1. 54	·01280			21. 40	57 ·0	58 ·0
1. 27	·0997	2. 38	·01220					
1. 52	·1004		***					
2. 11	·1000	4. 18	·01265					
2. 36	·1009	5. 25	·01210					
3. 3	·1030	6. 10	·01208					
3. 20	·1006	6. 58	·01193					
3. 30	·1020	8. 16	·01173					
3. 47	·1022	9. 20	·01228					
3. 55	·1013	9. 38	·01205					
	***	11. 10	·01210					
4. 23	·1020	12. 30	·01332					
4. 45	·1007	13. 32	·01440					
5. 14	·1018	14. 55	·01605					
5. 20	·1016	15. 55	·01752					
5. 43	·1028	16. 58	·01895					
	***	17. 7	·01882					
6. 35	·1015	17. 45	·01886					
6. 57	·1023	18. 15	·01887					
7. 15	·1018	19. 10	·01910					
7. 30	·1020	19. 13	·01902					
	***	19. 30	·01910					
8. 15	·1015		***					
8. 23	·1021	20. 55	·01896					
	***	21. 25	·01905					
9. 10	·1013	21. 46	·01882					
	***	22. 35	·01850					
10. 15	·1014	23. 40	·01855					
	***							
11. 0	·1026							
11. 35	·1017							
	***							
13. 4	·1020							
	***							
13. 30	·1014							
	***							
14. 26	·1022							
	***							
15. 15	·1018							
15. 47	·1023							
16. 30	·1002							
18. 14	·1030							
	***							
20. 39	·1010							
21. 1	·1016							
22. 15	·1008							
22. 30	·1000							
23. 13	·1018							
23. 50	·1012							
May 27		May 27		May 27		May 27		
0. 8	22. 3. 0	0. 5	·1018	0. 14	·01835	1. 40	59 ·0	61 ·0
0. 39	5. 30	0. 20	·1017	1. 30	·01772	3. 40	60 ·5	62 ·7
2. 44	8. 10	0. 39	·1024	2. 5	·01728	9. 40	63 ·5	64 ·5
5. 8	22. 6. 0	0. 53	·1013		***	23. 5	59 ·0	61 ·0
6. 30	21. 59. 15	1. 9	·1013	4. 10	·01532			
9. 14	22. 2. 0	1. 17	·1018		***			
9. 32	21. 58. 20	1. 25	·1010	5. 45	·01375			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
May 27		May 27		May 27				
h m	° ′ ″	h m		h m		h m	°	°
10. 50	22. 1. 15	2. 0	·1013	6. 59	·01305			
11. 17	21. 59. 20	2. 20	·1020	7. 39	·01252			
11. 57	22. 1. 30	2. 34	·1019	8. 25	·01205			
15. 8	2. 30	2. 46	·1030	9. 20	·01170			
15. 44:	7. 30	3. 13	·1016	10. 0	·01143			
16. 45	9. 35	3. 25	·1021	10. 59:	·01131			
18. 19	22. 0. 0	3. 47:	·1020	11. 57	·01183			
21. 27	21. 58. 0	4. 14	·1026	12. 56	·01285			
23. 59	22. 5. 45	4. 44	·1016	13. 25	·01325			
		4. 51	·1024 ***	13. 55	·01360			
				14. 45	·01440			
		5. 4	·1018 ***	15. 40	·01550			
				16. 10	·01594			
		5. 21	·1030	17. 33	·01780			
		5. 45	·1021	17. 41	·01772			
		6. 0	·1022	18. 47	·01840			
		6. 11	·1016	19. 1	·01830			
		6. 15	·1024	19. 40	·01843 ***			
		6. 42	·1026					
		7. 29	·1018 ***	21. 0	·01830 ***			
		8. 10	·1025	21. 41	·01840			
		8. 25	·1018	22. 13	·01832			
		8. 50	·1018	22. 30	·01822			
		9. 20	·1024	23. 0	·01790			
		9. 25	·1022	23. 15	·01765			
		9. 40	·1026					
		10. 6	·1021					
		11. 32	·1027 ***					
		14. 39	·1025					
		14. 59	·1020					
		15. 20	·1024					
		15. 40	·1020					
		16. 15:	·1028					
		16. 34	·1024					
		18. 45	·1032					
		19. 45	·1021					
		22. 45	·1013					
		23. 5	·1016					
		23. 15	·1014					
		23. 59	·1010					
May 28		May 28		May 28		May 28		
0. 17	22. 5. 30	0. 0	·1010	0. 0	·01690	9. 51	63·5	65·5
2. 27	9. 0	0. 15	·1008	0. 45	·01610	21. 40	58·0	58·5
3. 12	6. 30	0. 36	·1016	2. 0	·01450			
5. 44	4. 30	1. 35	·1004	2. 30	·01373			
6. 5	0. 35	2. 8:	·1017	3. 15	·01280			
7. 20	3. 20	2. 31	·1015	3. 58	·01180			
12. 0	0. 45	3. 7:	·1002	4. 30	·01220			
13. 37	2. 30	3. 35	·1020	6. 30	·01200			
15. 43	1. 20	4. 9	·1026 ***	6. 45	·01188			
16. 39	22. 2. 0			10. 8	·01182			
20. 20	21. 59. 20	5. 15	·1022	11. 11:	·01175			
23. 59	22. 7. 0	6. 6	·1012	12. 9	·01218			
		6. 23	·1028	13. 25	·01310			
		6. 40	·1028	14. 0	·01360			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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				
h m	° ′ ″	h m		h m		h m	°	°
		7. 10	·1020	14. 57	·01470			
		7. 20	·1028	15. 30	·01550			
		7. 36	·1020	16. 15	·01662			
		7. 57	·1022	17. 0	·01780			
		8. 25	·1019	17. 55	·01912			
		15. 0	·1028	18. 10	·01900			
		17. 30	·1024	18. 45	·01900			
		18. 38	·1026	19. 28	·01895			
		19. 37	·1018	20. 0	·01908 ***			
		22. 30	·1006					
		23. 25	·1006	20. 30	·01907			
		23. 59	·1010	21. 0	·01900			
				21. 30	·01898			
				21. 40:	·01880			
				23. 59	·01820			
May 29		May 29		May 29		May 29		
0. 23	22. 6. 50	0. 0	·1010	0. 30	·01799	1. 40	59·0	60·0
3. 23	10. 35	0. 13	·1010 ***	1. 0	·01770	3. 40	61·0	63·0
4. 6	7. 30			1. 55	·01748	9. 40	62·0	63·5
5. 9	7. 25	2. 40	·1018	2. 30	·01712	21. 40	56·0	58·0
5. 39	5. 30	3. 23	·1028	3. 53	·01580			
8. 33	2. 0	4. 6	·1001	4. 56	·01455			
9. 11	6. 25	4. 23	·1015	6. 0	·01355			
10. 3	1. 30	5. 0:	·1010	7. 35	·01225			
12. 22	2. 0	5. 35	·1020 ***	8. 35	·01198			
12. 38	3. 35			9. 13	·01180			
13. 32	1. 30	6. 5	·1024 ***	10. 0	·01165			
14. 31	3. 0			11. 11	·01134			
15. 12	22. 0. 25	6. 44	·1020	12. 15	·01155			
19. 13	21. 59. 45	7. 16	·1030 ***	12. 35	·01150			
20. 46	56. 25			13. 13	·01152			
22. 42	21. 58. 30	8. 16	·1030	13. 44	·01171			
23. 59	22. 3. 0	8. 50	·1020	14. 32	·01230			
		9. 35:	·1024	15. 29	·01318			
		10. 15	·1016	16. 30	·01440			
		11. 0	·1020	18. 35	·01660			
		11. 44	·1017	21. 29:	·01780			
		12. 30	·1027	23. 59	·01672			
		13. 15	·1019					
		14. 25	·1016					
		15. 0	·1022					
		15. 50	·1019					
		18. 30	·1025					
		20. 15	·1021					
		21. 45	·1007					
		22. 53	·1006					
		23. 59	·1008					
May 30		May 30		May 30		May 30		
0. 13	22. 4. 0	0. 0	·1008	1. 0	·01592	1. 40	60·0	62·0
2. 51	9. 35	0. 55	·1008	2. 3	·01500	3. 40	61·0	63·5
7. 2	4. 25	2. 54	·1020	2. 28	·01460	9. 10	54·0	63·5
10. 22	2. 25	3. 21	·1011	3. 10	{·01360 ·01390	21. 40	58·5	60·0
10. 53	1. 0	4. 16	·1011					
11. 32	2. 25	4. 34	·1017	3. 45	·01290			
16. 35	22. 1. 20 ***	4. 55	·1015	4. 7	{·01210 ·01235			
		5. 10	·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.	Of V. F. Magnet.
May 30		May 30		May 30		h m	°	°
h m	° ′ ″	h m		h m				
16. 52	21. 59. 30	5. 45	·1012	4. 52	·01130			
	***		***		·01142			
18. 22	59. 30	6. 14	·1010	5. 10	·01148			
18. 40	57. 35		***		·01490			
19. 32	58. 0	7. 8	·1020	6. 23	·01332			
20. 42	56. 30	7. 40	·1016	6. 52	·01278			
21. 33	21. 59. 0	8. 0	·1020	7. 17	·01228			
22. 12	22. 3. 0	9. 48	·1015	7. 35	·01215			
23. 2	5. 30		***	8. 42	·01210			
23. 59	6. 30	12. 40	·1017	9. 40	·01202			
		14. 14	·1021	10. 47:	·01175			
		15. 23	·1019	11. 45	·01214			
			***	14. 29:	·01496			
		18. 10	·1026	17. 4	·01920			
		18. 36:	·1021	17. 10	·01912			
		19. 0	·1024	18. 10	·01930			
			***		***			
		20. 0	·1018	18. 45	·01934			
		20. 8	·1005	19. 31	·01947			
			***	20. 0	·01926			
		20. 30	·1012	20. 45	·01930			
		21. 13:	·0992	21. 16	·01940			
			***	22. 10	·01938			
		22. 34	·0984	23. 22:	·01777			
			***	23. 59	·01665			
		23. 59	·0987					
May 31		May 31		May 31		May 31		
0. 3	22. 5. 30	0. 0	·0987	0. 47	·01485	1. 40	64 ·0	66 ·0
1. 57	8. 0	0. 45	·0992	1. 57	·01218	3. 40	66 ·0	68 ·0
6. 48	22. 1. 30	1. 30	·0988	2. 10	·01170	9. 50	68 ·5	71 ·5
10. 33	21. 58. 25	1. 55	·0995	3. 43:	·01258	21. 40	60 ·0	62 ·5
11. 13	22. 0. 35		***	4. 52	·01270			
12. 40	0. 50	2. 58	·0990	6. 5	·01287			
13. 23	4. 0	3. 38	·1000	7. 12	·01270			
	***	4. 21	·0986	8. 53	·01260			
14. 29	1. 0		***	9. 39	·01267			
	***	4. 53	·0994	11. 12:	·01265			
14. 47	22. 4. 0		***	12. 30	·01350			
	***	5. 34	·0984	12. 43	·01370			
16. 19	21. 56. 30		***	14. 22:	·01557			
	***	6. 31	·1005	16. 22	·01965			
17. 11	22. 0. 0		***	18. 37	·01940			
17. 27	21. 57. 20	8. 5	·1016	19. 51	·01920			
18. 13	59. 45	8. 35	·1016	21. 10	·01947			
19. 2	59. 0	8. 50	·1009	22. 8	·01920			
	***	9. 20	·1006	23. 53	·01758			
20. 4	55. 30	9. 34	·1008	23. 59	·01740			
20. 22	21. 58. 0	10. 5	·1002					
20. 42	21. 56. 30	10. 42	·1015					
22. 38	22. 0. 0		***					
23. 7	3. 0	11. 25	·1010					
23. 48	6. 0	12. 8	·1015					
		13. 20	·1011					
		14. 1	·1015					
		14. 28	·1007					
		15. 30	·1018					
		16. 30	·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.
h m	° ′ ″	May 31 h m		h m		h m	°	°
		17. 40	·1019					
		18. 25	·1016					
		19. 4	·1066					
			***					
		20. 7	·1012					
		20. 24	·1015					
			***					
		22. 34	·0980					
		22. 50	·0992					
		23. 14	·0990					
		23. 45	·0996					
June 1		June 1		June 1		June 1		
0. 16	22. 8. 0	0. 0	·1000	0. 15	·01700	1. 40	64 ·0	66 ·0
2. 21	9. 35	0. 17	·1002	1. 30	·01505	3. 40	69 ·5	69 ·5
3. 17	22. 8. 30	0. 35	·0995		***	9. 40	69 ·0	71 ·0
6. 35	21. 57. 0	1. 0	·0994	2. 45	·01220	21. 40	59 ·0	61 ·0
12. 2	22. 1. 0	1. 30	·1004	3. 38	·01250			
21. 40	0. 0	1. 36	·0998		·01300			
23. 59	7. 30	1. 47	·1004	4. 7	·01270			
		2. 13	·0993		·01305			
		2. 40	·1002	5. 0	·01295			
			***	6. 0	·01295			
		3. 20	·0988		·01380			
		3. 41	·0986	6. 52	·01304			
		4. 26	·0998	8. 10:	·01271			
			***	9. 6	·01290			
		5. 45	·1002	9. 59	·01285			
			***	10. 44	·01292			
		6. 45	·1000	12. 14	·01402			
			***	14. 23:	·01620			
		7. 45	·1003	16. 25	·01970			
		8. 25	·0999	17. 24	·01960			
		8. 45	·1002	18. 59	·01960			
		9. 24	·0999	21. 50	·01928			
		10. 35	·1009	22. 0	·01885			
		11. 8	·1001	22. 45	·01905			
		12. 5	·1000	23. 59	·01905			
		14. 15	·1009					
		16. 20	·1006					
		17. 15	·1016					
		17. 40	·1014					
			***					
		19. 30	·1014					
		19. 55	·1004					
		20. 35	·1004					
		22. 33	·1002					
		22. 50	·1006					
			***					
		23. 35	·1001					
June 2		June 2		June 2		June 2		
1. 40	22. 9. 22*	1. 40	·1015*	0. 40	·01920	1. 40	62 ·0	63 ·0
3. 40	7. 20*	3. 40	·1018*	1. 30	·01955	3. 40	63 ·5	65 ·0
9. 40	1. 38*	9. 40	·1023*	2. 38	·01948	9. 40	63 ·0	65 ·0
21. 40	9. 49*	21. 40	·1016*	4. 0	·01900	21. 40	57 ·0	59 ·0
				4. 43	·01848			
				5. 30	·01790			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		June 2 h m		h m	°	°
				7. 4:	·01701			
				8. 32	·01685			
				9. 45	·01673			
				10. 54:	·01680			
				11. 39	·01727			
				12. 10	·01770			
				12. 47	·01830			
				13. 0	·01935			
				13. 30	·01910			
				13. 50	·01957			
				15. 0	·01956			
				16. 7	·01959			
				17. 30	·01970			
				19. 3	·01945			
				19. 15	·01952			
				20. 0	·01950			
				20. 45	·01940			
				21. 30	·01930			
				22. 2	·01930			
				22. 53:	·01925			
				23. 25	·01890			
				23. 59	·01841			
June 3		June 3		June 3		June 3		
	(†)		(†)		(†)	1. 40	59 ·0	62 ·0
6. 10	22. 2. 0	6. 8	·1025	6. 15	·01075	9. 40	63 ·0	65 ·0
7. 23	0. 35	6. 51	·1020	7. 3	·01055	23. 6	58 ·0	60 ·0
8. 17	22. 1. 10	7. 28	·1021	7. 37	·01050			
9. 35	21. 58. 30	9. 4	·1026	8. 28	·01040			
12. 10	22. 1. 25	9. 13	·1022	9. 3	·01058			
13. 25	21. 59. 20	9. 38	·1024	9. 32	·01052			
14. 26	22. 2. 0		***	11. 7:	·01070			
15. 26	21. 55. 25	10. 53	·1024	15. 5	·01228			
16. 35	22. 1. 30	11. 45	·1028	15. 8:	·01406			
18. 40	21. 55. 35	12. 0	·1024	16. 35	·01660			
21. 6	21. 55. 30	12. 8	·1028	17. 40	·01862			
23. 20	22. 2. 15		***	17. 55	·01825			
23. 59	3. 0	12. 39	·1022	18. 38	·01801			
		13. 35:	·1029	19. 15	·01800			
		14. 2	·1023	19. 30	·01805			
		15. 8	·1036	20. 30	·01800			
			***	22. 0	·01825			
		15. 40	·1026	22. 27	·01822			
		16. 57	·1020	22. 37	·01828			
		17. 50	·1032	23. 25	·01826			
		20. 23	·1016	23. 59	·01819			
		21. 23	·1015					
		22. 2	·1009					
		22. 15	·1012					
		23. 5	·1002					
		23. 59	·1003					
June 4		June 4		June 4		June 4		
0. 7	22. 3. 30	0. 0	·1003	0. 15	·01809	9. 50	65 ·5	68 ·5
1. 20	7. 0	0. 50	·1004	1. 55:	·01690	21. 40	58 ·0	59 ·0
5. 14	2. 30	3. 23	·1021	4. 13	·01305			
6. 21	0. 20	4. 13	·1020	4. 52	·01152			
7. 16	22. 1. 15	4. 27	·1024	5. 17	·01065			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 4 h m	° ′ ″	June 4 h m		June 4 h m		h m	°	°
7. 40	21. 58. 40	4. 45	·1020	6. 39	·01123			
13. 43	22. 0. 0	5. 30	·1025	8. 55	·01122			
15. 15	21. 59. 0	6. 23	·1014	9. 39	·01133			
16. 7	22. 0. 35	6. 52	·1024	10. 57	·01061			
17. 9	21. 56. 50	7. 32	·1016	13. 43:	·01225			
18. 3	54. 45	7. 46	·1018	16. 35	·01630			
21. 15	21. 57. 40	9. 14	·1010	18. 7	·01882			
23. 59	22. 4. 20	11. 8	·1010	18. 21	·01860			
		12. 35	·1013	19. 33	·01845			
		12. 45	·1017	20. 15	·01834			
			***	21. 10	·01832			
		13. 41	·1014	21. 44	·01835			
		13. 50	·1019	21. 52	·01850			
		15. 7	·1014	22. 30	·01855			
		17. 4	·1021	23. 59	·01860			
		22. 23	·1020					
		23. 0	·1014					
		23. 47	·1016					
		23. 59	·1014					
June 5		June 5		June 5		June 5		
0. 20	22. 5. 0	0. 0	·1014	0. 45	·01870	1. 40	59 ·0	63 ·0
2. 55	22. 6. 50	0. 30	·1011	2. 0	·01783	3. 40	61 ·5	63 ·0
8. 35	21. 59. 50	1. 45	·1013	3. 32	·01483	9. 40	64 ·3	67 ·7
8. 55	57. 30	2. 50	·1020	4. 32	·01380	21. 40	58 ·0	59 ·8
9. 25	59. 0	3. 25	·1015	5. 14	·01262			
9. 44	21. 57. 30	3. 33	·1020	6. 8	·01100			
11. 2	22. 0. 20	3. 53	·1017	6. 33	·01128			
11. 29	21. 58. 30	4. 36	·1020	7. 24	·01132			
11. 51	59. 30	5. 2	·1016	8. 2	·01125			
14. 38	57. 45	5. 32	·1021	9. 0	·01153			
15. 43	58. 45	5. 45	·1008	9. 45	·01149			
19. 25	55. 25	6. 34	·1024	10. 13	·01130			
21. 8	55. 30	6. 55	·1018	10. 42	·01115			
21. 38	21. 57. 45	7. 35:	·1023	11. 22	·01120			
22. 53	22. 0. 0	8. 14	·1016	12. 0	·01143			
23. 59	3. 15	8. 34	·1016	12. 30	·01162			
		8. 55	·1027	14. 46:	·01335			
		9. 34	·1012	16. 46	·01603			
		10. 15	·1016	17. 42	·01740			
		11. 0	·1016	18. 38	·01890			
		11. 40	·1009	18. 48	·01877			
		13. 38	·1010	19. 48	·01879			
		14. 37	·1018	21. 41	·01845			
		16. 4	·1015	23. 59	·01860			
		19. 23	·1016					
		22. 53	·1002					
		23. 10	·1005					
		23. 59	·1006					
June 6		June 6		June 6		June 6		
0. 16	22. 3. 30	0. 0	·1006	0. 15	·01862	1. 40	60 ·5	63 ·0
1. 30	6. 25	1. 5	·1011	1. 48	·01808	3. 40	62 ·0	63 ·0
7. 1	22. 1. 30	1. 50	·1006	3. 24	·01565	9. 40	63 ·0	64 ·8
12. 1	21. 59. 30	2. 50	·1016	6. 13:	·01195	21. 40	57 ·0	58 ·5
12. 35	22. 0. 35	3. 44	·1018	8. 57	·01190			
16. 22	21. 59. 30	4. 45	·1017	9. 59	·01215			
19. 36	55. 30	5. 15	·1021	10. 42	·01225			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 6		June 6		June 6				
h m	° ′ ″	h m		h m		h m	°	°
21. 20	21. 58. 30	6. 0	·1020	11. 15	·01250			
22. 7	22. 2. 25	8. 0	·1025	11. 45	·01275			
22. 38	2. 0	8. 35	·1023	12. 38	·01345			
23. 58	6. 0	9. 0	·1027	13. 33	·01409			
		9. 15	·1023	14. 55:	·01522			
		10. 0	·1026	16. 29	·01717			
		11. 8	·1022	17. 37	{·01874			
		11. 30	·1026		{·01860			
		12. 25	·1021	18. 48	·01865			
		13. 8	·1023	19. 55	·01865			
		18. 53	·1022	19. 58	·01827			
		21. 10	·1002	20. 30	·01848			
		22. 28	·1002	21. 7	·01842			
		23. 59	·1014	21. 45	·01849			
				22. 35	·01822			
				23. 6	·01825			
				23. 59	·01810			
June 7		June 7		June 7		June 7		
0. 10	22. 7. 0	0. 0	·1014	0. 17	·01808	1. 40	60 ·0	62 ·0
2. 12	8. 50	1. 30	·1008	1. 35	·01771	3. 40	60 ·0	63 ·0
4. 0	5. 30	2. 23	·1018	2. 37	·01650	9. 40	62 ·5	62 ·5
	(†)	2. 58	·1012	3. 46	·01502	21. 40	57 ·0	59 ·8
9. 30	1. 20	3. 53	·1020	4. 38	·01360			
14. 17	22. 0. 25		***	5. 0	·01307			
15. 33	21. 57. 30	4. 30	·1016		(†)			
16. 3	22. 0. 30	4. 47	·1021	8. 29	·01145			
16. 26	22. 1. 35		(†)	9. 23	·01185			
17. 15	21. 55. 30	8. 32	·1024	10. 42	·01272			
17. 56	56. 30	8. 50	·1021	11. 30	·01300			
20. 10	55. 30	9. 4	·1025	13. 10	·01330			
22. 7	21. 57. 30	11. 23	·1019	14. 33	·01347			
23. 59	22. 4. 0	11. 55	·1024	15. 35	·01393			
		12. 15	·1021	16. 15	·01460			
			***	17. 6	·01508			
		13. 33	·1021	17. 44	·01573			
		13. 55	·1025	18. 45	·01645			
		14. 36	·1024	20. 5	·01760			
		15. 0	·1024	20. 45	·01810			
			***	21. 23	·01834			
		16. 5	·1016	22. 11	·01818			
		16. 50	·1024	22. 55	·01800			
		17. 25	·1020	23. 40	·01780			
		23. 15	·1001	23. 59	·01765			
		23. 59	·1002					
June 8		June 8		June 8		June 8		
0. 30	22. 5. 40	0. 0	·1002	0. 30	·01720	1. 40	60 ·0	63 ·0
1. 12	7. 30	0. 30	·1006	1. 52:	·01570	3. 40	63 ·5	65 ·0
4. 43	4. 0	1. 5	·1008	3. 0	·01318	9. 40	65 ·0	66 ·0
6. 59	0. 0	1. 32	·1004	3. 47	·01140	21. 40	58 ·7	61 ·5
7. 49	1. 20		***	4. 30	·00985			
12. 48	0. 30	3. 34	·1016	4. 46	·00995			
13. 25	2. 30	4. 10	·1012	5. 55	·00990			
15. 0	0. 50		***	7. 10	·01004			
15. 35	22. 1. 45	4. 59	·1015	8. 30	·01000			
16. 20	21. 58. 30		***	9. 18	·01005			
16. 42	59. 10	5. 38	·1008	9. 50	·01015			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
June 8		June 8		June 8				
h m	° ′ ″	h m		h m		h m	°	°
17. 25	21. 57. 0	6. 25	·1010	11. 17:	·01002			
19. 1	55. 0	7. 7	·1022	12. 15	·01050			
19. 16	56. 35	7. 50	·1018	13. 3	·01100			
20. 25	21. 55. 50	9. 25	·1012	14. 33	·01240			
22. 10	22. 1. 35	9. 40	·1019	15. 45	·01392			
23. 23	7. 20	10. 30	·1015	16. 33	·01485			
23. 59	8. 0	11. 50	·1010	17. 47	·01660			
		13. 45	·1021	18. 53	·01818			
		15. 28	·1017	18. 57	·01802			
		16. 0	·1021	19. 5	·01810			
		16. 47	·1019	20. 14	·01800			
		17. 8	·1021	21. 45	·01816			
		21. 30	·1006	22. 56	·01809			
		23. 37	·1006	23. 15	·01770			
		23. 59	·1009	23. 45	·01740			
				23. 59	·01720			
June 9		June 9		June 9		June 9		
0. 32	22. 8. 30	0. 0	·1010	0. 30	·01676	1. 40	60 ·0	63 ·0
1. 42	8. 30	1. 6	·1016	3. 17:	·01400	3. 40	62 ·0	63 ·0
6. 3	2. 30	2. 0	·1012	4. 47	·01130	9. 40	63 ·5	66 ·5
8. 46	0. 50	2. 55	·1027	5. 44	·00962	21. 40	60 ·0	62 ·0
11. 10	1. 30	3. 17	·1018	5. 58	·00978			
11. 33	22. 3. 0	3. 43	·1023	7. 20	·00970			
12. 20	21. 59. 40	4. 25	·1019	8. 15	·00965			
13. 26	22. 1. 20	7. 6	·1022	9. 30	·00995			
16. 3	22. 0. 40	11. 30	·1020	10. 17	·00995			
17. 33	21. 57. 50	12. 6	·1024	11. 15	·00985			
17. 45	59. 30	12. 30	·1021	12. 4	·00985			
19. 53	57. 30	16. 0	·1025	14. 14:	·01090			
21. 22	21. 57. 30	21. 15	·1012	15. 56	·01275			
23. 59	22. 6. 30	21. 37	·1017	17. 7	·01425			
		22. 55	·1007	18. 15	·01575			
		23. 59	·1008	19. 38	·01762			
				20. 0	·01795			
				20. 17	·01818			
				20. 45	·01792			
				21. 22	·01780			
				22. 33	·01767			
				23. 0	·01749			
				23. 59	·01702			
June 10		June 10		June 10		June 10		
0. 15	22. 7. 25	0. 0	·1008	0. 35	·01685	1. 40	63 ·0	65 ·0
1. 51	9. 40	0. 30	·1006	1. 0	·01665	3. 40	64 ·0	65 ·0
2. 47	6. 35	2. 0	·1010	2. 42:	·01455	9. 40	65 ·8	67 ·0
6. 25	0. 0	2. 54	·1001	4. 7	·01110	23. 7	59 ·5	60 ·5
9. 0	22. 0. 35	3. 20	·1006	4. 30	·01125			
9. 36	21. 59. 30	3. 30	·1003	6. 45	·01100			
10. 43	22. 0. 30	4. 6	·1006	9. 22	·01082			
11. 43	21. 58. 30	4. 25	·1001	10. 7	·01085			
13. 32	59. 45	5. 10	·1009	11. 18:	·01085			
19. 35	56. 25	7. 25	·1014	12. 12	·01162			
22. 2	21. 57. 35	10. 55	·1006	13. 10	·01290			
23. 59	22. 3. 25	11. 6	·1013	14. 25	·01486			
		13. 5	·1008	15. 9	·01610			

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	° ′ ″	June 10 h m		June 10 h m		h m	°	°
		18. 30	·1018	16. 17	·01838			
		21. 30	·1002	16. 23	·01825			
		23. 10	·1008	17. 17	·01810			
		23. 59	·1013	18. 45	·01810			
				19. 43	·01812			
				20. 40	·01810			
				22. 23	·01830			
				23. 20	·01810			
				23. 59	·01780			
June 11		June 11		June 11		June 11		
0. 0	22. 3. 30	0. 0	·1013	0. 30	·01752	9. 57	65 ·5	67 ·5
1. 18:	6. 20	1. 40	·1014	1. 55:	·01660	21. 40	62 ·0	63 ·0
3. 7	2. 35	4. 15	·1020	3. 22	·01440			
6. 31	22. 3. 25	5. 0	·1034	4. 23	·01220			
7. 19	21. 59. 0	5. 23	·1032	5. 42	·00955			
8. 5	22. 1. 30	5. 34	·1026	6. 35	·00980			
12. 26	22. 0. 15	6. 0	·1034	6. 39	·00978			
12. 52	21. 57. 35	6. 14	·1026	6. 57	·00970			
13. 22	21. 58. 20	6. 35	·1034	7. 23	·00990			
13. 46	22. 2. 50	6. 59	·1014	8. 10	·01000			
14. 12	21. 57. 45	7. 25	·1026	8. 47	·01008			
14. 40	22. 3. 0	7. 53	·1028	9. 10	·01012			
15. 22	21. 57. 45	9. 16	·1021	9. 42	·01010			
16. 17	53. 0	9. 37	·1028	10. 37	·00990			
16. 52	50. 20	9. 43	·1023	10. 43	·00978			
17. 2	52. 40		***	10. 55	·00990			
17. 17	50. 0	10. 25	·1033	11. 10	·00984			
17. 27	52. 0	10. 30	·1020	11. 35	·00980			
17. 35	49. 25	10. 41	·1033	12. 20	·01005			
18. 5:	55. 0	10. 50	·1030	13. 40	·01088			
18. 32	52. 35		***	13. 52	·01080			
19. 0	54. 30	11. 15	·1034	14. 0	·01085			
19. 16	59. 0	11. 30	·1024	14. 5	·01080			
19. 53	56. 50	11. 45	·1028	14. 14	·01090			
	***	12. 0	·1022	14. 33	·01090			
20. 22	59. 0	12. 20	·1032	14. 45	·01080			
20. 47	56. 0	13. 8	·1018	15. 13	·01080			
21. 12	56. 35	13. 37	·1037	15. 30	·01092			
21. 22	21. 53. 0	13. 45	·1032	15. 45	·01025			
21. 48	22. 0. 0		***	16. 0	·01030			
22. 13	21. 59. 35	14. 10	·1056	16. 20	·01052			
22. 42	22. 4. 30		***	16. 45	·01180			
23. 59	8. 0	14. 46	·1032	17. 3	·01250			
		15. 0	·1033	17. 27	·01285			
			***	17. 30	·01300			
		15. 38	·1018	17. 45	·01330			
		15. 55	·1027	18. 29	·01370			
		16. 6	·1023	19. 55	·01508			
		16. 19	·1027	20. 47	·01572			
		16. 52	·0992	20. 58	·01582			
		17. 46	·1004	21. 23	·01562			
		18. 30	·0992	21. 45	·01578			
		19. 15	·1001	22. 31	·01592			
		19. 46	·0994	22. 52	·01597			
			***	23. 59	·01551			
		20. 15	·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	° ′ ″	June 11 h m		h m		h m	°	°
		21. 35	·1004					
		22. 8	·0996					
		22. 23	·1002					
		22. 35	·0997					
		23. 6	·1002					
		23. 15	·0998					
		23. 45	·1004					
		23. 53	·1000					
		23. 59	·1002					
June 12		June 12		June 12		June 12		
0. 10	22. 6. 50	0. 0	·1003	1. 0	·01515	1. 40	64 ·0	65 ·0
1. 45	11. 30	0. 10	·1006	1. 57	·01490	3. 40	65 ·0	67 ·0
4. 47	8. 35	0. 45	·1000	2. 43	·01452	9. 40	67 ·0	68 ·5
5. 48	4. 10	0. 54	·1010	4. 0	·01330	21. 40	60 ·5	61 ·2
6. 47	1. 0	1. 6	·1004	4. 6	·01310			
7. 35	2. 25	1. 17	·1017	5. 33	·01102			
8. 34	22. 0. 15	1. 36	·1006	5. 45	·01122			
8. 46	21. 58. 0	1. 48	·1012	5. 55	·01120			
9. 38	22. 1. 30	2. 0	·1000	6. 20	·01145			
10. 5	21. 59. 35	2. 11	·1006	6. 52	·01170			
10. 46	22. 1. 30	2. 30	·0997	7. 12	·01175			
11. 0	21. 59. 30	3. 0	·1013	8. 7	·01165			
11. 32	22. 1. 0	4. 2	·1020	8. 14	·01154			
11. 43	22. 5. 50	4. 13	·1013	8. 28	·01162			
12. 3	21. 55. 30	4. 21	·1018	8. 38	·01160			
12. 29	49. 50	4. 38	·1013	8. 50	·01168			
12. 53	56. 0	5. 14	·1022	9. 40	·01168			
14. 0	57. 35	5. 31	·1017	10. 46	·01140			
14. 18	54. 40	5. 49	·1024	11. 45	·01140			
14. 32	55. 30	6. 0	·1019	11. 59:	·01120			
14. 53	53. 30	6. 15	·1020	12. 16	·01152			
15. 13	21. 55. 45	6. 25	·1013	14. 8	·01420			
15. 23	22. 4. 0	6. 50	·1024	14. 45	·01500			
15. 59	21. 58. 30	7. 0	·1021	15. 25	·01625			
16. 25	22. 6. 30	7. 17	·1026	16. 23	·01802			
16. 55	21. 57. 25	8. 0	·1021	16. 42	·01775			
17. 18	55. 0		***	17. 5	·01755			
17. 40	57. 0	8. 37	·1001	18. 0	·01788			
18. 15	55. 25	8. 53	·1010	18. 55	·01810			
18. 57	21. 59. 30	9. 33	·1001	20. 26	·01830			
19. 45	22. 1. 0	10. 4	·1001	20. 30	·01828			
20. 2	4. 50	11. 15	·1008	20. 47	·01827			
20. 34	7. 20	11. 37	·1002	22. 25	·01820			
21. 12	3. 0	11. 50	·1013	23. 45	·01718			
23. 36	5. 0	11. 57	·1013	23. 59	·01703			
23. 50	6. 0	12. 13	·1021					
		12. 30	·1019					
		12. 55	·1000					
		14. 0	·1016					
		14. 37	·1004					
		15. 0	·1014					
			***					
		15. 39	·0998					
		16. 15	·1003					
		16. 46	·1018					
		18. 2	·0999					
		18. 45	·1000					

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	June 12 h m		h m		h m	°	°
		19. 0	·0995					
		19. 14	·0998					
		19. 23	·0990					
		19. 49	·0996					
		20. 0	·0992					
		20. 26	·1004					
		20. 44	·0989					
		21. 10	·0989					
		22. 16	·1000					
		23. 38	·0988					
		23. 55	·0970					
June 13		June 13		June 13		June 13		
0. 30	22. 4. 30	0. 31	·0989	0. 41	·01670	1. 40	62·2	63·5
2. 8	6. 30	0. 50	·1000	1. 47	·01540	3. 40	64·0	66·0
4. 4	3. 30	1. 32	·1008	2. 22	·01455	9. 40	65·0	67·0
6. 1	2. 15	1. 45	·1002	3. 15	·01317	21. 40	61·2	63·0
7. 17	22. 2. 35	2. 0	·1006	3. 55	·01210			
8. 0	21. 58. 0	2. 18	·1000	4. 5	·01160			
9. 13	22. 0. 50		***	4. 42	·01056			
9. 49	21. 59. 30	3. 8	·1016	5. 0	·01010			
10. 20	22. 1. 30	3. 35	·1022	5. 29	·00970			
10. 41	21. 59. 35	4. 15	·1010	5. 32	·00982			
11. 0	22. 0. 0	5. 15	·1008	5. 37	·00970			
11. 16	21. 59. 20	5. 31	·1020	5. 46	·00970			
11. 35	22. 1. 30	5. 48	·1009	6. 24	·00990			
13. 0	21. 57. 50	6. 25	·1021	7. 12	·00985			
14. 16	58. 50		***	7. 38	·00985			
14. 47	21. 56. 35	7. 2	·1020	8. 3	·01000			
16. 32	22. 0. 35	7. 20	·1026	8. 43	·01003			
17. 30	21. 57. 35	7. 45	·1016	9. 30	·01010			
20. 37	56. 30	8. 47	·1010	10. 41	·00989			
21. 36	21. 57. 30	8. 58	·1015	10. 50	·00992			
23. 40	22. 3. 30		***	11. 14	·00995			
23. 59	4. 50	10. 12	·1012	12. 23	·01050			
			***	14. 0	·01225			
		11. 27	·1020	15. 29	·01372			
		13. 0	·1010	16. 50	·01530			
		15. 7	·1015	18. 23	·01712			
		15. 45	·1012	19. 47	·01830			
		17. 15	·1016	20. 43	·01830			
		18. 15	·1016	21. 20	·01843			
		20. 40	·1000	22. 58:	·01788			
		23. 30	·0991	23. 38	·01698			
		23. 59	·0993	23. 59	·01600			
June 14		June 14		June 14		June 14		
0. 12	22. 6. 0	0. 0	·0993	0. 5	·01530	1. 40	63·0	64·8
2. 30	3. 0	0. 30	·0988	0. 30	·01430	3. 40	66·2	68·5
4. 38	3. 0	0. 55	·1000	1. 30	·01265	9. 40	69·0	72·0
7. 15	22. 1. 0	1. 35	·1006	2. 0	·01160	21. 40	62·2	63·4
7. 42	21. 55. 30	3. 6	·1004	2. 36	·01072			
8. 17	22. 0. 0	4. 4	·1014	4. 0	·01162			
11. 58	22. 0. 30	4. 55	·1010	7. 10	·01200			
12. 28	21. 58. 0	5. 30	·0995	7. 28	·01197			
13. 18	59. 30	6. 23	·1012	7. 47	·01202			
13. 45	21. 56. 30	7. 27	·1010	8. 10	·01188			
14. 20	22. 2. 10	7. 45	·1023	8. 44	·01180			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June 14 h m	° ′ ″	June 14 h m		June 14 h m		h m	°	°
14. 57	21. 54. 35	8. 15	·1008	9. 52	·01172			
16. 0	51. 30	8. 30	·1010	11. 4	·01176			
16. 46	56. 25	9. 16	·1001	12. 0	·01217			
18. 16	53. 30	10. 45	·0998	13. 21	·01330			
19. 58	53. 50	11. 53	·1001	15. 4	·01465			
21. 34	21. 56. 30	13. 0	·1004	16. 10	·01632			
23. 59	22. 0. 50	13. 20	·1013	17. 40	·01894			
			***	18. 20	·01875			
		14. 2	·1000	19. 3	·01882			
		15. 38	·1017	19. 30	·01870			
		16. 6	·1012	23. 0	·01860			
		16. 58	·1006	23. 37	·01842			
		18. 8	·1010	23. 59	·01840			
		21. 13	·0998					
		23. 59	·1002					
June 15		June 15		June 15		June 15		
0. 17	22. 2. 30	0. 0	·1003	0. 15	·01840	1. 40	64·0	65·5
1. 2	2. 50	0. 20	·1004	1. 34	·01810	3. 40	65·8	67·0
2. 35	6. 0	1. 0	·0999	3. 23	·01530	9. 58	67·5	68·5
3. 38	3. 25	2. 16	·1010	5. 45	·01150	21. 40	62·0	63·5
4. 18	6. 0	2. 32	·1003		***			
6. 32	4. 0	2. 56	·1010	9. 6	·01190			
6. 51	1. 30	3. 15	·1006	11. 15	·01150			
7. 34	22. 2. 30		***	11. 30	·01158			
7. 59	21. 59. 25	4. 30	·1015	12. 27	·01162			
8. 17	21. 57. 30	5. 0	·1012	13. 40	·01270			
8. 32	22. 0. 0		***	15. 8	·01406			
10. 10	22. 1. 30	6. 45	·1020	16. 48	·01585			
11. 17	21. 58. 35	7. 3	·1017	17. 48	·01702			
11. 30	22. 2. 35	7. 14	·1027	18. 20	·01750			
11. 47	21. 58. 35		***	18. 41	·01804			
12. 30	55. 30	8. 10	·1008	19. 4	·01832			
13. 30	58. 30	8. 18	·1014	19. 21	·01876			
15. 15	59. 25	8. 40	·1008	19. 45	·01852			
15. 54	57. 0	9. 55	·1004	20. 33	·01853			
16. 22	58. 20	10. 30	·1012	20. 40	·01845			
17. 13	56. 50	11. 10	·1008	21. 5	·01845			
17. 40	58. 0	11. 22	·1024	21. 10	·01838			
17. 45	59. 40	11. 40:	·1020	21. 30	·01840			
18. 24	55. 30	12. 0	·1023	22. 0	·01850			
18. 33	58. 0	12. 35	·1006	22. 47	·01870			
18. 55	57. 50	13. 29	·1003	23. 30	·01848			
19. 12	55. 0	14. 20	·1013	23. 59	·01815			
19. 22	57. 30	16. 46	·1012					
20. 20	55. 0		***					
21. 25	21. 56. 30	18. 6	·1025					
22. 45	22. 5. 0	18. 30	·1021					
23. 34	7. 50	18. 45	·1024					
23. 59	8. 0	19. 10	·1010					
		19. 23	·1018					
		19. 45	·1010					
			***					
		22. 39	·0998					
		22. 59	·1000					
		23. 6	·1007					
			***					
		23. 55	·0990					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	June 15 h m		h m		h m	°	°
		23. 59	·0990					
June 16		June 16		June 16		June 16		
0. 17	22. 6. 35	0. 0	·0992	0. 30	·01804	1. 40	64 ·0	65 ·5
3. 19	10. 35	0. 20	·1000		***	3. 40	65 ·0	67 ·0
4. 4	8. 30	1. 7	·1003	3. 0	·01635	9. 40	66 ·0	68 ·0
4. 24	3. 35	1. 17	·1010		***	21. 40	63 ·5	65 ·0
5. 36	22. 5. 0	2. 0	·0998	4. 5	·01554			
8. 40	0. 20	2. 8	·1006	4. 44	·01525			
9. 4	22. 0. 0		***	6. 0	·01408			
9. 15	21. 58. 30	2. 44	·1000	6. 55	·01345			
9. 52	21. 58. 0	3. 26	·1022		***			
11. 17	22. 1. 0		***	8. 37	·01230			
11. 47	21. 57. 35	4. 8	·1002	8. 53	·01224			
12. 9	59. 0		***	9. 8	·01203			
12. 24	58. 0	5. 35	·1017	9. 24	·01202			
12. 40	59. 30	6. 10	·1026	9. 38	·01186			
13. 4	59. 25	7. 0	·1022	10. 45	·01130			
13. 25	21. 55. 30	7. 38	·1031	11. 45	·01105			
13. 53	21. 54. 0	8. 0	·1020	13. 0	·01070			
14. 43	22. 1. 25	8. 17	·1048	13. 24	·01072			
14. 55	22. 0. 0	8. 38	·1031	13. 50	·01105			
15. 38	21. 59. 35	8. 45	·1034	14. 22	·01178			
16. 17	21. 57. 30	9. 7	·1016	14. 53	·01218			
16. 24	22. 0. 0	9. 25	·1023	15. 0	·01222			
16. 34	21. 59. 25	10. 0	·1016	15. 34	·01272			
17. 20	22. 2. 30		***	16. 15	·01330			
18. 32	21. 59. 0	11. 0	·1016	16. 35	·01389			
19. 33	22. 3. 0	11. 22	·1022	18. 38	·01572			
20. 8	21. 59. 20	12. 0	·1018	18. 47	·01576			
20. 20	55. 35	12. 26	·1026		***			
20. 33	58. 35	12. 45	·1020	20. 52	·01648			
20. 45	21. 57. 0	13. 0	·1024	21. 43	·01658			
21. 12	22. 2. 50	13. 48	·0998	22. 23	·01656			
21. 31	1. 30		***	23. 22	·01635			
23. 25	0. 50	14. 30	·1015	23. 59	·01590			
23. 59	2. 25		***					
		16. 15	·1004					
			***					
		17. 35	·1017					
			***					
		19. 10	·1007					
		20. 3	·0988					
		21. 0	·0994					
		21. 19	·1002					
		22. 0	·1000					
		22. 35	·0986					
		23. 34	·1001					
			***					
		23. 59	·0998					
June 17		June 17		June 17		June 17		
0. 11	22. 2. 0	0. 0	·0998	0. 30	·01536	1. 40	65 ·0	68 ·0
1. 21	4. 45	0. 15	·1000	1. 20	·01423	3. 40	66 ·0	69 ·0
1. 33	4. 30	1. 17	·0998	2. 50	·01203	9. 40	67 ·5	67 ·8
3. 43	2. 30	1. 39	·0989	3. 18	{ ·01146	23. 20	60 ·0	63 ·0
4. 25	4. 35	2. 25	·1002		{ ·01170			
5. 8	3. 35	2. 47	·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.
June 17 h m	° ′ ″	June 17 h m		June 17 h m		h m	°	°
5. 21	22. 4. 35	3. 0	·0992	5. 20	·01180			
6. 34	1. 30	3. 19	·1006		***			
6. 53	22. 2. 35		***	7. 3	·01176			
8. 0	21. 59. 20	3. 45	·0998	7. 56	·01173			
8. 12	22. 2. 35	4. 0	·1008	8. 5	·01185			
8. 36	21. 59. 30	4. 17	·0998	8. 27	·01150			
8. 52	22. 1. 50	4. 37	·1008	9. 30	·01163			
9. 8	22. 1. 50		***	10. 44	·01198			
9. 28	21. 59. 45	5. 9	·1000	10. 57:	·01200			
9. 55	22. 1. 0		***	11. 10	·01212			
10. 28	21. 57. 25	6. 45	·1016	11. 37	·01260			
10. 47	22. 1. 30	7. 50	·1014	12. 30	·01370			
11. 20	21. 57. 35	8. 8	·1033	13. 22	·01480			
12. 13	22. 1. 0	8. 27	·1015	13. 27	·01492			
13. 3	21. 59. 0	8. 35	·1018	14. 22	·01640			
13. 38	22. 2. 25	9. 0	·1008	15. 20	·01840			
14. 36	21. 58. 0	10. 0	·1000	15. 24	·01828			
15. 47	59. 35	10. 15	·1001	16. 28	·01820			
16. 26	57. 30	10. 36	·1014	17. 32	·01838			
17. 8	57. 50	11. 14	·1002	18. 45	·01842			
19. 16	55. 35	11. 40	·1010	19. 0	·01836			
20. 55	21. 56. 0	11. 58	·1004	20. 55	·01842			
23. 59	22. 3. 50	13. 4	·1013	22. 5	·01864			
		13. 30	·1002	22. 35	·01835			
		14. 13	·1013	23. 18	·01780			
		14. 40	·1010	23. 59	·01700			
		16. 10	·1015					
		16. 36	·1012					
		17. 36	·1016					
		17. 55	·1013					
		18. 45:	·1017					
		19. 34	·1007					
		21. 23	·1006					
		22. 23	·0998					
		23. 59	·1000					
June 18		June 18		June 18		June 18		
0. 6	22. 3. 45	0. 0	·1000	0. 30	·01630	10. 3	70 ·2	71 ·0
1. 47	22. 6. 30	0. 24	·1004	1. 22	·01490	21. 40	61 ·0	63 ·0
7. 28	21. 59. 0		***	1. 43	·01425			
8. 31	22. 1. 0	0. 45	·1004	2. 8	·01330			
11. 28	21. 59. 30	1. 15	·0996	2. 35	·01196			
12. 7	22. 1. 0	2. 14	·1002	2. 58	·01085			
12. 38	21. 55. 30	3. 15	·1000	3. 50	·01150			
14. 16	22. 0. 0	5. 45:	·1012	4. 25	·01160			
14. 34	2. 30	8. 10	·1001	4. 45	·01178			
15. 10	22. 2. 30	13. 14	·1000	4. 57	·01175			
16. 22	21. 57. 30	13. 45	·1008	5. 18	·01195			
18. 2	56. 10	14. 30	·0998	6. 20	·01210			
20. 8	58. 30	16. 10	·1008	7. 29	·01235			
20. 28	21. 57. 30	16. 31	·1002	8. 30	·01230			
23. 10	22. 2. 0	16. 50	·1007	8. 50	·01225			
23. 42	5. 10	17. 4	·1000	9. 9	·01228			
23. 59	5. 25	17. 23	·1008	10. 5	·01222			
		18. 0	·1002	10. 45	·01204			
		18. 15	·1006	11. 17	·01210			
			***	13. 43:	·01402			
		18. 53	·1000	16. 25	·01878			

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	° ′ ″	June 18 h m		June 18 h m		h m	°	°
		19. 37	·1004	16. 35	·01867			
		21. 46	·0994	19. 15	·01865			
		23. 59	·0998	20. 45	·01864			
				22. 46	·01876			
				23. 59	·01825			
June 19		June 19		June 19		June 19		
0. 10	22. 5. 50	0. 0	·0998	1. 0	·01725	1. 40	65 ·0	66 ·0
1. 28	6. 30	1. 6	·0996	2. 7	·01590	3. 40	66 ·0	68 ·0
3. 49	4. 10	1. 35	·1002	3. 5	·01424	9. 40	66 ·2	68 ·5
5. 7	1. 30	2. 0	·0998	3. 55	·01268	21. 40	56 ·0	57 ·0
8. 8	22. 1. 0	5. 30	·1010	4. 42	·01117			
8. 40	21. 59. 0	6. 10	·1006	5. 35	·01151			
10. 30	22. 1. 0	6. 40	·1012	7. 2	·01143			
12. 5	22. 0. 50	6. 55	·1008	7. 30	·01142			
12. 26	21. 59. 0	8. 5	·1020	8. 20	·01135			
13. 45	21. 58. 0	9. 0	·1016	10. 52:	·01175			
14. 47	22. 0. 0	10. 50	·1016	12. 50	·01370			
15. 39	21. 58. 35	11. 6	·1013	13. 20	·01460			
16. 17	59. 30	11. 19	·1018	14. 0	·01573			
17. 17	58. 0	12. 16	·1020	14. 46	·01725			
20. 2	56. 10	14. 30	·1015	15. 16	·01833			
20. 46	59. 15	14. 51	·1020	15. 20	·01817			
21. 22	21. 59. 30	15. 20	·1016	16. 13	·01818			
23. 56	22. 5. 0	17. 0	·1023	17. 50	·01840			
		19. 25	·1024	19. 14	·01838			
		21. 7	·1014	20. 33	·01832			
		23. 35	·1015	21. 0	·01826			
				22. 30	·01815			
				23. 22	·01782			
				23. 59	·01765			
June 20		June 20		June 20		June 20		
0. 36	22. 6. 30	0. 15	·1022	0. 15	·01750	1. 40	60 ·0	61 ·5
2. 34	5. 35	1. 30	·1016	2. 7:	·01617	3. 40	61 ·0	63 ·0
5. 13	0. 45	2. 5	·1018	3. 57	·01330	9. 40	64 ·0	65 ·0
7. 1	0. 30	2. 50	·1010	4. 53	·01155	21. 40	57 ·0	58 ·0
8. 46	2. 10	3. 21	·1014	5. 40	·01008			
13. 45	1. 20		***	8. 33	·01022			
14. 1	2. 30	3. 45	·1006	8. 45	·01030			
15. 23	1. 30		***	9. 42	·01052			
15. 47	22. 2. 20	5. 45	·1014	10. 20	·01048			
19. 32	21. 57. 30		***	11. 25:	·01031			
21. 32	21. 59. 30	7. 7	·1024	12. 10	·01075			
23. 40	22. 5. 0	9. 40	·1020	12. 50	·01135			
		13. 0	·1021	13. 39	·01245			
		18. 5	·1031	14. 18	·01350			
		19. 10	·1028	14. 56	·01475			
		19. 40	·1020	15. 31	·01595			
		20. 4	·1021	16. 32	·01815			
		21. 0	·1012	16. 38	·01803			
		23. 30	·1011	18. 29	·01780			
				18. 52	·01778			
				20. 18	{·01795 ·01785			
				21. 33	·01792			
				22. 27	·01733			
				22. 37	·01728			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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		June 20 h m		h m	°	°
				23. 6	·01682			
				23. 50	·01595			
June 21		June 21		June 21		June 21		
0. 17	22. 6. 30	0. 0	·1010	0. 0	·01595	1. 40	62 ·0	64 ·0
1. 10	8. 30	1. 0	·1015	1. 39:	·01320	3. 40	63 ·0	64 ·0
3. 33	6. 30	2. 23	·1003	2. 57	·00977	9. 40	64 ·4	65 ·7
5. 16	2. 30	3. 7	·1001	3. 5	·00990	21. 40	62 ·0	63 ·0
9. 3	2. 0	5. 15	·1005	4. 30	·01070			
9. 21	0. 30	6. 45	·1016	6. 58	·01075			
11. 5	3. 15	6. 57	·1022	8. 0	·01054			
12. 36	1. 30	8. 38	·1020	8. 57	·01075			
13. 26	2. 35	9. 0	·1024	10. 47	·01075			
16. 20	22. 0. 35	10. 37	·1024	11. 17	·01078			
17. 13	21. 58. 0	11. 0	·1030	12. 13	·01122			
21. 15	21. 59. 10	13. 0	·1025	14. 3	·01230			
23. 8	22. 5. 0	16. 35	·1030	17. 28:	·01495			
23. 59	6. 0	19. 30	·1024	20. 0	·01580			
		20. 30	·1026	21. 43	·01605			
		23. 59	·1008	22. 53:	·01588			
				23. 59	·01475			
June 22		June 22		June 22		June 22		
0. 7	22. 6. 0	0. 0	·1007	1. 30	·01185	1. 40	64 ·5	67 ·0
0. 55	5. 45	0. 25	·1006	1. 50	{·01122 ·01140	3. 40	68 ·0	68 ·0
2. 21	7. 20	1. 23	·1004			9. 40	70 ·0	72 ·5
4. 55	2. 30	2. 8	·1002	2. 25	·01177	21. 40	66 ·0	68 ·0
6. 35	1. 15	3. 0	·1008	2. 50	·01220			
9. 34	2. 15		***	3. 55	·01250			
10. 25	0. 30	4. 5	·1002	4. 57	·01272			
11. 19	2. 30		***	6. 1	·01275			
11. 35	22. 6. 30	6. 45	·1010	7. 7	·01263			
12. 17	21. 56. 0	7. 30	·1021	8. 12	·01245			
13. 31	22. 1. 0		***	8. 33	·01236			
13. 52	21. 59. 30	8. 15	·1018	9. 25	·01232			
14. 20	22. 0. 35	8. 55	·1025	10. 20	·01250			
14. 47	0. 0	9. 15	·1022	11. 25	·01306			
15. 12	3. 25	9. 24	·1027	11. 59	·01312			
15. 37	1. 30	9. 34	·1024	13. 15	·01453			
16. 5	22. 4. 30	10. 5	·1040	13. 55	·01525			
17. 17	21. 58. 50	10. 38	·1032	15. 0	·01644			
17. 38	59. 30	11. 0	·1038	16. 0	·01753			
18. 2	58. 0	11. 10	·1033	17. 29	·01900			
18. 20	59. 20	11. 25	·1045	18. 16	·01872			
	***	11. 40	·1040	19. 0	·01875			
19. 52	21. 57. 25	11. 51	·1026	20. 8	·01883			
	***	12. 8	·1042	21. 53:	·01900			
21. 53	22. 0. 0		***	23. 59	·01812			
23. 32	6. 0	12. 30	·1021					
23. 59	5. 50	12. 36	·1025					
		13. 8	·1020					
		13. 44	·1032					
		14. 0	·1027					
		14. 20:	·1034					
		14. 55	·1026					
		15. 14	·1032					
		15. 25	·1027					
		15. 57	·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.
h m	° ′ ″	June22 h m		h m		h m	°	°
		17. 0	·1038					
		20. 0	·1027					
		21. 8	·1014 ***					
		23. 13	·1007					
		23. 30	·1014					
		23. 59	·1010					
June23		June23		June23		June23		
0. 25	22. 7. 0	0. 5	·1007	0. 20	·01787	1. 40	69 ·0	71 ·0
1. 2	7. 30	0. 36	·1023	2. 3:	·01545	3. 40	71 ·0	73 ·0
2. 10	10. 15	0. 52	·1016	3. 16	·01288	9. 40	74 ·0	77 ·0
3. 34	7. 0		***	3. 23	·01308	21. 40	63 ·0	64 ·0
3. 44	8. 15	1. 30	·1022	3. 37	·01308			
4. 0	5. 35	1. 45	·1014	3. 47	·01325			
4. 53	6. 30	2. 7:	·1012	4. 7	·01300			
5. 52	2. 50	2. 26	·1000	4. 11	·01302			
6. 31	3. 45	2. 52	·1020	4. 15	·01285			
7. 8	1. 0	3. 9	·1004	4. 25	·01309			
7. 46	1. 35	3. 34	·1018	4. 28	·01300			
8. 18	22. 0. 0	3. 40	·1008	4. 45	·01300			
8. 42	21. 56. 10	3. 50	·1024	5. 14	·01270			
9. 13	22. 0. 0		***		***			
10. 32	22. 0. 0	4. 16	·0992	6. 25	·01260			
11. 31	21. 58. 30	4. 27	·1030	6. 40	·01253			
13. 25	22. 2. 0	4. 45	·1034	6. 49	·01224			
13. 52	0. 45	5. 15	·0984	6. 54	·01225			
14. 58	2. 30	5. 35	·0999	7. 5	·01203			
15. 17	0. 35	5. 45	·0996	8. 20	·01230			
16. 15:	22. 4. 50	6. 21	·1023	8. 38	·01125			
18. 49	21. 56. 30	6. 30	·1010	9. 0	·01125			
19. 40	21. 59. 0	7. 6	·0987	9. 13	·01120			
20. 20	22. 0. 0	7. 15	·1000	9. 35	·01126			
20. 39	21. 56. 0	7. 38	·1006	10. 58:	·01153			
21. 55	21. 59. 30	8. 3	·0997	11. 55	·01227			
23. 17	22. 7. 0	8. 13	·1001	12. 31	·01295			
23. 59	7. 20	8. 25	·0997	13. 45:	·01455			
		8. 55	·1002	14. 55	·01665			
		9. 1	·1010	15. 7	·01645			
		9. 15	·1000	16. 43	·01625			
		10. 7	·1006	17. 10	·01615			
		10. 32	·1003	18. 50	·01600			
		11. 10	·1007	19. 32	·01605			
		12. 4	·1003	20. 38	·01600			
		15. 5	·1016	22. 0	·01605			
		15. 55	·1013	23. 20	·01600			
		18. 25:	·1023	23. 47	·01572			
		19. 45	·1014					
		20. 9	·1015					
		21. 39	·1009					
		22. 8	·1009					
		23. 0	·1005					
		23. 45	·1004					
June24		June24		June24		June24		
0. 7	22. 7. 0	0. 0	·1004	0. 0	·01557	1. 40	67 ·0	69 ·0
1. 21	9. 30	0. 53	·1014	1. 46:	·01332	3. 40	73 ·0	73 ·0
3. 52	4. 30	1. 19	·1008	3. 13	·00960	9. 40	72 ·1	74 ·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.
June24 h m	° ′ ″	June24 h m		June24 h m		June24 h m	°	°
7. 52	22. 0. 35	1. 40	·0996	6. 20:	·01050	23. 40	70 ·0	72 ·0
8. 57	22. 1. 15	3. 8	·1014	8. 26	·01000			
9. 12	21. 58. 0	4. 50	·1014	9. 25	·01072			
11. 13	22. 1. 30	5. 25	·1000	10. 33	·01070			
13. 12	22. 2. 35		***	11. 16	·01115			
18. 53	21. 56. 35	6. 15	·1002	12. 46	·01255			
20. 25	58. 0		***	14. 38:	·01450			
21. 32	21. 57. 25	7. 0	·1014	16. 12	·01660			
23. 59	22. 4. 15	7. 32	·1007	16. 15	·01650			
		9. 0	·1003	21. 7	·01610			
		9. 20	·1015	21. 21	·01612			
		10. 14	·1004	22. 29:	·01625			
		11. 20	·1008	23. 25	·01550			
		12. 44	·1006	23. 59	·01482			
		18. 0	·1017					
		19. 0	·1013					
		21. 25	·0998					
		23. 59	·1000					
June25		June25		June25		June25		
0. 40	22. 3. 45	0. 0	·1000	1. 0	·01365	10. 0	74 ·0	76 ·5
4. 53	1. 0	1. 15	·1002	2. 5	·01170	21. 40	71 ·0	72 ·5
13. 36	0. 50	1. 45	·0996	2. 43	·01020			
14. 5	2. 20	2. 31	·1000	2. 55	·01036			
15. 8	22. 2. 45	2. 50	·0995	3. 8	·01040			
17. 40	21. 58. 35	3. 6	·0999	4. 22	·01074			
20. 41	58. 35	3. 30	·0994	5. 38	·01065			
21. 5	21. 57. 30	3. 44	·0998	6. 50	·01060			
23. 59	22. 5. 35	4. 55	·0990	7. 45	·01050			
		7. 50	·1004	8. 9	·01060			
		10. 35	·1002	8. 28	·01055			
		12. 52	·1010	8. 42	·01050			
		14. 15	·1010	9. 14	·01060			
		17. 8:	·1025	10. 0	·01071			
		20. 7	·1008	10. 55	·01082			
		21. 53	·0996	11. 37	·01100			
		22. 52	·1004	12. 5	·01120			
		23. 59	·1009	12. 35	·01150			
				13. 23	·01192			
				14. 35	·01293			
				15. 39	·01400			
				16. 35	·01490			
				17. 26	·01590			
				18. 15	·01672			
				18. 26	·01665			
				18. 55	·01657			
				20. 22	·01682			
				21. 27	·01665			
				21. 53	·01663			
				23. 0	·01652			
				23. 59	·01640			
June26		June26		June26		June26		
0. 13	22. 6. 0	0. 0	·0995	1. 30	·01647	1. 40	70 ·5	72 ·0
1. 57	7. 20	0. 10	·0994	2. 15	·01665	3. 40	71 ·0	72 ·5
5. 52	1. 35	1. 15	·1000	3. 25	·01660	9. 40	67 ·0	68 ·5
13. 48	22. 1. 30	2. 3	·1002	4. 23	·01690	21. 40	60 ·0	61 ·0
16. 6	21. 59. 30	2. 15	·0999	6. 0	·01682			

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.
June26		June26		June26				
h m	° ′ ″	h m		h m		h m	°	°
17. 20	21. 56. 0	3. 20	·1008	7. 40	·01662			
19. 9	58. 30	4. 6	·1004	8. 58	·01645			
20. 0	55. 10	4. 56.	·1010	10. 7	·01644			
20. 12	57. 0	5. 45	·1003	11. 26	·01625			
20. 47	54. 50	6. 44	·1013	12. 30	·01618			
21. 28	57. 30	7. 30	·1010	13. 0	·01613			
21. 50	21. 57. 0	16. 55	·1036	14. 30	·01582			
22. 25	22. 0. 30	18. 45	·1032	16. 0	·01570			
23. 59	1. 0	21. 14	·1004	17. 23	·01560			
		23. 59	·1006	18. 13	·01550			
				18. 48	·01545			
				20. 0	·01550			
				20. 44	·01562			
				21. 29	·01572			
				22. 55	·01547			
				23. 59	·01497			
June27		June27		June27		June27		
0. 12	22. 2. 0	0. 0	·1006	0. 15	·01480	1. 40	63 ·0	64 ·0
1. 16	5. 10	0. 45	·1014	2. 5	·01290	3. 40	65 ·0	67 ·0
2. 35	22. 5. 0	1. 0	·1009	4. 13	·00890	9. 40	66 ·0	67 ·5
5. 32	21. 58. 45	1. 50	·1018		(†)	21. 40	60 ·0	62 ·0
7. 44	21. 59. 25	3. 5	·1015	12. 33	·00778			
14. 55	22. 1. 0		***	14. 22	·01000			
19. 38	21. 56. 30	3. 32	·1017	15. 19	·01140			
21. 37	21. 59. 30	4. 2	·1006	16. 30	·01325			
23. 5	22. 3. 45	4. 18	·1010	18. 11	·1540			
23. 50	4. 30	4. 25	·1004	18. 16	·01510			
		5. 20	·1006	19. 0	·01520			
		5. 34	·1000	20. 16	·01522			
		6. 50	·1010	21. 15	·01515			
		7. 6	·1007	22. 14	·01520			
			***	22. 49	·01510			
		7. 46	·1020	23. 19	·01585			
		8. 15	·1020	23. 55	·01448			
		8. 31	·1016					
		9. 50	·1014					
		10. 53	·1014					
		12. 36	·1018					
		16. 33	·1026					
		20. 20	·1024					
		22. 30.	·1011					
		23. 59	·1010					
June28		June28		June28		June28		
0. 0	22. 5. 20	0. 0	·1010	0. 0	·01439	1. 40	64 ·0	65 ·0
2. 5	8. 0	1. 13	·1008	2. 5	·01227	3. 40	65 ·5	67 ·0
8. 13	0. 45	2. 50	·1016	3. 45	·01878	9. 40	67 ·0	68 ·5
10. 13	22. 0. 30	4. 6	·1012	3. 59	·00818	21. 40	60 ·0	62 ·0
10. 55	21. 58. 0	5. 0	·1017		(†)			
11. 21	59. 30	5. 39	·1013	12. 2	·00800			
11. 44	21. 58. 30	8. 50	·1023	13. 17	·01990			
12. 45	22. 1. 0		***	14. 15	·01235			
13. 4	21. 59. 35	11. 10	·1025	15. 9	·01275			
13. 35	22. 0. 0	11. 37	·1018	15. 29	·01320			
14. 1	21. 58. 50		***	16. 16	·01460			
14. 58	22. 5. 30	12. 26	·1026	16. 46	·01528			
15. 55	21. 58. 30	13. 15	·1026	16. 52	·01510			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
June28		June28		June28				
h m	° ′ ″	h m		h m		h m	°	°
16. 20	22. 0. 0	14. 40	·1016	17. 53	·01500			
16. 40	21. 57. 0	15. 15	·1026	19. 48	·01490			
17. 31	57. 30	16. 0	·1023	21. 45	·01493			
17. 52	55. 35	16. 26	·1030	22. 23	·01488			
18. 14	57. 35	17. 10	·1026	23. 0	·01500			
21. 7	57. 0	18. 34	·1028	23. 59	·01500			
22. 7	59. 0	22. 26	·1016					
22. 17	21. 57. 0	22. 46	·1008					
22. 53	22. 1. 0	23. 50	·1014					
23. 52	3. 0							
June29		June29		June29		June29		
0. 8	22. 5. 0	0. 34	·1014	0. 0	·00820	1. 40	63 ·5	64 ·5
2. 50	8. 30	2. 35	·1027	0. 38	·00809	3. 40	65 ·0	67 ·0
7. 47	22. 0. 25	3. 18	·1013	1. 53	·00711	9. 40	68 ·5	68 ·5
8. 22	21. 57. 16	4. 0	·1020	2. 34	·00613	21. 55	60 ·0	61 ·0
8. 47	21. 59. 25		***	3. 38	{·00631 ·00729			
11. 32	22. 0. 50	4. 25	·1014					
12. 5	21. 59. 30	6. 20	·1018	5. 40	·00649			
12. 48	22. 1. 30	7. 30	·1016	9. 30	·00605			
13. 15	0. 15	8. 31	·1022	11. 28	·00653			
13. 52	2. 0	9. 15	·1014	11. 53	·00692			
14. 23	0. 0	9. 30	·1016	15. 8	{·01240 ·01200			
14. 50	1. 30		***					
15. 13	22. 0. 0	10. 30	·1014	16. 30	·01210			
19. 14	21. 57. 0	12. 53	·1024	20. 10	·01150			
21. 35	22. 0. 0	13. 38	·1022	23. 58	·01165			
21. 46	21. 58. 0	14. 25	·1026					
23. 8	22. 3. 0	15. 5	·1022					
23. 59	5. 0	17. 15	·1027					
		18. 45	·1026					
		20. 0	·1022					
		20. 30	·1023					
		21. 45	·1026					
		23. 59	·1010					
June30		June30		June30		June30		
0. 22	22. 5. 35	0. 0	·1016	0. 22	·01060	1. 40	64 ·0	65 ·0
3. 26	5. 45	0. 27	·1008	1. 23	·00870	3. 40	66 ·0	67 ·0
6. 34	1. 0	2. 15	·1006	2. 28	·00580	9. 40	67 ·5	68 ·0
12. 44	2. 0	3. 28	·1019	3. 40	{·00630 ·01070	21. 40	57 ·0	60 ·3
12. 59	3. 25	4. 20	·1014					
13. 30	0. 30	4. 40	·1020	5. 38	·00670			
14. 5	22. 2. 30	5. 38	·1021	6. 28	·00650			
18. 15	21. 56. 50	6. 2	·1017	9. 13	·00660			
21. 23	21. 58. 15	6. 45	·1027	11. 23	·00630			
22. 52	22. 3. 30	10. 45	·1022	12. 47	·00650			
23. 59	7. 30	13. 36	·1027	13. 53.	·00750			
		15. 35	·1025	15. 56	·00880			
		18. 6	·1027	19. 12	{·01320 ·01280			
		21. 54	·1014					
		23. 25	·1010	21. 43	·01280			
		23. 59	·1010	22. 30	·01270			
July 1		July 1		July 1		July 1		
0. 12	22. 8. 0	0. 0	·1010	0. 22	·01260	1. 40	62 ·0	63 ·0
1. 38	10. 0	0. 25	·1009	1. 32	·01270	3. 40	63 ·0	64 ·5
5. 12	4. 0	3. 35	·1028	3. 7	{·01290 ·01330	9. 40	63 ·0	64 ·2
6. 43	2. 15	3. 55	·1024			23. 25	62 ·5	64 ·9

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

June 27. Vertical Force Magnet. The spot of light was off the sheet from $4^h.\ 13^m.$ to $12^h.\ 33^m.$

June 28. Vertical Force Magnet. The spot of light was off the sheet from $4^h.$ to $12^h.$

June 29. The adjustments of the Vertical Force Magnetometer were altered so as to lessen the sensibility of the 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.
July 1		July 1		July 1				
h m	° ′ ″	h m		h m		h m	°	°
12. 8	22. 1. 50	7. 8	·1036	4. 2	·01290			
16. 43	21. 57. 45	8. 26	·1036	6. 30	·01190			
17. 44	55. 0	9. 15	·1032	7. 13	·01160			
20. 40	21. 54. 40	13. 55	·1040	8. 3	·01130			
22. 13	22. 1. 30	15. 48	·1034	9. 23	·01110			
22. 28	0. 30	17. 45	·1035	11. 15	·01070			
22. 52	3. 30	18. 55	·1033	11. 43	·01080			
23. 59	5. 20	19. 45	·1018	14. 37	·01150			
		20. 45	·1020 ***	18. 45	{·01300 ·01270			
		23. 0	·1000	20. 43	·01290			
		23. 59	·1001	23. 18	·01170			
July 2		July 2		July 2		July 2		
0. 10	22. 5. 35	0. 0	·1000	0. 38	·01130	9. 50	67 ·0	68 ·0
3. 12	8. 35	0. 30	·0998	2. 48	·00810	21. 40	64 ·0	65 ·0
5. 24	5. 30	2. 20	·1006	3. 53	{·00610 ·00640			
7. 8	22. 3. 0	2. 45	·0999					
8. 23	21. 57. 0	3. 22	·1018	6. 22	·00630			
9. 45	22. 1. 20	4. 2	·1008	11. 35	·01150			
11. 4	22. 1. 40	4. 12	·1012	13. 29	·00690			
11. 26	21. 58. 15	4. 45	·1003	14. 56	·00740			
12. 31	59. 45	5. 18	·1014	16. 25	·00890			
13. 15	54. 30	5. 33	·1008	19. 14	·01180			
14. 12	56. 0	6. 28	·1017	21. 24	{·01320 ·01300			
14. 40	55. 40	7. 0	·1036					
14. 55	54. 0	7. 15	·1026	23. 35	·01310			
15. 14	55. 35	7. 40	·1028	23. 57	·01310			
15. 25	54. 40	8. 35:	·1018					
17. 21	56. 30	9. 15	·1017 ***					
17. 36	55. 25							
18. 7	58. 50	12. 4	·1022					
18. 25	57. 30	12. 15	·1017					
18. 59	58. 30	12. 53	·1018					
19. 3	57. 10 ***	13. 30	·1040					
		14. 42	·1022					
20. 7	55. 30	16. 15	·1018					
20. 14	21. 58. 0	17. 34	·1020					
21. 16	22. 1. 10	18. 0	·1014					
23. 53	3. 15	18. 50	·1024					
		21. 22	·1006					
		22. 9	·0990					
		23. 45	·1006					
July 3		July 3		July 3		July 3		
0. 8	22. 5. 10	0. 15	·1008	0. 14	·01310	1. 40	65 ·0	66 ·0
1. 10	7. 25	0. 52	·0996	1. 50	·01270	3. 40	71 ·0	71 ·0
1. 43	6. 30	1. 46	·1000	5. 25	{·00680 ·00710	9. 40	70 ·5	72 ·3
3. 29	8. 50	3. 30	·1022			21. 40	62 ·0	63 ·5
4. 24	5. 20	4. 21	·1004	5. 42	·00690			
5. 6	7. 25	5. 21	·1027	5. 55	·00710			
5. 39	4. 25	5. 43	·1008	9. 36	·00690			
6. 48	3. 40	6. 16	·1022	10. 27	·00650			
7. 0	2. 0	6. 55:	·1000	11. 56	·00660			
7. 39	1. 0	7. 30	·1018	12. 30	·00690			
8. 0	2. 20	7. 45	·1018	13. 50	·00770			
8. 20	22. 0. 50	8. 2	·1028	14. 34	·00850			
8. 49	21. 57. 0	8. 25	·1014	16. 8	·01010			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 3		July 3		July 3				
h m	° ′ ″	h m		h m		h m	°	°
9. 25	21. 58. 0	8. 57	·1022	18. 55	{·01399 ·01360			
10. 1	22. 1. 0	9. 30	·1016					
12. 12	0. 40	12. 25	·1014	19. 23	·01380			
12. 31	3. 30	12. 36	·1020	20. 19	·01370			
12. 58	22. 0. 15	13. 30	·1013	22. 35	·01390			
14. 16	21. 59. 0	14. 15	·1010	23. 24	·01390			
14. 40	22. 2. 0	14. 59	·1022					
15. 28	21. 57. 30	15. 30	·1012					
16. 6	22. 1. 45	17. 45	·1018					
16. 26	22. 0. 35	18. 35	·1010					
16. 42	21. 58. 0	21. 7	·1008					
17. 30	59. 45	22. 23	·0995					
18. 38	53. 50	22. 55	·0996					
21. 22	21. 57. 30	23. 44	·0984					
23. 40	22. 7. 0	23. 59	·0988					
23. 59	7. 0							
July 4		July 4		July 4		July 4		
0. 17	22. 6. 30	0. 0	·0988	0. 45	·01300	1. 40	65 ·8	67 ·0
2. 52	6. 30	4. 30	·1012	1. 7	·01280	3. 40	67 ·0	68 ·2
5. 47	3. 0	5. 20	·1009	1. 57	·01200	9. 40	66 ·0	68 ·0
8. 21	3. 0	6. 10	·1018	2. 14	·01170	21. 40	61 ·0	62 ·5
8. 47	0. 50	6. 37	·1013 ***	2. 50	·01100			
9. 23	2. 10			3. 23	·01010			
9. 52	0. 0	10. 15	·1015	4. 29	·00830			
11. 3	1. 0	10. 45	·1010	5. 33	·00690			
12. 0	0. 30	18. 0	·1018	6. 7	·00640			
12. 13	2. 30	22. 0	·1000	7. 28	·00630			
12. 51	0. 30	22. 34	·1004	10. 50	·00660			
13. 31	2. 45	23. 59	·0998	11. 24	·00690			
14. 0	22. 0. 30			11. 40	·00730			
16. 8	21. 59. 35			14. 24:	·00950			
17. 33	57. 0 ***			16. 54	{·01370 ·01340			
21. 22	59. 0			18. 7	·01340			
21. 34	21. 58. 0			20. 55	·01310			
23. 59	22. 2. 10			23. 35	·01270			
July 5		July 5		July 5		July 5		
0. 7	22. 2. 0	0. 0	·0998	0. 49	·01270	1. 40	63 ·0	64 ·0
2. 20	5. 25	1. 15	·0995	2. 15:	·01130	3. 40	64 ·0	66 ·0
5. 6	0. 40	3. 36	·1014	4. 10	·00890	9. 40	66 ·0	68 ·0
9. 55	0. 30		***	5. 11	·00750	21. 40	59 ·0	61 ·0
10. 5	2. 10	4. 47	·1002	6. 19	{·00560 ·00580			
10. 52	0. 30	5. 15	·1017					
12. 32	1. 30	6. 39	·1015	7. 30	·00580			
14. 32	0. 20	7. 0	·1020	9. 37	·00590			
14. 55	22. 1. 30	10. 15	·1018	10. 41	·00550			
16. 22	21. 59. 0	11. 35	·1014	11. 36	·00590			
16. 37	22. 0. 0	17. 15	·1021	12. 15	·00620			
18. 15	21. 57. 35	20. 0	·1020	13. 52	·00790			
20. 21	21. 58. 30	23. 0	·1000	15. 42	·01030			
23. 59	22. 2. 45	23. 59	·1007	17. 55	{·01350 ·01300			
				18. 55	·01290			
				21. 39	·01300			
				22. 35	·01280			
				23. 26	·01250			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		July 5 h m		h m	°	°
				23. 59	·01230			
July 6		July 6		July 6		July 6		
0. 13	22. 3. 25	0. 0	·1007	0. 44	·01150	1. 40	63 ·0	65 .0
1. 56:	6. 50	4. 0	·1018	1. 45	·01050	3. 40	66 ·0	68 ·0
3. 34:	5. 0	5. 30	·1010	2. 46	·00930	9. 40	65 ·5	67 ·5
5. 10	1. 40	10. 20	·1021	3. 50	·00770	21. 40	59 ·0	60 ·0
15. 5	22. 0. 0	12. 30	·1018	5. 19	·00610			
17. 28	21. 57. 30	18. 15	·1033	5. 53	{·00540 ·00560			
18. 39	54. 30	20. 50	·1022					
19. 58	54. 0	22. 44	·1021	7. 20	·00540			
20. 13	56. 30	23. 36	·1012	9. 10	·00560			
20. 29	55. 45	23. 59	·1013	10. 15	·00550			
22. 35	21. 59. 10			11. 33	·00590			
23. 59	22. 3. 0			11. 44	·00610			
				13. 5	·00770			
				14. 9	·00930			
				16. 10	{·00320 ·01280			
				17. 54	·01290			
				19. 38	{·01270 ·01210			
				20. 51	·01290			
				21. 49	·01280			
				22. 50	·01240			
				23. 35	·01220			
July 7		July 7		July 7		July 7		
0. 40	22. 3. 30	0. 0	·1013	0. 50	·01120	1. 40	61 ·0	62 ·5
1. 46	6. 40	0. 45	·1024	1. 44	·01060	3. 40	62 ·0	63 ·5
2. 14	7. 0	1. 44	·1029	3. 10	·00890	9. 40	66 ·0	67 ·5
2. 47	8. 10	2. 18:	·1021	5. 20	{·00530 ·00550	21. 40	62 ·0	63 ·0
6. 28	0. 25	2. 49	·1028					
8. 29	0. 0		***	6. 14	·00580			
9. 15	22. 0. 50	3. 40	·1021	9. 23	·00570			
9. 37	21. 58. 0	6. 4	·1029	10. 57	·00540			
10. 28	22. 0. 35	7. 0	·1024	11. 50	·00550			
13. 55	22. 0. 0	7. 45	·1033	12. 45	·00690			
14. 35	21. 59. 0	8. 16	·1028	14. 5	·00680			
14. 57	22. 0. 0	9. 30	·1032	16. 36	·00930			
15. 57	21. 58. 40	10. 0	·1026	18. 54	·01150			
16. 20	56. 0	14. 40	·1032	21. 21	{·01320 ·01280			
17. 7	56. 0	18. 0	·1043					
18. 4	54. 0	18. 55	·1033	22. 48	·01290			
18. 50	54. 30	19. 30	·1042	23. 10	·01310			
19. 8	52. 0	21. 25	·1018	23. 57	·01320			
19. 31	55. 0	22. 44	·1005					
19. 47	52. 50	23. 0	·1019					
20. 7	54. 30	23. 15	·1022					
20. 42	21. 53. 15	23. 59	·1026					
	***							
21. 56	22. 0. 0							
22. 46	21. 59. 30							
23. 17	21. 56. 30							
23. 45	22. 7. 45							
July 8		July 8		July 8		July 8		
0. 3	22. 9. 30	0. 0	·1024	0. 0	·01340	1. 40	63 ·0	64 ·5

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 8 h m	° ′ ″	July 8 h m		July 8 h m		July 8 h m	°	°
0. 14	22. 12. 0	0. 23	·1022	0. 51	·01330	3. 40	65 ·0	66 ·5
1. 18	8. 50	0. 44	·1030	1. 21	·01290	9. 40	69 ·0	69 ·5
1. 51	11. 0	1. 8	·1025	1. 47	·01250	23. 40	64 ·8	66 ·5
2. 48	8. 20	1. 44	·1046	2. 42	·01110			
3. 32	9. 25	2. 29	·1021	3. 13	·01030			
4. 8	7. 40	2. 55	·1028	4. 12	·00770			
4. 42	8. 30	3. 8	·1025	4. 54	{·00630 ·00670			
5. 37	5. 30	3. 30	·1034					
6. 16	6. 0	4. 7	·1023	5. 25	·00660			
6. 27	4. 15	4. 45	·1035	6. 10	·00650			
7. 28	22. 5. 0	5. 17	·0998	6. 36	·00630			
7. 55	21. 53. 0		***	7. 34	·00660			
8. 12	50. 30	5. 55	·1018	7. 57	·00700			
8. 40	56. 0	6. 13	·1034	8. 15	·00670			
8. 55	54. 0	6. 30	·1018	8. 55	·00660			
9. 17	55. 15	6. 52	·1035	9. 23	{·00670 ·00740			
9. 26	54. 30	7. 1	·1032					
9. 43	58. 30		***	10. 25	·00670			
9. 52	21. 56. 30	7. 21	·1044	11. 56	·00650			
10. 6	22. 0. 0	7. 40	·1006	12. 10	·00650			
11. 11	1. 0	8. 0	·1028	12. 47	·00660			
12. 27	22. 0. 0	8. 22	·1021	13. 8	·00650			
12. 38	21. 57. 10	8. 31	·1024	13. 32	·00610			
12. 49	57. 30	8. 45	·1016	13. 53	·00640			
12. 57	55. 30	9. 21	·1014	14. 38	·00720			
13. 14	56. 30	9. 38	·1021	16. 20	·00890			
13. 58	44. 20	11. 30	·1023	16. 51	·00930			
14. 53	55. 30	11. 38	·1018	17. 31	·01030			
15. 55	21. 55. 30	11. 48	·1022	18. 50	·01240			
16. 25	22. 1. 30	12. 16	·1020	19. 43	·01360			
16. 52	21. 58. 25	12. 34	·1043	19. 48	·01350			
17. 11	22. 2. 10	12. 53	·1044	19. 51	·01360			
17. 26	21. 59. 20	13. 34	·1000	21. 3	·01340			
18. 34	54. 40	13. 50	·1014	21. 35	·01350			
	***		***	22. 8	·01370			
21. 26	54. 30	14. 25	·1018	23. 10	·01380			
21. 43	58. 35	16. 34	·1014	23. 56	·01330			
21. 56	56. 25	16. 46	·1006					
22. 7	21. 59. 30	17. 36	·1022					
23. 15	22. 1. 0	19. 45	·1020					
23. 50	4. 0	22. 11	·1000					
		23. 34	·1015					
		23. 59	·1002					
July 9		July 9		July 9		July 9		
0. 7	22. 6. 0	0. 0	·1001	0. 10	·01300	9. 50	67 ·5	69 ·5
0. 25	3. 30	0. 10	·0998	1. 46:	·01130	21. 40	64 ·0	65 ·0
1. 5	4. 45		***	3. 14	·00850			
2. 0	3. 10	1. 53	·1020	4. 15	·00640			
3. 30	5. 10	2. 35	·1007	5. 46	·00650			
4. 25	3. 50	2. 55	·1022	6. 24	·00660			
4. 40	5. 0	3. 7	·1015	8. 49	·00670			
5. 24	2. 50	3. 20	·1019	9. 47	·00610			
5. 38	3. 45	3. 30	·1014	10. 42	·00630			
5. 47	2. 20	4. 8	·1022	11. 35	·00690			
6. 1	22. 2. 40	4. 20	·1012	12. 15	·00730			
6. 28	21. 57. 0	4. 36	·1022	13. 20	·00810			
7. 56	22. 0. 50	4. 55	·1008	14. 23	·00870			

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 9		July 9		July 9		h m	°	°
h m	° ′ ″	h m		h m				
8. 38	21. 59. 30	5. 10	·1022	16. 17	·01090			
8. 47	56. 30	5. 25	·1014	18. 55	{·01430 ·01400			
9. 0	21. 59. 35	5. 37	·1024					
9. 13	22. 3. 30	6. 7	·1003	20. 6	·01380			
	***	6. 36	·1028	21. 38	·01370			
9. 45	21. 59. 0	6. 46	·1024	22. 20	·01370			
10. 41	59. 40		***	23. 42	·01270			
12. 29	57. 10	8. 34	·1024					
13. 10	58. 40	8. 53	·1038					
14. 44	55. 25		***					
15. 47	57. 35	9. 38	·1021					
17. 22	56. 30	9. 52	·1026					
18. 7	54. 30	10. 15	·1020					
20. 1	55. 0	11. 0	·1018					
21. 35	21. 58. 0	12. 15	·1024					
23. 31	22. 7. 30	13. 2	·1021					
23. 59	7. 40	13. 45:	·1040					
		14. 55	·1024					
			***					
		15. 45	·1024					
		18. 55	·1021					
		20. 40	·1014					
		22. 20	·0994					
		22. 50	·0990					
		23. 2	·0098					
		23. 30	·0994					
		23. 40	·1008					
		23. 59	·1010					
July 10		July 10		July 10		July 10		
0. 10	22. 8. 0	0. 0	·1010	0. 45	·01230	1. 40	65 ·2	67 ·0
0. 45	8. 0	0. 27	·1006		***	3. 40	65 ·0	67 ·5
0. 53	6. 0	0. 40	·1010	2. 10	·01170	9. 40	66 ·0	68 ·0
1. 50	8. 0	1. 15	·1014	2. 35	·01160	21. 40	59 ·0	60 ·0
2. 8	10. 10	1. 30	·1025		***			
2. 37	9. 0		***	4. 55	·01090			
3. 18	9. 30	2. 2	·1027	5. 5	·01110			
	***	2. 44	·1016		***			
3. 59	22. 4. 30	3. 7	·1030	7. 55	·00820			
4. 13	21. 53. 25	3. 23	·1021	9. 14	·00740			
4. 19	21. 53. 0	3. 35	·1028	10. 12	·00700			
4. 38	22. 2. 20	3. 55	·1016	10. 52	·00690			
4. 58	21. 57. 35	4. 28	·1082	11. 11	·00560			
5. 20	57. 50	4. 51	·1034	11. 24	·00550			
5. 47	55. 30	5. 8	·1052	11. 35	·00600			
	***	5. 48	·1037		***			
7. 4	56. 0	6. 0	·1042	11. 56	·00630			
7. 33	53. 10	6. 7	·1034	12. 37	·00670			
7. 48	59. 45	6. 25	·1048	13. 2	·00610			
8. 16	53. 0	6. 44	·1034	13. 5	·05620			
8. 48	58. 25	7. 5	·1066	13. 27	·00720			
9. 30	53. 20	7. 15	·1054		***			
9. 58	56. 35	7. 23	·1058	15. 44	·00940			
10. 11	51. 35	7. 31	·1048	16. 5	·00950			
10. 33	21. 55. 30	7. 44	·1054	17. 23	{·01260			
10. 56	22. 16. 15	8. 0	·1015		·01220			
11. 25	21. 58. 35	8. 15	·1014	18. 15	·01290			
11. 30	59. 40	8. 35	·1020	18. 49	·01320			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 10		July 10		July 10		h m	°	°
h m	° ′ ″	h m		h m				
11. 46	21. 55. 0	9. 17	·0984	21. 41	·01330			
11. 56	58. 45	9. 58	·1000	23. 59	·01350			
12. 22	21. 47. 30	10. 14	·0986					
12. 43	22. 9. 30	10. 45	·0992					
13. 7	21. 56. 0	10. 57	·1002					
13. 20	22. 4. 30	11. 21	·0968					
13. 37	21. 55. 20	11. 41	·0995					
14. 0	49. 30	11. 50	·0990					
14. 23	49. 0	12. 1	·1002					
14. 43	55. 30	12. 5	·0987					
15. 7	21. 55. 40	12. 25	·1000					
15. 30	22. 10. 15	12. 34	·1020					
16. 0	21. 54. 30	13. 5	·0982					
16. 28	22. 0. 0	13. 43	·1014					
16. 43	21. 57. 30	13. 51	·1009					
17. 26	22. 7. 0	14. 15	·1025					
17. 37	5. 25	14. 30	·1022					
17. 45	6. 15	14. 45	·1006					
17. 57	0. 30	15. 0	·1010					
18. 40	22. 1. 0	15. 17	·1008					
18. 56	21. 48. 30	15. 30	·1002					
19. 8	53. 40	16. 30	·1018					
19. 18	52. 0	16. 43	·1010					
19. 34	56. 0	17. 8	·1025					
19. 50	21. 56. 0	17. 45	·1017					
20. 56	22. 1. 20		***					
21. 45	0. 30	19. 2	·1018					
23. 5	4. 35	20. 10:	·0993					
23. 47	5. 30	22. 40	·0999					
		23. 59	·1001					
July 11		July 11		July 11		July 11		
0. 10	22. 6. 0	0. 0	·1002	0. 8	·01350	1. 40	63 ·0	64 ·0
1. 0	8. 10	1. 0	·1002	0. 58	·01310	3. 40	65 ·0	67 ·0
1. 45	8. 0		***	2. 9	·01190	9. 40	66 ·0	68 ·0
2. 25	6. 0	1. 51	·0992	2. 48	·01100	21. 40	59 ·0	60 ·0
3. 55	5. 35	2. 37	·1014	4. 38	·00710			
7. 1	0. 0	3. 30	·1010	5. 24	{·00580			
10. 8	0. 0	5. 0	·1017		·00610			
11. 1	22. 1. 30	6. 5	·1014	6. 50	·00570			
11. 20	21. 59. 30	6. 45	·1020	8. 5	·00570			
12. 7	22. 0. 10	7. 5	·1014	9. 40	·00590			
13. 30	21. 58. 0	9. 13	·1014	10. 58	·00570			
14. 34	22. 0. 0	11. 10	·1021	11. 59	·00580			
15. 2	21. 58. 30	11. 27	·1018	12. 20	·00580			
16. 4	22. 0. 0	13. 0	·1022	15. 29	·00790			
19. 55	21. 54. 50	14. 6	·1016	16. 50	·00940			
22. 31	21. 58. 45	15. 17	·1020	19. 20	·01240			
23. 59	22. 3. 0	15. 29	·1016	20. 27	{·01380			
		17. 8	·1026		·01350			
		19. 53	·1022	21. 13	·01330			
		22. 52	·1006	22. 38	·01340			
		23. 53	·1003	23. 59	·01350			
		23. 59	·1004					
July 12		July 12		July 12		July 12		
0. 13	22. 3. 30	0. 0	·1005	0. 15	·01360	1. 40	61 ·0	62 ·0
1. 28	6. 30	1. 28	·1019	1. 51	·01340	3. 40	63 ·5	64 ·5

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet	Of V. F. Magnet.
July 12		July 12		July 12		July 12	°	°
h m	° ′ ″	h m		h m		h m		
2. 54	22. 7. 20	1. 40	·1015	2. 45	·01290	9. 40	63·5	64·5
7. 5	2. 35	3. 4	·1034	4. 14	·01210	21. 40	58·0	59·5
8. 53	2. 0	4. 13	·1026	5. 6	·01160			
9. 10	0. 0		***	6. 5	·01100			
9. 20	22. 0. 15	7. 15	·1038	7. 35	·01060			
9. 38	21. 56. 45	9. 37	·1032	9. 5	·01050			
10. 25	58. 30	10. 5	·1042	10. 38	·01020			
11. 2	21. 58. 25	15. 10	·1030	11. 53	·01030			
11. 53	22. 0. 30	16. 0	·1036	12. 30	·01050			
13. 10	22. 1. 0	19. 15	·1038	13. 55	·01100			
14. 25	21. 59. 0	20. 16	·1026	16. 23	·01260			
15. 50	22. 2. 30	20. 39	·1026	17. 27	·01370			
16. 55	21. 57. 30	21. 13	·1016		·01340			
	***	22. 0	·1018	18. 28	·01340			
19. 45	52. 30	23. 0	·1008	18. 35	·01300			
21. 20	58. 30	23. 15	·1007	19. 50	·01300			
21. 48	21. 58. 0	23. 59	·1008	21. 41	·01310			
23. 59	22. 3. 20			22. 33	·01320			
				23. 5	·01290			
				23. 59	·01250			
July 13		July 13		July 13		July 13		
0. 26	22. 4. 0	0. 0	·1008	0. 30	·01200	1. 40	63·3	64·5
1. 44	6. 0	1. 0	·1006	2. 47:	·00990	3. 40	64·5	66·5
4. 2	5. 50	3. 53	·1023	4. 45	·00590	9. 40	68·0	69·5
5. 20	3. 0	4. 55	·1018		·00610	21. 40	61·0	62·0
7. 47	0. 30	5. 7	·1022	6. 5	·00640			
10. 48	0. 0	5. 23	·1017	9. 29	·00660			
11. 7	22. 2. 20	5. 32	·1022	11. 36	·00590			
11. 40	21. 58. 0	5. 46	·1017	12. 40	·00570			
12. 18	59. 25	6. 23	·1021	14. 50	·00670			
13. 5	57. 30	7. 25	·1015	16. 31	·00820			
13. 51	59. 20	10. 59	·1020	17. 16	·00930			
14. 32	21. 58. 0	12. 15	·1030	21. 22	·01410			
15. 7	22. 0. 0	13. 30	·1020		·01370			
	***	15. 0	·1018	22. 50	·01410			
16. 52	21. 58. 0	16. 30	·1021	23. 59	·01380			
17. 16	59. 40	18. 16	·1017					
18. 24	58. 0	19. 0	·1023					
20. 1	21. 55. 20	20. 39	·1020					
22. 47	22. 5. 0	22. 23:	·0992					
23. 5	7. 20	23. 25	·1000					
23. 59	6. 0	23. 59	·1004					
July 14		July 14		July 14		July 14		
0. 7	22. 6. 0	0. 0	·1005	0. 55	·01310	1. 40	65·0	66·0
0. 42	5. 0	0. 23	·1013		***	3. 40	66·0	67·5
4. 10	6. 30	1. 8	·1014	1. 46	·01250	9. 40	66·0	67·5
7. 55	22. 2. 0		***	2. 36	·01190	21. 40	62·0	64·0
13. 54	21. 59. 40	2. 16	·1022	3. 10	·01140			
14. 38	22. 0. 45	2. 58	·1030	4. 25	·01060			
15. 2	3. 30	5. 36	·1023	6. 20	·00890			
15. 42	22. 0. 30	5. 46	·1016	7. 50	·00790			
18. 0	21. 56. 35	6. 14	·1023	8. 58	·00770			
20. 47	21. 57. 0	9. 35	·1021	10. 5	·00750			
23. 59	22. 4. 0	10. 40	·1027	11. 10	·00730			
		12. 15	·1023	12. 21	·00760			
		13. 27	·1028	13. 21	·00810			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 14		July 14		h m	°	°
July 15		h m		h m		July 15		
0. 30	22. 5. 30	13. 52	·1023	15. 5	·00890	1. 40	65·0	65·8
2. 35	7. 30	15. 8	·1028	17. 35	·01030	3. 40	66·0	67·5
5. 28	2. 30	17. 15	·1028	19. 35	·01170	9. 40	68·0	69·0
5. 40	0. 45	18. 45	·1032	21. 5	·01250	23. 8	64·0	65·5
6. 48	22. 2. 0	22. 30	·1004	23. 25	·01220			
7. 17	21. 56. 15	23. 59	·1010	23. 59	·01200			
7. 58	22. 0. 30	July 15		July 15		July 15		
8. 7	21. 57. 0	0. 0	·1010	0. 30	·01170	1. 40	65·0	65·8
8. 35	22. 3. 25	2. 45	·1023	1. 35	·01140	3. 40	66·0	67·5
10. 28	0. 50	3. 17	·1020	2. 37	·00990	9. 40	68·0	69·0
11. 2	3. 30	3. 35	·1023	3. 8	·00930	23. 8	64·0	65·5
11. 25	2. 0	4. 0	·1022		·00610			
14. 26	0. 0		***	4. 20	·00650			
15. 24:	4. 20	4. 30	·1030	5. 12	·00650			
16. 9	22. 0. 0	5. 13	·1020	6. 44	·00660			
17. 16	21. 58. 35	5. 33	·1027		(†)			
20. 17	21. 57. 0	5. 44	·1018	9. 40	·00615*			
23. 22	22. 1. 30	6. 20	·1035	23. 8	·01394*			
		7. 5	·1014					
		7. 45	·1028					
		8. 2	·1027					
		8. 15	·1041					
		8. 46	·1020					
		9. 13	·1025					
		10. 8	·1023					
		10. 34	·1030					
		10. 45	·1025					
		11. 1	·1030					
		14. 0	·1023					
		15. 47	·1032					
		16. 30	·1027					
		17. 13	·1030					
		18. 23	·1024					
		20. 22	·1026					
		23. 13	·1004					
		23. 36	·1012					
		23. 59	·1004					
July 16		July 16		July 16		July 16		
0. 3	22. 2. 30	0. 0	·1004	0. 0	·01290	8. 18	70·0	72·0
0. 40	3. 35	0. 28	·1012	1. 17	·01050	21. 40	63·0	64·5
1. 13	3. 0	0. 46	·1013	3. 0	·00710			
2. 48	22. 4. 30	1. 0	·1007	3. 9	·00720			
	(†)	1. 45:	·1019	4. 20	·00730			
8. 45	21. 57. 0	2. 38	·1007	7. 37	·00720			
9. 39	58. 30	3. 0	·1001	8. 55	·00670			
11. 1	54. 0	3. 30	·1001	9. 49	·00700			
11. 38	55. 25		***	11. 18	·00750			
11. 57	58. 25	5. 15	·1010	12. 15	·00830			
12. 45	57. 45	5. 34	·1004	13. 5	·00890			
13. 2	21. 56. 0	6. 10	·1010	14. 20	·01020			
13. 34	22. 6. 30	6. 38	·1008	15. 50	·01230			
14. 30	21. 57. 0	7. 14	·1015	17. 21	·01490			
15. 10	59. 30	7. 30	·1010		·01440			
15. 55	56. 20	7. 42	·1014	18. 43	·01450			
21. 20	55. 25	7. 58	·1006	20. 13	·01423			
22. 51	21. 57. 30	8. 8	·1012	21. 38	·01440			

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

July 15. At $6^h.\ 44^m$ the Vertical Force time-piece stopped.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
July 16		July 16		July 16				
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 1. 30	8. 57	·1000	22. 33	·01430			
		9. 23	·1011	23. 24	·01420			
		9. 45	·1005					
		10. 45	·1006					
		11. 18	·1012					
		11. 30	·1011					
		12. 0:	·1020					
		12. 30	·1013					
		12. 46	·1013					
		13. 8	·1007					
		13. 59	·1011					
		14. 35	·1007					
		15. 15	·1016					
		17. 8	·1014					
		19. 59	·1018					
		21. 45	·1012					
		22. 30	·1010					
		23. 53	·0996					
		23. 59	·0997					
July 17		July 17		July 17		July 17		
0. 7	22. 2. 0	0. 0	·0998	1. 5	·01350	1. 40	67 ·0	68 ·8
1. 20	6. 15	1. 23	·1000	2. 47	·01110	3. 40	69 ·0	70 ·0
2. 44	6. 0	2. 15	·0995	4. 15	·00860	9. 40	70 ·0	72 ·5
6. 3	0. 30	3. 23	·1002	5. 35	{ ·00660	21. 40	65 ·0	67 ·0
9. 6	22. 0. 50	4. 24	·1000		{ ·00710			
15. 40	21. 59. 45	6. 55	·1010	7. 43	·00670			
17. 8	22. 1. 15	8. 30	·1014	9. 36	·00680			
17. 48	21. 59. 30	9. 15	·1003	10. 40	·00660			
20. 0	58. 0	17. 30	·1021	11. 45	·00710			
21. 36:	55. 35	19. 22	·1016	13. 0	·00790			
22. 58:	55. 40	19. 45	·1012	14. 55	·00960			
23. 59	59. 0	20. 20	·1014	17. 31	·01230			
		23. 59	·0987	19. 55	{ ·01460			
					{ ·01410			
				20. 54	·01430			
				22. 29	·01430			
				23. 59	·01300			
July 18		July 18		July 18		July 18		
0. 24	22. 0. 0	0. 0	·0987	0. 35	·01210	1. 40	69 ·0	70 ·8
1. 37	3. 15	0. 59	·0990	1. 50	·00950	3. 40	72 ·0	72 ·7
4. 16	22. 2. 30	1. 45	·0985	2. 42	·00730	9. 40	71 ·0	72 ·0
5. 47	21. 59. 45	3. 0	·0994	3. 6	{ ·00670	21. 40	65 ·5	67 ·0
7. 38	21. 59. 0	3. 30	·0988		{ ·00730			
11. 28	22. 0. 30	5. 22	·0998	3. 50	{ ·00750			
12. 7	21. 58. 30	5. 44	·0990		{ ·00820			
13. 53	22. 0. 15	7. 2	·0996	4. 10	·00740			
15. 18	21. 56. 25	7. 50	·0994	5. 9	·00750			
16. 14	57. 30	12. 0	·1018	7. 55	·00710			
20. 13	21. 55. 25	12. 14	·1014	9. 39	·00790			
22. 15	22. 0. 0	14. 33	·1026	10. 30	·00850			
23. 37	0. 10	15. 46	·1026	11. 51	·01070			
23. 59	1. 15	17. 0	·1034	12. 45	·01130			
			***	13. 57	{ ·01470			
		19. 0	·1030		{ ·01430			
		19. 45	·1016	14. 23	·01430			
		21. 45	·1015	17. 32	·01410			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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 18		July 18				
h m	° ′ ″	h m		h m		h m	°	°
		23. 10	·0992	19. 48	·01380			
		23. 55	·0994	21. 40	·01390			
				22. 54	·01320			
				23. 35	·01250			
July 19		July 19		July 19		July 19		
0. 14	22. 2. 0	0. 0	·0993	0. 0	·01170	1. 40	68 ·0	69 ·5
1. 25	4. 50	0. 40	·0988	0. 55	·01060	3. 40	70 ·0	72 ·0
2. 51	22. 4. 0	1. 15	·0994	2. 50	{ ·00670	9. 40	71 ·0	72 ·5
5. 37	21. 59. 0	1. 37	·0989		{ ·00690	21. 40	63 ·0	65 ·0
10. 56	22. 0. 30	2. 47	·1002	3. 20	{ ·00690			
17. 54	21. 57. 0	3. 14	·1001		{ ·00820			
20. 4	57. 15	3. 45	·1008	4. 14	·00710			
20. 50	58. 45	4. 0	·1006	5. 10	·00680			
21. 52	21. 58. 20	4. 23	·1012	9. 30	·00670			
23. 48	22. 3. 15	4. 40	·1008	11. 26	·00710			
			***	12. 16	·00780			
		6. 15	·1008	13. 18	·00900			
			***	14. 43	·01080			
		8. 5	·1016	15. 32	·01201			
		8. 50	·1010	16. 50	{ ·01450			
		12. 16	·1014		{ ·01390			
		18. 45	·1023	18. 32	·01410			
		20. 16	·1008	20. 50	·01390			
		22. 5	·1001	21. 54	·01410			
		23. 0	·1004	23. 26	·01320			
		23. 20	·1008					
		23. 59	·1006					
July 20		July 20		July 20		July 20		
0. 13	22. 5. 0	0. 0	·1006	0. 0	·01250	1. 40	68 ·0	70 ·0
1. 48	6. 0	3. 15	·1010	1. 36	·01030	3. 40	71 ·0	72 ·2
4. 30	0. 40		***	3. 23	{ ·00690	9. 40	73 ·5	75 ·0
6. 3	0. 35	4. 22	·1004		{ ·00750	21. 40	63 ·0	65 ·0
8. 48	22. 1. 20	5. 50	·1007	4. 35	·00760			
9. 40	21. 59. 30	6. 23	·1017	6. 46	·00780			
11. 8	59. 30	6. 45	·1015	9. 22	·00740			
11. 29	58. 0	7. 6	·1019	10. 14	·00730			
12. 25	57. 50	7. 34	·1014	11. 37	·00750			
13. 8	55. 25	9. 15	·1020	12. 15	·00790			
13. 27	56. 30	11. 0	·1015	13. 25	·00860			
17. 5	56. 0	11. 10	·1021	15. 9	·01080			
18. 25	54. 45	12. 10	·1017	16. 26	·01300			
	***	12. 30	·1021	17. 16	{ ·01490			
20. 22	59. 0		***		{ ·01440			
22. 22	21. 59. 0	13. 38	·1008	19. 54	·01410			
23. 46	22. 3. 25	18. 50	·1028	22. 56	·01430			
		20. 30	·1018	23. 45	·01380			
		23. 23	·1001					
		23. 37	·1004					
		23. 59	·1000					
July 21		July 21		July 21		July 21		
0. 0	22. 3. 30	0. 0	·0999	0. 45	·01290	1. 40	70 ·0	72 ·0
2. 40	22. 4. 30	0. 15	·0996	2. 2	·01090	3. 40	71 ·5	73 ·0
4. 41	21. 59. 0	1. 15	·1007	2. 53	·00890	9. 40	74 ·0	76 ·0
5. 37	57. 45	1. 48	·0999	3. 33	{ ·00720	21. 40	69 ·0	71 ·0
9. 41	59. 25	2. 5	·1003		{ ·00760			

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 21		July 21		July 21				
h m	° ′ ″	h m		h m		h m	°	°
11. 48	21. 58. 15	2. 30	·0998	4. 45	·00790			
13. 6	59. 30	4. 10	·0990	5. 27	·00810			
13. 46	57. 30	4. 36	·0992	5. 31	·00850			
14. 44	59. 0	4. 45	·0986	5. 46	·00820			
15. 2	21. 57. 50	5. 31	·0986		***			
16. 8	22. 1. 20		***	7. 46	·00770			
	***	7. 20	·1002	9. 25	·00790			
19. 20	21. 54. 30		***	10. 47	·00810			
20. 59	21. 56. 35	7. 30	·0998	11. 45	·00890			
23. 0	22. 2. 0		***	12. 31	·01000			
23. 59	3. 0	9. 20	·1004	13. 44	·01200			
		18. 45	·1030	15. 20	{·01500			
		19. 23	·1020		{·01460			
		20. 23	·1017	17. 6	·01440			
		21. 45	·1002	18. 2	·01430			
		23. 59	·0997	19. 16	·01430			
				21. 9	·01440			
				22. 42	·01390			
				23. 0	·01360			
				23. 39	·01270			
July 22		July 22		July 22		July 22		
0. 30	22. 4. 0	0. 0	·0998	0. 0	·01210	1. 40	74 ·0	74 ·0
2. 15	0. 30	0. 38	·1000	1. 0:	·01040	3. 40	76 ·5	77 ·0
3. 55	0. 0		***	1. 48	·00780	9. 40	79 ·0	79 ·0
8. 16	22. 5. 30	6. 0	·0982	2. 5	·00810	23. 1	69 ·0	69 ·5
9. 18	21. 58. 0	6. 36	·0990	2. 37	{·00830			
10. 41	57. 35	7. 10	·0987		{·00870			
11. 7	59. 25	7. 15	·0994	2. 50	·00860			
11. 46	59. 30	7. 32	·0988	4. 26	{·00800			
12. 25	57. 0	8. 47	·0983		{·01070			
13. 0	53. 25	10. 15	·0999	5. 48	·01030			
13. 38	53. 30	10. 53	·0998	6. 16	·01020			
14. 14	57. 35	11. 29	·1010	6. 53	·01010			
15. 5	54. 30	11. 40	·1006	7. 7	·01030			
15. 20	57. 0	12. 44	·1010	9. 8	·01050			
15. 48	57. 30		***	10. 30	·01080			
16. 6	54. 30	13. 44	·1003	11. 44	·01190			
18. 16	54. 20		***	12. 53	·01360			
20. 25	56. 30	14. 37	·1018	13. 38	·01500			
22. 6	21. 56. 40	14. 58	·1013	14. 30	{·01700			
23. 59	22. 2. 30	15. 15	·1019		{·01670			
			***	16. 7	·01680			
		16. 7	·1016	19. 20	·01660			
		18. 0	·1027	22. 40	·01680			
		20. 15	·1017	23. 20	·01660			
		23. 5	·0987					
July 23		July 23		July 23		July 23		
0. 7	22. 3. 0	11. 26	·0995*	0. 15	·01580	11. 26	77 ·5	78 ·2
1. 53	22. 4. 0	21. 40	·1007*	0. 45	·01510	21. 40	69 ·5	71 ·0
7. 13	21. 56. 30			1. 42	·01300			
10. 22	57. 30			2. 55	{·00950			
10. 30	56. 35				{·01010			
12. 11	58. 35			4. 25	·01030			
13. 14	57. 30			6. 41	·01000			
16. 4	59. 0				***			
17. 5	21. 56. 0			8. 21	·01040			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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 23				July 23				
h m	° ′ ″	h m		h m		h m	°	°
19. 1	22. 3. 30			8. 55	·01120			
19. 38	21. 58. 45			9. 51	·01200			
19. 47	59. 30			10. 36	·01230			
20. 19	57. 20			11. 25	·01280			
21. 18	21. 56. 40			13. 21	·01530			
22. 47	22. 1. 0			14. 55	{·01770			
23. 17	1. 0				{·01720			
23. 53	5. 0			18. 20	·01700			
				20. 21	·01680			
				21. 50	·01670			
				22. 55	·01610			
				23. 28	·01540			
July 24		July 24		July 24		July 24		
0. 46	22. 5. 0	0. 8	·0983	1. 5	·01330	1. 40	75 ·3	76 ·0
1. 22	6. 35	0. 50	·1000	2. 41	·00960	3. 40	78 ·5	79 ·0
1. 36	4. 30	0. 59	·0994	2. 47	·00980	9. 40	79 ·0	80 ·0
1. 47	6. 15	1. 15	·1013	3. 40	·00990	21. 40	73 ·0	73 ·0
2. 2	4. 30	2. 0	·0975	4. 29	·01000			
2. 38	10. 0	2. 29	·1000		***			
2. 57	5. 30		***	7. 59	·00990			
3. 32	4. 30	3. 17	·0998	8. 29	·00950			
4. 38	7. 30	3. 35	·1006	8. 55	·00960			
5. 12	5. 30		***	9. 39	·00980			
7. 5	22. 1. 30	4. 33	·0996	10. 40	·01050			
7. 26	21. 52. 0	4. 50	·1018	11. 43	·01170			
8. 0	22. 0. 30		(†)	12. 34	·01310			
8. 50	21. 56. 40	9. 40	·0994*	14. 35	·01730			
9. 8	58. 20	21. 40	·0990*	14. 55	·01710			
9. 30	57. 0			16. 36	·01720			
9. 58	51. 15			19. 39	·01710			
10. 12	51. 30			20. 29	·01700			
10. 33	21. 56. 0			21. 30	·01680			
11. 21	22. 0. 30			22. 35:	·01580			
11. 37	21. 59. 0			23. 59	·01380			
12. 0	22. 1. 0							
12. 38	21. 54. 35							
13. 8	57. 30							
	***							
15. 44	21. 59. 20							
16. 19	22. 0. 30							
	***							
18. 43	21. 55. 30							
21. 46	22. 2. 35							
22. 3	2. 0							
23. 1	3. 0							
23. 53	5. 40							
July 25		July 25		July 25		July 25		
0. 3	22. 3. 0	1. 40	·0985*	1. 0	·01010	1. 40	78 ·5	79 ·5
0. 52	5. 0	3. 40	·0988*	1. 22	·01040	3. 40	80 ·0	82 ·0
2. 2	4. 0	9. 40	·0986*	2. 8	·01070	9. 40	83 ·3	83 ·5
2. 25	22. 4. 35	21. 40	·0988*	2. 45	·01100	21. 40	70 ·2	73 ·0
5. 20	21. 59. 15			3. 20	·01070			
8. 19	57. 35			6. 50:	·00810			
8. 51	54. 30			10. 6	·01080			
9. 42	57. 40			11. 39	·01360			
11. 17	21. 57. 30			12. 45	·01480			

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 25				July 25				
h m	° ′ ″	h m		h m		h m	°	°
11. 37	22. 0. 0			20. 30	·01470			
12. 8	21. 57. 30			22. 50	·01460			
12. 32:	22. 3. 0							
12. 58	21. 59. 15							
14. 10	57. 35							
17. 2	59. 40							
20. 32	21. 57. 15							
23. 59	22. 3. 0							
July 26		July 26		July 26		July 26		
0. 12	22. 3. 30	0. 0	·0987	0. 0	·01460	1. 40	73 ·0	74 ·0
2. 23	4. 35	1. 36	·0998	1. 49	·01350	3. 40	74 ·5	75 ·5
4. 45	22. 1. 25	1. 52	·0996	2. 40	·01280	9. 40	75 ·0	76 ·0
9. 13	21. 58. 30	2. 25	·1000	4. 34	·01020	21. 40	67 ·0	68 ·0
13. 27	22. 0. 15	2. 45	·0996	6. 14	·00840			
14. 13	22. 3. 0	5. 15	·1000	7. 24	·00750			
14. 53	21. 58. 0	5. 27	·0994	9. 4	·00750			
17. 5	56. 40	6. 17	·1000	10. 14	·00800			
21. 35	21. 58. 45	6. 50	·0998	11. 42	·01060			
23. 59	22. 7. 0	7. 15	·1004	12. 30	·01240			
		7. 55	·1000	12. 55	·01320			
		8. 25	·1003	13. 55	{ ·01500			
		9. 0	·1001		·01450			
		9. 15	·1004	15. 13	·01450			
		9. 41	·1002	16. 36	{ ·01450			
		9. 55	·1007		·01380			
		10. 20	·1000	17. 14	·01440			
		14. 34	·1021	17. 42	·01460			
		15. 15	·1015	19. 40	·01450			
		19. 30	·1020	21. 36	·01420			
		21. 40	·1008	23. 45	·01430			
			***					
		23. 51	·1004					
		23. 59	·1000					
July 27		July 27		July 27		July 27		
0. 15	22. 7. 15	0. 0	·0999	0. 27	·01420	1. 40	68 ·0	69 ·0
2. 1	12. 30	0. 51	·0999	2. 55	·01300	3. 40	69 ·0	70 ·0
2. 40	13. 0	1. 11	·1009	3. 36	·01240	9. 40	70 ·5	71 ·3
3. 30	10. 30	1. 31	·1004	4. 35	·01160	21. 40	63 ·0	64 ·0
3. 43	5. 15	1. 59	·1014		***			
	***	2. 15	·1004	7. 35	·00810			
4. 31	5. 30	2. 26	·1007	7. 53	·00760			
	***		***	9. 15	·00730			
4. 58	8. 30	2. 57	·1002	9. 44	·00710			
	***	3. 15	·1004	10. 47	·00720			
5. 40	5. 15	3. 33	·1027	11. 48	·00810			
7. 3	22. 4. 0	3. 45	·1011	12. 32	·00980			
7. 20	21. 57. 30		***	14. 30	·01140			
7. 39	22. 5. 30	4. 27	·1020	16. 20	·01410			
7. 55	22. 1. 50	4. 38	·1018		(†)			
8. 40	21. 57. 0	4. 45	·1026	21. 45	·01360			
9. 13	56. 20	5. 0	·1022	22. 13	·01350			
9. 32	47. 30		***	22. 45	·01380			
9. 48	54. 40	5. 34	·0973	23. 6	·01390			
10. 32	21. 56. 10	6. 9	·1003	23. 30	·01380			
10. 54	22. 0. 35	6. 30	.1001					
11. 13	21. 58. 0	6. 45	·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.
July 27		July 27						
h m	° ′ ″	h m		h m		h m	°	°
12. 52	21. 59. 25	7. 10	·1008					
13. 13	22. 2. 15	7. 32	·1024					
13. 55	21. 58. 50	7. 49	·1000					
14. 25	22. 2. 20		***					
14. 50	22. 1. 35	8. 20	·1001					
15. 46	21. 57. 0		***					
16. 18	58. 45	9. 4	·0997					
	(†)	9. 35	·1006					
21. 42	21. 57. 0	9. 49	·0992					
23. 30	22. 2. 30	10. 25:	·1001					
		11. 13	·0988					
		11. 40	·0998					
		12. 30	·1000					
		13. 35	·1014					
		13. 47	·1007					
		15. 5	·1020					
		16. 15	·1016					
			(†)					
		21. 50	·1014					
		23. 30	·1005					
July 28		July 28		July 28		July 28		
1. 40	22. 7. 14*	1. 40	·1015*	0. 0	·01320	1. 40	68 ·0	68 ·5
3. 40	22. 4. 43*	3. 40	·1017*	1. 20	·01090	3. 40	69 ·0	71 ·0
9. 40	21. 59. 22*	9. 40	·1017*	2. 16	·00880	9. 40	70 ·5	72 ·5
21. 40	58. 26*	21. 40	·1010*	3. 14	·00680	21. 40	62 ·0	63 ·5
				3. 46	{ ·00600			
					·00640			
				4. 19	·00630			
				5. 30	·00660			
				8. 10	·00610			
				9. 27	·00630			
				10. 12	·00650			
				11. 21	·00780			
				12. 10	·00890			
				14. 6	·01210			
				15. 22	{ ·01470			
					·01400			
				16. 43	·01420			
				19. 40	·01370			
				21. 35	·01390			
				22. 35	·01350			
				23. 27	·01260			
July 29		July 29		July 29		July 29		
1. 7	22. 7. 30	1. 7	·1002	1. 6	·00990	1. 40	67 ·0	69 ·0
1. 58	7. 35	1. 38	·1001	2. 35	·00630	3. 40	70 ·0	72 ·0
3. 6	4. 0	2. 0:	·0996	2. 39	·00650	9. 40	62 ·0	63 ·0
6. 7	0. 0	3. 27	·1012	3. 40	{ ·00710	22. 0	67 ·0	68 ·5
8. 58	22. 0. 0	3. 55	·1006		·00760			
9. 48	21. 58. 30	4. 2	·1013	5. 50	·00750			
11. 6	22. 0. 15	4. 24	·1008	8. 23	·00730			
12. 41	21. 58. 20	5. 14	·1012	10. 31	·00710			
13. 12	59. 15	6. 55	·1004	11. 49	·00750			
14. 39	55. 30	7. 25	·1014	12. 30	·00840			
15. 26	59. 30	7. 44	·1006	14. 37	·01020			
16. 19	55. 25	9. 6	·1002	15. 21	·01110			
17. 13	56. 0	10. 0	·1007	17. 20	·01380			

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 29	° ′ ″	July 29		July 29		h m	°	°
h m		h m		h m				
18. 13	21. 55. 40	10. 16	·1002	18. 46	{·01540 ·01500			
20. 27	22. 1. 10	10. 43	·1006					
21. 30	0. 0	11. 47	·1000	19. 52	·01520			
22. 40	1. 0	12. 8	·1003	21. 56	·01530			
23. 59	3. 50	12. 37	·1000	22. 45	·01500			
		14. 37	·1012					
		15. 8	·1004					
		16. 8	·1017					
		18. 25	·1015					
		19. 44	·1004					
		21. 50	·1011					
		23. 59	·1000					
July 30		July 30		July 30		July 30		
0. 5	22. 4. 25	0. 0	·1000	0. 10	·01350	11. 10	75 ·0	76 ·0
1. 0	5. 25	0. 49	·0992	0. 46	·01280	21. 40	67 ·0	68 ·0
4. 47	4. 25		***	2. 9	·01030			
6. 4	2. 45	3. 40	·1008	3. 9	{·00790 ·00840			
9. 32	22. 1. 0	4. 34	·1004					
10. 4	21. 53. 45	4. 50	·1010	5. 27	·00830			
10. 38	21. 58. 30		***	6. 20	·00820			
12. 50	22. 0. 10	6. 0	·0999	8. 24	·00790			
13. 36	21. 58. 30	6. 15	·1005	9. 14	·00770			
14. 21	22. 2. 30	6. 55	·1002	10. 38	·00810			
14. 37	1. 20	7. 14	·1008	11. 30	·00890			
15. 17	22. 1. 0	7. 30	·1004	12. 37	·01040			
15. 43	21. 58. 35	9. 19	·1008	14. 35	·01310			
17. 18	22. 0. 0	10. 4	·0998	16. 5	{·01540 ·01500			
17. 54	21. 57. 25	10. 25	·1006					
20. 10	21. 57. 15	14. 0	·1008	17. 35	·01530			
21. 54	22. 2. 30		***	19. 50	·01520			
22. 53	3. 0	15. 45	·1018	22. 39	·01520			
23. 59	5. 20	16. 6	·1014	23. 59	·01500			
		16. 50	·1014					
		17. 35	·1021					
		18. 0	·1014					
		21. 10	·1016					
		22. 52	·1013					
		22. 53	·1000					
		23. 59	·0998					
July 31		July 31		July 31		July 31		
0. 17	22. 5. 40	0. 0	·0998	0. 30	·01490	1. 40	69 ·0	71 ·0
1. 35	5. 40	0. 20	·0999	1. 46	·01410	3. 40	72 ·0	73 ·0
2. 35	7. 35	1. 13	·1008	3. 0	·01300	9. 40	74 ·5	74 ·5
5. 13	4. 30	1. 25	·1004	5. 6	·00990	21. 40	67 ·0	68 ·0
5. 47	4. 40	2. 32	·1014	6. 57	{·00740 ·00760			
6. 20	1. 30	3. 8	·1004					
6. 45	2. 40	4. 23	·1013	8. 17	·00740			
8. 8	1. 35		***	10. 19	·00760			
10. 50	1. 35	5. 50	·1002	11. 42	·00820			
11. 46	0. 15	6. 15	·1008	13. 20	·00960			
17. 17	1. 30	6. 45	·1000	15. 11	·01160			
20. 7	0. 0	9. 50	·1013	17. 28	·01470			
23. 18	7. 20	10. 40	·1008	18. 10	{·01550 ·01500			
23. 59	7. 30	11. 44	·1018					
		12. 28	·1013	19. 6	·01510			
		21. 5	·1018	19. 35	{·01500 ·01440			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
July 31	° ′ ″	July 31		July 31		h m	°	°
h m		h m		h m				
22. 45		20. 17	·1000	20. 17	·01500			
			***	21. 23	·01510			
23. 59		23. 59	·1002	23. 59	·01510			
Aug. 1		Aug. 1		Aug. 1		Aug. 1		
0. 33	22. 7. 30	0. 0	·1002	0. 30	·01510	1. 40	69 ·0	70 ·5
2. 32	9. 25	1. 10	·1004	1. 53	·01470	3. 40	70 ·0	71 ·0
5. 14	4. 0	2. 30	·1000	4. 12	·01270	9. 40	69 ·0	71 ·0
8. 25	1. 30	5. 5	·1001	5. 42	·01210	21. 40	62 ·0	63 ·0
8. 55	2. 30	8. 55	·1021	7. 21	·01130			
9. 47	0. 35	17. 46	·1027	8. 22	·01170			
10. 28	2. 20	18. 15	·1020	10. 19	·01250			
13. 5	1. 0	18. 52	·1026	11. 40	·01390			
13. 50	22. 2. 35	23. 0	·1013	13. 55	·01500			
18. 58	21. 58. 0	23. 28	·1014	15. 1	{·01480 ·01420			
20. 33	21. 59. 30							
23. 12	22. 5. 0			15. 35	·01470			
				17. 29	·01470			
				20. 26	·01450			
				21. 40	{·01460 ·01490			
				22. 28	·01470			
				23. 59	·01430			
Aug. 2		Aug. 2		Aug. 2		Aug. 2		
0. 22	22. 5. 0	0. 25	·1015	0. 30	·01230	1. 40	66 ·0	68 ·0
1. 25	6. 30	2. 30	·1008	1. 30	·01090	3. 40	67 ·5	69 ·5
2. 20	6. 30	3. 45	·1014	2. 26	·00930	9. 40	71 ·0	72 ·0
9. 9	22. 1. 30	4. 30	·1006	3. 14	·00750	21. 40	66 ·0	68 ·0
18. 44	21. 57. 45	4. 55	·1015	3. 43	·00640			
20. 32	59. 20	5. 13	·1012	3. 47	·00670			
21. 28	21. 58. 0	5. 24	·1016	5. 29	·00680			
22. 12	22. 1. 0	5. 43	·1008	7. 46	·00690			
22. 35	1. 0	6. 45	·1017	9. 45	{·00710 ·00800			
23. 23	3. 30	8. 8	·1016					
23. 37	6. 30	15. 30	·1023	11. 38	·00750			
23. 59	5. 15	16. 20	·1030	12. 30	·00750			
		22. 0	·1032	14. 12	·00820			
		23. 30	·1027	15. 44	·00970			
				17. 25	·01150			
				19. 8	·01370			
				20. 2	·01490			
				20. 55	·01470			
				22. 22	·01470			
				23. 36	·01450			
Aug. 3		Aug. 3		Aug. 3		Aug. 3		
0. 2	22. 5. 0	1. 40	·0921*	0. 25	{·01440 ·01410	1. 40	66 ·0	68 ·0
0. 17	6. 0	3. 40	·1039*			3. 40	66 ·0	68 ·0
0. 58	9. 20	9. 40	·1029*	2. 35	·01460	9. 40	64 ·5	67 ·5
1. 22	8. 15	21. 40	·1009*	3. 10	{·01500 ·01400	21. 40	60 ·0	61 ·0
2. 0	11. 15							
2. 47	9. 30			5. 6	·01410			
2. 58	5. 0				***			
3. 17	11. 30			9. 36	·01400			
3. 32	12. 45			11. 26	·01390			
3. 42	11. 0			12. 5	·01510			
5. 18	7. 0				***			
6. 0	12. 10			14. 21	·01380			

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. 3				Aug. 3				
h m	° ′ ″	h m		h m		h m	°	°
6. 7	22. 9. 30				***			
6. 16	22. 10. 15			14. 45	·01340			
7. 45	21. 56. 35			18. 9	·01530			
8. 58	22. 3. 15			19. 35	·01590			
9. 25	2. 30				***			
10. 2	4. 0			22. 15	·01560			
10. 10	22. 2. 20			23. 35	·01510			
11. 2	21. 59. 30							
11. 21	22. 0. 35							
11. 40	21. 58. 30							
12. 6	22. 5. 50							
12. 27	22. 0. 0							
13. 35	21. 45. 10							
13. 56	45. 30							
14. 18	52. 30							
14. 36	59. 35							
14. 52	53. 0							
15. 23	57. 0							
15. 37	56. 20							
16. 17	58. 45							
16. 49	58. 0							
17. 10	58. 30							
17. 22	21. 56. 0							
18. 19	22. 3. 0							
19. 42	21. 56. 30							
21. 43	21. 59. 20							
23. 59	22. 6. 50							
Aug. 4		Aug. 4		Aug. 4		Aug. 4		
0. 17	22. 8. 0	0. 30	·1022	0. 17	·01300	1. 40	60 ·0	61 ·5
2. 17	9. 30	1. 25	·1041	0. 54	·01210	3. 40	60 ·0	62 ·0
4. 0	7. 20	1. 43	·1035	1. 15	·01180	9. 40	61 ·0	63 ·0
4. 18	8. 30	1. 52	·1046	1. 47	·01210	21. 40	59 ·0	60 ·0
5. 14	1. 30	2. 30	·1038	2. 34	·01170			
6. 7	3. 0	3. 55	·1056	3. 6	·01200			
6. 25	0. 50	4. 15	·1038	4. 44	·01250			
7. 8	4. 30		***	7. 23	·01270			
7. 43	2. 20	4. 46	·1054	8. 24	·01210			
8. 1	3. 0	5. 0	·1037	9. 21	·01100			
8. 12	1. 50	5. 10	·1048	10. 22	·01080			
8. 32	3. 50	5. 17	·1038	11. 36	·01060			
8. 53	22. 3. 50	5. 35	·1050	11. 45	·01240			
9. 7	21. 59. 45	5. 45	·1042	12. 47	·01220			
9. 17	22. 3. 0	6. 20	·1044	13. 14	·01190			
9. 36	2. 20	6. 50:	·1053	13. 47	·01220			
9. 58	4. 0		***	14. 36	·01170			
10. 48	22. 1. 50	8. 0	·1038	16. 55	·01260			
11. 8	21. 54. 0	8. 34:	·1052	19. 51	·01250			
11. 35	22. 5. 30	8. 55	·1041	20. 47	·01150			
11. 54	3. 15	9. 14	·1059	21. 40	·01090			
12. 4	22. 4. 0	9. 35	·1041	23. 37	·01050			
12. 25	21. 59. 30	10. 0	·1050					
13. 1	22. 3. 45	10. 15	·1043					
13. 45	21. 55. 30	10. 45	·1048					
13. 52	56. 30	10. 54	·1062					
14. 6	55. 10	11. 6	·1051					
14. 22	59. 30	11. 19	·1059					
15. 12	21. 59. 45	11. 35	·1060					
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 4		Aug. 4						
h m	° ′ ″	h m		h m		h m	°	°
15. 37	22. 1. 0	12. 8:	·1041					
16. 26	21. 57. 0	12. 54	·1058					
	***	13. 23	·1044					
19. 30	21. 57. 0	13. 49	·1078					
21. 32	22. 3. 0	14. 45	·1026					
22. 9	2. 40	15. 0	·1042					
22. 45	5. 30	16. 19	·1048					
22. 53	5. 30		***					
		18. 5	·1042					
		19. 0	·1030					
		20. 6	·1034					
		21. 40	·1024					
		22. 38	·1027					
		23. 0	·1022					
		23. 59	·1018					
Aug. 5		Aug. 5		Aug. 5		Aug. 5		
0. 7	22. 5. 0	0. 10	·1018	0. 45	·01070	1. 40	59 ·0	60 ·0
0. 45	7. 0	0. 30	·1030	1. 53	·01050	3. 40	61 ·0	62 ·0
2. 10	6. 30		***	3. 14	·00990	9. 40	61 ·0	62 ·0
2. 33	8. 50	0. 55	·1023	4. 43	·00870	23. 2	58 ·0	59 ·5
2. 35	8. 35		***	5. 55	·00790			
4. 8	7. 0	2. 38	·1041	7. 44	·00630			
4. 52	2. 0		***	9. 7	·00600			
5. 7	2. 50	4. 20	·1020	10. 35	·00510			
6. 9	3. 0		***	11. 48	·00520			
6. 21	4. 10	5. 50	·1036	12. 50	·00540			
8. 20	3. 50	6. 5	·1028	14. 40	·00550			
8. 59	0. 30	7. 45	·1042	15. 38	·00560			
9. 11	1. 15	8. 29	·1034	17. 42	·00680			
	(†)	8. 45	·1040	19. 32	·00790			
16. 50	22. 1. 10		(†)	21. 43	·00870			
18. 18	21. 59. 0	17. 15	·1024	23. 16	·00880			
19. 50	22. 0. 30	18. 40	·1026					
20. 58	21. 59. 0	19. 55:	·1020					
21. 47	22. 0. 0	21. 15	·1027					
22. 20	3. 0	23. 15	·1024					
23. 18	5. 0							
23. 59	7. 0							
Aug. 6		Aug. 6		Aug. 6		Aug. 6		
	(†)	0. 0	·1023	0. 0	·00880	11. 5	66 ·0	66 ·5
11. 7	22. 1. 30		***	1. 21	·00840	21. 40	60 ·0	61 ·0
11. 22	21. 59. 35	1. 39	·1032	1. 34	·00830			
12. 17	21. 58. 40		(†)		(†)			
13. 13	22. 3. 30	11. 15	·1038	11. 5	·00470			
13. 18	2. 30	12. 15	·1021	12. 32	·00570			
15. 21	1. 0	13. 10	·1026	13. 50	·00580			
15. 42	22. 2. 15	13. 33	·1020	15. 20	·00650			
17. 1	21. 59. 10	16. 30	·1028	18. 25	·00860			
17. 41	22. 1. 0	17. 37	·1024	19. 49	·00960			
18. 20	0. 15	18. 50	·1030	21. 22	·01050			
19. 5	22. 1. 0	22. 0	·1015	22. 49	·01100			
19. 32	21. 59. 20	23. 59	·1008	23. 59	·01080			
20. 20	59. 50							
20. 47	21. 59. 0							
22. 32	22. 2. 20							
23. 59	8. 0							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Aug. 7	° ′ ″	Aug. 7		Aug. 7		Aug. 7	°	°
h m		h m		h m		h m		
1. 40	22. 9. 3*	1. 40	·1021*	0. 40	·00700	1. 40	61 ·0	62 ·0
3. 40	5. 15*	3. 40	·1025*	1. 58	·00950	3. 40	64 ·0	65 ·0
9. 40	0. 32*	9. 40	·1022*	3. 25	·00740	9. 40	68 ·5	69 ·0
21. 40	0. 8*	21. 40	·1009*	4. 8	{·00620 ·00670	21. 40	62 ·0	66 ·0
				6. 22	·00710			
				7. 48	·00680			
				10. 53	·00650			
				11. 51	·00670			
				13. 15	·00740			
				15. 50	·00990			
				17. 49	·01250			
				19. 46	{·01470 ·01450			
				21. 24	·01430			
				23. 30	·01380			
Aug. 8		Aug. 8		Aug. 8		Aug. 8		
1. 40	22. 8. 12*	1. 40	·1023*	0. 0	·01380	1. 40	65 ·0	66 ·0
3. 40	22. 4. 3*	3. 40	·1019*	0. 51	·01280	3. 40	68 ·5	69 ·5
9. 40	21. 59. 3*	9. 40	·1014*	1. 54	·01050	9. 40	71 ·5	71 ·5
21. 40	59. 44*	21. 40	·1007*	2. 39	·00860	21. 40	65 ·5	67 ·0
				3. 8	{·00730 ·00770			
				4. 58	·00760			
				7. 51	·00740			
				8. 54	·00750			
				10. 39	·00730			
				11. 25	·00750			
				12. 54	·00840			
				13. 51	·00910			
				16. 58	·01240			
				18. 6	·01370			
				19. 40	·01510			
				19. 42	·01480			
				20. 35	·01470			
				22. 47	·01480			
				23. 59	·01400			
Aug. 9		Aug. 9		Aug. 9		Aug. 9		
0. 53	22. 9. 0	1. 0	·1014	1. 3	·01260	1. 40	68 ·0	69 ·5
1. 58	9. 20	4. 2	·1020	2. 46	·00970	3. 40	70 ·0	71 ·0
4. 32	22. 2. 0	5. 30	·1013	3. 41	{·00780 ·00880	9. 40	70 ·3	71 ·5
6. 36	21. 59. 50	6. 49	·1012			21. 40	66 ·5	68 ·0
8. 8	22. 0. 50	9. 0	·1022	5. 15	·00810			
9. 31	21. 57. 0	9. 20	·1016	7. 19	·00800			
10. 2	59. 20	9. 45	·1021	7. 23	·00820			
10. 21	58. 30	11. 20	·1013	8. 22	·00790			
	***	12. 0	·1020	10. 7	·00800			
17. 12	58. 40	12. 25	·1016	11 31	·00890			
17. 56	57. 10	16. 8	·1028	13. 9	·01030			
20. 13	21. 56. 30	22. 14	·1012	15. 30	·01240			
21. 8	22. 0. 30	23. 34	·1021	18. 24	·01550			
22. 16	1. 0	23. 59	·1018	18. 27	·01530			
23. 52	5. 30			20. 41	·01490			
				22. 46	·01480			
				23. 44	·01480			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force 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.
Aug. 10	° ′ ″	Aug. 10		Aug. 10		Aug. 10	°	°
h m		h m		h m		h m		
0. 1	22. 5. 35	0. 0	·1018	0. 0	·01480	1. 40	68 ·0	69 ·0
1. 23	8. 30	2. 10	·1023	1. 19	·01420	3. 40	69 ·5	71 ·0
2. 8	8. 25	2. 26	·1018	2. 6	·01320	9. 40	71 ·0	72 ·6
3. 31	3. 35	3. 0	·1018	2. 16	·01290	21. 40	64 ·0	66 ·5
5. 33	1. 30	3. 25	·1019	2. 36	·01250			
9. 40	22. 1. 0	4. 0	·1012	4. 23	·00980			
9. 53	21. 59. 40	4. 48	·1012	5. 19	{·00800 ·00830			
11. 4	22. 0. 35	5. 15	·1006					
11. 25	21. 59. 35	6. 15	·1014	6. 35	·00820			
12. 52	22. 0. 50		***	7. 17	·00810			
13. 22	21. 57. 30	7. 0	·1010	7. 20	·00870			
14. 20	21. 56. 30	9. 30	·1018	8. 39	·00790			
16. 7	22. 0. 35	10. 35	·1014	9. 25	·00790			
18. 6	21. 57. 30	10. 40	·1003	10. 42	·00780			
20. 4	56. 45	11. 3	·1017	11. 32	·00810			
20. 54	21. 58. 30	11. 16	·1010	12. 37	·00890			
21. 25	22. 2. 30		***	14. 25	·01080			
22. 38	4. 0	12. 45	·1014	17. 10	·01510			
23. 17	7. 35	13. 15	·1022	18. 15	·01480			
23. 59	8. 0	14. 30	·1018	20. 15	·01460			
		18. 25	·1028	21. 20	·01470			
		22. 32	·1002	22. 38	·01460			
		23. 50	·1002	23. 20	·01440			
		23. 59	·1006	23. 59	·01390			
Aug. 11		Aug. 11		Aug. 11		Aug. 11		
0. 16	22. 7. 30	0. 0	·1006	0. 6	·01380	1. 40	68 ·0	69 ·5
1. 10	5. 30	1. 0	·1002	1. 38	·01150	3. 40	70 ·5	72 ·0
2. 25	6. 0	1. 30	·1013	2. 38	·00890	9. 40	73 ·3	74 ·0
2. 43	22. 4. 40	2. 30	·1010	3. 15	·00880	21. 40	66 ·5	68 ·0
5. 17	21. 59. 0	2. 45	·1004	4. 40	{·00860 ·00930			
8. 24	59. 30	3. 16	·1011					
8. 47	58. 15		***	5. 4	·00850			
9. 16	59. 30	4. 50	·1007	7. 24	·00810			
12. 1	59. 20		***	10. 38	·00820			
12. 47	58. 0	7. 0	·1016	11. 23	·00850			
13. 35	21. 59. 50		***	12. 17	·00930			
14. 47	22. 0. 0	8. 32	·1007	14. 20	·01140			
15. 12	21. 58. 0	9. 15	·1013	15. 8	·01250			
16. 6	22. 0. 30	12. 0	·1017	16. 56	·01550			
17. 37	21. 57. 0	12. 25	·1021	21. 21	·01500			
20. 15	21. 57. 0	13. 0	·1016	23. 20	·01510			
22. 28	22. 2. 30	15. 0	·1026					
23. 9	2. 10	20. 0	·1027					
23. 59	5. 30	21. 45	·1012					
		23. 59	·1014					
Aug. 12		Aug. 12		Aug. 12		Aug. 12		
0. 13	22. 6. 0	0. 0	·1016	0. 0	·01510	1. 40	68 ·5	70 ·0
1. 25	8. 0	2. 39	·1016	1. 39	·01430	3. 40	69 ·0	72 ·0
5. 7	1. 15	3. 38	·1022	3. 22	·01260	9. 40	70 ·5	72 ·5
10. 17	22. 1. 30	14. 30	·1038	5. 20	·01040	22. 31	66 ·0	67 ·5
12. 50	21. 58. 40	15. 15	·1034	7. 16	·00780			
14. 2	22. 0. 0	18. 45	·1040	10. 17	·00780			
14. 50	21. 58. 30	20. 30	·1033	12. 18	·00930			
15. 33	22. 2. 30	23. 59	·1032	13. 21	·01060			
16. 44	22. 0. 30			14. 38	·01210			
20. 36	21. 58. 50			16. 47	·01510			

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. 12				Aug. 12				
h m	° ′ ″	h m		h m		h m	°	°
22. 44	22. 3. 30			16. 49	·01480			
				19. 24	·01490			
				21. 38	·01510			
				22. 39	·01470			
				22. 49	·01460			
Aug. 13		Aug. 13		Aug. 13		Aug. 13		
0. 5	22. 3. 10	0. 20	·1030	0. 0	·01330	9. 57	76 ·0	77 ·5
2. 25:	7. 15	2. 45	·1010	1. 38	·01070	21. 40	69 ·0	72 ·0
4. 0	22. 4. 0	4. 40	·1004	2. 51	·00820			
8. 32	21. 59. 0	9. 50	·1012	4. 5	·00900			
16. 23	22. 0. 0	18. 15	·1022	6. 8	·00880			
20. 2	21. 57. 30	20. 8	·1019	9. 45	·00850			
21. 15	21. 58. 30	22. 40	·1006	9. 52	·00860			
22. 58	22. 5. 0	23. 59	·1013	10. 45	·00860			
23. 59	5. 35			11. 36	·00880			
				12. 34	·00900			
				14. 23	·00990			
				16. 25	·01210			
				17. 51	·01450			
				18. 48	·01570			
				20. 20	·01550			
				21. 34	·01540			
				22. 51	·01520			
				23. 30	·01520			
Aug. 14		Aug. 14		Aug. 14		Aug. 14		
0. 7	22. 6. 0	0. 0	·1013	0. 0	·01510	1. 40	73 ·0	74 ·0
0. 36	6. 30		***	2. 8	·01280	3. 40	74 ·5	75 ·0
0. 45	8. 0	5. 45	·1010	3. 44	·00950	9. 40	73 ·0	74 ·0
1. 52	22. 8. 30	7. 21	·1016	4. 30	{·00810	21. 40	63 ·0	65 ·0
6. 14	21. 59. 30	8. 0:	·1022		{·00850			
12. 15	22. 0. 20	9. 4	·1014	5. 26	·00840			
13. 20	21. 58. 30	16. 45	·1034	6. 47	{·00830			
17. 7	58. 30	17. 18	·1030		{·00940			
17. 29	59. 35	18. 0	·1036	7. 34	·00900			
18. 28	21. 57. 50	20. 0	·1035	9. 17	·01000			
20. 9	22. 0. 0	22. 53	·1022	11. 24	·01210			
22. 55	6. 30	23. 59	·1016	12. 19	·01370			
23. 59	6. 35			13. 10	{·01540			
					{·01500			
				14. 58	·01490			
				17. 21	·01460			
				20. 29	·01440			
				22. 41	·01480			
				23. 13	·01460			
Aug. 15		Aug. 15		Aug. 15		Aug. 15		
0. 13	22. 6. 30	0. 0	·1015	0. 0	·01430	1. 40	67 ·5	69 ·5
1. 2	6. 30	3. 32	·1013	1. 26	·01270	3. 40	68 ·5	70 5
4. 48	22. 1. 30	9. 45	·1037	3. 38	·00880	9. 40	67 ·0	68 ·0
15. 22	21. 58. 0	14. 45	·1050	4. 38	·00680	21. 40	61 ·0	63 ·0
21. 47	21. 59. 10	18. 45	·1048	4. 43	·00700			
23. 46	22. 5. 0	23. 0	·1038	6. 4	·00690			
				8. 4	·00650			
				9. 22	·00730			
				11. 1	·00890			
				11. 45	·00990			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermo meters. Of H. F. Magnet	Of V. F. Magnet.
				Aug. 15				
h m	° ′ ″	h m		h m		h m	°	°
				12. 40	·01120			
				14. 5	·01310			
				15. 3	{·01450			
					{·01410			
				16. 40	·01420			
				18. 9	{·01420			
					{·01330			
				18. 57	·01410			
				20. 19	·01410			
				21. 34	·01390			
				23. 4	·01400			
				23. 39	·01400			
Aug. 16		Aug. 16		Aug. 16		Aug. 16		
0. 1	22. 6. 30	0. 0	·1032	0. 0	·01410	1. 40	63 ·0	65 ·0
1. 20	7. 30		***		***	3. 40	65 ·0	67 ·0
1. 25	6. 0	1. 40	·1027	1. 42	·01280	9. 40	65 ·0	67 ·5
5. 23	1. 0		***	2. 7	·01210	21. 40	59 ·0	60 ·5
7. 12	0. 0	3. 30	·1038		***			
9. 18	22. 2. 0	3. 36	·1027	4. 23	·00720			
13. 22	21. 59. 30		***	4. 44	{·00640			
17. 10	59. 30	4. 35	·1036		{·00660			
20. 18	57. 20	7. 0	·1030	6. 59	·00650			
21. 38	21. 59. 30	7. 14	·1038	9. 13	·00650			
22. 52	22. 5. 0	7. 40	·1032	10. 51	·00680			
23. 50	7. 0	7. 55	·1036	11. 33	·00740			
		8. 17	·1032	12. 27	·00830			
			***	13. 21	·00910			
		11. 30	·1037	15. 14	·01210			
		12. 19	·1032	16. 21	{·01430			
		19. 0	·1043		{·01380			
		22. 15	·1024	18. 37	·01390			
		23. 45	·1019	20. 11	·01400			
				22. 38	·01390			
				23. 35	·01350			
				23. 45	·01330			
Aug. 17		Aug. 17		Aug. 17		Aug. 17		
0. 0	22. 6. 15	0. 20	·1024	0. 0	·01320	1. 40	62 ·5	63 ·5
1 4 8	8. 25	2. 0	·1035	1. 6	·01220	3. 40	64 ·0	65 ·0
2. 46	5. 30	2. 45	·1030	2. 30	·01040	9. 40	64 ·5	67 ·5
4. 15	4. 40	3. 5	·1036	5. 13	·00690	21. 40	58 ·0	59 ·5
	(†)	3. 33	·1032	6. 16	·00590			
10. 6	0. 40	4. 15	·1034	7. 54	·00640			
11. 42	0. 0		(†)	9. 23	·00640			
12. 0	0. 35	10. 6	·1041	10. 44	·00610			
14. 27	0. 30	18. 17	·1048	11. 36	·00630			
14. 52	2. 20	22. 35	·1034	12. 32	·00670			
15. 45	22. 0. 35	23. 59	·1033	14. 1	·00780			
19. 17	21. 58. 50			16. 10	·01040			
20. 20	21. 59. 30			17. 32	·01250			
22. 15	22. 4. 10			18. 33	·01410			
23. 59	7. 0			18. 35	·01370			
				19. 30	·01370			
				20. 13	{·01370			
					{·01300			
				20. 50	·01370			
				21. 36	·01360			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		Aug. 17 h m		h m	°	°
				22. 54	·01360			
				23. 8	·01350			
Aug. 18		Aug. 18		Aug. 18		Aug. 18		
0. 14	22. 7. 30	0. 0	·1033	0. 0	·01340	1. 40	61 ·0	63 ·5
1. 0	8. 0	4. 27	·1032	0. 59	·01280	3. 40	63 ·5	65 ·0
2. 25	8. 25	6. 30	·1022	2. 14	·01080	9. 40	65 ·0	66 ·5
5. 50	2. 0	7. 40	·1028	4. 2	·00670	21. 40	62 ·0	64 ·0
7. 56	22. 2. 0	12. 40	·1034	4. 9	·00640			
10. 2	21. 59. 30	12. 59	·1040	4. 12	·00670			
11. 45	22. 0. 35	13. 34	·1034	6. 21	·00690			
19. 15	21. 58. 45	15. 44	·1038	8. 43	·00690			
21. 41	22. 1. 10	19. 25	·1037	10. 40	·00660			
22. 23	2. 40	22. 15	·1026	11. 20	·00650			
				12. 35	·00650			
				13. 54	·00670			
				15. 15	·00730			
				16. 51	·00830			
				18. 44	·01000			
				21. 15	·01230			
				22. 24	·01250			
				23. 20	·01360			
Aug. 19		Aug. 19		Aug. 19		Aug. 19		
1. 40	22. 8. 55*	1. 40	·1021*	1. 40	·00854*	1. 40	68 ·5	70 ·5
3. 40	22. 6. 20*	3. 40	·1016*	3. 40	·00854*	3. 40	70 ·5	72 ·5
9. 40	21. 59. 36*	9. 40	·1017*	9. 40	·00803*	9. 40	74 ·5	76 ·5
23. 20	22. 6. 2*	23. 30	·1008*	23. 20	·01528*	23. 30	68 ·7	70 ·5
Aug. 20		Aug. 20		Aug. 20		Aug. 20		
0. 0	22. 10. 30	0. 5	·1002	0 .	·01510	10. 50	73 ·7	76 ·0
0. 13	12. 35	0. 37	·1017		***	21. 40	65 ·0	68 ·5
0. 22	12. 0	1. 0	·0998	2. 8	·01310			
1. 4	14. 30	1. 20	·1002		***			
1. 50	10. 0		***	3. 54	·00940			
3. 5	10. 35	1. 58	·0989	4. 10	·00850			
4. 40	3. 10		***		·00890			
6. 1	22. 3. 0	2. 53	·1003	4. 36	·00900			
6. 40	21. 43. 45		***		***			
7. 3	54. 10	3. 39	·0988	6. 37	·00890			
7. 25	52. 50	3. 45	·1000	6. 54	·00900			
7. 40	55. 35		***	7. 5	·00880			
7. 56	54. 0	4. 16	·0996		***			
8. 22	59. 25		***	9. 31	·00820			
8. 45	56. 0	4. 54	·1010	9. 43	·00900			
9. 7	55. 0	5. 39	·0989	10. 45	·00940			
9. 52	58. 30	6. 6	·1013	11. 46	·01020			
10. 30:	21. 56. 35	6. 28	·0994	12. 16	·01100			
11. 20	22. 0. 30	6. 50	·1028	12. 54	·01150			
11. 55	21. 54. 50	7. 6	·1014	13. 35	·01280			
12. 34:	22. 5. 40		***		·01530			
13. 20	21. 53. 45	7. 32	·1016	14. 44	·01490			
14. 18	22. 5. 30	7. 47	·1002	16. 39	·01490			
15. 4	21. 53. 0	8. 16	·1018	17. 14	·01460			
16. 35	22. 5. 0	8. 31	·1005	18. 40	·01480			
18. 0	21. 55. 40	9. 7	·1003	20. 42	·01490			
19. 45	22. 0. 0	9. 51	·1016	22. 40	·01490			
21. 17	21. 59. 30	10. 15	·1006					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug. 20 h m	° ′ ″	Aug. 20 h m		h m		h m	°	°
22. 36	22. 3. 30	11. 0	·1019					
23. 32	3. 35	12. 3	·1013					
23. 59	4. 40	12. 30	·1032					
		13. 0	·1020					
		13. 47	·1017					
		14. 23	·1026					
		16. 0	·1020					
		16. 25	·1008					
		17. 6	·1030					
		19. 8	·1035					
		20. 40	·1022					
		21. 55	·1020					
		23. 59	·1018					
Aug. 21		Aug. 21		Aug. 21		Aug. 21		
0. 8	22. 5. 25	0. 0	·1018	0. 0	·01480	1. 40	68 ·5	71 ·5
0. 40	6. 30	1. 0	·1012	1. 32	·01410	3. 40	69 ·5	72 ·5
1. 28	6. 35	3. 0	·1024	2. 45	·01260	9. 55	71 ·0	72 ·5
6. 2	1. 30	4. 55	·1020	4. 37	·01010	21. 40	64 ·0	66 ·0
6. 51	22. 1. 35	5. 10	·1032	5. 14	·00940			
7. 31	21. 59. 25	5. 55	·1016	6. 13	·00880			
8. 58	22. 0. 30	6. 10	·1026	7. 49	·00800			
9. 53	21. 54. 0	7. 37	·1006	9. 11	·00760			
10. 19	21. 58. 35	9. 36	·1014	10. 47	·00740			
11. 32	22. 1. 15	10. 5	·1024	11. 23	·00730			
14. 15	0. 30	11. 0	·1020	14. 1:	·00800			
15. 37	2. 50	18. 40	·1030	16. 22	·01080			
17. 16	22. 0. 0	19. 15	·1025	17. 59	·01360			
20. 8	21. 59. 0	22. 29	·1016	18. 45	·01490			
23. 59	22. 8. 30	23. 59	·1014		·01440			
				20. 7	·01460			
				20. 49	·01470			
					·01370			
				21. 46	·01450			
				22. 13	·01480			
				22. 45	·01500			
Aug. 22		Aug. 22		Aug. 22		Aug. 22		
0. 7	22. 8. 30	0. 0	·1010	0. 0	·01490	1. 40	67 ·0	68 ·5
0. 52	9. 0	0. 21	·1008	0. 34	·01440	3. 40	68 ·5	70 ·5
2. 32	5. 50	2. 20:	·1018	2. 41	·01100	9. 40	68 ·5	71 ·0
4. 32	22. 0. 0	4. 50	·1003	3. 27	·00920	21. 40	61 ·5	65 ·0
6. 17	21. 57. 30	6. 29	·1010		·00750			
12. 55	22. 1. 0	7. 45	·1007	4. 14	·00780			
13. 43	21. 59. 30	14. 46	·1031	5. 17	·00790			
14. 29	22. 0. 50	16. 30	·1020	7. 50	·00750			
15. 20	21. 57. 30	17. 23	·1030	9. 44	·00730			
16. 10	57. 30	19. 35	·1032	10. 59	·00780			
16. 37	59. 30	20. 55	·1020	11. 41	·00840			
17. 23	55. 45	23. 59	·1027	12. 51	·00980			
20. 17	21. 57. 30			14. 43	·01230			
21. 43	22. 3. 35			16. 5	·01470			
23. 59	9. 30				·01430			
				18. 42	·01430			
				21. 36	·01420			
				22. 23	·01420			
				23. 0	·01430			

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.23		Aug.23		Aug.23		Aug.23		
h m	° ′ ″	h m		h m		h m	°	°
0. 8	22. 10. 0	0. 0	·1027	0. 0	·01370	1. 40	64·5	67·0
0. 40	12. 30	1. 0	·1016	1. 43	·01280	3. 40	68·0	68·5
2. 25	9. 30		***	3. 2	·01110	9. 40	68·5	68·5
3. 32	4. 30	2. 15	·1016	4. 30	·00840	21. 40	66·0	67·5
5. 12	0. 30	2. 37	·1022	5. 24	·00720			
7. 53	22. 0. 0		***	6. 50	·00690			
8. 47	21. 56. 50	3. 30	·1016	8. 38	·00680			
9. 29	58. 0		***	11. 1	·00670			
9. 44	56. 0	4. 5	·1021	11. 25	·00690			
10. 3	56. 20	4. 50	·1012	12. 36	·00750			
10. 17	54. 0	6. 15	·1021	14. 27	·00860			
11. 30	58. 30	6. 53	·1014	16. 17	·00990			
12. 25	58. 20	7. 53	·1022	18. 20	·01090			
13. 0	59. 40	8. 0	·1016	20. 22	·01130			
13. 29	58. 10	8. 27	·1024	21. 49	·01120			
14. 58	59. 30	9. 2	·1020	22. 38	·01080			
15. 38	21. 57. 30	9. 52	·1026	23. 24	·01000			
16. 39	22. 0. 0	10. 7	·1021	23. 31	·00970			
17. 46	21. 56. 0	10. 40	·1033					
18. 18	57. 30	11. 30	·1020					
19. 8	56. 30	12. 5	·1031					
20. 37	58. 0		***					
22. 48	21. 57. 30	13. 7	·1028					
23. 52	22. 9. 30		***					
		17. 25	·1040					
		18. 0	·1034					
		18. 39	·1042					
		22. 38	·1008					
		23. 30	·1007					
		23. 59	·1013					
Aug.24		Aug.24		Aug.24		Aug.24		
0. 10	22. 9. 30	0. 0	·1014	0. 0	·00950	1. 40	69·0	71·0
2. 2	9. 0	0. 23	·1016	1. 26	·00750	3. 40	71·5	73·5
3. 55	22. 2. 30	1. 15	·1008	1. 34	{·00720 ·00780	9. 40	73·0	73·5
6. 7	21. 58. 30	1. 55	·1009			21. 40	63·0	65·0
9. 40	21. 58. 0	2. 7	·1003	2. 55	·00840			
11. 13	22. 0. 30	2. 30	·1016	3. 50	·00860			
12. 17	22. 0. 50	2. 45	·1010		***			
12. 34	21. 58. 30	3. 49	·1002	6. 20	·00820			
14. 38	22. 0. 0	4. 10	·1016	7. 37	·00800			
15. 29	21. 58. 40	4. 30	·1005	8. 16	·00780			
16. 0	22. 6. 30	4. 34	·1010	10. 21	·00820			
16. 53:	21. 56. 30	4. 40	·0998	11. 25	·00880			
18. 5	55. 30	4. 50	·1010	12. 24	·00960			
19. 23	57. 30	5. 8	·1003	14. 27	·01220			
20. 48	21. 57. 15		***	16. 19	{·01520 ·01490			
22. 47	22. 4. 30	8. 25	·1018					
23. 8	4. 0	9. 0	·1015	18. 32	·01470			
23. 59	6. 10	9. 27	·1021	20. 25	·01440			
		10. 14	·1014	21. 45	·01440			
		13. 15	·1023	23. 16	·01450			
		14. 0	·1018					
			***					
		15. 30	·1028					
		15. 53	·1003					
		16. 30	·1034					
		17. 7	·1030					
		18. 38	·1035					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.24		Aug.24						
h m	° ′ ″	h m		h m		h m	°	°
		19. 10	·1028					
		20. 14	·1030					
		21. 0	·1020					
		21. 15	·1020					
		22. 30	·1006					
		23. 59	·0998					
Aug.25		Aug.25		Aug.25		Aug.25		
0. 7	22. 6. 30	0. 0	·0999	0. 0	·01480	1. 40	66·0	68·0
0. 43	8. 30	0. 21	·0999	0. 25	·01490	3. 40	68·0	69·0
2. 45	7. 30		***	1. 31	·01380	9. 40	68·0	69·5
4. 16	22. 0. 30	1. 40	·1012	2. 30	·01210	21. 40	59·0	60·0
7. 48	21. 57. 20	2. 0	·0998	4. 8	·00910			
9. 17	58. 35	2. 48	·1008	5. 15	{·00750 ·00780			
10. 32	54. 45		***					
11. 17	56. 45	4. 39	·1001	6. 59	·00770			
11. 33	49. 50	5. 14	·1007	8. 50	·00760			
11. 58	54. 30	5. 47	·1000	9. 32	{·00750 ·00810			
12. 17	53. 30	6. 50	·1013					
12. 51	55. 30	7. 0	·1006	11. 10	·00820			
13. 38	54. 30	7. 23	·1014	11. 36	·00810			
14. 25	57. 30	7. 46	·1010	12. 29	·00840			
15. 25	21. 53. 0	8. 46	·1015	14. 19	·01090			
16. 2	22. 2. 0	8. 55	·1008	15. 40	·01300			
16. 20	22. 2. 35	9. 45	·1014	16. 35	{·01420 ·01360			
16. 50	21. 55. 0	10. 2	·1022					
17. 20	52. 50	11. 5	·1019	19. 9	·01390			
18. 15	52. 45	11. 39	·1051	20. 50	·01360			
18. 53	21. 56. 30	12. 45	·1014	21. 42	·01360			
19. 20	22. 3. 30	15. 40	·1028		(†)			
19. 42	22. 3. 0	16. 5	·1013					
20. 38	21. 56. 0	16. 53	·1040					
21. 50	59. 0	17. 45:	·1028					
	(†)	18. 20	·1041					
			***					
		19. 25	·1004					
		19. 51	·1032					
		20. 40	·1022					
		21. 15	·1027					
		21. 50	·1026					
			(†)					
Aug.26		Aug.26		Aug.26		Aug.26		
	(†)		(†)		(†)			
3. 18	22. 4. 45	3. 35	·1027	3. 16	·01160	1. 40	63·0	63·0
3. 56	22. 2. 30	5. 4	·1017	4. 28	·00940	3. 40	65·5	66·5
6. 57	21. 58. 30	8. 35	·1023	5. 12	{·00710 ·00740	9. 40	71·0	73·5
9. 5	58. 30	9. 21	·1020			23. 8	66·0	67·0
9. 50	54. 45	9. 55	·1026	7. 14	·00790			
10. 13	57. 15	10. 17	·1018	8. 40	·00820			
10. 28	55. 30	10. 45	·1028	10. 36	·00780			
10. 50	57. 30	11. 15	·1020	12. 40	·00770			
11. 43	58. 30	16. 0	·1024	13. 36	·00750			
17. 18	59. 0	21. 13	·1017	15. 14	·00760			
20. 30:	21. 56. 25	21. 40	·1020	17. 6	·00870			
23. 59	22. 5. 0	23. 59	·1015	19. 50	·01120			
				21. 19	·01250			
				22. 34	·01320			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	° ′ ″	h m		Aug.26 h m		h m	°	°
				23. 21	·01320			
Aug.27		Aug.27		Aug.27		Aug.27		
0. 8	22. 5. 15	0. 0	·1015	0. 0	·01320	10. 24	75·0	77·0
1. 18	22. 7. 15	1. 55	·1014	1. 36:	·01190	21. 40	68·0	69·5
6. 33	21. 58. 30	2. 30	·1006	3. 31	·00830			
10. 45	58. 30	8. 21	·1009		·00880			
11. 21	52. 40	10. 46	·1017	4. 50	·00860			
11. 55	54. 30	11. 0	·1028	5. 32	·00860			
12. 44	51. 55	11. 15	·1025		·00920			
13. 42:	57. 30	11. 51	·1027	6. 15	·00850			
15. 53	56. 25	13. 25	·1008	6. 43	·00850			
16. 57	57. 30	18. 5	·1020	8. 38	·00830			
18. 6	54. 20	20. 46	·1010	10. 18	·00820			
21. 15	21. 59. 0	22. 0	·0996	11. 9	·00830			
23. 15	22. 4. 0	23. 50	·0998	12. 53	·00860			
				14. 14	·00950			
				16. 44	·01130			
				18. 55	·01330			
				20. 22	·01470			
				21. 38	·01560			
				22. 33	·01590			
				23. 13	·01590			
Aug.28		Aug.28		Aug.28		Aug.28		
0. 3	22. 6. 20	0. 15	·0994	0. 30	·01520	1. 40	73·0	74·0
1. 0	8. 35	1. 55	·0999	1. 16	·01500	3. 40	75·0	77·0
1. 55	9. 0	2. 30	·0994	1. 53	·01480	9. 40	77·5	80·0
4. 0	22. 1. 30	7. 46	·1001	3. 32	·01090	21. 40	67·0	69·0
5. 4	21. 59. 15	9. 45	·1008	4. 16	·00900			
6. 43	58. 20	10. 15	·1006		·00950			
7. 47	58. 30	20. 45	·1019	5. 42	·00900			
12. 20	57. 35	22. 0	·1020	6. 30	·00860			
20. 35	21. 58. 0	23. 59	·1013	6. 33	·00920			
22. 17	22. 0. 0			8. 32	·00950			
23. 59	5. 0			9. 32	·00980			
				10. 37	·01020			
				11. 47	·01100			
				12. 39	·01210			
				13. 39	·01360			
				14. 50	·01570			
				16. 52	·01520			
				19. 35	·01500			
				21. 39	·01490			
				22. 36	·01490			
				23. 44	·01450			
Aug.29		Aug.29		Aug.29		Aug.29		
0. 5	22. 5. 15	0. 0	·1013	0. 0	·01460	1. 40	71·0	73·0
0. 56	4. 30	0. 15	·1006	0. 57	·01400	3. 40	74·0	75·5
1. 20	7. 0	1. 0	·1004	2. 34	·01180	9. 40	76·0	78·0
1. 38	5. 30	1. 25	·1013	3. 42	·00970	21. 40	69·5	70·0
3. 35	3. 0	1. 51	·1000	4. 24	·00810			
4. 40	22. 2. 0		***		(†)			
	(†)	3. 38	·1000	9. 36	·00690			
9. 29	21. 59. 30		(†)	10. 49	·00810			
16. 6	21. 59. 0	9. 30	·1016	11. 37	·00860			
16. 13	22. 1. 30	10. 45	·1011	12. 22	·00910			
17. 15	21. 56. 25	12. 20	·1012	13. 50	·01070			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Aug.29 h m	° ′ ″	Aug.29 h m		Aug.29 h m		h m	°	°
18 1	58. 30	16. 7	·1021	15. 58	·01350			
21. 35	21. 58. 30	17. 6	·1032	17. 14	·01540			
22. 30	22. 3. 0	18. 7	·1024		·01500			
23. 59	5. 40	18. 49	·1030	19. 36	·01500			
			***	21. 40	·01490			
		20. 50	·1024	22. 36	01520			
		21. 30	·1018	23. 38	·01490			
		22. 16	·1000					
		22. 30	·1008					
		23. 14	·0991					
		23. 33	·1000					
Aug.30		Aug.30		Aug.30		Aug.30		
0. 8	22. 6. 30	0. 0	·1001	0. 0	·01470	1. 40	73·0	74·0
2. 33	6. 0	0. 30	·1000	1. 40	·01150	3. 40	76·0	78·0
2. 55	7. 10	0. 44	·0994	2. 48	·00830	9. 40	78·3	80·5
3. 15	22. 4. 0	0. 55	·1004		·00860	21. 40	66·0	68·0
7. 12	21. 58. 20	1. 15	·1000	3. 39	·00900			
8. 43	59. 0	2. 15	·1010	5. 6	·00920			
9. 1	56. 35	2. 55	·1022		***			
9. 50	58. 10	3. 15	·0998	8. 34	·00890			
	***	4. 7	·1005	9. 15	·00900			
12. 50	54. 35	4. 30	·1000	10. 31	·00930			
	***		***	11. 43	·01010			
13. 56	56. 35	5. 9	·1010	12. 36	·01110			
14. 12	54. 20	5. 15	·1000	14. 10	·01350			
14. 31	57. 0		***	15. 18	·01550			
15. 13	56. 0	5. 54	·0998		·01510			
15. 37	21. 51. 0		***	17. 15	·01500			
	***	7. 13	·1012	19. 8	·01480			
16. 57	22. 2. 30		***	20. 24	·01480			
	***	8. 14	·1013		***			
18. 17	21. 54. 25		***	21. 36	·01510			
	***	8. 52	·1001	22. 21	·01520			
19. 13	55. 30	9. 10	·1016	23. 35	·01450			
19. 40	56. 20	9. 16	·1010					
20. 22	52. 25		***					
20. 44	57. 30	12. 14	·1016					
20. 53	21. 57. 0	12. 25	·1025					
21. 20	22. 5. 30	12. 55	·1016					
21. 34	1. 0		***					
22. 0	3. 0	13. 49	·1022					
22. 52	0. 50	13. 58	·1018					
23. 43	3. 30	15. 0	·1036					
			***					
		15. 33	·1021					
			***					
		16. 34	·1020					
		17. 31	·1042					
			***					
		18. 28	·1032					
		19. 0	·1042					
		19. 25	·1027					
			***					
		20. 53	·1011					
		21. 14	·1022					
		21. 31	·1012					
		22. 0	·1023					
			***					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	Aug. 30 h m		h m		h m	°	°
		22. 50	·1006					
		23. 4	·1015 ***					
		23. 59	·1001					
Aug. 31		Aug. 31		Aug. 31		Aug. 31		
0. 7	22. 4. 0	0. 0	·1002 ***	0. 0	·01430 ***	1. 40	72 ·0	74 ·0
0. 25	7. 0					3. 40	73 ·5	76 ·5
0. 49	5. 10	2. 15	·1006 ***	1. 41	·01210	9. 40	74 ·0	76 ·0
2. 25	5. 30			2. 50	·01000	21. 40	60 ·0	62 ·0
2. 46	4. 30	2. 45	·0999 ***	4. 10	·00770			
3. 2	5. 30			4. 12	·00800			
3. 22	22. 3. 10	3. 9	·1013 ***	4. 51	·00800 ***			
7. 32	21. 56. 0							
8. 1	58. 35	3. 22	·1000	7. 17	·00780			
8. 20	50. 0 ***	3. 51	·1000 ***	8. 14	·00790 ***			
8. 46	56. 0	5. 25	·1015 ***	9. 35	·00810			
8. 56	47. 0			10. 36	·00890			
9. 23	56. 0	6. 9	·1006 ***	11. 10	·00930			
10. 2	55. 35			11. 36	·00980			
10. 35	59. 30	6. 30	·1024 ***	12. 20	·01080			
11. 32	57. 35			12. 50	·01160			
11. 57	21. 58. 20	6. 58	·1010	14. 21	{·01480			
12. 17	22. 3. 0	7. 5	·1016		{·01430			
12. 50	21. 57. 35	7. 30	·1008 ***	15. 41	·01440			
13. 13	58. 30			17. 55	·01430			
13. 56	55. 30	8. 8	·1015 ***	18. 50	{·01430			
14. 38	58. 45				{·01350			
15. 37	59. 0	8. 24	·1025 ***	19. 26	·01420			
16. 13	21. 56. 45			20. 36	·01420			
16. 58	22. 0. 30	8. 49	·1011	22. 39	·01440			
19. 1	21. 56. 30	9. 0	·1024	23. 24	·01440			
19. 40	58. 20	10. 0	·0998					
20. 55	21. 57. 0	10. 38	·1001					
21. 39	22. 1. 0	11. 9	·1021					
22. 32	1. 30	11. 34	·1004					
23. 0	4. 30	12. 17	·1019					
23. 8	4. 30	12. 53	·1003					
23. 59	4. 25	13. 40:	·1013					
		14. 45	·1000					
		16. 15	·1016					
		16. 45	·1004					
		17. 30:	·1018					
		18. 48	·1022					
		19. 23	·1013					
		21. 8	·1010					
		22. 5:	·0988					
		22. 46	·0996					
		23. 59	·0990					
Sept. 1		Sept. 1		Sept. 1		Sept. 1		
0. 10	22. 5. 0	0. 0	·0990	0. 0	·01420	1. 40	65 ·0	66 ·5
2. 45	8. 30		***		***	3. 40	70 ·0	71 ·0
3. 47	0. 35	1. 0	·1000	1. 46	·01240	9. 40	69 ·0	71 ·5
5. 12	22. 1. 0		***	3. 36	·00940	21. 40	58 ·0	60 ·0
5. 37	21. 59. 30	1. 47	·0996	4. 54	·00740			
6. 2	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.	Readings of Thermometers. Of V. F. Magnet.
Sept. 1 h m	° ′ ″	Sept. 1 h m		Sept. 1 h m		h m	°	°
6. 46	21. 56. 30	2. 20	·1007	6. 32	·00760			
7. 38	57. 0	2. 34	·1000	7. 55	·00710			
8. 8	54. 0	3. 41	·1001	8. 26	·00700			
8. 28	44. 35		***	8. 38	·00710			
8. 30	44. 0	3. 47	·0995	9. 59	·00730			
8. 49	51. 30		***	11. 11	·00830			
9. 50	57. 0	4. 33	·1007	12. 11	·00920			
10. 19	21. 56. 30	5. 0	·1000	13. 28	·01140			
11. 25	22. 0. 0	5. 14	·1007	14. 45	{·01420			
12. 10	21. 55. 10		***		{·01380			
12. 45:	22. 0. 50	6. 2	·0990	16. 54	·01390			
13. 17	21. 56. 15	6. 27	·1021	18. 18	·01400			
13. 32	57. 0	6. 40	·1009	18. 22	·01370			
14. 16	55. 0	8. 7	·1000	18. 46	·01410			
14. 44	21. 55. 50	8. 21	·0991	19. 57	·01390			
15. 13	22. 0. 0	8. 45	·1028	21. 10	·01380			
15. 37	22. 0. 0	9. 5	·1016	21. 29	·01380			
16. 32	21. 57. 30	10. 14	·1003	23. 11	·01350			
16. 44	58. 15	10. 55	·1008 ***					
17. 8	21. 58. 10							
18. 6	22. 0. 0	12. 2	·1036					
19. 18	21. 58. 30	12. 25	·1024					
19. 51	59. 35	12. 55	·1028 ***					
21. 0	58. 40							
21. 38	21. 59. 0	15. 15	·1013					
23. 25	22. 4. 30	19. 10	·1030					
23. 58	6. 30	19. 55	·1020					
		20. 53	·1032					
		23. 8	·1012					
		23. 59	·1010					
Sept. 2		Sept. 2		Sept. 2		Sept. 2		
0. 5	22. 7. 30	0. 0	·1010	0. 0	·01300	1. 40	62 ·0	64 ·0
0. 24	9. 35	0. 14	·1002	0. 24	·01270	3. 40	69 ·0	71 ·5
1. 22	22. 6. 30	0. 40	·0996	1. 43	·01030	9. 40	68 ·8	70 ·3
5. 29	21. 58. 35	1. 45	·1010	2. 40	·00730	22. 15	60 ·0	62 ·0
6. 16	57. 40		***	3. 20	·00800			
6. 32	55. 25	3. 15	·1004	4. 31	·00830			
7. 28	57. 30	4. 41	·1003	6. 30	·00770			
9. 53	56. 0	5. 9	·0998	8. 11	·00740			
10. 9	59. 0	6. 0	·1000	9. 15	·00740			
10. 30	21. 54. 45	6. 34	·0990	10. 14	·00810			
10. 48	22. 2. 0	7. 20	·1000	10. 38	·00860			
10. 47	21. 56. 35	7. 34	·0998	11. 35	·00920			
12. 35:	58. 30		***	12. 33	·01070			
13. 1	21. 55. 35	9. 35	·1010	13. 40	·01230			
13. 29:	22. 0. 30	10. 23	·1008	14. 19	·01350			
14. 9	21. 56. 0	11. 15	·1024	14. 59	·01470			
18. 15	21. 58. 30	12. 3	·1014	15. 0	·01440			
19. 17	22. 0. 0	12. 54	·1014	16. 25	·01440			
20. 32	21. 59. 0	13. 7	·1030	19. 36	·01420			
22. 32	22. 3. 30	14. 27	·1016	21. 20	·01430			
23. 59	5. 40	18. 30	·1030	22. 10	·01440			
		19. 12	·1021	22. 55	·01420			
		21. 10:	·1022					
		22. 20	·1013					
		23. 59	·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.
Sept. 3		Sept. 3	
h m	° ′ ″	h m	
0. 14	22. 5. 30	0. 0	·1006
1. 43	5. 30	1. 18	·1006
3. 52	22. 0. 0	5. 46	·0992
6. 42	21. 58. 25	7. 44	·0991
10. 56	57. 30	10. 30	·1004
15. 37	58. 30	16. 15	·1020
18. 28	59. 30	21. 30	·1021
20. 2:	21. 57. 15	23. 59	·1008
22. 39	22. 3. 10		
23. 59	6. 30		
Sept. 4		Sept. 4	
0. 13	22. 6. 50	0. 0	·1007
1. 16:	22. 7. 35	0. 30	·1006
4. 2	21. 59. 45	5. 30:	·0972
6. 10	56. 30	7. 2	·0983
7. 43	56. 0	7. 50	·0978
8. 0	54. 30	8. 34	·0987
8. 40	56. 25	18. 53	·1016
9. 13	55. 30	22. 7	·1014
9. 52	57. 0	23. 40	·1002
12. 48	58. 25	23. 59	·1006
19. 2	56. 30		
21. 23	21. 59. 0		
23. 59	22. 7. 15		
Sept. 5		Sept. 5	
0. 28	22. 7. 30	0. 0	·1006
1. 5	8. 30	2. 23	·1020
3. 10	4. 20	5. 22:	·1004
3. 53	1. 30	18. 15	·1025
5. 18	22. 0. 15	23. 30	·1007
8. 56	21. 58. 0	23. 59	·1004
9. 53	59. 45		
12. 15	21. 59. 45		
18. 37	22. 0. 0		
20. 6	21. 57. 25		
21. 35	21. 59. 45		
23. 32	22. 7. 0		

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 3	
h m	
0. 0	·01320
0. 49	·01200
1. 35	·01010
2. 27	·00760
	·00790
4. 32	·00870
6. 35	·00810
8. 8	·00760
9. 39	·00760
10. 35	·00790
11. 1	·00830
11. 46	·00920
13. 38	·01260
14. 40	·01500
	·01470
16. 25	·01450
18. 11	·01410
20. 23	·01400
21. 43	·01410
22. 32	·01410
23. 5	·01360
23. 45	·01280
Sept. 4	
0. 0	·01260
1. 32	·00970
2. 15	·00760
	·00780
3. 24	·00840
5. 23	·00940
7. 54	·00760
9. 18	·00800
10. 57	·00910
11. 33	·00980
12. 20	·01080
14. 2	·01320
15. 5	·01510
	·01490
17. 49	·01450
19. 55	·01420
21. 35	·01430
22. 33	·01400
23. 10	·01350
23. 32	·01310
Sept. 5	
0. 45	·01190
2. 23	·00850
3. 4	·00710
	·00730
5. 44	·00750
7. 38	·00730
9. 5	·00720
10. 21	·00780
11. 47	·00950
12. 15	·01040
13. 30	·01230
14. 40	·01470

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 3		
h m	°	°
9. 52	71 ·2	73 ·0
21. 40	59 ·0	60 ·0
Sept. 4		
1. 40	64 ·0	65 ·0
3. 40	70 ·0	72 ·5
9. 40	71 ·0	73 ·0
21. 40	60 ·0	62 ·0
Sept. 5		
1. 40	65 ·8	68 ·0
3. 40	69 ·0	70 ·0
9. 40	69 ·0	70 ·0
21. 40	58 ·0	59 ·0

Göttingen Mean Solar Time.	Western Declination.
Sept. 5	
h m	° ′ ″
23. 59	22. 8. 0
Sept. 6	
0. 23	22. 8. 0
1. 46	22. 7. 35
4. 2	21. 59. 45
6. 15	57. 0
10. 35	57. 30
11. 18	55. 0
12. 55	58. 35
20. 8	57. 10
21. 23	21. 59. 45
23. 0	22. 5. 40
23. 45	6. 25
Sept. 7	
0. 0	22. 6. 35
2. 15:	22. 4. 30
5. 43	21. 58. 25
7. 32	21. 59. 30
21. 17	22. 0. 0
23. 8	4. 50
23. 32	4. 10
23. 55	5. 0
Sept. 8	
0. 2	22. 6. 0
0. 35	6. 20
1. 52	22. 5. 0

Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.
h m	
Sept. 6	
0. 0	·1004
	***
1. 0	·1010
•	***
4. 53	·0992
7. 37	·0986
9. 36	·0992
10. 45	·0991
11. 0	·1000
12. 50	·1000
18. 30	·1016
23. 30	·1014
23. 59	·1010
Sept. 7	
0. 0	·1010
3. 50	·1003
6. 35	·0995
11. 0	·1006
18. 30	·1014
20. 30:	·1005
22. 0	·0996
23. 30	·0996
23. 59	·1000
Sept. 8	
0. 0	·1001
2. 36	·1010
	***

Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.
Sept. 5	
h m	
14. 54	·01450
17. 9	·01430
18. 55	·01420
	·01380
19. 16	·01410
21. 20	·01410
22. 53	·01360
23. 44	·01310
Sept. 6	
0. 15	·01250
1. 34	·01030
2. 38	·00720
	·00760
3. 36	·00800
5. 35	·00800
7. 36	·00760
9. 27	·00740
10. 31	·00830
11. 20	·00910
11. 50	·00980
12. 22	·01040
13. 36	·01250
14. 51	·01490
14. 54	·01470
16. 38	·01450
18. 36	·01430
21. 9	·01400
22. 40	·01380
23. 34	·01310
Sept. 7	
0. 0	·01280
1. 12	·01110
2. 9	·00880
2. 34	·00740
2. 36	·00760
4. 27	·00800
6. 40	·00790
8. 50	·00750
9. 32	·00740
10. 36	·00740
11. 42	·00790
12. 21	·00810
13. 40	·00900
15. 18	·01050
16. 42	·01210
18. 31	·01510
18. 33	·01480
20. 16	·01470
21. 39	·01450
22. 54	·01460
23. 45	·01480
Sept. 8	
0. 15	·01490
1. 36:	·01420
2. 41	·01220

Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
h m	°	°
Sept. 6		
1. 40	64 ·0	65 ·0
3. 40	67 ·0	68 ·0
9. 40	70 ·0	72 ·0
21. 40	59 ·0	61 ·0
Sept. 7		
1. 40	65 ·0	67 ·0
3. 40	70 ·0	71 ·0
9. 40	71 ·0	73 ·5
21. 40	63 ·0	64 ·0
Sept. 8		
1. 40	65 ·0	68 ·0
3. 40	68 ·5	70 ·0
9. 40	68 ·0	71 ·0

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Sept. 8		Sept. 8		Sept. 8		Sept. 8		
h m	° ′ ″	h m		h m		h m	°	°
3. 35	21. 58. 0	5. 55:	·0995	4. 10	·00870	21. 40	60 ·0	62 ·0
4. 40	56. 30		***	4. 45	{·00760			
6. 16	58. 30	8. 23	·1003		{·00830			
9. 55	59. 30	8. 27	·1018	5. 24	·00740			
	***	8. 35	·1013	5. 33	·00760			
13. 32	54. 25	9. 31	·1018	5. 43	·00760			
13. 58	57. 30	10. 0:	·1010	6. 50	·00730			
	***	11. 32	·1008	8. 22	·00720			
14. 41	56. 30	12. 5	·1018	8. 28	·00730			
20. 10	21. 58. 30	12. 25	·1007	9. 38	·00780			
23. 56	22. 6. 25		***	10. 37	·00920			
		14. 50	·1013	11. 18	·01040			
		15. 15	·1022	12. 55	·01320			
		17. 55	·1020	13. 50	{·01490			
		19. 23	·1006		{·01450			
		19. 52:	·1013	16. 35	·01430			
		21. 0	·1001	18. 40	·01430			
		22. 0	·1001	21. 13	·01420			
		23. 18	·0994	22. 55	·01420			
		23. 59	·0995	23. 53	·01390			
Sept. 9		Sept. 9		Sept. 9		Sept. 9		
0. 0	22. 5. 15	0. 0	·0995	0. 15	·01370	1. 40	64 ·0	66 ·0
1. 44	8. 20		***	1. 5	·01320	3. 40	66 ·0	68 ·0
3. 0	3. 30	1. 0	·1003	2. 14	·01150	9. 40	66 ·0	68 ·5
3. 40	22. 2. 45		***	3. 51	·00800	22. 6	57 ·0	59 ·0
4. 29	21. 59. 45	3. 0	·0095	4. 15	{·00710			
5. 40	57. 35	3. 54	·1004		{·00740			
8. 22	59. 50	4. 25	·0998	6. 21	·00710			
8. 56	53. 25		***	7. 23	·00670			
9. 13	55. 25	5. 0	·1002	8. 39	·00670			
9. 45	55. 45	5. 46	·1000	9. 41	·00730			
10. 12	59. 0	8. 10	·1010	11. 20	·00880			
17. 32	58. 35	8. 30	·1005	11. 54	·00960			
19. 55:	21. 57. 0	18. 40	·1026	12. 36	·01060			
22. 48	22. 3. 30	22. 23	·1004	14. 9	·01310			
		22. 46	·1004	14. 56	{·01450			
			(†)		{·01420			
				16. 57	·01400			
				18. 39	·01400			
				20. 53	·01380			
				21. 58	·01370			
				22. 58	·01350			
Sept. 10		Sept. 10		Sept. 10		Sept. 10		
1. 46	22. 7. 25	2. 0	·1014	0. 0	·01350	11. 39	62 ·0	64 ·0
5. 53	21. 59. 15	2. 39	·1012	1. 24	·01320	21. 40	55 ·0	57 ·0
6. 32	22. 2. 10	3. 7	·1022	2. 22	·01220			
9. 1	21. 59. 25		***	3. 44	·00990			
9. 41	57. 10	4. 53	·1016	4. 43	·00760			
10. 10	57. 30	5. 15:	·1023	5. 12	·00650			
10. 47:	55. 30	6. 0	·1008	5. 15	·00670			
11. 32:	58. 30	6. 16	·1017		***			
12. 18	57. 45	6. 30	·1006	7. 5	·00670			
14. 10	59. 30	6. 45	·1016	8. 52	·00950			
14. 48	21. 56. 30	7. 0	·1006	9. 42	·00640			
15. 12	22. 3. 0	8. 2	·1018	10. 45	·00670			
15. 46	22. 2. 30	8. 19	·1013	12. 39	·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.
Sept. 10		Sept. 10		Sept. 10				
h m	° ′ ″	h m		h m		h m	°	°
16. 2	21. 58. 25	10. 15	·1023	13. 30	·00980			
16. 24	22. 0. 20	11. 0	·1018	14. 25	·01090			
16. 40	21. 57. 0	14. 46	·1028		***			
16. 53	58. 0	15. 4	·1010	16. 29	·01410			
17. 0	21. 57. 30	15. 50	·1040	16. 32	·01390			
17. 26	22. 3. 30	16. 5	·1030	16. 55	·01360			
17. 37	3. 20		***	17. 44	·01350			
17. 59	12. 30	16. 50:	·1042	18. 25	·01310			
18. 35	1. 0		***	18. 59	·01300			
18. 45	22. 2. 30	17. 40	·1034	19. 2	·01270			
19. 1	21. 56. 30	18. 37:	·1054	19. 5	·01290			
	***		***		***			
19. 55	22. 0. 30	21. 5	·1025	21. 36	·01330			
	***	21. 25	·1026	22. 11	·01320			
20. 53	21. 58. 0	21. 45	·1037	23. 0	·01270			
22. 1	22. 2. 0	22. 28	·1028					
22. 44	7. 0	22. 35	·1035					
22. 53	5. 45		***					
23. 3	8. 30	23. 31	·0997					
23. 7	6. 30							
23. 59	9. 0							
Sept. 11		Sept. 11		Sept. 11		Sept. 11		
0. 17	22. 10. 30	0. 3	·1004	0. 0	·01250	1. 40	60 ·0	62 ·0
	***		(†)		***	3. 40	66 ·0	67 ·0
1. 30	8. 0	2. 55	·0988	1. 33	·01100	9. 40	65 ·5	67 ·0
1. 43	13. 30	3. 16	·1015	2. 3	·00980	21. 40	56 ·0	58 ·0
2. 9	7. 35	3. 31	·0992		***			
2. 12	9. 0	3. 37	·1002	2. 23	·00930			
2. 29	4. 15	3. 52	·0970	2. 32	·00920			
2. 42	8. 30	4. 14	·1000	2. 39	·00870			
2. 47	3. 35	4. 29	·0992	2. 51	·00860			
3. 2	11. 0	4. 36	·0998	3. 5	·00810			
3. 20	15. 0	4. 46	·0990	3. 8	·00830			
3. 30	20. 0	5. 23	·1028		***			
3. 45	10. 0	5. 43	·0999	3. 24	·00860			
4. 10	12. 35	5. 50	·1002	3. 35	·00850			
5. 2	11. 0	6. 0	·0983	3. 50	·00890			
5. 28	22. 12. 30	6. 7	·0994	4. 14	·00870			
5. 55	21. 56. 30	6. 23	·1000		***			
6. 5	22. 0. 30	6. 33	·0988	5. 28	·00920			
6. 14	21. 52. 30	6. 44	·0998	5. 39	·01000			
6. 16	54. 0	7. 1	·0971	5. 50	·00990			
6. 26	42. 45	7. 10	·0985	6. 20	·01080			
6. 47	50. 35	7. 34	·0968	6. 37	·01000			
6. 57	46. 45	7. 40	·0978	6. 51	·00980			
7. 19	56. 25	7. 56	·0974	7. 9	·00940			
7. 29	52. 30	8. 8	·0984	7. 45	·00890			
7. 42	56. 20	8. 30	·0965	8. 8	·00870			
8. 6	52. 25	8. 55	·0998	8. 15	·00850			
8. 37	32. 30	9. 17	·0968	8. 40	·00850			
9. 5	50. 10	10. 10	·0970	8. 51	·00830			
9. 54	54. 0	11. 14	·0992	9. 5	·00810			
10. 23	50. 30	11. 40	·1014	9. 50	·00800			
11. 9	21. 55. 30	12. 0	·1010	10. 9	·00770			
11. 43	22. 3. 30	12. 19	·1009	10. 40	·00820			
12. 34	21. 58. 25		(†)	11. 19	·00870			
13. 32	22. 2. 40	15. 0	·1009	11. 50	·00880			

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Sept. 11		Sept. 11		Sept. 11				
h m	° ′ ″	h m		h m		h m	°	°
14. 2	22. 0. 35	19. 30	·1018	12. 53	·00990			
14. 25	22. 2. 0	21. 30	·1018	13. 54	·01110			
15. 10	21. 59. 30	23. 5	·1002	14. 42	·01230			
20. 23	21. 58. 25	23. 30	·1002	15. 51	·01430			
23. 23	22. 3. 30			16. 16	·01490			
				16. 19	·01470			
				18. 23	·01450			
				20. 17	·01440			
				21. 5	·01430			
				22. 21	·01440			
				23. 30	·01400			
Sept. 12		Sept. 12		Sept. 12		Sept. 12		
0. 10	22. 3. 35	0. 5	·1003	0. 0	·01360	1. 40	65 ·0	66 ·0
1. 13	4. 30		***	1. 5	·01200	3. 40	69 ·5	71 ·5
2. 55	1. 0	3. 0	·1000	2. 19	·00800	9. 40	74 ·0	74 ·5
3. 5	5. 0	3. 7	·1023	2. 34	·00830	21. 40	67 ·0	68 ·0
3. 17	22. 2. 0	3. 25	·1000	3. 15	·00850			
7. 40	21. 58. 0	6. 30	·0999	3. 17	·00880			
7. 51	59. 15	6. 55	·1006	3. 23	·00860			
8. 7	54. 15	7. 58	·0990	4. 12	·00860			
8. 32	58. 35	8. 31	·0998	5. 55	·00850			
8. 52	53. 35	8. 45	·0990	6. 48	·00850			
9. 32	58. 30	9. 33	·0996		***			
9. 37	57. 30	9. 55	·1017	8. 3	·00830			
9. 55	59. 0	11. 15	·1000	8. 30	·00840			
10. 17	54. 30		***	8. 38	·00830			
11. 17	57. 0	14. 0	·1006	9. 54	·00800			
11. 58	55. 35	14. 45	·1003	10. 8	·00790			
14. 0	58. 20	15. 57	·1016	11. 25	·00780			
14. 46	53. 0	18. 15	·1020	12. 20	·00820			
15. 16	59. 30	18. 26	·1014	14. 21	·00980			
16. 16	56. 15	22. 8	·1005	15. 40	·01090			
20. 52	21. 58. 30	23. 59	·1010	16. 55	·01230			
23. 59	22. 5. 0			18. 24	·01380			
				19. 54	·01470			
				21. 27	·01540			
				22. 35	·01530			
				23. 30	·01520			
				23. 59	·01510			
Sept. 13		Sept. 13		Sept. 13		Sept. 13		
0. 16	22. 3. 30	0. 0	·1010	0. 54	·01380	1. 40	69 ·0	70 ·0
1. 32	4. 0	3. 30	·1020	2. 27	·01410	3. 40	71 ·0	72 ·5
4. 36	0. 0	3. 55	·1013	4. 50	·01270	9. 40	71 ·0	72 ·5
5. 30	22. 0. 25	5. 7	·1016	6. 53	·01180	21. 40	68 ·0	70 ·0
6. 26	21. 59. 25	5. 32	·1024	7. 53	·01150			
7. 5	22. 0. 40	6. 23	·1002	9. 8	·01120			
10. 42	21. 59. 0	7. 0	·1016	10. 24	·01140			
11. 8	56. 45	10. 55	·1021	11. 16	·01170			
	***		***		***			
12. 25	54. 25	12. 1	·1024	11. 54	·01200			
12. 42	56. 45		***	12. 0	·01220			
13. 12	56. 0	12. 45	·1016	14. 5	·01250			
13. 34	21. 53. 0	13. 15	·1020	14. 15	·01230			
14. 7	22. 3. 15	13. 57	·1002	14. 53	·01220			
14. 22	21. 56. 30	14. 46	·1040	15. 31	·01240			
14. 45	52. 35	15. 33	·1013	15. 52	·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.
Sept. 13		Sept. 13		Sept. 13				
h m	° ′ ″	h m		h m		h m	°	°
15. 0	21. 55. 30	15. 55	·1021	16. 49	·01340			
15. 18	55. 10	17. 30	·1022	17. 31	·01410			
15. 33	52. 15		***		***			
	***	18. 15:	·1030	18. 13	·01460			
17. 58	57. 20	19. 40	·1010	19. 22	·01530			
18. 17	55. 15	20. 55	·1014	19. 32	·01520			
	***	22. 0	·1001	20. 8	·01520			
18. 45	57. 30	22. 30	·1006		***			
	***	23. 0	·1000	21. 54	·01540			
19. 36	55. 0	23. 59	·1004	23. 32	·01550			
	***							
20. 53	21. 57. 0							
21. 13	22. 0. 45							
21. 37	21. 59. 30							
23. 38	22. 5. 10							
Sept. 14		Sept. 14		Sept. 14		Sept. 14		
0. 0	22. 4. 30	0. 0	·1003	0. 0	·01540	1. 40	69 ·0	71 ·0
0. 36	5. 10	0. 28	·1000	2. 23	·01450	3. 40	69 ·0	71 ·0
2. 17	22. 4. 0	2. 0	·1014	5. 35:	·01230	9. 48	66 ·0	68 ·0
4. 37	21. 58. 35	4. 23	·1017	8. 18	·01400	21. 40	62 ·0	63 ·0
10. 49	21. 57. 45	4. 32	·1024	9. 53	·01530			
11. 2	22. 1. 30	4. 45	·1015	10. 28	·01540			
11. 21	21. 57. 30		***	11. 35	·01520			
11. 39	59. 35	10. 24	·1027	12. 10	·01520			
12. 4	56. 30		***	12. 40	·01520			
13. 6	54. 0	11. 47	·1020	12. 45	·01480			
13. 26	56. 25	12. 44	·1030	13. 13	·01510			
13. 40	55. 30	13. 27	·1023	15. 54	·01490			
14. 0	57. 0	18. 9	·1034	19. 44	·01480			
15. 38	53. 35	19. 23	·1028	22. 31	·01480			
16. 25	56. 35	20. 0:	·1033	23. 35	·01430			
17. 2	56. 15	21. 25	·1016	23. 59	·01420			
17. 52	58. 0	21. 40	·1020					
20. 20	21. 57. 25	23. 10	·0995					
21. 27	22. 2. 0	23. 59	·1003					
22. 53	4. 30							
23. 47	8. 25							
Sept. 15		Sept. 15		Sept. 15		Sept. 15		
0. 2	22. 7. 30	0. 0	·1004	0. 15	·01410	1. 40	65 ·0	67 ·0
0. 38	6. 0	3. 13	·1006	1. 36	·01280	3. 40	68 ·6	69 ·5
1. 5	5. 10	3. 27	·1016	3. 10	·01000	9. 40	69 ·0	70 ·0
3. 12	2. 0	3. 37	·1005	3. 53	·00840	21. 40	68 ·0	69 ·0
3. 23	3. 0	4. 25	·1007	4. 25	·00730			
3. 39	0. 0	4. 50	·1018	4. 27	·00760			
6. 2	22. 0. 0		***	7. 4	·00750			
6. 37	21. 59. 30	5. 26	·1002	7. 9	·00770			
7. 4	56. 0		***	11. 1	·00730			
7. 29	58. 0	6. 40	·1010	11. 51	·00730			
7. 45	56. 30	6. 55	·1001	12. 45	·00720			
9. 3	58. 45	7. 15	·1013	14. 40	·00660			
9. 55	57. 15		***	19. 26	·00860			
10. 14	57. 40	8. 50	·1021	20. 51	·00920			
10. 47	54. 50		***	22. 52	·00970			
11. 7	57. 25	9. 42	·1012	23. 55	·00920			
11. 57	58. 0	10. 14	·1024					
12. 17	56. 15	11. 17	·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.	Readings of Thermometers. Of V. F. Magnet.
Sept. 15		Sept. 15						
h m	° ′ ″	h m		h m		h m	°	°
13. 9	21. 58. 30	13. 37	·1028					
13. 25	21. 57. 10	14. 6	·1019					
			***					
13. 32	22. 5. 0							
15. 20	21. 53. 30	14. 31	·1034					
			***					
16. 10	55. 0							
17. 3	53. 30	15. 43	·1022					
18. 6	57. 0	16. 53:	·1033					
20. 55	21. 56. 30	20. 0	·1006					
23. 59	22. 2. 30	23. 59	·1004					
Sept. 16		Sept. 16		Sept. 16		Sept. 16		
0. 17	22. 2. 45	0. 0	·1004	0. 45	·00910	1. 40	70 ·0	71 ·0
0. 50	5. 0	4. 15	·1010	3. 25	{ ·00770	3. 40	71 ·0	72 ·0
1. 54	22. 4. 35		(†)		{ ·00830	9. 40	72 ·5	73 ·0
4. 28	21. 59. 25	7. 35	·1016	10. 25	·00800	22. 23	69 ·0	70 ·0
7. 30	59. 15	12. 17	·1014	14. 53	·00890			
11. 2	57. 30	17. 0	·1018	17. 27	·01010			
13. 42	58. 30	19. 15	·1028	23. 12	·01280			
16. 45	21. 59. 20	21. 7	·1016					
17. 11:	22. 3. 0	23. 8	·0994					
18. 0	21. 59. 30	23. 59	·0992					
18. 19	22. 0. 25							
19. 25	21. 56. 20							
21. 30	22. 1. 0							
22. 10	21. 59. 45							
23. 59	22. 6. 30							
Sept. 17		Sept. 17		Sept. 17		Sept. 17		
0. 14	22. 6. 20	0. 0	·0992	0. 0	·01270	10. 2	72 ·0	73 ·0
1. 28	8. 0	0. 45	·0994	0. 45	·01240	21. 40	61 ·0	62 ·0
1. 52	5. 0	1. 0	·1002	4. 20	{ ·00830			
2. 46	22. 0. 0	2. 10	·0986		{ ·00870			
6. 28	21. 58. 0	2. 49	·1000	8. 42	·00800			
7. 32	22. 0. 0	7. 23	·0996	10. 38	·00910			
9. 45	21. 55. 40	9. 8	·1003	12. 37	·01110			
10. 25	21. 57. 0	10. 37	·1003	15. 2	·01540			
10. 43	22. 0. 45	11. 0	·1027	15. 5	·01520			
10. 52	21. 57. 0	11. 30	·1010	21. 35	·01470			
11. 15	56. 35	12. 10	·1016	23. 6	·01460			
11. 38	59. 30	13. 0	·1006	23. 59	·01470			
12. 8	56. 30	18. 20	·1022					
13. 32	57. 15	18. 45	·1030					
14. 17	56. 30	19. 8	·1022					
15. 5	58. 30	20. 45:	·1026					
16. 6	55. 35	23. 54	·1002					
16. 47	57. 30	23. 59	·1004					
21. 20	21. 59. 15							
23. 46	22. 4. 30							
23. 59	4. 30							
Sept. 18		Sept. 18		Sept. 18		Sept. 18		
0. 30	22. 2. 30	0. 0	·1004	1. 17	·01385	1. 40	65 ·0	67 ·0
1. 12	4. 15	0. 33	·0993	5. 50	·00690	3. 40	67 ·0	68 ·0
1. 50	2. 50	0. 52	·1004	6. 7	·00680	9. 40	67 ·0	68 ·0
2. 40	3. 0	1. 44	·1004	11. 37	·00720	21. 40	64 ·0	66 ·0
5. 12	4. 35		***	13. 53	·00780			
8. 23	22. 6. 45	2. 33	·1010	20. 56	·01100			
9. 2	21. 55. 30		***	23. 37	·01080			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 18		Sept. 18						
h m	° ′ ″	h m		h m		h m	°	°
9. 25	21. 52. 30	3. 40	·1004					
10. 25	54. 0		***					
	(†)	6. 0	·1003					
19. 0	59. 30		***					
21. 6	55. 30	8. 16	·1020					
22. 5	21. 57. 30		***					
23. 43	22. 2. 50	9. 15	·1011					
		9. 33	·1019					
			***					
		10. 23	·1008					
		15. 45	·1030					
			(†)					
		19. 5	·1035					
		21. 55	·1023					
		22. 47	·1027					
		23. 59	·1021					
Sept. 19		Sept. 19		Sept. 19		Sept. 19		
0. 0	22. 3. 30	0. 0	·1021	0. 0	·01080	1. 40	66 ·0	68 ·0
1. 2	4. 40	2. 36	·1027	2. 25	·00950	3. 40	68 ·0	70 ·0
2. 36	22. 4. 0	3. 35	·1022	5. 34	{ ·00710	9. 55	69 ·0	71 ·0
5. 31	21. 59. 0	5. 0	·1023		{ ·00760	21. 40	64 ·0	65 ·0
8. 58	57. 0	5. 13	·1017	10. 52	·00720			
9. 20	52. 0	7. 15	·1026	12. 38	·00720			
9. 42	56. 0	9. 15	·1021	15. 25:	·00750			
10. 28	58. 30	9. 35	·1031	18. 45	·01050			
13. 50	57. 25	9. 55	·1026	21. 26	·01350			
14. 23	58. 30	12. 27	·1026	23. 22	·01320			
20. 17:	21. 56. 20	12. 43	·1035	23. 55	·01290			
23. 58	22. 1. 30	13. 10	·1028					
		16. 0	·1026					
		19. 40	·1032					
		23. 0	·1017					
		23. 59	·1017					
Sept. 20		Sept. 20		Sept. 20		Sept. 20		
0. 6	22. 2. 0	0. 0	·1017	0. 15	·01270	1. 40	68 ·0	69 ·0
1. 16	22. 3. 25	1. 20	·1020	3. 26	·00870	3. 40	67 ·5	68 ·5
5. 12	21. 58. 50	4. 30	·1014	5. 14	{ ·00720	9. 40	67 ·0	69 ·0
7. 17	21. 58. 25	7. 15	·1030		{ ·00750	21. 40	58 ·0	60 ·0
10. 25	22. 0. 0	11. 37	·1028	7. 0	·00730			
11. 52	21. 57. 20	12. 13	·1058	9 8	·00820			
12. 6	55. 0	12. 44	·1040	11. 42	·01050			
13. 0	58. 0	12. 53	·1048	12. 32	·01100			
13. 28	57. 30	13. 49	·1024	12. 45	·01140			
13. 44	59. 0	15. 21:	·1040	14. 50	·01460			
14. 6	21. 58. 15	19. 23	·1050	14. 52	·01440			
14. 34	22. 0. 25	23. 30	·1019	18. 16	·01420			
15. 2	21. 56. 50	23. 57	·1022	23. 51	·01410			
16. 11	55. 0							
17. 52	57. 30							
20. 0	55. 35							
21. 37	21. 58. 30							
23. 48	22. 3. 35							
Sept. 21		Sept. 21		Sept. 21		Sept 21		
0. 10	22. 3. 0	0. 15	·1019	0. 30	·01390	1. 40	61 ·0	62 ·5
0. 35	5. 35	0. 37	·1030	2. 25	·01200	3. 40	62 ·0	64 ·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.
Sept.21		Sept.21		Sept.21		Sept.21		
h m	° ′ ″	h m		h m		h m	°	°
1. 0	22. 4. 0	0.51	·1023	3.32	·01040	9.40	61·5	64·0
3.32	4. 0	3. 5	·1027	6. 5	·00640	21.40	55·0	57·2
4. 4	2.30		***	6.24	·00620			
4.13	3.30	5.10	·1015	10.46	·00690			
5. 8	1. 0	5.34	·1022	11.15	·00700			
5.54	1. 0	6. 9	·1016	11.39	·00740			
6.25	22. 2.10	9.40	·1032	13.54	·01000			
9. 0	21.59. 0		***	16.39	·01350			
9.26	59. 0	10.41	·1026	16.40	·01330			
10. 4	53. 0	10.57	·1046	21.36	·01370			
10.51	57. 0	11.46	·1034	23.32	·01380			
11.23	49.25	12.29	·1043					
11.48	58.25	13.14	·1034					
12.52	54.30	14.36	·1042					
13.52	56.15	15.14	·1030					
14. 9	58. 0	16.25	·1049					
14.31	56. 0		***					
15.13	59.35	18.15	·1038					
16.47	54. 0	19.53	·1040					
17.46	55.30	23.30	·1016					
18. 5	57.45	23.59	·1023					
20.31	57. 0							
22. 2	21.58.25							
22.56	22. 2.35							
23.59	3.35							
Sept.22		Sept.22		Sept.22		Sept.22		
0. 4	22. 3.30	0. 0	·1024	0. 0	·01390	1.40	58·0	62·0
0.31	7.35	0.28	·1036	0.54	·01340	3.40	59·5	62·0
1. 0	5. 0	1. 0	·1026	2.41	·01110	9.40	61·0	60·5
5.13	22. 2.30	3. 0	·1036	5.21	·00590	21.40	57·0	59·0
	(†)	3.20	·1026	5.28	·00610			
9.40	21.56.46*	3.26	·1030	8.23	·00610			
	(†)	4.36	·1020	10.50	·00590			
21.40	58. 8*	4.55	·1026	11.45	·00590			
	(†)	5.16	·1021	13.35	·00620			
			(†)	20.30	·01000			
				22.10	·01020			
				23.59	·00980			
Sept.23		Sept.23		Sept 23		Sept.23		
0.13	22. 3.25	0.10	·1037	0.25	·00960	1.40	59·0	60·0
1.30	22. 4. 0	2.57	·1034	2. 5	·00850	3.40	61·5	63·5
5.25	21.58.30	3.17	·1038	3.45	·00620	9.40	63·5	65·0
6.40	22. 0.15	3.50	·1030		·00650	21.59	59·0	61·0
8.14	21.58.30	4.55	·1036	6.13	·00670			
14.29	58.25	5.13	·1028	11.46	·00630			
16.55	57.20	10. 8	·1042	12.36	·00640			
17.57	59.30	16.40	·1043	15.43	·00710			
20.17	21.56.20	17.45:	·1041	20.42	·00880			
23.59	22. 2.25	19. 0	·1045	22.44	·00880			
		22.10	·1018					
		23.59	·1020					
Sept.24		Sept.24		Sept.24		Sept.24		
0.16	22. 3. 0	0. 0	·1020	0. 0	·00820	11.26	67·0	68·0
2.31	22. 2.30		***	1.36	·00660	21.40	57·0	58·0
4.25	21.57.30	1.15	·1019		·00720			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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.24		Sept.24		Sept.24				
h m	° ′ ″	h m		h m		h m	°	°
7.13	21.58.30	2.50	·1027	3.35	·00770			
13.43	58.45		***	10.36	·00730			
15.28	58. 0	5. 3	·1018	11.25	·00730			
15.47	59.30		***	13.54:	·00840			
16.27	57.35	9. 0	·1034	15.53	·01090			
20.36	21.57. 0	16.24	·1034	18.19	·01480			
21.56	22. 2. 0	18. 6	·1044	18.21	·01460			
22.15	4. 0	20.35	·1036	22.20	·01430			
23.59	7.40	21.34	·1016	23.51	·01440			
		23.59	·1014					
Sept.25		Sept.25		Sept.25		Sept.25		
0.17	22. 8.35	0. 0	·1014	0. 0	·01430	1.40	59·0	59·5
2.20	9.30	2.17	·1024	1. 5	·01460	3.40	60·0	61·0
3.18	7. 0	3.55	·1006	2.20	·01380	9.40	64·0	65·0
3.53	4. 0	4.29	·1018	3.20	·01310	21.40	55·0	57·0
6. 8	22. 0.50	5. 0	·1014	7. 6	·00750			
6.31	21.58.30	5.29	·1017	7. 9	·00760			
8. 3	58. 0	6.23	·1004	9.10	·00720			
8.29	55.25	8. 5	·1027	9.15	·00710			
8.47	57.40		***	9.18	·00720			
9. 6	56.25	9. 5	·1027	10. 9	·00670			
9.16	45. 0	9.22	·1058	11.21	·00700			
9.27	52.30	9.45	·1032	12.45	·00790			
9.59	47.30		***	15. 4	·01020			
10.10	50. 0	10.10	·1034	17.43	·01420			
11.10	54.30	10.25	·1024	17.45	·01390			
12.35	57.30	12. 0	·1036	20. 3	·01400			
13.37	21.56. 0	14.20	·1038	22.49	·01360			
14.36	22. 0.45	15. 6	·1046	23.59	·01370			
15.25:	21.54.40	15.47	·1038					
15.55	56.30	18. 0	·1046					
17.38	57.10	20.25	·1042					
20. 7	56.25	22.15	·1028					
22.10	21.58. 0	23.59	·1027					
23.59	22. 2. 0							
Sept.26		Sept.26		Sept.26		Sept.26		
0.17	22. 3.20	0. 0	·1026	0.30	·01360	1.40	58·0	60·0
1.50	4.40	3.50	·1034	2.21	·01120	3.40	63·0	67·0
2. 8	2.50	4.10	·1028	2.35	·00820	9.40	64·0	67·5
3.23	22. 0. 0	4.27	·1038	2.58	·00710	21.40	56·0	58·0
5.25	21.59.30	4.53	·1028	4. 2	·00730			
8. 8	22. 1. 0	5.18	·1038	7.40	·00750			
8.43	21.58. 0	5.40	·1034	7.43	·00810			
9.30	21.56.35	6. 6	·1036	8.34	·00730			
9.59	22. 0. 0	6.14	1031	11.35	·00750			
10.43	21.56.20		***	12.54	·00820			
11. 8	57.25	6.50	·1042	13. 3	·00860			
12. 8	48. 0	7.37	·1030	13.20	·00870			
12.55	57.50	8.30:	·1036	13.30	·00820			
13.15	56.30	9.21	·1021	13.35	·00790			
13.25	58.35		***	13.41	·00730			
13.36	57.35	10.46	·1044	13.54	·00690			
13.45	21.54.20	10.55	·1034	14.24	·00840			
14.25	22.21. 0	11.14	·1041	14.31	·00860			
14.55	21.51. 0	11.27	·1040	16.26	·01100			
15. 2	53. 0	11.48	·1052		***			

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.26		Sept.26		Sept.26				
h m	° ′ ″	h m		h m		h m	°	°
15. 14	21. 49. 10	12. 10	·1038	18. 24	·01410			
15. 17	50. 0		***	18. 35	·01330			
15. 26	45. 30	13. 53	·1040	18. 39	·01420			
15. 37	44. 20	14. 22	·1004	21. 39	·01380			
16. 13	54. 30	14. 40	·1021	23. 59	·01410			
16. 35	56. 30	14. 46	·1016					
18. 22	57. 0	15. 1	·1045					
19. 25	58. 50	15. 8	·1036					
19. 51	21. 57. 30	15. 17	·1041					
20. 1	22. 3. 0	15. 36	·1021					
20. 22	21. 59. 40	15. 41	·1028					
20. 40	22. 1. 0	16. 0	·1020					
21. 32	21. 58. 30		***					
21. 42	22. 1. 30	19. 0	·1043					
22. 0	0. 25		***					
22. 37	3. 0	20. 20	·1022					
22. 42	6. 40	21. 15	·1027					
23. 6	4. 20		***					
23. 27	7. 30	22. 32	·1018					
23. 59	7. 0	22. 55	·1026					
		23. 13	·1008					
		23. 30	·1026					
		23. 50	·1007					
		23. 59	·1008					
Sept.27		Sept.27		Sept.27		Sept.27		
0. 16	22. 6. 30	0. 0	·1008	0. 45	·01370	1. 40	61 ·0	63 ·0
0. 40	6. 0	0. 40	·1014	0. 59	·01330	3. 40	65 ·0	66 ·0
0. 53	11. 0	0. 55	·1033	1. 9	·01320	9. 40	65 ·5	67 ·0
1. 15	5. 50	1. 34	·1010	1. 18	·01330	21. 40	56 ·0	57 ·0
1. 22	8. 30	2. 2	·1023	1. 50	·01230			
1. 42	4. 25	3. 14	·1012	3. 37	·00800			
2. 1	3. 15		***	7. 24	·00810			
3. 34	22. 2. 20	3. 45	·1025	7. 30	·00820			
4. 22	21. 57. 30	4. 8	·1007	7. 50	·00810			
5. 32	58. 50	5. 40	·1024	9. 39	·00760			
7. 22	59. 0		***	11. 47	·00770			
7. 50	58. 0	8. 10	·1021	13. 9	·00850			
8. 13	55. 15	8. 40	·1030	15. 36	·01120			
8. 38	57. 40	8. 55	·1022	17. 49	·01450			
8. 47	56. 35	10. 5	·1028	17. 54	·01440			
9. 36	58. 0	10. 30	·1044		***			
9. 47	56. 45	10. 46	·1032	21. 48	·01430			
10. 23	21. 57. 30	10. 55	·1040	23. 36	·01440			
11. 3	22. 3. 15	11. 14	·1034	23. 59	·01430			
11. 15	0. 50		***					
11. 42	22. 0. 30	12. 23	·1043					
12. 10	21. 57. 30	13. 41	·1031					
13. 0	55. 50	13. 51	·1036					
13. 13	57. 30	14. 14	·1030					
13. 36	21. 57. 0	15. 0	·1040					
14. 17	22. 1. 20	16. 9	·1037					
16. 30	21. 56. 10	17. 45	·1046					
	***	19. 32	·1044					
21. 40	22. 0. 35	20. 32	·1031					
22. 6	21. 59. 30	21. 15	·1030					
23. 3	22. 1. 30	23. 46	·1031					
23. 44	5. 0	23. 59	·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
Sept.27								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 2. 35							
Sept.28		Sept.28		Sept.28		Sept.28		
0. 16	22. 5. 30	0. 4	·1020	0. 45	·01360	1. 40	61 ·0	62 ·0
	***	0. 16	·1020	1. 34	·01230	3. 40	66 ·0	67 ·0
0. 32	3. 15	0. 54	·1026	2. 36	·01020	9. 40	65 ·0	67 ·0
1. 20	3. 35	1. 33	·1014	3. 24	·00780	21. 40	53 ·0	55 ·0
1. 58	2. 30	2. 40	·1025	3. 25	·00810			
2. 18	4. 0		***	3. 45	·00830			
3. 45	22. 2. 0	4. 54	·1006	5. 54	·00830			
4. 17	21. 59. 25	6. 45	·1020	5. 57	·00880			
4. 29	22. 0. 30	10. 10	·1023	6. 16	·00830			
6. 10	21. 57. 25	10. 44	·1020	6. 18	·00840			
9. 7	58. 0	11. 50	·1034	7. 51	·00790			
9. 22	57. 0		***	9. 19:	·00780			
10. 56	57. 0	15. 18	·1028	11. 5	·00900			
11. 10	58. 50	17. 53	·1042	11. 45	·00960			
11. 33	56. 0	23. 59	·1032	12. 46	·01030			
11. 52	59. 30			15. 8	·01450			
12. 1	21. 59. 0			15. 9	·01430			
12. 15	22. 0. 40			23. 59	·01370			
13. 57	21. 55. 0							
15. 4	55. 35							
15. 24	57. 45							
16. 38	56. 20							
18. 1	57. 30							
21. 29	21. 56. 25							
23. 59	22. 2. 30							
Sept.29		Sept.29		Sept.29		Sept.29		
0. 8	22. 2. 25	0. 0	·1033	0. 45	·01340	1. 40	55 ·0	57 ·0
2. 2	22. 3. 10		***	2. 0	·01290	3. 40	62 ·0	63 ·0
4. 51	21. 58. 30	3. 36	·1025	2. 58:	·01170	9. 40	65 ·0	67 ·5
6. 32	58. 15	8. 16	·1034	3. 46	·00920	21. 40	56 ·0	57 ·0
8. 41	56. 30	9. 20	·1027	4. 24	·00730			
10. 46	57. 30	12. 40	·1038	4. 26	·00750			
12. 57	57. 0	13. 23	·1038	7. 10	·00780			
12. 26	58. 0	13. 55:	·1046	12. 21	·00720			
15. 21	55. 0	14. 38	·1038	13. 0	·00740			
16. 15	58. 0	16. 4	·1037	14. 35	·00840			
19. 7	56. 50	19. 21	·1046	16. 50	·01110			
20. 41	56. 0	21. 30	·1041	19. 1	·01460			
21. 49	21. 57. 15	22. 9	·1024	19. 5	·01430			
22. 26	22. 1. 25	22. 21	·1027	22. 30	·01390			
23. 47	5. 45	23. 15:	·1020	23. 59	·01410			
23. 59	4. 50	23. 59	·1023					
Sept.30		Sept.30		Sept.30		Sept.30		
1. 40	22. 0. 21*	1. 40	·1035*	1. 0	·01420	1. 40	59 ·0	60 ·0
3. 40	22. 0. 20*	3. 40	·1027*	2. 39	·01370	3. 40	63 ·0	65 ·0
9. 40	21. 55. 51*	9. 40	·1036*	3. 5	·01310	9. 40	66 ·0	68 ·0
22. 42	58. 5*	22. 42	·1035*	4. 50	·00780	22. 42	56 ·0	57 ·0
				4. 51	·00810			
				7. 9	·00820			
				10. 16	·00750			
				11. 54	·00760			
				13. 15	·00830			
				15. 22	·01040			

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

September 30 to October 6. The Declination and Horizontal Force time-piece was away for repair.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
h m	° ′ ″	h m		Sept. 30 h m		h m	°	°
				18. 17	·01460			
				18. 20	·01440			
				21. 0	·01430			
				22. 54	·01420			
Oct. 1		Oct. 1		Oct. 1		Oct. 1		
11. 25	21. 56. 10*	11. 25	·1041*	1. 45	·01410	11. 25	63 ·5	64 ·5
21. 40	57. 46*	21. 40	·1050*	3. 40	·01430	21. 40	58 ·0	59 ·0
				5. 36	·01440			
				7. 15	·01320			
				10. 1	·01010			
				11. 30	·00900			
				13. 21	·00830			
				14. 24	·00820			
				16. 25	·00850			
				18. 8	·00990			
				19. 45	·01180			
				21. 36	·01430 ·01380			
				23. 59	·01390			
Oct. 2		Oct. 2		Oct. 2		Oct. 2		
1. 40	22. 1. 44*	1. 40	·1039*	0. 15	·01270	1. 40	58 ·0	59 ·5
3. 40	21. 59. 44*	3. 40	·1038*	1. 10	·01290	3. 40	64 ·5	66 ·5
9. 40	58. 32*	9. 40	·1037*		***	9. 40	65 ·5	66 ·0
21. 40	56. 29*	21. 40	·1035*	2. 12	·01140	21. 40	58 ·0	59 ·0
				3. 36	·00790			
				6. 43	·00820			
				7. 35	·00790			
				9. 53	·00730			
				11. 39	·00790			
				12. 30	·00830			
				14. 30	·00960			
				18. 22	·01450			
				18. 25	·01430			
				23. 59	·01420			
Oct. 3		Oct. 3		Oct. 3		Oct. 3		
1. 40	22. 3. 8*	1. 40	·1039*	0. 30	·01380	1. 40	61 ·5	62 ·5
3. 40	21. 49. 44*	3. 40	·1044*	1. 55	·01190	3. 40	64 ·5	66 ·5
9. 40	54. 44*	9. 40	·1043*	3. 49	·00730 ·01760	9. 40	63 ·5	65 ·5
21. 40	54. 48*	21. 40	·1049*			21. 40	53 ·0	55 ·0
				6. 0	·00740 ·00790			
				6. 44	·00750			
				8. 24	·00720			
				10. 0	·00770			
				11. 45	·00930			
				13. 6	·01090			
				15. 5	·01410			
				15. 7	·01390			
				21. 45	·01350			
				23. 59	·01400			
Oct. 4		Oct. 4		Oct. 4		Oct. 4		
1. 40	22. 1. 2*	1. 40	·1039*	0. 39	·01380	1. 40	55 ·0	56 ·0
3. 40	21. 59. 12*	3. 40	·1045*	2. 5	·01290	3. 40	58 ·0	60 ·3
9. 40	50. 46*	9. 40	·1043*	3. 3	·01170	9. 40	62 ·0	63 ·0

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 4 h m	° ′ ″	Oct. 4 h m		Oct. 4 h m		Oct. 4 h m	°	°
21. 40	21. 55. 52	21. 40	·1038*	3. 36	·01050	21. 40	62 ·0	63 ·0
				5. 2	·00670			
				5. 5	·00690			
				7. 2	·00710			
				9. 49	·00660			
				12. 16	·00660			
				17. 50	·00670			
				21. 17	·00720			
				23. 59	·00670			
Oct. 5		Oct. 5		Oct. 5		Oct. 5		
1. 40	22. 4. 20*	1. 40	·1034*	1. 0	·00700	1. 40	64 ·0	64 ·5
3. 40	22. 1. 26*	3. 40	·1041*	3. 38	·00820 ·00850	3. 40	68 ·0	69 ·5
9. 40	21. 57. 11*	9. 40	·1039*			9. 40	68 ·0	68 ·8
21. 40	21. 55. 31*	21. 40	·1044*	4. 37	·00820	21. 40	62 ·5	63 ·0
				8. 9	·00790			
				10. 6	·00820			
				12. 27	·00910			
				13. 45	·01010			
				19. 9	·01540			
				19. 15	·01520			
				22. 9	·01510 ·01430			
				23. 59	·01490			
Oct. 6		Oct. 6		Oct. 6		Oct. 6		
1. 40	22. 2. 11*	1. 40	·1039*	0. 32	·01490	1. 40	62 ·2	63 ·0
3. 40	22. 2. 15*	3. 40	·1047*	1. 30	·01510	3. 40	63 ·5	65 ·0
9. 40	21. 35. 24*	9. 40	·1051*	6. 16	·01460	9. 40	61 ·0	63 ·5
21. 40	21. 55. 34*	21. 40	·1054*	8. 35	·01510 ·01470	21. 40	57 ·0	58 ·0
				9. 50	·01490 ·01090			
				12. 5	·01250			
				12. 30	·01260			
				13. 10	·01270			
				14. 5	·01320			
				16. 47	·01380			
				23. 59	·01410			
Oct. 7		Oct. 7		Oct. 7		Oct. 7		
2. 1	22. 2. 45	1. 48	·1046	1. 15	·01390	1. 40	59 ·0	61 ·0
3. 47	22. 1. 50		***	2. 26	·01350	3. 40	59 ·0	60 ·0
8. 8	21. 57. 30	5. 15	·1051	3. 40	·01240	9. 40	61 ·0	62 ·5
8. 27	55. 35		***	6. 4	·00980	22. 57	57 ·0	59 ·0
9. 8	54. 0	8. 7	·1057	8. 7	·00840			
10. 3	54. 35	9. 0	·1048	10. 30	·00810			
10. 35:	42. 45	10. 16	·1050	12. 45	·00850			
11. 21	53. 0	10. 41	·1065	13. 6	·00850			
12. 50	56. 0	11. 16	·1048	13. 24	·00830			
13. 29	51. 0	12. 50	·1056	16. 55	·01060			
14. 20	53. 50	13. 34	·1084	17. 35	·01050			
14. 32	53. 0	14. 0	·1058	21. 5	·01360 ·01310			
15. 0	55. 30	15. 45	·1058					
15. 15	54. 25	16. 15:	·1065	23. 5	·01380			
16. 31	21. 58. 30	16. 57	·1057					
16. 53	22. 12. 30	17. 22	·1077					
17. 4	13. 0	18. 0	·1078					

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. 7		Oct. 7						
h m	° ′ ″	h m		h m		h m	°	°
17. 32	22. 6. 40	19. 8	·1065					
18. 4	5. 10	20. 5	·1068					
18. 53	9. 10	20. 34	·1054					
20. 44	4. 30	23. 7	·1020					
21. 8	5. 35	23. 59	·1030					
22. 1	4. 30							
22. 47	6. 30							
23. 46	7. 0							
23. 59	9. 0							
Oct. 8		Oct. 8		Oct. 8		Oct. 8		
0. 15	22. 12. 0	0. 0	·1030	0. 0	·01410	9. 55	62 ·5	63 ·0
0. 55	11. 30		***	1. 34:	·01400	21. 40	60 ·0	61 ·0
1. 37	7. 25	1. 15	·1028	3. 5	·01230			
1. 47	8. 0		***		***			
2. 6	6. 0	2. 35	·1041	3. 59	·01130			
2. 34	8. 0		***	4. 31	·01060			
3. 5	6. 0	3. 30	·1025	4. 39	·01070			
3. 20	8. 25		***	4. 44	·01110			
3. 26	7. 0	3. 47	·1030	4. 48	·01090			
3. 38	8. 30	3. 58	·1047	4. 51	·01100			
3. 45	6. 15	4. 15	·1034		***			
3. 59	10. 30	4. 36	·1002	5. 37	·00930			
4. 14	22. 8. 40	4. 46	·1020	5. 43	·00950			
4. 30	21. 59. 0	5. 0	·1015	5. 45	·00920			
4. 34	22. 4. 35		***	5. 50	·00970			
4. 49	21. 56. 0	5. 30	·1022	5. 54	·00920			
4. 55	58. 50	5. 48	·1000	6. 30	·00830			
5. 6	54. 0	5. 54	·1030	6. 54	·00820			
5. 49	56. 0	6. 0	·1014	7. 50	·00820			
6. 0	40. 0	6. 6	·1029	8. 2	·00840			
6. 6	41. 0	6. 42	·0985	8. 21	·00830			
6. 12	36. 25	7. 5	·0994	8. 28	·00800			
6. 20	45. 0	7. 15	·0982	8. 45	·00780			
6. 32	45. 35	7. 21	·0992		***			
6. 43	53. 0		***	9. 54	·00700			
6. 53	53. 0	7. 49	·0984	10. 46	·00650			
7. 1	52. 0	8. 14	·0999	11. 15	·00630			
7. 6	51. 50	8. 33	·0970	11. 31	·00600			
7. 15	55. 0	9. 12	·0990	11. 55	·00610			
7. 25	50. 15	9. 30	·0982	12. 9	·00620			
7. 45	56. 0	9. 47	·0987	12. 18	·00660			
8. 10	48. 35	9. 59	·0982	12. 45	·00580			
8. 26	56. 25	10. 20	·0985	13. 5	·00610			
8. 55	44. 15	11. 5	·0974	13. 47	·00650			
9. 15	47. 30	11. 25	·0997	14. 10	·00640			
9. 34	42. 25	11. 36	·0976	14. 26	·00650			
9. 46	44. 15	11. 56	·0981	14. 55	·00620			
9. 58	42. 0	12. 14	·1006	16. 13	·00710			
10. 32	46. 0	12. 38	·1000	18. 33	·00830			
10. 44	44. 35	13. 0	·1015	22. 51	·00970			
10. 58	55. 10	13. 17	·1002					
11. 20	37. 0	13. 45	·1014					
11. 24	37. 0	14. 25	·1004					
11. 34	31. 30	15. 9	·1040					
11. 47	32. 0	16. 40	·1028					
12. 24	52. 0	17. 40	·1040					
12. 51	41. 50	21. 0	·1023					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 8		Oct. 8						
h m	° ′ ″	h m		h m		h m	°	°
13. 20	21. 39. 25	23. 59	·1034					
13. 56	48. 30							
14. 12	21. 49. 0							
14. 41	22. 6. 35							
15. 1	21. 55. 30							
15. 32	50. 25							
16. 17	56. 30							
16. 38	56. 0							
17. 3	58. 25							
19. 51	57. 25							
20. 52	22. 1. 25							
21. 26	21. 59. 0							
23. 23	22. 0. 0							
23. 59	3. 10							
Oct. 9		Oct. 9		Oct. 9		Oct. 9		
0. 8	22. 2. 35	0. 0	·1034	1. 15	·00920	1. 40	63 ·0	64 ·6
0. 43	5. 0	5. 21	·1024	2. 15	·00890	3. 40	65 ·0	66 ·0
1. 35	2. 0		***	3. 5	·00790	9. 40	65 ·0	66 ·0
3. 47	22. 0. 35	7. 45	·1030	3. 21	·00820	21. 40	58 ·5	59 ·0
5. 18	21. 57. 35	8. 15	·1024	4. 22	·00870			
6. 11	59. 10	12. 0	·1038	5. 38	·00880			
6. 49	57. 25	18. 35	·1046	7. 45	·00840			
7. 8	59. 0	19. 10	·1041	12. 46	·00790			
8. 36	55. 0	20. 0	·1048	14. 10	·00810			
11. 31	57. 10	23. 59	·1034	16. 51	·00920			
14. 40	58. 0			18. 9	·01010			
14. 45	59. 30			20. 20	·01230			
16. 42	57. 35			22. 15	·01480			
17. 17	56. 30			22. 36	·01520			
18. 52	58. 15			22. 40	·01510			
20. 44	54. 30			23. 59	·01520			
22. 12	55. 10							
23. 45	58. 30							
Oct. 10		Oct. 10		Oct. 10		Oct. 10		
0. 6	21. 59. 25	0. 0	·1033	0. 30	·01530	1. 40	62 ·0	62 ·5
1. 34	22. 0. 50	2. 44	·1021	1. 36	·01540	3. 40	65 ·5	67 ·0
4. 43	22. 0. 0	3. 32	·1030	2. 47	·01440	9. 40	66 ·0	68 ·0
5. 57	21. 57. 50		***	4. 45	·01150	21. 40	61 ·0	62 ·0
7. 45	56. 40	7. 35	·1032	6. 15	·00940			
7. 58	55. 0	7. 50	·1026	7. 39	·00820			
9. 50	56. 30	10. 36:	·1048	10. 3	·00760			
10. 28:	51. 20	10. 54	·1041	11. 51	·00810			
11. 6	55. 30	11. 43	·1048	13. 55	·00900			
13. 32	58. 25	18. 5	·1054	18. 0	·01090			
17. 47	57. 20	20. 10	·1051	19. 9	·01120			
21. 25	55. 0	23. 44	·1030	21. 54	·01140			
23. 59	58. 0	23. 59	·1032	23. 59	·01210			
Oct. 11		Oct. 11		Oct. 11		Oct. 11		
0. 16	21. 59. 30	0. 0	·1033	0. 30	·01210	1. 40	61 ·0	62 ·0
2. 0	22. 2. 20	2. 16	·1026	1. 24	·01250	3. 40	63 ·0	63 ·5
4. 55	21. 59. 25		***	2. 41	·01250	9. 40	61 ·0	61 ·0
8. 17	56. 30	11. 5	·1054	5. 31	·01160	21. 40	50 ·0	51 ·0
8. 50	57. 20	19. 45	·1066	8. 3	·01190			
10. 35	57. 0	22. 45	·1060	9. 35	·01280			
10. 58	55. 10	23. 59	·1043	11. 30	{ ·01480 ·01450			

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Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 11				Oct. 11				
h m	° ′ ″	h m		h m		h m	°	°
13. 1	21. 57. 50			12. 6	·01450			
18. 8	58. 40			12. 45	·01440			
21. 50	55. 0			21. 40	·01340			
22. 45	21. 58. 35			22. 10	·01350			
23. 47	22. 0. 30				·01270			
				23. 40	·01380			
Oct. 12		Oct. 12		Oct. 12		Oct. 12		
0. 0	22. 3. 40	0. 0	·1042	0. 0	·01380	1. 40	55 ·0	56 ·0
0. 23	5. 20		***	1. 15	·01350	3. 40	58 ·5	60 ·0
1. 15	2. 0	0. 46	·1033	2. 10	·01250	9. 40	60 ·5	62 ·5
2. 2	1. 30	3. 10	·1040	3. 24	·00970	21. 58	48 ·5	54 ·0
2. 26	3. 25	3. 26	·1032		***			
2. 47	2. 30	3. 46	·1048	4. 25	·00740			
3. 10	3. 30		***	4. 35	·00710			
3. 23	1. 30	4. 45	·1022	4. 38	·00730			
3. 46	4. 30	4. 53	·1030	4. 54	·00750			
3. 55	3. 15	5. 5	·1016	5. 5	·00740			
4. 15	6. 10	5. 15	·1032	5. 7	·00760			
4. 45	4. 30	5. 28	·1016	5. 17	·00790			
4. 56	22. 6. 30	5. 42	·1034		***			
5. 5	21. 57. 10	6. 10:	·1018	6. 40	·00780			
5. 15	58. 50		***	6. 58	·00770			
5. 20	55. 30	6. 46	·1024	7. 18	·00790			
5. 29	21. 54. 30	7. 0	·1015	7. 59	·00760			
5. 47	22. 3. 40	7. 13	·1018	8. 57	·00710			
5. 52	3. 20	7. 21	·1012	10. 22	·00670			
6. 2	4. 30	7. 30	·1018	11. 36	·00680			
6. 8	3. 35	7. 48	·1017	12. 15	·00720			
6. 13	4. 15	8. 4	·1001	13. 32	·00840			
6. 18	3. 0	8. 15	·1021	13. 44	·00830			
6. 27	22. 4. 45	9. 30	·1044	15. 22	·01030			
7. 7	21. 56. 30	10. 5	·1038	16. 8	·01120			
7. 17	59. 0	10. 37	·1045	17. 9	·01350			
7. 25	55. 25	10. 50	·1032		·01310			
7. 34	58. 30	11. 14	·1056	19. 18	·01310			
7. 45	56. 0	11. 35	·1042	19. 35	·01330			
7. 56	56. 30	12. 45	·1040	22. 15	·01380			
8. 8	51. 30	13. 24	·1044		·01330			
8. 22	54. 0	13. 40	·1062	22. 45	·01370			
8. 52	53. 50	14. 45	·1053					
9. 12	55. 45	15. 30	·1024					
9. 32	55. 40	16. 10	·1058					
9. 51	51. 30	16. 39	·1052					
10. 9	53. 10	17. 27	·1062					
10. 33	40. 15	19. 6	·1070					
10. 46	42. 30	22. 8	·1056					
11. 5	36. 30	23. 59	·1057					
11. 22	44. 45							
11. 35	45. 0							
12. 13	50. 0							
13. 10	54. 0							
13. 30	57. 20							
14. 50:	21. 44. 0							
15. 33	22. 5. 0							
15. 47	22. 6. 0							
16. 36	21. 55. 20							
17. 43	21. 56. 0							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 12								
h m	° ′ ″	h m		h m		h m	°	°
19. 8	22. 2. 30							
20. 25	21. 59. 30							
20. 52	22. 1. 0							
21. 43	21. 56. 45							
22. 43	55. 45							
23. 59	58. 30							
Oct. 13		Oct. 13		Oct. 13		Oct. 13		
0. 7	21. 59. 15	0. 0	·1056	0. 0	·01410	1. 40	51 ·0	52 ·5
1. 6	22. 0. 45	2. 30:	·1048	0. 25	·01420	3. 40	52 ·5	54 ·9
5. 53	21. 57. 15	7. 45	·1062	0. 28	·01400	9. 40	53 ·0	55 ·0
8. 2	58. 0	13. 19	·1060	0. 43	·01390	21. 40	51 ·0	53 ·0
12. 34	57. 30	19. 30	·1073	2. 40:	·01290			
12. 50	58. 30	23. 0	·1080	4. 21	·01060			
13. 53	57. 0	23. 59	·1048	7. 3:	·00760			
14. 35	58. 50			9. 13	·00690			
20. 46	54. 35			10. 31	·00720			
22. 32	21. 56. 30			13. 0	·00850			
23. 56	22. 0. 35			18. 24	·01210			
				19. 30	·01250			
				22. 35	·01210			
				23. 59	·01110			
Oct. 14		Oct. 14		Oct. 14		Oct. 14		
0. 32	22. 2. 0	0. 0	·1048	2. 0	·00880	1. 40	54 ·5	56 ·5
2. 37	22. 0. 35	1. 10	·1047	3. 11	·00710	3. 40	56 ·0	57 ·7
4. 43	21. 58. 20	3. 15	·1050	3. 46	·00690	9. 40	58 ·0	59 ·0
6. 55	58. 35	11. 37	·1059	5. 54	·00720	23. 24	54 ·5	57 ·5
11. 50	56. 30	13. 0	·1054	7. 51	·00710			
13. 20	57. 30	14. 0	·1060	13. 19	·00690			
13. 28	59. 35	15. 18	·1054	14. 5	·00670			
13. 51	59. 50	19. 30	·1062	18. 37	·00690			
14. 24	57. 25	23. 59	·1050	22. 9	·00740			
14. 56	57. 35			23. 59	·00750			
15. 13	59. 40							
15. 58	58. 10							
16. 18	59. 45							
17. 2	58. 0							
21. 28:	56. 0							
23. 2	21. 59. 10							
23. 59	22. 3. 0							
Oct. 15		Oct. 15		Oct. 15		Oct. 15		
0. 7	22. 2. 0	0. 0	·1051	1. 45	·00710	9. 55	58 ·0	58 ·0
0. 55	4. 10	0. 16	·1044	4. 36	·00730	21. 40	54 ·0	55 ·0
2. 17	3. 0	0. 45	·1051	6. 13	·00720			
2. 30	1. 15		***	7. 46	·00720			
3. 28	22. 0. 15	2. 53	·1052	12. 15	·00810			
4. 18	21. 58. 5	3. 40	·1047	12. 45	·00790			
5. 46	58. 0	7. 0	·1059		(†)			
6. 6	59. 0	8. 40	·1056	21. 45	·01370			
7. 13	56. 25		***	22. 20	·01390			
7. 43	57. 15	9. 31	·1064	22. 51	·01430			
12. 35	57. 35		***	23. 37	·01490			
13. 2	59. 0	13. 15	·1056	23. 59	·01490			
14. 8	57. 45		(†)					
	(†)	21. 55	·1060					
21. 45	56. 30	23. 15:	·1050					

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Oct. 15		Oct. 15						
h m	° ′ ″	h m		h m		h m	°	°
22. 47	21. 59. 40	23. 59	·1051					
23. 59	22. 0. 35							
Oct. 16		Oct. 16		Oct. 16		Oct. 16		
0. 37	22. 2. 10	0. 0	·1052	1. 0	·01460	1. 40	55 ·8	57 ·5
1. 16	22. 1. 50	0. 20	·1054	1. 52	·01400	3. 40	58 ·0	59 ·0
4. 31	21. 57. 30	4. 30:	·1038	2. 47	·01270	9. 40	59 ·0	60 ·0
5. 34	58. 0	16. 8	·1059	4. 4	·01030	21. 40	50 ·5	54 ·5
6. 37	55. 45	20. 30	·1067	5. 7	·00780			
8. 35	58. 30	23. 15	·1051		·00820			
12. 37	21. 58. 30	23. 59	·1052	6. 30	·00800			
13. 30	22. 0. 0			8. 46	·00760			
14. 47	21. 58. 30			12. 20	·00760			
19. 32	58. 15			12. 45	·00770			
20. 41	21. 57. 25			14. 20	·00850			
22. 23	22. 0. 45			16. 22	·01040			
22. 43	0. 30			19. 35	·01490			
23. 59	4. 15			19. 37	·01470			
				20. 12	·01470			
				20. 16	·01460			
				20. 20	·01470			
				22. 54	·01460			
				23. 59	·01480			
Oct. 17		Oct. 17		Oct. 17		Oct. 17		
0. 20	22. 3. 10	0. 0	·1052	1. 15	·01460	1. 40	53 ·5	55 ·0
0. 50	22. 4. 30	2. 50	·1056	2. 10	·01390	3. 40	55 ·5	58 ·5
5. 12	21. 57. 30	5. 56	·1050	2. 36	·01330	9. 40	55 ·0	57 ·0
7. 55	58. 30	10. 18	·1059	5. 40	·00730	21. 40	53 ·0	54 ·0
10. 4	57. 15	10. 40	·1077	5. 42	·00750			
10. 28	54. 35	11. 2	·1077	6. 54	·00760			
10. 56	58. 0	11. 34	·1064	9. 24	·00710			
11. 17	57. 0	13. 30	·1068	10. 45	·00730			
11. 43	58. 35		***	12. 54	·00800			
12. 1	58. 0	15. 0	·1064	13. 36	·00840			
12. 42	59. 0	18. 32	·1076	19. 54	·01250			
14. 2	57. 0	19. 12	·1064	23. 1	·01360			
14. 47	58. 10	20. 30:	·1068	23. 59	·01360			
15. 40	21. 57. 30	22. 20	·1058					
15. 58	22. 0. 0	22. 43	·1056					
17. 29	21. 57. 0		***					
19. 38	58. 30	23. 32	·1055					
20. 23	56. 30	23. 47	·1061					
21. 51	21. 57. 35	23. 59	·1056					
23. 22	22. 2. 0							
23. 38	5. 0							
23. 54	3. 0							
Oct. 18		Oct. 18		Oct. 18		Oct. 18		
0. 0	22. 3. 0	0. 0	·1057	1. 30	·01300	1. 40	54 ·0	55 ·0
1. 30	3. 40	1. 6	·1056	2. 43	·01230	3. 40	55 ·0	56 ·0
2. 22	2. 0	3. 11	·1056	3. 54	·01140	9. 40	55 ·0	56 ·5
2. 42	3. 35	3. 31	·1062	5. 30	·00950	21. 40	49 ·0	49 ·5
3. 22	3. 0	3. 49:	·1056	8. 31:	·00840			
3. 42	5. 45		***	11. 26	·00970			
5. 10	22. 3. 30	4. 37	·1072	12. 53	·01070			
6. 5	21. 59. 30	5. 18	·1050	13. 45	·01130			
9. 23	59. 40	6. 25	·1065	15. 33	·01250			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 18		Oct. 18		Oct. 18				
h m	° ′ ″	h m		h m		h m	°	°
9. 39	21. 58. 0	7. 23	·1065	15. 50	·01260			
12. 37	59. 0	8. 0	·1057	16. 10	·01290			
14. 23	21. 55. 40	13. 30	·1061	17. 56	·01430			
15. 25	22. 1. 30	13. 53	·1064	18. 2	·01420			
15. 46	22. 1. 20	15. 6	·1058	20. 33	·01440			
16. 36	21. 53. 0		***	23. 2	·01420			
16. 54	52. 0	16. 17	·1038	23. 59	·01430			
17. 57	58. 0	16. 55	·1040					
22. 5	21. 56. 25	19. 45	·1060					
23. 52	22. 1. 0	21. 0	·1064					
		23. 59	·1046					
Oct. 19		Oct. 19		Oct. 19		Oct. 19		
0. 0	22. 0. 30	0. 0	·1046	0. 2	·01450	1. 40	51 ·5	52 ·0
1. 2	4. 0	1. 10	·1053	1. 36:	·01430	3. 40	54 ·0	54 ·5
2. 25	1. 0	1. 45	·1044	2. 41	·01330	9. 40	54 ·0	54 ·5
3. 26	22. 1. 0		***	3. 5	·01270	21. 40	52 ·5	54 ·5
4. 43	21. 38. 30	6. 25	·1051	5. 9	·00910			
7. 23	53. 50	6. 53	·1047	6. 59	·00670			
8. 23	57. 0	8. 21	·1048	7. 1	·00690			
8. 44	55. 0	8. 45	·1059	9. 24	·00650			
8. 56	56. 10		***	11. 45	·00680			
9. 12	54. 25	10. 23	·1057	12. 30	·00700			
9. 58	57. 0	18. 30	·1068	15. 23	·00830			
10. 38	56. 0	23. 59	·1048	18. 9	·00900			
11. 36	57. 40			20. 19	·00880			
11. 56	56. 25			23. 4	·00740			
12. 23	58. 0			23. 45	·00680			
13. 45	57. 0							
14. 37	59. 30							
15. 0	57. 50							
18. 16	58. 25							
20. 55	21. 55: 30							
23. 59	22. 2. 15							
Oct. 20		Oct. 20		Oct. 20		Oct. 20		
0. 7	22. 2. 25	0. 0	·1047	0. 44	·00640	1. 40	56 ·8	57 ·3
0. 55	22. 2. 40	4. 15	·1048		·00690	3. 40	58 ·0	59 ·0
5. 20	21. 56. 35	4. 40	·1042	4. 21	·00830	9. 40	57 ·0	58 ·0
7. 38	58. 15	8. 27	·1057	6. 17	·00810	21. 40	52 ·5	55 ·0
12. 10	56. 30	10. 0	·1056	7. 7	·00810			
13. 47	57. 50	19. 15:	·1069	9. 23	·00760			
14. 2	59. 30	23. 59	·1050	11. 43	·00820			
14. 49	58. 0			13. 0	·00890			
19. 15	57. 40			15. 45	·01090			
22. 0	21. 55. 35			20. 24	·01500			
23. 59	22. 0. 20			20. 28	·01490			
				20. 49	·01480			
				20. 54	·01470			
				20. 57	·01480			
				23. 59	·01460			
Oct. 21		Oct. 21		Oct. 21		Oct. 21		
0. 15	22. 0. 30	0. 0	·1049	0. 0	·01470	1. 40	54 ·8	55 ·0
1. 2	2. 0	4. 35	·1050	1. 39:	·01430	3. 40	57 ·5	58 ·0
2. 38	22. 1. 20	5. 0	·1056	3. 4	·01240	9. 40	58 ·0	59 ·0
4. 35	21. 58. 0	6. 20:	·1042	5. 31	·00790	22. 41	56 ·7	57 ·5
6. 2	59. 30		***		·00820			

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. 21		Oct. 21		Oct. 21				
h m	° ′ ″	h m		h m		h m	°	°
6. 38	21. 55. 0	8. 0	·1058	7. 13	·00820			
7. 18	58. 30	8. 32	·1050	8. 40	·00790			
7. 35	57. 15	10. 3	·1056	10. 36	·00770			
7. 55	58. 0	10. 20	·1062	10. 51	·00760			
10. 10	55. 35	11. 7	·1054	11. 33	·00770			
10. 47	58. 20	19. 6	·1066	12. 30	·00800			
11. 13	54. 0	20. 52	·1064	15. 16	·00910			
12. 13	57. 10	23. 59	·1036	17. 51	·01070			
12. 45	56. 30			19. 45	·01130			
13. 46	58. 15			20. 54	·01150			
15. 7	57. 15			22. 52	·01120			
16. 50	58. 10							
18. 18	54. 0							
19. 25	57. 0							
19. 54	58. 0							
20. 30	55. 35							
21. 58	21. 57. 30							
23. 59	22. 4. 45							
Oct. 22		Oct. 22		Oct. 22		Oct. 22		
0. 8	22. 5. 30	0. 0	·1036	0. 0	·01070	11. 40	56 ·2	
0. 29	6. 45		***	3. 13	·00950	21. 40	53 ·0	54 ·8
1. 3	6. 0	2. 34	·1038	5. 25	{·00800 ·00850			
1. 15	7. 10	3. 7	·1046					
2. 25	3. 15	3. 34	·1041	8. 58	·00790			
2. 56	4. 35	12. 40	·1063	9. 50	·00800			
3. 35	22. 1. 35	13. 8	·1057	10. 15	·00850			
5. 23	21. 58. 30	14. 15	·1056	12. 30	·00990			
9. 32	56. 10	20. 15	·1066	16. 10	·01320			
9. 50	52. 45	23. 22	·1050	18. 9	·01480			
10. 14	56. 0	23. 59	·1048	18. 16	·01460			
11. 18	56. 30			22. 36	·01440			
11. 36	59. 20			23. 59	·01460			
12. 19	54. 30							
14. 28	57. 45							
16. 35	57. 35							
17. 8	59. 0							
21. 28	56. 40							
22. 40	21. 57. 40							
23. 36	22. 1. 30							
23. 59	0. 50							
Oct. 23		Oct. 23		Oct. 23		Oct. 23		
0. 17	22. 0. 40	0. 0	·1047	1. 30	·01350	1. 40	55 ·0	57 ·0
0. 43	2. 10	0. 40	·1044	2. 26	·01240	3. 40	56 ·5	58 ·5
1. 0	1. 25	1. 4	·1048	4. 35	·00790	9. 40	56 ·5	57 ·5
2. 2	22. 0. 35	1. 15	·1046	4. 37	·00810	21. 40	48 ·0	51 ·0
4. 58	21. 57. 0	4. 53	·1050	7. 16	{·00770 ·00850			
9. 17	56. 10	13. 44	·1066					
11. 28	57. 0	13. 50	·1080	7. 49	·00840			
12. 39	55. 20	13. 56	·1075	9. 5	·00860			
13. 50	57. 30	14. 53	·1068	10. 51	·00980			
14. 56	53. 35	15. 37	·1083	12. 36	·01170			
15. 23	56. 30	16. 22	·1050	13. 30	·01270			
16. 1	52. 0	16. 48	·1086	13. 53	·01330			
16. 16	52. 15	18. 0	·1069	13. 58	·01350			
16. 25	57. 0	20. 40	·1080	14. 3	·01350			
16. 42	50. 0	21. 6	·1070	14. 34	·01420			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 23		Oct. 23		Oct. 23				
h m	° ′ ″	h m		h m		h m	°	°
16. 58	21. 50. 0	21. 57	·1064	14. 36	·01400			
17. 32	56. 35	22. 7	·1074	15. 7	·01390			
17. 55	55. 25		***	15. 55	·01350			
19. 2	59. 30	23. 22	·1053	16. 23	·01340			
19. 10	58. 0		***	16. 29	·01360			
20. 18	58. 0	23. 59	·1044	16. 41	·01340			
21. 42	54. 40			21. 25	·01380			
22. 20	21. 59. 0			23. 0	{·01410 ·01370			
23. 59	22. 0. 30							
				23. 38	·01410			
Oct. 24		Oct. 24		Oct. 24		Oct. 24		
0. 10	22. 1. 0	0. 0	·1045	0. 0	·01420	1. 40	51 ·0	53 ·5
0. 30	3. 20	0. 20	·1062	0. 35	·01410	3. 40	51 ·0	53 ·5
1. 9	0. 25	1. 2	·1044	1. 26	·01360	9. 40	56 ·0	57 ·0
1. 25	2. 35	1. 16	·1060	2. 0	·01290	21. 40	52 ·5	53 ·5
1. 46	2. 0	1. 31	·1050		***			
1. 56	4. 0	1. 53	·1062	3. 15	·01030			
2. 17	2. 10	2. 14	·1052	4. 8	·00780			
3. 1	5. 0		***	4. 29	·00830			
3. 17	7. 30	3. 4	·1065		***			
4. 24	6. 30	4. 10	·1032	7. 21	·00780			
4. 47	1. 15	4. 23	·1042	10. 1	·00750			
5. 31	22. 0. 0	4. 49	·1025	11. 10	·00710			
5. 44	21. 58. 20		***	11. 45	·00690			
6. 24	59. 0	5. 55	·1052	12. 30	·00710			
7. 35	57. 0	6. 18	·1040	14. 43	·00760			
10. 16	55. 30		***	17. 5	·00890			
10. 42	52. 0	7. 32	·1051	20. 55	·01150			
11. 22	55. 20	9. 41	·1051	22. 6	·01210			
11. 54	54. 50	10. 10	·1066	23. 15	·01250			
12. 6	56. 30	10. 27	·1070	23. 59	·01260			
13. 5	55. 30	10. 41	·1062					
14. 7	57. 25	11. 10	·1071					
15. 8	21. 55. 35	11. 47	·1056					
15. 34	22. 0. 0	12. 4	·1062					
16. 2	21. 57. 35	12. 30	·1054					
16. 40	21. 57. 25	15. 36	·1054					
17. 28	22. 0. 0	18. 0	·1071					
17. 44	21. 58. 25	18. 44	·1060					
18. 25	22. 0. 30	19. 15	·1073					
18. 56	21. 59. 40	19. 53	·1077					
19. 25	21. 57. 0		***					
20. 7	22. 1. 10	22. 23	·1040					
20. 55	21. 57. 45	23. 4	·1047					
21. 9	58. 30	23. 48	·1038					
21. 28	56. 0	23. 59	·1047					
21. 58	59. 0							
22. 30	21. 56. 45							
23. 6	22. 1. 35							
23. 26	2. 15							
23. 34	0. 40							
23. 56	0. 45							
Oct. 25		Oct. 25		Oct. 25		Oct. 25		
0. 22	21. 58. 10	0. 0	·1048	1. 0	·01270	1. 40	53 ·5	55 ·0
1. 20	22. 4. 25	1. 5	·1058	2. 5	·01230	3. 40	54 ·0	56 ·5
1. 40	5. 0	1. 30	·1054	2. 13	·01250	9. 40	52 ·5	55 ·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. 25		Oct. 25		Oct. 25		Oct. 25		
h m	° ′ ″	h m		h m		h m	°	°
1. 46	22. 2. 35	2. 4	·1040	2. 20	·01230	21. 40	46 ·0	49 ·0
2. 9	3. 25	2. 15	·1044	3. 21	·01160			
2. 20	8. 0	2. 30	·1023		***			
2. 33	22. 2. 0	3. 23	·1055	4. 0	·01060			
3. 2	21. 57. 35		***	5. 30	·00900			
3. 57	22. 1. 0	4. 14	·1050	7. 20	·00770			
5. 43	21. 59. 0		***	8. 46	·00780			
6. 13	54. 50	4. 44	·1060	9. 56	·00840			
6. 38	57. 10		***	10. 11	·00860			
7. 20	56. 0	5. 30	·1042	11. 9	·00850			
7. 37	54. 15		***	12. 15	·00970			
7. 48	57. 20	5. 55	·1040	12. 45	·01010			
8. 30	53. 45		***	16. 22	{·01430			
8. 47	55. 20	6. 30	·1056		{·01390			
9. 5	46. 10	7. 5	·1042	18. 51	·01410			
9. 20	52. 20	7. 15	·1052	22. 5	{·01390			
9. 47	36. 20	7. 37	·1036		{·01340			
9. 58	35. 30	8. 4	·1054					
10. 17	43. 0	8. 20	·1040					
10. 29	41. 50	9. 2	·1052					
10. 58	43. 0	9. 14	·1068					
11. 16	48. 0	9. 36	·1044					
11. 46	47. 10	10. 37	·1104					
12. 20	53. 10	11. 10	·1054					
13. 28	21. 56. 0	11. 32	·1066					
13. 52	22. 0. 0	12. 7	·1046					
14. 25	22. 0. 30	13. 16	·1045					
15. 5	21. 59. 20	13. 36	·1058					
15. 58	22. 1. 0	13. 54	·1054					
16. 46	21. 56. 30	17. 0	·1069					
18. 30	22. 3. 0	18. 0	·1054					
18. 43	0. 0		***					
19. 13	22. 0. 40	19. 0	·1068					
19. 37	21. 58. 0	20. 13	·1066					
20. 13	22. 0. 10		***					
20. 50	21. 56. 35	20. 44	·1056					
21. 19	59. 0	21. 3	·1063					
21. 57	56. 30	22. 0	·1056					
22. 18	58. 30	23. 59	·1054					
23. 59	59. 30							
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
0. 13	21. 59. 45	0. 0	·1053	0. 0	·01390	1. 40	49 ·0	52 ·0
3. 32	22. 1. 0	1. 30	·1059	1. 16:	·01320	3. 40	52 ·0	55 ·0
4. 3	21. 56. 0	2. 44	·1052	2. 50	·01110	9. 40	54 ·0	55 ·5
4. 37	55. 45	3. 18	·1056	4. 16	·00760	21. 40	46 ·0	48 ·5
4. 56	51. 40	4. 2	·1038	7. 19	·00720			
5. 43	57. 0	4. 14	·1046	7. 34	·00730			
7. 7	57. 30	5. 2	·1042	7. 46	·00710			
7. 28	44. 15	5. 39	·1054	8. 9	·00700			
7. 42	51. 45	6. 50	·1057	10. 15	·00710			
7. 53	47. 30	7. 24	·1048	11. 5	·00690			
8. 2	51. 0	7. 40	·1090	11. 19	·00700			
8. 10	50. 0	7. 51	·1078	11. 34	·00690			
8. 29	55. 0	7. 57	·1086	13. 55	·00800			
8. 42	54. 10	8. 10	·1074	15. 23	·00930			
9. 14	54. 50	8. 17	·1076	18. 59	·01430			
9. 27	56. 0	8. 44	·1049	19. 1	·01410			
			***					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Oct. 26		Oct. 26		Oct. 26		Oct. 26		
h m	° ′ ″	h m		h m		h m	°	°
9. 43	21. 54. 30	9. 40	·1050	22. 28	·01390			
10. 42	58. 0	10. 0	·1059	23. 5	·01410			
11. 2	56. 50	10. 20	·1954					
11. 13	59. 30	10. 45	·1060					
11. 46	56. 0	11. 18	·1066					
12. 8	57. 30	11. 54	·1056					
12. 30	56. 30	16. 5	·1066					
12. 46	58. 30	19. 0	·1079					
13. 8	57. 45	21. 6	·1074					
13. 43	59. 20	23. 57	·1054					
15. 31	57. 30							
16. 50	58. 50							
22. 28	57. 45							
23. 7	59. 45							
Oct. 27		Oct. 27		Oct. 27		Oct. 27		
0. 15	22. 2. 0	0. 15	·1054	0. 0	·01420	2. 15	49 ·0	52 ·0
0. 40	22. 0. 40		***	1. 54	·01370	3. 40	51 ·0	54 ·0
1. 34	21. 59. 10	1. 35	·1050	4. 7	·00950	9. 40	54 ·0	55 ·0
1. 50	22. 1. 40		***	4. 29	·00840	21. 40	51 ·0	54 ·0
2. 44	22. 1. 0	1. 50	·1056	4. 33	·00850			
3. 25	21. 52. 30		***	7. 7	·00810			
4. 33	58. 0	2. 45	·1046	11. 19	·00750			
6. 46	55. 50	3. 0	·1035	12. 15	·00770			
7. 3	53. 0	3. 30	·1032	17. 55	·01010			
7. 34	55. 0		***	20. 30	·01060			
7. 45	53. 25	4. 30	·1046	22. 24	·01070			
8. 7	56. 30		***	23. 54	·01010			
8. 54	55. 30	5. 6	·1042					
9. 16	53. 0	7. 7	·1051					
10. 5	56. 30	7. 23	·1058					
	(†)	7. 50	·1052					
		8. 5	·1062					
		8. 31	·1048					
		9. 50	·1054					
		10. 15	·1053					
			(†)					
Oct. 28		Oct. 28		Oct. 28		Oct. 28		
0. 5	22. 2. 35	0. 0	·1050	0. 15	·00960	1. 40	54 ·5	56 ·0
3. 14	21. 58. 0	2. 40	·1040	1. 41	{·00780	3. 40	56 ·0	58 ·0
6. 5	57. 0	10. 55	·1059		{·00820	9. 40	55 ·5	57 ·0
7. 10	57. 0	11. 24	·1053	3. 53	·00850	22. 30	48 ·0	51 ·0
7. 41	54. 20	12. 4	·1057	7. 44	·00820			
7. 56	56. 10	19. 35	·1073	7. 51	·00850			
8. 13	55. 0	22. 15	·1072	10. 1	·00890			
8. 32	56. 45		(†)	11. 45	·00950			
10. 1	57. 15			12. 15	·00980			
10. 38	54. 45			14. 25	·01150			
11. 8	56. 30			17. 51	·01520			
11. 37	55. 30			17. 55	·01510			
11. 55	56. 30			21. 24	·01480			
12. 25	55. 20			22. 30	·01460			
13. 25	57. 35							
20. 34	59. 0							
23. 59	58. 35							

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. 29		Oct. 29		Oct. 29		Oct. 29		
h m	° ′ ″	h m		h m		h m	°	°
0. 10	21. 58. 30	0. 0	·1067	0. 0	·01420	9. 40	57 ·0	59 ·0
4. 21	56. 50	2. 25	·1053	1. 11:	·01440	21. 40	54 ·0	55 ·0
8. 21	56. 30	6. 5	·1047	2. 17	·01310			
21. 46	21. 58. 0	20. 30	·1069	3. 12	·01140			
23. 59	22. 0. 40	23. 59	·1058	4. 20	·00890			
				6. 21	·00920			
				10. 14	·00840			
				11. 15	·00830			
				15. 2	·00890			
				18. 26	·00960			
				21. 40	·01120			
Oct. 30		Oct. 30		Oct. 30		Oct. 30		
0. 8	22. 0. 35	0. 0	·1058	1. 0	·01120	1. 40	57 ·0	59 ·0
1. 0	2. 0	0. 48	·1051	2. 32	·00930	3. 40	60 ·0	61 ·5
2. 22	22. 0. 40	1. 15	·1053	3. 1	·00990	9. 40	62 ·0	63 ·0
2. 52	21. 58. 35	1. 53	·1044	5. 4	·01010	21. 40	57 ·0	59 ·0
4. 40	56. 20	4. 13	·1043	5. 10	·01030			
6. 57	57. 0	7. 17	·1048	5. 24	·01000			
10. 58	55. 30		***	5. 25	·01010			
11. 15	53. 40	8. 40	·1040	7. 43	·00960			
12. 24	57. 0	9. 11	·1048	9. 26	·00930			
18. 32	57. 40	11. 36	·1055	9. 30	·00950			
19. 22	59. 40	20. 5	·1064	11. 23	·00940			
21. 20	21. 55. 40	23. 59	·1040	13. 0	·00980			
23. 59	22. 1. 25			20. 29	·01280			
				23. 9	·01390			
				23. 59	·01390			
Oct. 31		Oct. 31		Oct. 31		Oct. 31		
0. 10	22. 2. 0	0. 0	·1040	1. 0	·01300	1. 40	62 ·0	63 ·0
1. 24	2. 0		***	2. 55	{·01010	3. 40	64 ·0	65 ·0
2. 40	22. 0. 30	9. 20	·1044		{·01050	9. 40	64 ·2	66 ·0
4. 12	21. 57. 15	12. 45	·1054	3. 35	{·01050	21. 40	55 ·0	56 ·0
7. 57	57. 0		***		{·01090			
11. 23	54. 50	15. 16	·1056	5. 32	·01020			
11. 48	56. 45	17. 8	·1064	5. 39	·01090			
12. 12	52. 45	22. 33	·1068	7. 24	·01000			
13. 40	57. 30	23. 59	·1064	7. 30	·01020			
13. 56	56. 0			10. 51	·00990			
15. 35	57. 30			12. 30	·01040			
22. 15	21. 56. 10			13. 15	·01070			
23. 59	22. 0. 30			14. 56	·01220			
				18. 1	·01650			
				18. 8	·01640			
				19. 52	·01620			
				22. 31	·01580			
				23. 59	·01610			
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
0. 13	22. 1. 30	0. 0	·1063	1. 47	{·01590	1. 40	57 ·0	59 ·0
0. 44	2. 0	0. 8	·1059		{·01450	3. 40	61 ·0	62 ·0
0. 55	4. 0	0. 45	·1054	2. 15	·01450	9. 40	60 ·0	61 ·0
1. 24	1. 30	1. 4	·1050	3. 36	·01300	21. 40	56 ·5	57 ·0
1. 51	5. 40	1. 31	·1058	4. 32	01120			
2. 17	3. 0		***	5. 48	·00870			
	***	3. 9	·1032	8. 11	·00830			
2. 47	4. 0	3. 32	·1042	8. 17	·00820			
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 1		Nov. 1		Nov. 1		Nov. 1		
h m	° ′ ″	h m		h m		h m	°	°
3. 28	22. 1. 15	4. 6:	·1024	8. 28	·00830			
3. 43	4. 10	4. 37	·1036	9. 54	·00810			
4. 5	22. 2. 50		***	10. 6	·00800			
4. 39	21. 55. 20	6. 46	·1038	10. 30	·00820			
5. 18	22. 0. 20	7. 20	·1024	12. 0	·00930			
5. 42	21. 58. 15	7. 30	·1036	13. 15	·00990			
6. 2	59. 25		***	18. 49	·01340			
6. 18	21. 57. 15	8. 4	·1030	22. 39	·01530			
6. 43	22. 1. 30	8. 20	·1008	23. 59	·01560			
7. 21	21. 53. 35	8. 35	·1038					
7. 29	54. 15	8. 53	·1026					
7. 38	53. 30	9. 30	·1035					
7. 45	56. 45	9. 53	·1054					
7. 50	55. 40		***					
8. 5	58. 0	10. 36	·1044					
8. 24	46. 30		***					
8. 45	54. 30	12. 40	·1054					
8. 57	50. 0	14. 39	·1052					
9. 16	52. 45	18. 25	·1062					
9. 37	52. 50	21. 0	·1059					
9. 53	57. 50	21. 50	·1047					
10. 29	47. 30	23. 59	·1051					
11. 4	53. 30							
13. 32	55. 0							
14. 43	58. 30							
17. 20	56. 30							
20. 2	57. 0							
22. 4	21. 59. 0							
23. 59	22. 2. 40							
Nov. 2		Nov. 2		Nov. 2		Nov. 2		
0. 13	22. 2. 30	0. 0	·1051	1. 0	·01540	1. 40	57 ·0	59 ·0
0. 58	2. 0	1. 8	·1052	2. 53:	·01470	3. 40	60 ·0	61 ·0
1. 51	3. 30	2. 39	·1036	4. 20	·01270	9. 40	61 ·0	62 ·0
2. 13	1. 20	5. 20	·1044	6. 2	·01000	21. 40	55 ·2	57 ·0
3. 18	0. 0	6. 0	·1030	7. 4	·00870			
3. 57	22. 1. 30	6. 45	·1047	8. 25	{·00760			
5. 6	21. 59. 45	7. 45	·1051		{·00800			
5. 37	22. 0. 0	8. 25	·1045	10. 0	·00780			
6. 6	21. 53. 15	8. 53	·1052	12. 9	·00840			
6. 51	57. 30	9. 20:	·1046	12. 45	·00840			
7. 36	55. 45	10. 0	·1054	13. 39	·00860			
8. 17	56. 45	13. 7	·1062	17. 15	·01020			
8. 42	54. 30	14. 20	·1056	19. 24	·01180			
8. 53	57. 0	16. 45	·1054	22. 31	·01510			
10. 27	53. 30	19. 30	·1061	22. 37	·01500			
11. 35	56. 0	22. 30	·1050	23. 32	{·01490			
11. 52	21. 55. 30	23. 59	·1050		{·01450			
12. 35	22. 0. 30			23. 59	·01480			
13. 3	21. 57. 40							
13. 42	58. 25							
14. 7	56. 35							
15. 53	58. 0							
16. 21	56. 30							
17. 55	58. 0							
19. 16	57. 0							
21. 35	59. 0							
22. 17	56. 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.
Nov. 2	° ′ ″	h m		h m		h m	°	°
h m								
23. 14	22. 1. 0							
23. 35	21. 59. 45							
23. 46	22. 0. 30							
23. 59	0. 30							
Nov. 3		Nov. 3		Nov. 3		Nov. 3		
0. 12	22. 1. 30	0. 5	·1048	0. 30	·01500	1. 40	56 ·0	57 ·5
0. 25	1. 0	0. 51	·1050	1. 40	·01550	3. 40	57 ·0	58 ·5
0. 53	2. 30	3. 4	·1043	2. 54	·01530	9. 40	55 ·0	57 ·0
1. 5	1. 30	4. 45	·1050	4. 21	·01410	21. 40	48 ·0	50 ·0
1. 37	22. 1. 30	6. 30	·1045	7. 15	·01320			
2. 58	21. 58. 35	8. 0	·1058	8. 26	·01360			
5. 7	54. 40	18. 55	·1079	10. 17	{·01510			
5. 55	55. 0	21. 0	·1076		{·01470			
6. 31	56. 35	23. 55	·1056	12. 15	·01470			
10. 49	57. 0			13. 27	·01460			
14. 22	58. 50			18. 54	·01430			
18. 35	57. 50			23. 59	·01440			
19. 43	59. 0							
21. 51	21. 57. 30							
23. 42	22. 1. 10							
Nov. 4		Nov. 4		Nov. 4		Nov. 4		
0. 7	22. 0. 35	0. 36	·1054	1. 0	·01420	1. 40	49 ·5	51 ·5
0. 55	1. 0	1. 0	·1060	2. 5	·01380	3. 40	51 ·0	53 ·5
5. 10	22. 0. 0	3. 15	·1051	3. 0	·01280	9. 40	54 ·0	54 ·0
7. 48	21. 57. 15	6. 50	·1065	3. 45	·01170	22. 23	55 ·2	56 ·0
8. 25	49. 10	8. 6:	·1054	4. 54	·00940			
9. 0	54. 10	8. 45:	·1069	7. 15	·00580			
9. 50	55. 45	9. 8	·1064	7. 18	·00590			
10. 53	54. 35	14. 5	·1063	8. 59	·00600			
14. 6	21. 57. 30	14. 18	·1071	10. 50	·00580			
14. 22	22. 1. 35	17. 14	·1066	13. 15	·00580			
14. 47	21. 58. 35	17. 45	·1070	14. 12	·00580			
15. 22	59. 20	20. 30	·1060	14. 21	·00590			
16. 37	57. 10	23. 59	·1054	14. 43	·00570			
16. 58	58. 30			19. 40	·00570			
18. 7	56. 35			23. 59	·00580			
18. 40	57. 30							
21. 43	21. 57. 0							
23. 59	22. 2. 0							
Nov. 5		Nov. 5		Nov. 5		Nov. 5		
0. 1	22. 2. 0	0. 0	·1054	0. 0	·00590	10. 58	55 ·0	56 ·5
1. 52	22. 3. 0	1. 51	·1056	3. 15	·00670	21. 40	50 ·0	52 ·5
5. 55	21. 57. 50	5. 45	·1054	7. 21	·00650			
6. 36	57. 0	7. 35	·1062	9. 5	·00670			
7. 43	58. 40	9. 23	·1060	10. 45	·00730			
8. 12	57. 30	13. 55	·1070	11. 53	·00800			
9. 3	58. 30	14. 51	·1062	14. 14	·00980			
16. 46	21. 57. 45	18. 30	·1076	19. 8	{·01510			
19. 58	22. 0. 30	22. 45	·1063		{·01460			
22. 12	0. 0	23. 6	·1056	23. 5	·01450			
22. 43	1. 25	23. 59	·1057	23. 59	·01480			
23. 1	0. 10							
23. 43	3. 35							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov. 6	° ′ ″	h m		h m		h m	°	°
h m								
0. 0	22. 3. 40	0. 0	·1057	1. 0	·01490	1. 40	52 ·5	53 ·5
5. 5	21. 59. 15	2. 0	·1052	2. 26:	·01360	3. 40	53 ·5	55 ·0
6. 30	57. 30	3. 25	·1046	3. 24	·01170	9. 40	54 ·0	55 ·0
7. 45	58. 0	7. 40	·1056	4. 57	·00820	21. 40	46 ·0	48 ·0
8. 8	57. 30	8. 53	·1051	6. 27	·00610			
8. 40	55. 15	10. 45	·1058	6. 28	·00660			
9. 23	56. 30	11. 15	·1066	9. 36	·00610			
10. 20	56. 30	11. 35	·1062	11. 37	·00690			
10. 55	57. 30	13. 10	·1066	13. 15	·00850			
12. 16	54. 20	14. 8	·1060	17. 4	·01410			
13. 5	57. 40	14. 50	·1070	17. 7	·01380			
13. 26	56. 40	19. 39	·1081	19. 6	·01380			
14. 17	58. 0	20. 40	·1070	21. 15	·01410			
15. 10	57. 0	21. 30	·1072	23. 59	·01420			
16. 43	59. 10	23. 59	·1059					
18. 17	57. 30							
21. 3	59. 20							
22. 5	21. 58. 0							
22. 53	22. 0. 0							
23. 59	1. 25							
Nov. 7		Nov. 7		Nov. 7		Nov. 7		
0. 37	22. 2. 30	0. 0	·1058	1. 0	·01310	1. 40	48 ·0	52 ·0
2. 30	22. 2. 20	0. 26	·1056	1. 41	·01250	3. 40	51 ·0	53 ·0
5. 2	21. 58. 35	0. 40	·1058	2. 50	·01080	10. 10	52 ·0	56 ·0
11. 4	57. 0	7. 45	·1062	5. 9	·00600	21. 40	49 ·0	52 ·0
11. 15	58. 0		***	5. 15	·00620			
11. 39	56. 45	14. 25	·1059	6. 15	·00640			
12. 5	57. 35	16. 34	·1074	11. 45	·00560			
12. 29	56. 10	17. 24	·1069	12. 44	·00560			
12. 57	57. 35	19. 10	·1078	16. 49	·00600			
13. 13	56. 30	22. 23	·1046	19. 10	·00720			
13. 25	58. 30	23. 36	·1040	21. 16	·00900			
13. 48	57. 30		(†)	23. 27	·01080			
14. 5	59. 30			23. 59	·01120			
14. 43	21. 58. 0							
15. 4	22. 1. 0							
15. 37	21. 59. 0							
16. 8	22. 1. 0							
16. 42	21. 59. 0							
17. 35	59. 30							
18. 7	21. 58. 0							
18. 47	22. 0. 0							
19. 8	21. 59. 0							
20. 52	21. 58. 30							
22. 1	22. 2. 0							
22. 35	0. 30							
23. 37	3. 30							
Nov. 8		Nov. 8		Nov. 8		Nov. 8		
0. 45	22. 5. 10	0. 39	·1040	0. 45	·01120	1. 40	51 ·0	53 ·0
1. 4	4. 30	1. 13	·1040	2. 11	·01100	3. 40	53 ·0	54 ·0
1. 19	5. 40	1. 35	·1024	3. 0	·01020	9. 40	54 ·0	55 ·0
2. 0	5. 30	2. 10	·1040	5. 17	{·00660	21. 40	47 ·0	51 ·0
2. 25	9. 30	2. 40*	·1030		{·00730			
3. 10:	3. 10	4. 0	·1046	11. 6	·00640			
4. 28	4. 40		***	12. 29	·00620			
4. 49	3. 0	6. 0	·1041	13. 2	·00610			

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. 8		Nov. 8		Nov. 8		h m	°	°
h m	° ′ ″	h m		h m				
5. 26	22. 4. 25	6. 44	·1046	14. 22	·00650			
6. 3	22. 1. 20	7. 15	·1038	14. 40	·00660			
8. 1	21. 57. 30	7. 51	·1049	14. 57	·00640			
9. 1	54. 0	8. 15	·1044	19. 54	·01220			
10. 2	56. 30		***	21. 16	·01430			
10. 53	54. 35	9. 56	·1054	21. 18	·01390			
11. 12	55. 0	11. 20	·1048	23. 15	·01380			
11. 30	52. 40	13. 6	·1060	23. 59	·01410			
12. 25	53. 10	14. 8	·1058					
13. 2	56. 30	14. 23	·1050					
13. 52	55. 35	14. 53	·1077					
14. 12	21. 54. 45	15. 17	·1066					
14. 25	22. 2. 0	16. 0	·1066					
14. 35	22. 2. 30	17. 45	·1073					
15. 14	21. 49. 45	18. 31	·1062					
16. 14	58. 45	19. 15	·1078					
16. 26	57. 45	20. 0	·1068					
17. 52	21. 59. 20	20. 30:	·1074					
18. 47	22. 5. 50	23. 36	·1052					
20. 16	21. 59. 0	23. 59	·1053					
21. 27	57. 30							
21. 40	55. 50							
22. 20	59. 15							
23. 59	59. 45							
Nov. 9		Nov. 9		Nov. 9		Nov. 9		
0. 5	22. 0. 0	0. 0	·1053	1. 30	·01430	1. 40	48 ·5	51 ·5
0. 51	0. 0	0. 50	·1053	2. 15	·01370	3. 40	51 ·0	52 ·0
1. 58	2. 0	1. 30	·1054	4. 32	·01060	9. 40	49 ·0	50 ·0
2. 15	0. 30	2. 15	·1050	7. 40:	·00840	21. 40	40 ·0	44 ·0
4. 6	22. 1. 25	3. 30	·1055	10. 31	·00980			
4. 43	21. 58. 0	4. 15	·1044	12. 30	·01210			
5. 15	22. 0. 50	5. 6	·1056	13. 54	·01380			
11. 13	21. 57. 0		***		·01340			
11. 25	55. 45	11. 30	·1072	16. 8	·01340			
12. 15	57. 30	19. 50	·1084	21. 28	·01460			
12. 58	21. 58. 20	21. 33	·1082	23. 59	·01480			
16. 43	22. 0. 30		(†)					
21. 56	21. 59. 0							
Nov. 10		Nov. 10		Nov. 10		Nov. 10		
0. 15	22. 0. 15	0. 45	·1068	1. 15	·01520	1. 40	42 ·5	45 ·0
5. 31	21. 57. 30	5. 25	·1068	1. 49	·01460	3. 40	45 ·0	48 ·0
9. 47	57. 15	8. 30	·1063	3. 5	·01270	9. 45	50 ·0	52 ·0
11. 5	56. 0	10. 40	·1068	4. 45	·00900	21. 40	51 ·0	53 ·0
16. 24	58. 0	18. 0	·1068	5. 40	·00710			
22. 17	21. 58. 0	22. 8	·1066	5. 45	·00730			
23. 59	22. 0. 30	23. 59	·1058	8. 26	·00730			
				11. 52	·00700			
				15. 21	·00720			
				19. 56	·00730			
				21. 56	·00720			
				23. 59	·00690			
Nov. 11		Nov. 11		Nov. 11		Nov. 11		
0. 7	22. 0. 30	0. 0	·1057	1. 0	·00970	1. 40	53 ·5	55 ·0
1. 32	22. 0. 25	1. 30	·1054	3. 21	·01140	3. 40	57 ·0	58 ·5
4. 23	21. 57. 25	5. 45	·1056	9. 41	·01650	9. 40	55 ·0	55 ·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.
Nov. 11		Nov. 11		Nov. 11		Nov. 11	°	°
h m	° ′ ″	h m		h m		h m		
5. 45	21. 56. 30	17. 45	·1074	9. 55	·01640	22. 30	49 ·0	50 ·0
16. 58	59. 10	20. 30	·1074	11. 0	·01630			
20. 8	58. 10	23. 59	·1062	13. 15	·00770			
22. 7	57. 0			14. 56	·00830			
23. 59	58. 50			15. 22	·00830			
					·00950			
				16. 30	·00860			
				17. 36	·00870			
				19. 34	·00810			
				21. 26	·00830			
				23. 59	·00910			
Nov. 12		Nov. 12		Nov. 12		Nov. 12		
0. 7	21. 59. 0	0. 0	·1062	0. 0	·01630	10. 57	46 ·0	46 ·8
1. 44	22. 0. 15	12. 0	·1076	3. 16	·01650	21. 40	44 ·5	47 ·0
4. 7	21. 58. 0	15. 0	·1078	7. 3	·01500			
11. 13	57. 45	19. 16	·1086	10. 45	·01550			
13. 16	56. 45	22. 34	·1064	12. 30	·01580			
16. 11	59. 20	23. 59	·1064	12. 47	·01650			
21. 58	57. 30				·01590			
22. 55	21. 59. 30			18. 31	·01550			
23. 59	22. 0. 0			22. 45	·01550			
				23. 59	·01550			
Nov. 13		Nov. 13		Nov. 13		Nov. 13		
0. 8	22. 0. 30	0. 0	·1063	1. 0	·01570	1. 40	46 ·0	47 ·0
1. 26	22. 2. 30	1. 0	·1059	2. 43:	·01480	3. 40	50 ·0	51 ·0
5. 50	21. 56. 30	3. 14	·1056	4. 5	·01250	9. 40	50 ·0	51 ·0
6. 17	54. 50	12. 0	·1072	6. 21	·00800	21. 40	47 ·0	49 ·0
6. 53	57. 0	19. 45	·1082	7. 29	·00670			
16. 52	59. 25	23. 59	·1054	7. 32	·00690			
18. 23	57. 50			11. 55	·00670			
20. 15	57. 30			13. 0	·00680			
22. 1	21. 56. 30			14. 10	·00700			
23. 59	22. 0. 15			19. 15	·00820			
				23. 13	·00910			
				23. 59	·00930			
Nov. 14		Nov. 14		Nov. 14		Nov. 14		
0. 30	22. 1. 30	0. 0	·1054	1. 15	·00890	1. 40	48 ·0	50 ·0
1. 15	22. 0. 30	3. 40	·1060	2. 0	·00850	3. 40	50 ·0	51 ·5
3. 48	21. 57. 40	5. 23	·1056	4. 9	·00680	9. 40	48 ·5	50 ·0
6. 32	57. 25	8. 6	·1059		·00810	21. 40	46 ·0	47 ·5
7. 0	53. 30	9. 33	·1070	6. 35	·00730			
7. 53	57. 0	18. 45	·1082	8. 9	·00720			
10. 24	57. 10	22. 10	·1076	10. 6	·00750			
15. 53	59. 45	23. 8	·1064	12. 42	·00910			
18. 50	58. 25	23. 59	·1059	13. 15	·00930			
20. 55	21. 57. 0			16. 0	·01170			
23. 59	22. 0. 0			17. 49	·01340			
				21. 11:	·01550			
				23. 51	·01440			
				23. 59	·01430			
Nov. 15		Nov. 15		Nov. 15		Nov. 15		
0. 8	22. 0. 30	0. 0	·1059	0. 45	·01350	1. 40	49 ·0	51 ·0
1. 32	2. 0	0. 45	·1058	2. 26	·01110	3. 40	53 ·0	54 ·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.
Nov.15		Nov.15		Nov.15		Nov.15		
h m	° ′ ″	h m		h m		h m	°	
1. 52	22. 0. 25	5. 0	·1059	3. 46	{·00810	9. 40	53·0	54·0
2. 35	22. 0. 30	5. 51	·1052		{·00830	21. 40	49·5	52·3
3. 30	21. 59. 25	9. 4	·1056	5. 17	·00840			
3. 51	59. 30		***	6. 46	·00820			
5. 2	58. 30	13. 25	·1060	10. 30	·00770			
5. 43	59. 0	16. 16	·1070	12. 15	·00880			
9. 32	56. 0	18. 0	·1066	12. 45	·00810			
10. 12	51. 0	18. 45	·1070	18. 9	·01120			
10. 56	52. 15	20. 23	·1062	19 50	·01160			
13. 5	58. 45	20. 55	·1070	23. 37	·01190			
15. 45	58. 15	22. 41	·1053	23. 59	·01180			
16. 47	21. 57. 20	23. 59	·1054					
18. 32	22. 0. 0							
19. 42	21. 56. 25							
20. 45	21. 59. 45							
21. 25	21. 59. 15							
23. 23	22. 2. 30							
23. 59	2. 0							
Nov.16		Nov.16		Nov.16		Nov.16		
0. 15	22. 1. 15	0. 0	·1054	1. 15	·01130	1. 40	52·0	54·0
0. 40	2. 10	3. 6	·1052	2. 4	·01060	3. 40	55·0	56·0
1. 12	0. 40	17. 0	·1076	3. 8	·00930	9. 40	55·5	57·5
1. 26	1. 40	17. 50	·1072	3. 40	{·00840	21. 40	48·7	52·3
1. 45	22. 0. 35	20. 0	·1074		{·00910			
5. 26	21. 57. 30	23. 25	·1058	7. 24	·00830			
11. 13	21. 58. 0	23. 59	·1060	10. 30	·00820			
14. 40	22. 0. 0			12. 44	·00920			
16. 42	22. 0. 0			13. 30	·00970			
17. 28	21. 58. 35			16. 24	·01310			
18. 18	59. 40			19. 13	·01640			
21. 56	21. 57. 35			19. 18	·01610			
23. 59	22. 1. 20			20. 45	·01600			
				23. 13	·01630			
				23. 59	·01640			
Nov.17		Nov.17		Nov.17		Nov.17		
0. 6	22. 1. 25	0. 0	·1060	0. 45	·01610	1. 40	50·0	52·0
1. 4	22. 1. 50	6. 0	·1068	2. 3	·01550	3. 40	51·5	53·5
4. 2	21. 59. 0	8. 7	·1058	5. 8	·01210	9. 40	52·0	53·5
7. 58	58. 15	9. 25	·1059	7. 9	·01070	21. 40	48·0	49·0
9. 53	57. 0	10. 20	·1070	9. 31	·01030			
10. 55	53. 30	11. 15	·1066	12. 15	·01090			
11. 27	56. 0	19. 0	·1078	12. 45	·01090			
12. 32	57. 35	23. 15	·1066	13. 47	·01150			
17. 8	59. 30	23. 59	·1066	16. 53	·01320			
19. 35	58. 30			20. 21	·01540			
20. 6	56. 30			23. 26	·01560			
21. 0	56. 30							
22. 0	21. 57. 0							
23. 28	22. 0. 0							
Nov.18		Nov.18		Nov.18		Nov.18		
0. 0	22. 0. 0	0. 0	·1066	0. 0	·01560	1. 40	49·0	50·0
1. 5	21. 59. 15	5. 6	·1064	2. 21:	·01570	3. 40	51·0	52·0
2. 16	22. 0. 30	9. 20	·1076	4. 22	·01440	9. 40	49·5	51·3
3. 55	21. 59. 0	20. 25	·1080	6. 32	·01290	23. 26	48·0	48·5
4. 53	22. 0. 0	23. 59	·1074	8. 0	·01260			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.18				Nov.18		Nov.19		
h m	° ′ ″	h m		h m		h m	°	
9. 10	21. 57. 0			9. 19	·01260			
11. 18	57. 5			10. 45	·01290			
	***			12. 30	·01300			
13. 19	56. 30			14. 31	·01420			
15. 9	59. 30			16. 9	·01490			
17. 30	59. 30			17. 42	{·01560			
21. 10	21. 57. 0				{·01510			
23. 59	22. 0. 0			20. 50	·01540			
				23. 6	·01530			
Nov.19		Nov.19		Nov.19		Nov.19		
0. 15	22. 0. 30	0. 0	·1074	0. 10	·01540	8. 40	48·0	50·0
1. 14	22. 2. 0	6. 10	·1080	2. 9	·01560	21. 40	44·0	46·5
4. 0	21. 59. 0	7. 55	·1077	2. 45	·01550			
5. 10	58. 0	20. 30	·1088	5. 50	·01440			
8. 5	59. 0	23. 13	·1074	8. 17	·01360			
9. 0	21. 57. 30	23. 30	·1074	10. 21	·01360			
15. 15	22. 0. 0	23. 59	·1070	12. 7	·01360			
16. 55	22. 0. 55			13. 0	·01330			
21. 0	21. 57. 15			14. 45	·01430			
21. 20:	58. 0			16. 55	{·01520			
21. 46	57. 0				{·01470			
22. 50	21. 58. 5			19. 28	·01490			
	***			22. 40	·01500			
23. 55	22. 1. 0			22. 55	·01460			
				23. 59	·01470			
Nov.20		Nov.20		Nov.20		Nov.20		
0. 5	22. 2. 0	0. 0	·1070	1. 15	·01450	1. 40	47·0	49·0
1. 15	22. 2. 0		***	2. 12	·01380	3. 40	50·0	51·0
3. 20	21. 59. 0	2. 0	·1062	2. 45	·01310	9. 40	58·0	59·0
3. 55	22. 0. 0	5. 45	·1074	3. 21	·01320	21. 40	46·0	46·5
4. 50	21. 57. 55		***	4. 4	·01090			
5. 25	22. 2. 55	7. 29	·1064	6. 25	·00740			
5. 45	0. 30		***	7. 43	·00650			
5. 55	1. 0	8. 23	·1076	9. 3	·00620			
6. 1	0. 0		***	12. 5	·00640			
6. 14	22. 1. 0	12. 45	·1074	13. 15	·00660			
6. 50	21. 58. 0	16. 14	·1082	15. 9	·00730			
7. 16	59. 0	17. 30	·1074	18. 8	·00850			
7. 30	56. 0		***	21. 24	·01010			
7. 52	54. 30	18. 36	·1083	22. 45	·01060			
8. 32	58. 0		***	23. 50	·01090			
9. 0	59. 0	22. 15	·1076					
9. 21	57. 50	23. 5	·1068					
10. 27	57. 10	23. 59	·1070					
	***							
11. 16	58. 5							
12. 43	57. 30							
14. 10	59. 5							
15. 20	58. 45							
17. 15	58. 30							
18. 40	59. 35							
	***							
19. 23	57. 0							
	***							
20. 0	58. 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.	Readings of Thermometers. Of V. F. Magnet.
Nov.20								
h m	° ′ ″	h m		h m		h m	°	°
21. 0	21. 57. 15							
	***							
21. 30	58. 45							
21. 42	56. 0							
21. 53	58. 55							
	***							
22. 55	21. 58. 10							
23. 30	22. 0. 30							
Nov.21		Nov.21		Nov.21		Nov.21		
0. 0	22. 1. 55	0. 0	·1070	0. 0	·01130	1. 40	47 ·5	47 ·5
0. 10	0. 50		***	1. 24	·01150	3. 40	48 ·5	49 ·0
0. 50	1. 5	2. 0	·1062	2. 15	·01140	9. 40	49 ·0	50 ·0
1. 6	3. 0		***	3. 53	·01030	21. 40	45 ·5	48 ·0
1. 10	1. 50	4. 36	·1056	6. 5	·00910			
1. 18	3. 55		***	8. 3	·00840			
1. 33	1. 50	6. 30	·1072	11. 45	·00680			
1. 40	2. 30		***	12. 0	·00670			
1. 53	1. 30	13. 55	·1072	13. 21	·00640			
2. 10	22. 2. 0		***	14. 28	·00610			
	***	16. 15	·1082	15. 36	·00600			
3. 46	21. 57. 15		***	16. 22	·00600			
4. 25	58. 0	17. 48	·1076	19. 36	·00700			
4. 45	56. 5		***	23. 24	·00930			
6. 5	58. 0	21. 15	·1084					
6. 55	57. 30	22. 15	·1067					
	***	23. 59	·1068					
7. 37	55. 55							
	***							
8. 25	57. 20							
9. 6	56. 30							
10. 0	57. 15							
10. 40	56. 30							
11. 44	58. 0							
11. 55	57. 0							
12. 55	58. 0							
13. 27	56. 30							
13. 44	58. 0							
14. 4	57. 0							
14. 40	21. 57. 55							
15. 21	22. 1. 15							
	***							
16. 25	21. 57. 0							
16. 45	58. 15							
17. 35	57. 10							
17. 50	59. 30							
18. 0	58. 0							
19. 25	21. 59. 5							
19. 40	22. 3. 0							
	***							
21. 0	21. 58. 5							
21. 10	22. 1. 0							
21. 35	22. 1. 15							
	***							
22. 18	21. 58. 10							
22. 35	22. 0. 30							
22. 54	21. 58. 30							
23. 30	22. 0. 55							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Readings of Thermometers. Of V. F. Magnet.
Nov.22		Nov.22		Nov.22		Nov.22		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	22. 0. 0	0. 0	·1068	0. 0	·00960	1. 40	47 ·0	48 ·0
0. 24	22. 2. 55	7. 16	·1066	1. 0	·01000	3. 40	49 ·0	50 ·0
0. 50	21. 59. 55	7. 32	·1058	1. 21	·00990	9. 40	48 ·0	49 ·0
5. 0	21. 58. 0	8. 0	·1058	2. 33	·00990	21. 40	42 ·0	44 ·0
7. 46	22. 1. 30	8. 23	·1072	4. 55	{·00610			
8. 10	21. 57. 5	9. 15	·1060		{·00720			
8. 25	57. 5	9. 37	·1096	6. 47	·00670			
8. 42	55. 0	10. 16	·1060	9. 44	·00680			
8. 58	58. 0	10. 35	·1067	10. 17	·00670			
9. 15	56. 55	13. 27	·1064	10. 23	·00660			
9. 30	51. 30	13. 55	·1094	10. 30	·00680			
9. 45	21. 59. 0	14. 40	·1066	12. 30	·00810			
10. 5	22. 0. 55	16. 5	·1078	14. 6	·00950			
10. 25	21. 52. 0	18. 45	·1082	14. 30	·00980			
12. 0	21. 57. 50	23. 30	·1068	14. 55	·01040			
12. 53	22. 1. 15	23. 59	·1068	18. 42	·01400			
13. 25	21. 57. 5			18. 50	·01410			
13. 44	54. 30			21. 20	·01400			
14. 7	58. 30			23. 30	·01400			
14. 25	58. 15							
14. 45	55. 55							
15. 15	21. 58. 30							
	***							
17. 55	22. 0. 0							
20. 0	21. 59. 5							
22. 15	57. 15							
	***							
23. 59	59. 55							
Nov.23		Nov.23		Nov.23		Nov.23		
0. 0	22. 0. 0	0. 0	·1068	0. 0	·01400	1. 40	45 ·0	46 ·0
	***	4. 20	·1058	0. 43	·01410	3. 40	48 ·0	48 ·8
0. 44	0. 0	5. 8	·1066	0. 56	·01400	9. 40	47 ·7	47 ·7
1. 0	1. 30		***	3. 26	·01140	21. 40	41 ·0	41 ·5
	***	9. 30	·1070	6. 45	·00700			
1. 30	0. 0	10. 0	·1080	7. 50	·00630			
1. 45	22. 0. 30	10. 45	·1067	9. 28	·00590			
2. 23	21. 58. 55	11. 57	·1078	9. 59	·00600			
	***	19. 30	·1084	11. 33	·00640			
3. 47	58. 30	23. 40	·1068	12. 15	·00670			
6. 8	56. 40			13. 13	·00750			
7. 37	55. 30			18. 15	·01180			
8. 5	57. 20			22. 5	{·01410			
8. 28	52. 50				{·01380			
8. 45	52. 40			23. 11	{·01380			
9. 11	55. 45				{·01350			
	***			23. 39	·01350			
10. 25	55. 0							
10. 55	56. 50							
11. 34	21. 56. 30							
	***							
15. 53	22. 0. 5							
	***							
17. 30	21. 58. 0							
	***							
19. 50	59. 0							
21. 46	57. 45							
	***							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.23								
h m	° ′ ″	h m		h m		h m	°	°
23. 59	22. 1. 0							
Nov.24		Nov.24		Nov.24		Nov.24		
0. 37	22. 2. 0	0. 40	·1062	0. 0	·01350	1. 40	43 ·0	45 ·0
2. 42	22. 1. 0	1. 30	·1058	0. 59	·01360	3. 40	47 ·0	48 ·0
2. 56	21. 58. 5	2. 31	·1064	2. 15	·01280	9. 40	47 ·0	48 ·0
3. 8	58. 20	3. 10	·1054	2. 36	·01240	21. 40	42 ·5	43 ·5
3. 27	56. 25	4. 0	·1070	4. 54	{·00870			
4. 18	59. 5	6. 29	·1074		{·00760			
6. 7	21. 58. 10		***	7. 45	·00680			
7. 0	22. 0. 0	7. 25	·1050	9. 29	·00620			
7. 39	21. 53. 0	7. 55	·1066	11. 41	·00650			
8. 3	58. 30	8. 5	·1062	12. 30	·00700			
11. 5	55. 40	9. 0	·1068	13. 50	·00790			
11. 25	57. 30	10. 45	·1068	18. 0	·01180			
12. 7	55. 0	11. 15	·1086	18. 54	·01230			
	***	12. 9	·1066	21. 38	·01360			
13. 44	57. 45	15. 25	·1076	23. 17	·01400			
14. 35	56. 55	20. 10	·1080	23. 50	·01400			
16. 15	59. 0	23. 59	·1072					
18. 50	59. 30							
19. 0	58. 5							
20. 7	57. 30							
23. 0	57. 55							
23. 50	58. 45							
Nov.25		Nov.25		Nov.25		Nov.25		
0. 6	22. 0. 20	0. 0	·1072	0. 0	·01370	1. 40	43 ·5	45 ·5
3. 0	21. 58. 55	3. 30	·1068	1. 52	·01330	3. 40	46 ·0	47 ·3
8. 0	58. 0	15. 20	·1078	2. 33	·01260	9. 40	46 ·0	47 ·0
14. 0	59. 55	15. 39	·1084	3. 57	·01110	22. 32	42 ·0	43 ·0
21. 50	59. 55	16. 15	·1081	4. 32	·01020			
22. 20	21. 58. 0	23. 59	·1076	6. 33:	·00720			
22. 55	22. 2. 0			8. 19	·00650			
23. 37	1. 15			9. 20	·00640			
				11. 51	·00660			
				12. 45	·00690			
				14. 37	·00750			
				16. 4	·00800			
				17. 53	·00900			
				23. 0	·01300			
Nov.26		Nov.26		Nov.26		Nov.26		
0. 0	22. 0. 5	0. 0	·1076	0. 0	·01380	9. 30	43 ·5	45 ·3
6. 0	21. 58. 25	7. 35	·1076	1. 2	·01420	21. 40	40 ·5	43 ·0
	***	10. 15	·1081	1. 54	·01420			
8. 25	58. 0	11. 15	·1077	2. 58	·01410			
10. 9	59. 0	17. 0	·1084	6. 6	·01270			
13. 35	21. 59. 30	22. 12	·1077	9. 4	·01150			
16. 45	22. 1. 30		(†)	10. 42	·01140			
17. 45	22. 0. 0			11. 30	·01140			
22. 0	21. 59. 0			14. 9	·01180			
				15. 14	·01220			
				19. 54	{·01410			
					{·01330			
				22. 25	{·01340			
					{·01200			
				23. 59	·01270			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.27		Nov.27		Nov.27		Nov.27		
h m	° ′ ″	h m		h m		h m	°	°
0. 20	22. 1. 0	0. 15	·1068	1. 2	{·01300	1. 40	45 ·0	45 ·0
4. 0	21. 58. 25	2. 17	·1072		{·01200	3. 40	45 ·0	45 ·0
7. 5	21. 59. 5	3. 21	·1065	2. 38	·01150	9. 40	41 ·0	45 ·0
	***	7. 30	·1076	6. 45	·00820	21. 40	42 ·0	44 ·5
8. 8	22. 1. 30	8. 0	·1070	8. 19	·00790			
	***	8. 37	·1078	12. 8	·00840			
9. 23	21. 56. 55	9. 10	·1068	13. 29	·00870			
	***	10. 15	·1076	18. 5	·01030			
10. 45	57. 15	11. 10	·1074	20. 25	·01000			
11. 21	58. 30	12. 0	·1087	21. 37	·00910			
11. 34	58. 0	14. 22	·1080	23. 59	·00810			
11. 50	58. 40	15. 15	·1081					
12. 10	57. 30	15. 45	·1092					
12. 30	59. 0	17. 55	·1088					
13. 5	21. 58. 30	18. 30	·1094					
13. 34	22. 0. 0	20. 30	·1083					
15. 6	21. 57. 50	23. 0	·1071					
15. 39	22. 2. 45	23. 45:	·1078					
16. 12	21. 56. 35	23. 59	·1077					
16. 44	54. 30							
	***							
17. 44	21. 59. 0							
	***							
22. 11	22. 1. 0							
23. 5	21. 0. 0							
23. 16	22. 0. 30							
23. 55	22. 4							
Nov.28		Nov.28		Nov.28		Nov.28		
0. 7	22. 3. 30	0. 0	·1077	0. 15	·00780	1. 40	45 ·0	46 ·0
	***	1. 0	·1059	0. 54	·00720	3. 40	47 ·5	48 ·0
0. 50:	3. 0		***	1. 47	·00680	9. 40	48 ·0	49 ·5
	***	1. 47	·1058	2. 34	·00700	21. 40	48 ·0	50 ·5
1. 25	6. 0	2. 16	·1044	5. 42	·00790			
1. 34	4. 20	2. 52	·1054	6. 8	·00780			
1. 47	22. 6. 5		***	6. 39	·00790			
2. 23	21. 59. 30	3. 30	·1042	8. 11	·00720			
2. 44	22. 0. 25	4. 7	·1052	11. 10	·00690			
3. 0	4. 45	4. 15	·1044	11. 30	·00700			
3. 23	6. 35	4. 35	·1052	11. 43	·00680			
3. 40	4. 0	5. 0	·1042	12. 6	·00660			
3. 50	6. 0	5. 13	·1046	12. 36	·00710			
4. 6	4. 40	5. 37	·1048	12. 58	·00700			
4. 11	6. 0	5. 49	·1056	17. 36	{·00730			
4. 23	3. 45	6. 23	·1036		{·00820			
4. 34	4. 20	6. 45	·1064	19. 31	·00780			
4. 47	7. 0	7. 21	·1052	23. 37	·00770			
5. 12	2. 30	8. 17	·1065					
5. 17	22. 2. 50	8. 45	·1060					
5. 38	21. 59. 0	10. 25	·1063					
5. 49	22. 1. 0	11. 2	·1086					
6. 45	21. 59. 5	11. 19	·1067					
	***	11. 32	·1096					
9. 55	56. 20	12. 35	·1042					
10. 34	56. 5	13. 15	·1062					
10. 44	53. 30	14. 0	·1056					
11. 0	48. 50	18. 30	·1078					

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.28		Nov.28						
h m	° ′ ″	h m		h m		h m	°	°
11. 24	21. 55. 0	21. 35	·1066					
11. 29	54. 0	21. 50	·1058					
11. 45	54. 30	23. 59	·1056					
12. 20	45. 0							
12. 46	58. 55							
13. 13	52. 35							
13. 31	52. 25							
14. 0	54. 5							
14. 15	54. 0							
14. 46	56. 20							
15. 4	56. 0							
16. 14	58. 10							
16. 53	21. 57. 50							
17. 30	22. 1. 30							
18. 0	22. 1. 0							
18. 28	21. 46. 0							
19. 12	57. 20							
19. 38	21. 56. 5							
21. 40	22. 2. 0							
23. 39	1. 55							
Nov.29		Nov.29		Nov.29		Nov.29		
0. 0	22. 1. 50	0. 0	·1056	0. 0	·00770	1. 40	51 ·0	51 ·0
0. 36	1. 30	3. 0	·1046	2. 17	·00850	3. 40	55 ·0	56 ·0
0. 50	22. 2. 10	6. 30	·1054	5. 39	·00850	9. 40	51 ·0	52 ·5
	***	6. 44	·1058	8. 13	·00810	21. 40	45 ·0	46 ·5
2. 17	21. 59. 0	7. 0	·1055	11. 14	·00950			
5. 53	56. 30	18. 15	·1076	11. 45	·00980			
6. 0	55. 0	21. 0	·1076	14. 13	·01150			
6. 19	55. 30	23. 59	·1068	19. 17	·01530			
6. 38	53. 35			19. 32	·01520			
7. 35	57. 15			23. 15	·01490			
8. 0	56. 5			23. 59	·01510			
8. 15	56. 40							
8. 30	56. 0							
9. 15	56. 55							
9. 25	55. 15							
10. 6	57. 15							
15. 20	59. 30							
20. 36	58. 0							
22. 12	21. 58. 20							
23. 59	22. 0. 25							
Nov.30		Nov.30		Nov.30		Nov.30		
0. 0	22. 0. 20	0. 0	·1068	0. 15	·01490	1. 40	47 ·0	48 ·5
3. 30	21. 56. 20	3. 34	·1069	2. 4:	·01440	3. 40	49 ·0	50 ·0
	***	4. 0	·1063	3. 36	·01200	9. 40	50 ·0	50 ·5
4. 50	55. 50	4. 34	·1069	5. 35	·00830	21. 40	49 ·0	51 ·0
5. 19	59. 15	4. 54	·1064	5. 54	·00790			
6. 8	58. 0	5. 9	·1068	6. 0	·00810			
6. 24	56. 0		***	8. 9	·00800			
6. 46	59. 45	6. 51	·1054		·00930			
7. 10	56. 20	7. 7	·1045	10. 44	·00860			
7. 34	57. 15	7. 39	·1060	12. 6	·00830			
7. 53	53. 30	7. 55	·1052	12. 45	·00800			
8. 8	54. 0		***	12. 57	·00770			
8. 30	52. 0	9. 8	·1059		·00790			
8. 48:	52. 55	9. 30	·1066	19. 15	·00780			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Nov.30		Nov.30		Nov.30				
h m	° ′ ″	h m		h m		h m	°	°
9. 9	21. 54. 0	10. 40	·1066	21. 45	·00800			
9. 20	55. 55	11. 3	·1062	23. 32	·00870			
10. 7	51. 30	11. 30	·1073					
10. 34	52. 20	12. 22	·1076					
10. 50	51. 20	12. 55	·1068					
11. 34	55. 15	16. 0	·1072					
	***	19. 8	·1084					
14. 0	58. 0	21. 0	·1080					
14. 55	56. 35	22. 30	·1081					
15. 25	58. 5	23. 59	·1074					
16. 1	57. 10							
16. 36	57. 30							
16. 45	59. 0							
	***							
17. 35	58. 0							
19. 0	57. 30							
	***							
20. 14	59. 5							
20. 35	57. 35							
21. 19	58. 30							
22. 2	57. 50							
23. 25	59. 55							
Dec. 1		Dec. 1		Dec. 1		Dec. 1		
0. 0	22. 0. 0	0. 0	·1073	0. 0	·00890	1. 40	49 ·0	51 ·0
0. 48	0. 40	2. 30	·1056	1. 21	·00910	3. 40	53 ·0	53 ·5
1. 10	2. 0	3. 18	·1038	2. 30	·00880	9. 40	50 ·0	51 ·5
1. 24	1. 0	5. 30	·1051	3. 11	·00830	21. 40	45 ·0	46 ·0
2. 32	0. 55		***		·00870			
3. 1	3. 0	5. 46	·1042	4. 17	·00860			
3. 15	6. 30	6. 4	·1023	4. 28	·00890			
3. 21	5. 0	6. 43	·1057		***			
3. 31	5. 30	6. 52	·1048	7. 0	·00850			
3. 45	5. 0	7. 15	·1060	8. 1	·00880			
4. 3	7. 0	7. 51	·1037	10. 15	·00900			
4. 14	6. 45	8. 50	·1051	10. 38	·00880			
4. 30	22. 8. 55	9. 15	·1078	11. 3	·00900			
5. 5	21. 55. 30	9. 35	·1076	11. 46	·00960			
5. 37	22. 0. 25	9. 45	·1099	12. 41	·01020			
6. 15	21. 48. 15	10. 0	·1093	13. 2	·01000			
6. 34	52. 20	10. 10	·1069	13. 20	·01030			
6. 45	49. 15	11. 15	·1040	14. 48	·01220			
6. 57	57. 5	12. 35	·1064	16. 57	·01460			
7. 4	49. 55	12. 52	·1094	17. 5	·01430			
7. 30	21. 54. 20	13. 15	·1071	23. 30	·01480			
7. 40	22. 0. 0	13. 25	·1075	23. 51	·01480			
7. 53	21. 59. 30	14. 21	·1066					
8. 8	56. 30	15. 8	·1078					
8. 20	58. 0	15. 40	·1076					
	***	16. 3	·1064					
9. 0	55. 30	17. 0:	·1089					
9. 16	50. 0	17. 46	·1076					
9. 38	49. 40	18. 22	·1086					
9. 54	45. 20	18. 46	·1083					
10. 20	55. 30	19. 23	·1060					
10. 36:	49. 0	20. 22	·1078					
10. 47	48. 30	20. 53	·1080					
11. 15	42. 0	23. 0	·1068					

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. 1		Dec. 1						
h m	° ′ ″	h m		h m		h m	°	°
11. 50	21. 54. 25	23. 59	·1054					
12. 0	21. 53. 20							
12. 50	22. 2. 0							
13. 23	21. 49. 25							
	***							
14. 23	57. 0							
14. 35	59. 55							
	***							
15. 37	21. 58. 0							
16. 5	22. 7. 0							
16. 13	6. 50							
16. 31	8. 55							
17. 9	2. 0							
18. 0:	9. 50							
19. 54	4. 45							
19. 10	5. 0							
19. 39	2. 5							
20. 5	22. 5. 40							
	***							
21. 22	21. 57. 0							
	***							
22. 30:	21. 58. 0							
23. 4	22. 2. 50							
23. 35	0. 30							
23. 45	1. 30							
23. 55	1. 5							
Dec. 2		Dec. 2		Dec. 2		Dec. 2		
0. 0	22. 1. 0	0. 0	·1054	0. 30	·01490	1. 40	47 ·0	48 ·0
	***	0. 35	·1042		***	3. 40	48 ·5	50 ·0
1. 7	22. 2. 30		***	1. 51	·01420	9. 40	49 ·0	50 ·0
	***	1. 40	·1044	2. 15	·01400	23. 16	47 ·0	48 ·0
1. 56	21. 56. 15		***		***			
2. 23	22. 1. 50	2. 9	·1058	4. 54	·01040			
2. 33	1. 0		***	6. 55	·00820			
2. 45	3. 15	2. 50	·1041	7. 35	·00800			
3. 0	22. 2. 5		***	7. 43	·00790			
3. 13	21. 55. 30	3. 25	·1059	8. 1	·00800			
3. 25	57. 55		***	8. 26	·00740			
3. 45	21. 56. 45	3. 36	·1052	8. 45	·00750			
4. 1	22. 2. 50		***	11. 30	·00810			
4. 18	22. 0. 0	4. 2	·1064	12. 15	·00800			
4. 35	21. 51. 30		***	13. 39	·00870			
4. 45	52. 0	4. 30	·1042	18. 47	·01040			
5. 10	41. 55	4. 46	·1066	20. 24	·01030			
6. 30	58. 0	5. 5	·1050	23. 15	·00940			
7. 0	51. 0	5. 32	·1062					
7. 15	53. 25		***					
7. 23	53. 15	6. 0	·1054					
7. 31	56. 0		***					
7. 51	43. 0	6. 40	·1062					
8. 20	58. 0		***					
8. 37	46. 15	7. 43	·1049					
	***	8. 6	·1113					
9. 36	52. 30	8. 30	·1064					
9. 53	51. 50	9. 0	·1082					
	***	9. 46	·1060					
10. 25	53. 0	10. 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.
Dec. 2		Dec. 2						
h m	° ′ ″	h m		h m		h m	°	°
10. 33	21. 57. 0	11. 25	·1066					
11. 10	53. 50	12. 1	·1070					
11. 35	57. 0	12. 30	·1064					
11. 55	55. 30	12. 50	·1080					
12. 6	58. 40	13. 5	·1074					
	***	14. 19	·1073					
12. 31	59. 0	17. 45	·1087					
	***	20. 30	·1064					
13. 20	51. 30	22. 20	·1070					
14. 30	21. 59. 25	23. 59	·1074					
16. 0	22. 1. 0							
16. 23	21. 59. 10							
17. 35	58. 15							
	***							
19. 55	59. 0							
	***							
22. 6	21. 57. 0							
	***							
23. 28	22. 0. 0							
Dec. 3		Dec. 3		Dec. 3		Dec. 3		
0. 0	22. 0. 30	0. 0	·1074	0. 0	·00890	9. 40	50 ·5	52 ·0
	***	1. 16	·1070	2. 14	·00760	21. 40	49 ·0	50 ·0
1. 8	22. 1. 30	3. 55	·1074	2. 32	·00780			
2. 33	21. 59. 0		***	4. 45	·00820			
4. 20	59. 0	4. 51	·1064	11. 16	·00790			
4. 51	55. 20	5. 23:	·1072	12. 9	·00800			
5. 32	58. 50	5. 46	·1066	14. 25	·00770			
6. 5	56. 0	6. 15:	·1074	17. 0	·00780			
6. 25	58. 0	8. 30	·1078	20. 36	·00820			
7. 4	56. 15	9. 30	·1072	23. 21	·00890			
7. 37	56. 45	9. 59	·1076	23. 59	·00890			
8. 24	55. 30		***					
9. 0	56. 0	12. 25	·1076					
10. 4	54. 15	12. 50	·1082					
10. 15	56. 0	14. 0	·1076					
	***	14. 41	·1083					
13. 7	56. 0	15. 33:	·1072					
13. 22	57. 15	16. 39	·1082					
13. 47	55. 10	20. 0	·1082					
14. 11	21. 58. 20	21. 30	·1076					
14. 24	22. 2. 55	23. 59	·1074					
15. 3	21. 58. 0							
	***							
15. 37	59. 30							
	***							
16. 50	59. 0							
17. 19:	57. 0							
17. 39	57. 50							
18. 50	57. 0							
20. 16	58. 0							
	***							
21. 33	21. 56. 35							
	***							
23. 24	22. 0. 0							
23. 34	1. 45							
23. 59	1. 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.
Dec. 4		Dec. 4		Dec. 4		Dec. 4		
h m	° ′ ″	h m		h m		h m	°	°
0. 13	22. 2. 0	0. 0	·1074	1. 0	·00850	1. 40	51 ·0	52 ·0
0. 31	22. 2. 0	2. 45	·1073	1. 51	{·00800	3. 40	53 ·0	54 ·0
1. 16	21. 58. 20	3. 55	·1062		{·00850	9. 40	53 ·0	53 ·3
1. 33	59. 40		***	3. 21	·00900	21. 40	48 ·0	50 ·5
	***	9. 7	·1078	3. 26	·01010			
2. 36	57. 30		***	4. 28	·00930			
3. 40	58. 0	9. 40	·1075	7. 23	·00880			
3. 49	59. 0	10. 0	·1082	10. 15	·00970			
4. 50	21. 57. 15	11. 36	·1076	10. 33	·00990			
5. 39	22. 0. 0	12. 20	·1076	10. 38	·01000			
5. 56	21. 58. 0	13. 12	·1084	10. 44	·00990			
6. 14	59. 0	13. 32	·1080	12. 39	·01131			
6. 51	56. 5	14. 0	·1092	13. 16	·01160			
8. 5	56. 30	14. 56:	·1084	16. 6	·01370			
8. 34	53. 55	17. 15	·1082	18. 9	·01460			
	***	20. 30	·1087	20. 38	·01490			
9. 7	55. 30		***	23. 0	·01480			
10. 35	55. 35	21. 37	·1083	23. 59	·01460			
	***		***					
11. 0	54. 25	21. 55	·1074					
12. 35	57. 10		***					
13. 3	55. 30	22. 30	·1074					
13. 17	56. 35		***					
13. 34	56. 0	22. 37	·1089					
14. 11	57. 45	22. 51	·1076					
14. 44	56. 0	23. 30	·1076					
15. 15	59. 15	23. 59	·1080					
15. 37	58. 0							
15. 46	59. 5							
16. 15:	57. 30							
16. 38	59. 5							
17. 0	57. 55							
21. 14	56. 30							
	***							
23. 45	57. 45							
23. 59	58. 30							
Dec. 5		Dec. 5		Dec. 5		Dec. 5		
0. 0	21. 58. 35	0. 0	·1081	0. 45	·01430	1. 40	50 ·5	51 ·0
5. 0	56. 50	1. 19	·1079	2. 28	·01330	3. 40	53 ·3	54 ·0
9. 10	56. 45	1. 55	·1066	3. 42	·01180	9. 40	51 ·0	51 ·2
9. 55	43. 35	3. 0	·1073	4. 15	·01110	21. 40	44 ·0	46 ·0
10. 10	49. 0	5. 27	·1073	5. 53	{·00900			
12. 8	53. 0	6. 0	·1066		{·00930			
12. 35	57. 30	7. 0	·1076	8. 15	·00840			
13. 7	21. 56. 0	8. 50	·1076	9. 16	·00860			
	***	9. 39	·1063	11. 35	·01060			
14. 40	22. 2. 0	10. 0	·1069	12. 30	·01130			
	***	10. 10	·1064	16. 11	·01560			
15. 31	21. 57. 5	11. 27	·1070	16. 17	·01540			
15. 54	58. 5	11. 45	·1068	21. 46	·01500			
	***	12. 0	·1074	22. 19	·01490			
16. 46	57. 0	15. 20	·1086	22. 59	·01510			
17. 37	59. 0	16. 0	·1082	23. 59	·01530			
18. 8	57. 45	18. 40	·1094					
21. 45	58. 0	22. 3	·1090					
22. 14	21. 56. 0	23. 0	·1083					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 5		Dec. 5				Dec. 6		
h m	° ′ ″	h m		h m		h m	°	°
23. 47	22. 1. 55	23. 59	·1082					
Dec. 6		Dec. 6		Dec. 6		Dec. 6		
0. 2	22. 1. 0	0. 0	·1082	1. 15	·01520	1. 40	46 ·0	47 ·0
5. 46	21. 56. 0	3. 6	·1076	2. 45:	·01450	3. 40	48 ·0	49 ·5
11. 5	56. 30	5. 45	·1082	4. 17	·01210	9. 40	48 ·5	51 ·5
11. 16	55. 30	12. 53	·1080		(†)	21. 40	42 ·5	46 ·0
11. 30	55. 0	19. 20	·1092	11. 0	·00750			
12. 55	58. 0	21. 0	·1092	13. 20	·00840			
13. 33	55. 45	22. 45	·1086	18. 13	·01090			
15. 30	57. 55	23. 59	·1088	19. 13	·01170			
23. 4	21. 56. 55			20. 44	·01270			
23. 49	22. 0. 15			23. 18	·01470			
				23. 59	·01490			
Dec. 7		Dec. 7		Dec. 7		Dec. 7		
0. 0	22. 0. 0	0. 0	·1087	0. 30	·01500	1. 40	45 ·5	47 ·0
2. 6	21. 59. 0		***	2. 6:	·01420	3. 40	47 ·0	49 ·0
5. 0	56. 0	4. 15	·1080	3. 15	·01280	9. 40	46 ·0	47 ·5
6. 26	55. 30	12. 30	·1086	4. 39	·01070	21. 40	41 ·0	44 ·0
8. 40	56. 35	18. 30	·1104	7. 0:	·00840			
13. 40	57. 30	22. 3	·1106	9. 24	·00850			
14. 14	59. 0	23. 0	·1096	11. 2	·00940			
17. 35	59. 25			12. 10	·01050			
18. 45	57. 20			13. 30	·01200			
20. 40	56. 55			15. 42	{·01460			
23. 59	59. 0				{·01400			
				22. 59	·01410			
				23. 59	·01380			
Dec. 8		Dec. 8		Dec. 8		Dec. 8		
0. 0	21. 59. 15	1. 0	·1105	1. 15	·01240	1. 40	44 ·0	47 ·0
	***	1. 42	·1104	2. 36	·01040	3. 40	50 ·0	51 ·5
1. 37	59. 25	2. 55	·1094	3. 56	·00780	9. 40	51 ·5	52 ·5
5. 0	57. 0	7. 0	·1082	4. 7	·00810	21. 40	50 ·0	52 ·0
5. 55	59. 20	8. 48	·1087	4. 56	·00850			
6. 17	58. 0	9. 14	·1081	11. 1	·00830			
7. 8	58. 25	9. 55	·1089	11. 51	·00820			
	***	10. 40	·1082	12. 11	·00830			
9. 40	52. 15	11. 37	·1089	13. 15	·00820			
10. 0	54. 0	11. 55	·1086	14. 15	·00820			
11. 5	53. 30	13. 0	·1085	14. 36	·00800			
11. 21	55. 20	13. 46	·1080	14. 51	·00800			
11. 53	52. 5	14. 8	·1084	15. 16	·00790			
12. 51	56. 0	14. 24	·1098	20. 13	·00840			
	***	14. 46	·1089	23. 59	·01030			
13. 30	53. 20	15. 10:	·1099					
	***	15. 48	·1088					
14. 22	58. 25	16. 52	·1088					
14. 40	55. 40	17. 31	·1096					
15. 0	58. 55	19. 20	·1092					
15. 30	53. 0	19. 44	·1088					
16. 17	21. 57. 10	20. 1	·1094					
	***	20. 11	·1088					
18. 55	22. 0. 35	20. 39	·1096					
19. 8	21. 58. 30	20. 50	·1090					
	***	23. 59	·1080					
20. 6	22. 0. 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.
Dec. 8								
h m	° ′ ″	h m		h m		h m	°	°
20. 10	21. 58. 0							
20. 22	58. 5							
20. 30	59. 40							
21. 0	58. 30							
21. 40	59. 0							
22. 30	57. 35							
23. 0	21. 57. 50							
23. 59	22. 0. 30							
Dec. 9		Dec. 9		Dec. 9		Dec. 9		
0. 10:	22. 1. 0	0. 0	·1080	1. 0	·01100	1. 40	51 ·0	52 ·0
0. 45	22. 0. 30	2. 0	·1085	3. 28	·01150	3. 40	51 ·5	52 ·5
	***	4. 53	·1080	7. 9	·01060	9. 40	49 ·0	51 ·0
4. 46	21. 57. 0	6. 23	·1089	9. 15	·01170	23. 30	42 ·0	44 ·0
5. 30	58. 20	9. 34	·1089	10. 45	·01290			
5. 59	57. 15	9. 59	·1084	11. 9	·01300			
6. 30	58. 30	10. 36	·1087	14. 7	·01520			
9. 10	58. 0	10. 48	·1100	18. 30	·01480			
9. 45	52. 40	11. 12:	·1092	23. 26	·01440			
10. 13	56. 35	11. 31	·1098					
10. 44	57. 0	11. 45	·1091					
10. 53	59. 5	19. 30	·1111					
11. 20	56. 30	23. 30	·1100					
11. 35	58. 0							
11. 53	21. 57. 0							
13. 30	22. 0. 0							
22. 2	21. 59. 0							
22. 45	57. 15							
23. 25	21. 59. 5							
Dec. 10		Dec. 10		Dec. 10		Dec. 10		
1. 0	22. 0. 0	1. 0	·1104	1. 0	·01450	10. 50	43 ·3	45 ·0
4. 35	21. 57. 0	1. 45	·1098	2. 48	·01440	21. 40	37 ·0	40 ·5
6. 15	22. 1. 30	4. 30	·1104	5. 22	·01230			
7. 25	21. 57. 30	10. 0	·1100	7. 53:	·01030			
8. 0	56. 0	14. 45	·1112	9. 57	·01020			
8. 55	57. 10	16. 30	·1112	12. 30	·01070			
9. 18	56. 0	17. 50	·1120	13. 15	·01080			
9. 27	57. 30	21. 0	·1116	15. 2	·01190			
9. 45	56. 0	21. 45	·1110	16. 30	·01320			
	***	23. 59	·1105	17. 24	{·01430			
10. 50	56. 55				{·01380			
13. 31	57. 0			23. 1	·01460			
14. 0	59. 0			23. 45	·01480			
14. 12	57. 40			23. 59	·01480			
	***							
16. 2	21. 58. 0							
	***							
18. 20	22. 1. 0							
21. 5	21. 59. 25							
21. 37	57. 45							
	***							
23. 0	21. 58. 0							
23. 45	22. 0. 25							
23. 59	21. 59. 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.
Dec. 11		Dec. 11		Dec. 11		Dec. 11		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 59. 20	0. 0	·1105	1. 30	·01350	1. 40	41 ·0	43 ·5
3. 25	57. 15	4. 0	·1102	3. 33	·01090	3. 40	43 ·5	44 ·5
6. 20	56. 25	7. 14	·1105	5. 37	·00720	9. 40	45 ·0	46 ·0
9. 39	55. 45	10. 2	·1100	5. 43	·00740	21. 40	44 ·0	45 ·0
9. 54	53. 30	10. 23	·1107	9. 41	·00690			
10. 10	55. 0	10. 50	·1100	9. 49	·00800			
10. 28	56. 30	12. 41	·1101		(†)			
11. 19	56. 0		(†)	21. 40	·00786*			
13. 8	57. 0	21. 36	·1113					
	(†)	22. 30	·1104					
21. 40	58. 10	23. 59	·1104					
22. 10	58. 0							
22. 18	56. 55							
23. 59	59. 55							
Dec. 12		Dec. 12		Dec. 12		Dec. 12		
0. 0	21. 59. 50	0. 0	·1104	0. 0	·00920	1. 40	45 ·5	47 ·0
2. 47	56. 20	1. 0	·1094	1. 1	·00910	3. 40	48 ·0	49 0
11. 19	56. 35	4. 37	·1089	3. 45	{·00820	9. 40	49 ·0	49 ·5
12. 16	55. 10	4. 50	·1094		{·01200	21. 40	46 ·5	48 ·0
14. 45	56. 10	6. 30	·1090	5. 23	·00930			
18. 45	56. 0	9. 0	·1096	7. 10	·00840			
20. 47	58. 20	12. 0	·1090	9. 11	·00840			
22. 6	57. 0	17. 45	·1103	11. 14	·00920			
23. 20	58. 0	19. 58	·1098	12. 2	·00920			
		21. 15	·1102	13. 18	·00990			
		23. 59	·1092	14. 30	·01020			
				19. 26	·00970			
				21. 13	·00970			
				23. 10	·01020			
Dec. 13		Dec. 13		Dec. 13		Dec. 13		
0. 0	21. 59. 25	0. 0	·1092	0. 0	·01000	1. 40	48 ·0	49 ·0
1. 0	22. 0. 0	2. 55	·1098	1. 28	·00990	3. 40	49 ·0	50 ·0
1. 35	22. 1. 20	4. 15	·1084	3. 28	·00860	9. 40	52 ·3	52 ·5
2. 8	21. 59. 30		***	3. 33	·00900	21. 40	53 ·5	54 ·0
3. 21	59. 30	6. 8	·1093	3. 50	{·00920			
4. 38	56. 35	7. 28	·1054		{·01090			
	***	8. 23	·1081	6. 57	·00930			
5. 30	57. 30	11. 25	·1083	7. 15	·00920			
6. 23	59. 20		***	7. 31	·00950			
6. 46	59. 0	15. 14	·1076	10. 30	·00900			
7. 1	55. 0	18. 0	·1088	12. 0	·00940			
7. 23	54. 0	23. 59	·1082	23. 31	·00900			
8. 6	58. 55							
8. 35	56. 35							
10. 38	55. 30							
12. 0	56. 55							
14. 13	55. 30							
	***							
14. 53	57. 10							
	***							
15. 16	53. 0							
15. 40	55. 35							
	***							
16. 44	55. 15							
18. 6	55. 30							
22. 0	21. 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.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 13								
h m	° ′ ″	h m		h m		h m	°	°
23. 45	22. 0. 35							
23. 59	1. 25							
Dec. 14		Dec. 14		Dec. 14		Dec. 14		
0. 0	22. 1. 20	0. 0	·1082	0. 0	·00960	1. 40	55 ·0	56 ·0
	***		***	3. 38	{·01000	3. 40	57 ·0	57 ·0
3. 15	22. 2. 0	4. 23	·1076		{·01310	9. 40	57 ·0	58 ·0
5. 0	21. 59. 30	6. 0	·1074	6. 8	·01110	21 ·40	55 ·0	55 ·5
5. 30	22. 0. 30	6. 15	·1084	11. 30	·01050			
6. 15	21. 59. 25	7. 0	·1070	12. 0	·01050			
6. 30	22. 0. 35	8. 0	·1080	19. 23	·01160			
7. 15	21. 53. 35	8. 25	·1074	22. 45	·01250			
7. 49	54. 30	10. 38	·1077	23. 59	·01290			
8. 18	57. 30	12. 30	·1073					
10. 33	56. 0	17. 0	·1080					
	***	22. 8	·1080					
14. 57	21. 58. 20	23. 59	·1071					
15. 14	22. 0. 0							
16. 23	21. 57. 5							
23. 10	56. 25							
23. 59	57. 30							
Dec. 15		Dec. 15		Dec. 15		Dec. 15		
0. 0	21. 57. 20	0. 0	·1071	0. 30	·01290	1. 40	57 ·0	57 ·0
4. 51	55. 0	0. 45	·1078	2. 29	{·01220	3. 40	57 ·5	59 ·0
10. 23	55. 10	4. 0	·1071		{·01430	9. 40	57 ·0	58 ·0
13. 45	57. 0	12. 10	·1077	3. 15	·01360	21. 40	55 ·0	55 ·5
14. 40	55. 25	12. 34	·1079	8. 28	·01400			
15. 35	56. 50	12. 44	·1085	10. 24	·01420			
	***	13. 1	·1080	12. 13	·01480			
17. 46	55. 55	14. 23	·1080	13. 0	·01490			
18. 20	57. 25	18. 9	·1088	15. 53	·01580			
20. 5	55. 0	18. 40	·1086	19. 52	·01720			
	***	20. 52	·1089	21. 21	·01740			
22. 0	57. 30		***	21. 29	·01710			
22. 6	56. 30	21. 16	·1099	23. 59	·01690			
	***	22. 50	·1083					
23. 59	58. 25	23. 16	·1090					
		23. 34	·1082					
		23. 59	·1085					
Dec. 16		Dec. 16		Dec. 16		Dec. 16		
0. 0	21. 58. 20	0. 0	·1084	1. 0	·01700	1. 40	54 ·0	55 ·0
	***	2. 0	·1082	3. 39	·01720	3. 40	55 ·0	55 ·0
3. 5	56. 0	2. 23	·1074	6. 37	·01670	9. 40	53 ·5	54 ·3
5. 59	55. 0		***	7. 0	·01700	23. 40	41 ·0	42 ·2
7. 7	56. 0	4. 5	·1080	12. 15	·01670			
8. 0	57. 25	5. 38	·1077	13. 16	·01650			
9. 16	55. 55	6. 30	·1084	18. 55	·01570			
14. 0	58. 30		***	23. 59	·01570			
16. 55	59. 5	8. 25	·1080					
17. 35	57. 0	14. 30	·1095					
18. 6	59. 0	15. 8	·1094					
18. 27	58. 10		***					
20. 45	57. 0	17. 30	·1102					
22. 55	57. 0	18. 40	·1097					
23. 59	58. 0	22. 15	·1102					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in 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. 16 h m		h m		h m	°	°
		23. 15	·1097					
		23. 59	·1100					
Dec. 17		Dec. 17		Dec. 17		Dec. 17		
0. 0	21. 58. 0	0. 0	·1100	4. 19	·01550	11. 16	47 ·0	47 ·5
	(†)	4. 14	·1109	8. 51	·01470	21. 40	46 ·0	47 ·5
4. 30	57. 0	4. 56	·1096	11. 45	·01500			
8. 34	56. 0	8. 53	·1102	12. 16	·01520			
8. 46	55. 10	9. 32	·1091	14. 0	·01540			
8. 55	57. 0	10. 0	·1098	15. 23	{·01580			
9. 8	55. 20	10. 46	·1096		{·01530			
10. 0	56. 0	11. 15	·1110	19. 6	·01550			
10. 24	52. 25	11. 59	·1092	21. 37	·01500			
10. 52	55. 15		***	23. 22	·01400			
11. 10	55. 10	12. 59	·1102	23. 59	·01340			
11. 45	50. 5	13. 35	·1089					
12. 36	55. 0	14. 0	·1095					
13. 10	51. 15	14. 8	·1089					
13. 34	51. 20	14. 30	·1097					
14. 35	59. 0	15. 1	·1095					
15. 0	21. 56. 55	15. 30	·1087					
15. 45	22. 1. 30	16. 15	·1100					
	***	17. 0	·1096					
16. 37	21. 55. 0	21. 39	·1096					
	***	22. 5	·1079					
17. 15	57. 25	22. 20	·1080					
18. 5	55. 20		***					
18. 34	58. 0	23. 30	·1097					
18. 46	56. 30	23. 59	·1094					
21. 10	56. 20							
21. 23	53. 40							
22. 15	58. 30							
	***							
23. 59	58. 0							
Dec. 18		Dec. 18		Dec. 18		Dec. 18		
0. 0	21. 58. 0	0. 23	·1099	1. 15	·01200	1. 40	49 ·0	49 ·5
0. 26	22. 1. 25	1. 35	·1104	2. 30	·01090	3. 40	48 ·5	49 ·5
	***	2. 0	·1093	5. 15	·00930	9. 40	47 ·0	47 ·5
1. 16	21. 59. 30	2. 33	·1097	7. 24	·00960	21. 40	40 ·0	43 ·0
1. 25	22. 1. 25	2. 52	·1090	12. 45	·01450			
1. 49	21. 58. 55		***	13. 15	·01510			
2. 15	22. 1. 0	7. 41	·1088	13. 35	{·01540			
2. 40	21. 59. 0	8. 0	·1079		{·01490			
	***	8. 40	·1095	14. 53	·01470			
5. 2	21. 58. 0	9. 15	·1088	23. 27	·01500			
6. 10	22. 0. 0	10. 0	·1095					
7. 45	21. 58. 0	10. 14	·1091					
8. 8	52. 20	10. 35	·1096					
8. 30	56. 0	11. 14	·1091					
8. 55	55. 20	11. 46	·1096					
9. 50	58. 30	13. 6	·1091					
10. 18	55. 0		***					
11. 45	59. 0	14. 10	·1100					
	***	14. 35	·1108					
12. 55	57. 20	15. 11	·1097					
13. 13	59. 30	15. 45	·1095					
13. 45	57. 0	19. 22	·1102					

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. 18		Dec 18						
h m	° ′ ″	h m		h m		h m	°	°
14. 13	21. 59. 30	23. 23	·1099					
15. 0	56. 35	23. 59	·1100					
15. 34	58. 55							
16. 10	56. 30							
21. 5	56. 10							
23. 23	59. 0							
Dec. 19		Dec. 19		Dec. 19		Dec. 19		
0. 0	21. 59. 30	0. 0	·1100	0. 0	·01490	1. 40	43 ·0	44 ·0
	***	4. 15	·1094	1. 15	·01480	3. 40	46 ·0	47 ·0
1. 38	58. 35	7. 30	·1100	2. 30	·01390	9. 40	44 ·5	45 ·5
2. 3	59. 30	7. 45	·1093	6. 2	·00970	21. 40	45 ·0	46 ·0
2. 55	57. 35	8. 30	·1100	7. 9	·00890			
4. 38	57. 0	9. 0	·1096	11. 6	·00900			
7. 30	56. 30	10. 0	·1095	11. 46	·00910			
7. 47	54. 30	10. 35	·1097	12. 41	·00950			
9. 54	57. 25	12. 14	·1094	14. 30	·00920			
10. 23	56. 0	12. 40	·1103	15. 50	·00880			
11. 6	57. 0	13. 36	·1097	19. 36	·00680			
11. 55	56. 0	15. 23	·1101	19. 41	·00690			
12. 15	56. 30	18. 2	·1096	21. 55	·00700			
12. 27	55. 50	20. 0	·1103	23. 15	·00740			
12. 55	58. 0	22. 20	·1091	23. 59	·00750			
13. 22	56. 20	23. 59	·1090					
	***							
18. 40	56. 0							
22. 6	56. 0							
	***							
23. 32	59. 40							
23. 59	59. 25							
Dec. 20		Dec. 20		Dec. 20		Dec. 20		
0. 0	21. 59. 30	0. 0	·1090	1. 0	·00750	1. 40	49 ·0	50 ·0
	***	0. 21	·1092	5. 6	·00840	3. 40	49 ·0	50 ·0
0. 50	22. 0. 25	3. 15	·1086	6. 31	·00800	9. 40	49 ·0	51 ·0
1. 36	21. 58. 0	3. 55	·1068	8. 45	·00770	21. 40	42 ·0	43 ·5
	***	4. 40	·1066	11. 50	·00870			
3. 39	22. 1. 0	5. 10	·1078	11. 59	·00880			
4. 13	21. 58. 15	10. 30	·1090	12. 12	·00890			
5. 49	22. 0. 30	10. 45	·1089	13. 16	·00950			
6. 30	21. 58. 25	11. 30	·1101	17. 6	·01260			
7. 15	59. 0	11. 52	·1091	19. 41	·01540			
10. 55	55. 20	13. 0	·1099	19. 45	·01520			
11. 19:	50. 30	13 27	·1090	22. 45	·01480			
12. 6	58. 0	20. 44	·1104	23. 59	·01530			
12. 27	54. 0	22. 30	·1098					
12. 51	56. 0							
13. 45	56. 25							
14. 16	59. 0							
15. 7	56. 30							
16. 3	59. 35							
21. 25	59. 0							
21. 46	57. 10							
23. 59	57. 45							
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
0. 0	21. 57. 50	0. 15	·1095	0. 30	·01510	1. 40	45 ·5	45 ·5
1. 15	59. 35	1. 14	·1097	2. 3	·01460	3. 40	45 ·0	47 ·0
	***							

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 21		Dec. 21		Dec. 21		Dec. 21		
h m	° ′ ″	h m		h m		h m	°	°
2. 0	21. 58. 0	1. 53	·1086	3. 35	·01340	9. 40	49 ·3	49 ·5
	***	2. 25	·1096	8. 28	·00760	21. 40	52 ·0	53 ·0
5. 5	58. 20	4. 42	·1093	8. 30	·00790			
5. 40	56. 25	5. 30	·1083	12. 15	·00810			
9. 24	55. 0	6. 3	·1093	13. 8	·00820			
9. 32	53. 25	6. 45	·1097	19. 49	·00850			
10. 11	55. 30	8. 15	·1093	23. 6	·00860			
10. 24	54. 25	11. 15	·1090	23. 59	·00880			
10. 45	55. 25	11. 30	·1095					
14. 36	58. 0	11. 55	·1090					
16. 10	56. 30	19. 35	·1094					
17. 16	57. 35	23. 59	·1084					
17. 37	56. 20							
18. 0	57. 0							
22. 30	57. 0							
23. 59	58. 35							
Dec. 22		Dec. 22		Dec. 22		Dec. 22		
0. 0	21. 58. 40	0. 0	·1084	1. 30	·00940	1. 40	54 ·0	54 ·0
0. 47	22. 0. 20	4. 5	·1081	4. 12	·00980	3. 40	55 ·0	56 ·0
1. 9	21. 58. 0		***	9. 40	·00920	9. 40	56 ·0	56 ·0
3. 24	57. 25	10. 30	·1082	12. 38	·00900	21. 40	52 ·0	52 ·5
9. 13	56. 30	11. 5	·1089		·00930			
9. 22	54. 40	11. 40	·1078	13. 16	·00930			
10. 16	55. 55	12. 55	·1072	16. 39	·00920			
10. 36	51. 0		***	18. 36	·00970			
12. 21	56. 15	16. 25	·1084	21. 30	·01160			
	***	18. 44	·1090	23. 54	·01400			
13. 41	54. 25	19. 20	·1088					
	***	21. 30	·1090					
15. 4	57. 45	23. 59	·1083					
	***							
16. 0	55. 0							
17. 46	58. 0							
21. 45	58. 0							
	***							
23. 17	59. 30							
23. 59	59. 30							
Dec. 23		Dec. 23		Dec. 23		Dec. 23		
0. 0	21. 59. 30	0. 0	·1083	0. 16	·01430	1. 40	52 ·5	53 ·0
2. 0	59. 5		***	1. 57:	·01530	3. 40	53 ·0	54 ·0
4. 45	56. 25	3. 0	·1086	3. 39	·01500	9. 40	52 ·0	52 ·5
8. 54	57. 15	5. 55	·1080	6. 20	·01340	23. 20	45 ·0	46 ·0
9. 35	57. 0	10. 8	·1084	7. 17	·01330			
9. 51	55. 30	10. 35	·1080	11. 26	·01380			
10. 25	57. 20	11. 0	·1085	12. 56	·01420			
11. 6	57. 50	11. 16	·1082	14. 32	·01490			
11. 37	56. 5	11. 51	·1090	17. 41	·01680			
11. 55	57. 30		***	18. 44	·01640			
12. 15	56. 30	12. 45	·1083	23. 50	·01610			
12. 30	57. 20	14. 15	·1086					
12. 46	56. 45	18. 0	·1096					
13. 4	59. 30	20. 35	·1098					
13. 22	57. 50	22. 45	·1094					
21. 10	58. 30	23. 59	·1095					
23. 59	59. 55							

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

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 24		Dec. 24		Dec. 24		Dec. 24		
h m	° ′ ″	h m		h m		h m	°	°
0. 0	21. 59. 55	0. 0	·1095	0. 30	·00880	10. 5	51 ·0	52 ·0
3. 25	56. 20	1. 0	·1096	7. 37	·00900	23. 0	50 ·0	51 ·0
6. 13	57. 25	2. 23	·1090	10. 17	·01120			
8. 2	57. 0	8. 30	·1086	11. 56	·01210			
8. 34	55. 30	14. 25	·1090	12. 16	·01240			
9. 38	56. 10	19. 50	·1096	14. 15	·01370			
9. 58	53. 30	21. 37	·1087	16. 45	·01640			
10. 23	56. 0	23. 59	·1088	16. 55	·01610			
11. 16	56. 55			23. 30	·01600			
13. 46	55. 0							
15. 13	56. 20							
20. 0	57. 0							
22. 10	21. 58. 25							
23. 59	22. 1. 0							
Dec. 25		Dec. 25		Dec. 25		Dec. 25		
0. 0	22. 1. 0	0. 0	·1088	1. 10	·01630	10. 5	50 ·0	51 ·5
1. 39	22. 1. 5	2. 15	·1088	3. 12:	·01620	21. 40	46 ·0	47 ·0
3. 20	21. 58. 51	4. 15	·1080	4. 50	·01450			
4. 25	57. 30	10. 45	·1090	5. 28	·01370			
9. 0	58. 25	13. 0	·1080	7. 40:	·01090			
10. 20	57. 55	17. 16	·1098	9. 37	·00940			
15. 10	59. 30	19. 25	·1100	10. 30	·00920			
17. 55	59. 0	22. 0	·1089	12. 45	·00920			
19. 45	58. 0	23. 59	·1086	13. 0	·00910			
22. 40	58. 0			13. 44	·00920			
23. 10	59. 55			16. 46	·00990			
23. 59	59. 30			18. 39	·00950			
				20. 54	·00830			
				20. 57	·00850			
				23. 59	·00880			
		Dec. 26		Dec. 26		Dec. 26		
		0. 0	·1086	0. 0	·01600	1. 40	48 ·0	49 ·0
		3. 45	·1086	0. 46	·01610	3. 40	50 ·0	50 ·0
		4. 25	·1089	1. 46	·01540	9. 40	48 ·0	49 ·0
		5. 0	·1086	2. 27	·01470	21. 40	44 ·5	46 ·0
		8. 0	·1090	4. 22	·01160			
		10. 45	·1092	5. 23	·01000			
		12. 55	·1095	7. 2:	·00820			
		20. 14	·1103	8. 45	·00780			
		22. 6	·1092	11. 1	·00850			
		23. 59	·1090	12. 32	·00960			
				15. 15	·01170			
				20. 51	·01390			
				22. 30	·01490			
				23. 9	·01500			
		Dec. 27		Dec. 27		Dec. 27		
		0. 0	·1090	0. 0	·01510	1. 50	46 ·0	47 ·0
		1. 8	·1090	1. 0	·01500	3. 40	48 ·0	49 ·0
			***	2. 57	·01410	9. 40	46 ·0	46 ·5
		3. 0	·1100	6. 5	·01130	21. 40	40 ·0	41 ·0
		4. 5	·1101	7. 15	·01050			
		4. 52	·1096	10. 45	·01130			
		9. 34	·1103	11. 15	·01140			
		10. 35	·1102	12. 21	·01180			
		10. 53	·1095	17. 59	·01520 ·01490			

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the whole V. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Readings of Thermometers. Of H. F. Magnet.	Of V. F. Magnet.
Dec. 27				Dec. 27				
h m	° ′ ″			h m		h m	°	°
		11. 30	·1100	23. 0	·01510			
		12. 30	·1096					
		13. 0	·1098					
		13. 30	·1096					
		14. 0	·1098					
		16. 52	·1103					
		17. 30	·1106					
		18. 26	·1100					
		18. 40	·1108					
		20. 23	·1112					
		21. 40	·1104					
		23. 59	·1092					
		Dec. 28		Dec. 28		Dec. 28		
		0. 0	·1092	0. 0	·01520	1. 43	43 ·0	44 ·0
		1. 0	·1090	2. 9	·01450	3. 40	44 ·0	44 ·5
			***	3. 45	·01340	9. 40	45 ·0	45 ·2
		1. 45	·1100	7. 6	·00920	21. 40	40 ·0	41 ·0
		2. 30	·1096	8. 49	·00850			
			***	10. 45	·00870			
		3. 40	·1099	12. 0	·00930			
		4. 50	·1089	13. 34	·01020			
		6. 0	·1090	20. 30	·01500 ·01460			
		8. 50	·1099					
		10. 0	·1096	22. 9	·01480			
		10. 37	·1088					
		11. 7	·1092					
		11. 12	·1088					
		11. 25	·1083					
		11. 52	·1102					
		12. 36	·1093					
		18. 45	·1113					
		19. 30	·1112					
		20. 53	·1103					
		21. 45	·1106					
		22. 0	·1101					
		22. 30	·1080					
		23. 5	·1082					
		23. 59	·1089					
		Dec. 29		Dec. 29		Dec. 29		
		0. 0	·1089	0. 0	·01440	2. 32	42 ·0	43 ·0
		0. 50	·1095	0. 51	·01450	3. 40	44 ·0	45 ·0
		2. 30	·1093	2. 54	·01360	9. 40	45 ·5	46 ·0
		3. 5	·1085	6. 8	·00970	21. 40	45 ·8	46 ·0
		3. 30	·1092	6. 29	·00940			
		3. 43	·1085	6. 46	·00880			
		3. 53	·1088	8. 8	·00740			
		4. 7	·1072	8. 14	·00760			
		4. 28	·1083	9. 14	·00770			
		4. 50	·1070	10. 56	·00730			
			***	11. 30	·00720			
		5. 17	·1080	15. 1	·00690			
		5. 28	·1074	15. 25	·00680			
		5. 35	·1082	23. 0	·00740			
		6. 2	·1082					
		6. 15	·1075					
		6. 32	·1104					

For the Horizontal and Vertical Forces, increasing readings denote increasing forces.
From December 26 to Deeember 29, the adjustments of the Declination Magnet were under examination.

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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	° ′ ″	Dec. 29 h m		h m		h m	°	°
		6. 45	·1083					
		7. 12	·1072					
		7. 25	·1081					
		7. 53	·1060					
		8. 7	·1068					
		8. 45	·1068					
		9. 5	·1082					
		9. 31	·1082					
		10. 8	·1086					
		11. 45	·1089					
		13. 35	·1088					
		15. 14	·1100					
		16. 0	·1092					
		16. 25	·1097					
		17. 2	·1096					
		17. 35	·1088					
		19. 42	·1100					
		21. 6	·1088					
		21. 40	·1090					
		22. 7	·1085					
		23. 59	·1086					
Dec. 30		Dec. 30		Dec. 30		Dec. 30		
0. 24	21. 51. 50	0. 0	·1086	0. 0	·00740	1. 40	42 ·0	43 ·0
2. 0	54. 0	2. 41	·1082	2. 7	·00830	3. 40	51 ·0	52 ·5
5. 10	50. 30	3. 0	·1073	3. 51	{·00910	9. 50	51 ·7	52 ·3
5. 53	52. 20	3. 37	·1080		{·01060	23. 20	47 ·0	47 ·5
6. 30	47. 45	4. 10	·1076	4. 35	·01010			
7. 0	49. 15	5. 2	·1080	8. 15	·01030			
7. 23	44. 40	5. 43	·1076	8. 46	·00980			
7. 45:	47. 0	6. 21	·1063	11. 15	·01060			
8. 6	41. 0	6. 40	·1070	11. 45	·01060			
8. 31	53. 0	7. 15	·1053	13. 23	·01100			
9. 2	40. 15	7. 24	·1062	22. 43	·01640			
9. 30	56. 20	7. 39	·1058	23. 15	·01640			
10. 30	47. 45	7. 46	·1068	23. 59	·01640			
11. 0	46. 0	7. 57	·1062					
12. 10	49. 25	8. 15	·1088					

Göttingen Mean Solar Time.	Western Declination.	Göttingen Mean Solar Time.	Horizontal Force in parts of the whole H. F. uncorrected for Temperature.	Göttingen Mean Solar Time.	Vertical Force in parts of the 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. 30 h m	° ′ ″	Dec. 30 h m		h m		h m	°	°
12. 37	21. 47. 15	8. 25	·1080					
13. 23	51. 0		***					
13. 53	46. 35	9. 5	·1085					
14. 37	48. 30	10. 50	·1074					
15. 8	47. 30	13. 15	·1088					
	***	13. 34	·1096					
16. 12	49. 30	14. 1	·1090					
18. 0	49. 5	15. 40	·1089					
	(†)	19. 46	·1098					
21. 35	50. 0	21. 12	·1092					
22. 5	49. 0	21. 47	·1096					
22. 55	52. 0	22. 1	·1093					
	***	22. 6	·1096					
23. 15	58. 0	23. 59	·1093					
Dec. 31		Dec. 31		Dec. 31		Dec. 31		
0. 45	21. 53. 30	0. 0	·1093	1. 30	·01620	9. 23	49 ·0	49 ·0
	***	1. 7	·1092	2. 27	·01610	21. 0	43 ·5	45 ·0
3. 55	52. 0	3. 29	·1083	8. 0	·01190			
4. 50	49. 15	7. 45	·1086	9. 11	·01160			
9. 15	47. 10	10. 15	·1082	9. 16	·01230			
9. 25	49. 15	10. 53	·1084	12. 28	·01230			
10. 5	46. 50	11. 15	·1092	13. 30	·01210			
10. 21	47. 0	11. 39	·1087	17. 18	·01320			
10. 58	41. 0	14. 58	·1088	19. 27	·01350			
12. 0	50. 0	15. 45	·1095	21. 38	·01320			
14. 21	51. 50	17. 3	·1089	23. 59	·01210			
14. 43	50. 25	18. 45	·1095					
15. 0	52. 5	19. 35	·1091					
15. 30	58. 0	20. 35	·1095					
16. 0	49. 0	21. 40	·1090					
19. 50	55. 45	23. 15	·1086					
21. 34	49. 0	23. 59	·1085					
21. 47	51. 0							
	***							
23. 49	53. 0							
23. 59	52. 25							

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

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

OBSERVATIONS

OF THE

MAGNETIC DIP.

1854.

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 1854.

Day and Approximate Hour, 1854.		Magnetic Dip.	Day and Approximate Hour, 1854.		Magnetic Dip.	Day and Approximate Hour, 1854.		Magnetic Dip.
	d h	° ′		d h	° ′		d h	° ′
January	8. 21	68. 48 ·75	April	24. 9	68. 47 ·50	August	21. 3	68. 50 ·00
	9. 3	68. 48 ·75		30. 21	68. 50 ·00		21. 9	68. 49 ·00
	9. 9	68. 50 ·00					27. 21	68. 46 ·75
	15. 21	68. 48 ·75	May	1. 3	68. 48 ·00		28. 3	68. 48 ·75
	16. 3	68. 49 ·00		1. 9	68. 48 ·00		28. 9	68. 48 ·00
	16. 9	68. 50 ·00		7. 21	68. 46 ·75			
	22. 21	68. 48 ·00		8. 3	68. 45 ·50	September	3. 21	68. 48 ·75
	23. 3	68. 48 ·75		8. 9	68. 46 ·25		4. 3	68. 50 ·00
	23. 9	68. 48 ·00		14. 21	68. 46 ·50		4. 9	68. 48 ·00
	29. 21	68. 48 ·00		15. 3	68. 43 ·00		10. 21	68. 43 ·75
	30. 3	68. 48 ·00		15. 9	68. 44 ·25		11. 3	68. 48 ·75
	30. 9	68. 49 ·25		21. 21	68. 46 ·50		11. 9	68. 50 ·00
				22. 3	68. 45 ·50		17. 21	68. 48 ·75
February	5. 21	68. 48 ·75		22. 9	68. 47 ·00		18. 3	68. 50 ·00
	6. 3	68. 49 ·00		28. 21	68. 46 ·50		18. 9	68. 48 ·75
	6. 9	68. 49 ·50		29. 3	68. 50 ·00		24. 21	68. 46 ·25
	12. 21	68. 47 ·00		29. 9	68. 46 ·25		25. 3	68. 45 ·00
	13. 3	68. 48 ·25					25. 9	68. 47 ·50
	13. 9	68. 44 ·00	June	4. 21	68. 47 ·50			
	19. 21	68. 49 ·75		5. 3	68. 46 ·50	October	1. 21	68. 48 ·00
	20. 3	68. 48 ·75		5. 9	68. 46 ·25		2. 3	68. 49 ·50
	20. 9	68. 47 ·50		11. 21	68. 50 ·00		2. 9	68. 47 ·50
	26. 21	68. 45 ·00		12. 3	68. 46 ·25		8. 21	68. 48 ·75
	27. 3	68. 46 ·25		12. 9	68. 49 ·75		9. 3	68. 48 ·00
	27. 9	68. 46 ·25		18. 21	68. 47 ·50		22. 21	68. 47 ·00
				19. 3	68. 46 ·25		23. 3	68. 46 ·75
March	5. 21	68. 48 ·25		19. 9	68. 47 ·75		23. 9	68. 46 ·75
	6. 3	68. 48 ·00		25. 21	68. 48 ·00		29. 21	68. 48 ·00
	6. 9	68. 46 ·50		26. 3	68. 48 ·75		30. 3	68. 46 ·25
	12. 21	68. 48 ·75		26. 9	68. 46 ·75		30. 9	68. 46 ·75
	13. 2	68. 47 ·00						
	13. 9	68. 46 ·75	July	2. 21	68. 49 ·75	November	5. 21	68. 46 ·75
	19. 21	68. 50 ·00		3. 3	68. 47 ·50		6. 3	68. 46 ·75
	20. 3	68. 43 ·75		3. 9	68. 49 ·25		6. 9	68. 46 ·75
	20. 9	68. 46 ·75		9. 21	68. 49 ·25		12. 21	68. 46 ·75
	26. 21	68. 46 ·25		10. 3	68. 47 ·50		13. 3	68. 48 ·00
	27. 3	68. 46 ·75		10. 9	68. 48 ·00		13. 9	68. 48 ·00
	27. 9	68. 46 ·50		16. 21	68. 43 ·75		19. 21	68. 48 ·75
				23. 21	68. 48 ·75		20. 3	68. 47 ·50
April	2. 21	68. 50 ·50		24. 3	68. 47 ·50		20. 9	68. 48 ·00
	3. 3	68. 48 ·00		24. 9	68. 47 ·50			
	3. 9	68. 50 ·50		30. 21	68. 48 ·75	December	3. 21	68. 47 ·50
	9. 21	68. 50 ·00		31. 3	68. 48 ·75		4. 3	68. 47 ·00
	10. 3	68. 54 ·00		31. 9	68. 47 ·50		4. 9	68. 47 ·25
	10. 9	68. 52 ·50					10. 21	68. 44 ·25
	16. 21	68. 48 ·00	August	6. 21	68. 48 ·75		17. 21	68. 47 ·75
	17. 3	68. 48 ·75		7. 3	68. 48 ·75		18. 3	68. 46 ·00
	17. 9	68. 51 ·75		7. 9	68. 49 ·25		18. 9	68. 43 ·75
	23. 21	68. 48 ·75		13. 21	68. 47 ·75		25. 21	68. 44 ·75
	24. 3	68. 47 ·75		14. 3	68. 50 ·50		26. 3	68. 45 ·00
				14. 9	68. 50 ·00		27. 9	68. 44 ·25

On December 17^{d}. 21^{h}. the air was saturated with moisture, and on December 18^{d}. 9^{h}. the wind was blowing very strongly.

MONTHLY MEANS of MAGNETIC DIPS, at the ROYAL OBSERVATORY, GREENWICH, in the Year 1854.

1854, Month.	Monthly Means of Dips at 21h.	Number of Observations.	Monthly Means of Dips at 3h.	Number of Observations.	Monthly Means of Dips at 9h.	Number of Observations.
	° ′		° ′		° ′	
January	68. 48 ·39	4	68. 48 ·62	4	68. 49 ·31	4
February	68. 47 ·63	4	68. 48 ·06	4	68. 46 ·81	4
March	68. 48 ·31	4	68. 46 ·37	4	68. 46 ·62	4
April	68. 49 ·45	5	68. 49 ·62	4	68. 50 ·56	4
May	68. 46 ·56	4	68. 46 ·40	5	68. 46 ·35	5
June	68. 48 ·25	4	68. 46 ·94	4	68. 47 ·63	4
July	68. 48 ·05	5	68. 47 ·81	4	68. 48 ·06	4
August	68. 47 ·75	3	68. 49 ·50	4	68. 49 ·06	4
September	68. 46 ·87	4	68. 48 ·44	4	68. 48 ·56	4
October	68. 47 ·94	4	68. 47 ·63	4	68. 47 ·00	3
November	68. 47 ·41	3	68. 47 ·41	3	68. 47 ·58	3
December	68. 44 ·81	4	68. 46 ·00	3	68. 45 ·08	3
Mean	68. 47 ·62	48	68. 47 ·73	47	68. 47 ·72	46

Mean of all = 68° 47′ 7″

ROYAL OBSERVATORY, GREENWICH.

OBSERVATIONS

OF

DEFLEXION OF A MAGNET

FOR

ABSOLUTE MEASURE

OF

HORIZONTAL FORCE.

1854.

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, 1854.	Position of Deflecting Magnet with regard to Suspended Magnet.	Distances of Centers of Magnets.	Temperature.	Observed Deflexion.	Mean of the Times of Vibrations of Deflecting Magnet.	Number of Vibrations.	Temperature.
		ft. in.	°	° ′ ″	s		°
January 10	Lateral	1. 0	38·0	10. 13. 2·70	5·445	100	37·2
	Axial			5. 32. 11·80			
	Lateral	1. 6		3. 2. 4·00			
	Axial			1. 33. 28·80	5·440	100	38·3
February 14	Lateral	1. 0	38·0	10. 10. 15·60			36·5
	Axial			5. 28. 4·15			
	Lateral	1. 6		3. 2. 51·32			
	Axial			1. 33. 21·30	5·430	100	40·0
March 2	Lateral	1. 0	53·0	10. 13. 42·71	5·430	100	47·5
	Axial			5. 31. 34·60			
	Lateral	1. 6		3. 2. 43·59			
	Axial			1. 34. 28·23	5·441	100	47·5
April 5	Lateral	1. 0	60·9	10. 15. 32·22	5·440	100	56·8
	Axial			5. 34. 53·69			
	Lateral	1. 6		3. 2. 33·18			
	Axial			1. 32. 21·75	5·452	100	63·8
May 30	Lateral	1. 0	63·4	10. 9. 4·98	5·419	100	60·5
	Axial			5. 37. 34·94			
	Lateral	1. 6		3. 4. 31·36			
	Axial			1. 34. 58·66	5·439	100	65·5
June 21	Lateral	1. 0	67·2	10. 5. 11·15	5·441	100	66·5
	Axial			5. 38. 23·70			
	Lateral	1. 6		3. 3. 38·31			
	Axial			1. 33. 42·80	5·450	100	67·5
July 28	Lateral	1. 0	73·9	10. 12. 46·76	5·456	100	77·0
	Axial			5. 43. 57·00			
	Lateral	1. 6		3. 3. 35·67			
	Axial			1. 35. 48·91	5·408	100	71·0
October 24	Lateral	1. 0	52·4	10. 10. 2·33	5·453	100	53·2
	Axial			5. 34. 55·45			
	Lateral	1. 6		3. 2. 7·13			
	Axial			1. 33. 50·49	5·452	100	51·0
December 3	Lateral	1. 0	48·8	10. 9. 6·14	5·455	100	46·8
	Axial			5. 40. 58·88			
	Lateral	1. 6		3. 1. 59·75			
	Axial			1. 33. 24·89	5·452	100	50·2

COMPUTATION of the VALUES of ABSOLUTE MEASURE of HORIZONTAL FORCE.

Month and Day, 1854.	Apparent Value of a.	Apparent Value of b.	Mean Value of b.	Apparent Value of a^1.	Apparent Value of b^1.	Adopted Value of a, assuming the Mean Value of b as applicable to all.	Log. $\frac{1}{2}a = \text{Log. } \frac{m}{X}$	Adopted Time of Vibration of Deflecting Magnet.	Log. $m\,X$.	Value of X.	Value of m.
								s			
January 10	+0·17970	−0·00232		+0·08802	+0·00852	+0·181845	8·95867	5·443	0·11686	3·795	0·3450
February 14	+0·18173	−0·00514		+0·08872	+0·00657	+0·181388	8·95757	5·430	0·11894	3·808	0·3453
March 2	+0·18071	−0·00315		+0·08983	+0·00647	+0·182129	8·95349	5·436	0·11798	3·796	0·3457
April 5	+0·17920	−0·00110		+0·08542	+0·01184	+0·182505	8·96024	5·446	0·11638	3·785	0·3454
May 30	+0·18489	−0·00864	−0·00477	+0·08560	+0·01244	+0·181520	8·95789	5·429	0·11910	3·786	0·3455
June 21	+0 18447	−0·00934		+0·08698	+0·01130	+0·180497	8·95544	5·445	0·11654	3·807	0·3436
July 28	+0·18243	−0·00513		+0·08850	+0·01150	+0·182130	8·95935	5·432	0·11862	3·799	0·3459
October 24	+0·18045	−0·00393		+0·08804	+0·00923	+0·181195	8·95712	5·453	0·11527	3·794	0·3437
December 3	+0·18042	−0·00416		+0·08590	+0·01313	+0·180963	8·95656	5·453	0·11527	3·796	0·3435

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

Month and Day, 1854.	Adopted Time of Vibration.	Temperature.	Log. $m\,X$.	Value of m interpolated from the Deflexion Observations.	Inferred Value of X.
	s	°			
January 26	5·328	40·5	0·13540	0·3449	3·960
February 24	5·459	46·5	0·11431	0·3455	3·766
March 14	5·456	53·5	0·11479	0·3456	3·769
April 29	5·419	50·5	0·12070	0·3454	3·823
June 19	5·441	57·0	0·11718	0·3437	3·811
November 13	5·447	47·6	0·11623	0·3436	3·803
December 26	5·457	41·7	0·11463	0·3435	3·791

The number of vibrations employed in each determination was 100.

There is some error in the time of vibration on January 26; it is too small by about $0^s{\cdot}1$.

ROYAL OBSERVATORY, GREENWICH.

RESULTS

OF

METEOROLOGICAL OBSERVATIONS.

1854.

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

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

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

The thermometers used for determining the highest temperature of the air, and the highest state of the wet-bulb thermometer, are mercurial thermometers invented by Messrs. Negretti and Zambra, and described in the volume for 1851; and those for the lowest are of Rutherford's construction, described in the Introduction, 1847, page lxvii: they are self-registering. The readings given are corrected for index-errors.

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

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

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

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

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

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

The thermometers exhibiting the lowest temperature on the grass, and the highest and lowest temperatures of the water of the Thames, are described in the Introduction, 1847, pages lxix and lxxi. They are occasionally verified. They are read at 21^h (9^h A.M.) every day; their readings are placed opposite to the day preceding the civil day on which the scales are actually read. The thermometer for the highest temperature in the sunshine is a mercurial thermometer with blackened bulb, of Negretti and Zambra's construction: it is read at 9^h P.M. every evening.

The thermometer for the maximum temperature of the water of the Thames was out of order from December 17 to December 23. That for the minimum temperature was out of order from September 21 to September 24; October 1 to October 4; and December 17 to December 23.

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

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

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

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

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

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

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

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

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

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

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

MONTH and DAY, 1854.	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.	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	..	29·334	31·3	21·8	26·7	23·6	32·3	17·0	33·5	32·7	3·1	4·6	1·8	— 9·8	W	W	0·0	0·0	0·0	90	0·00
2	..	29·181	29·8	16·0	24·8	22·9	31·3	14·3	33·4	32·2	1·9	3·7	1·7	—11·5	Calm	NW	0·0	0·0	0·0	25	0·00
3	..	29·152	32·5	13·5	23·7	22·2	32·8	11·0	33·0	32·1	1·5	6·1	1·1	—12·3	Calm	NE	5·5	0·0	1·6	155	0·00
4	..	28·856	33·5	28·8	31·4	30·7	35·0	30·0	33·0	32·7	0·7	1·6	0·6	— 4·3	ENE	Variable	6·1	0·0	2·0	70	0 00
5	In Equator	28·846	34·8	30·7	32·4	31·2	35·3	31·5	33·5	32·7	1·2	2·2	0·6	— 3·1	SW	SW ; ENE	0·0	0·0	0·0	20	0·60 Melted Snow.
6	First Qr.	29·017	39·2	30·2	32·7	31·9	39·8	29·8	33·6	32·9	0·8	1·9	0·5	— 2·6	SE; SW	SW ; SE	0·0	0·0	0·0	100	0·09 Rain.
7	..	28·901	43·9	34·0	39·7	37·5	46·0	30·3	33·5	33·2	2·2	4·6	1·3	+ 4·6	NE; SE	SE	3·6	0·0	0·4	190	0·52
8	..	28·994	47·9	36·6	41·8	38·2	49·1	32·8	34·6	33·9	3·6	9·0	1·8	+ 6·9	SE; S	S	1·8	0·0	0·3	105	0·04
9	..	29·053	40·8	34·2	36·8	36·0	44·0	29·8	35·5	34·2	0·8	4·1	0·5	+ 1·8	SE	N	0·0	0·0	0·0	60	0·05
10	..	29·416	41·0	34·3	36·8	35·3	41·5	33·6	35·6	35·6	1·5	6·7	1·3	+ 1·7	NNW	NNW	0·0	0·0	0·0	135	0·01
11	Apogee	29·700	37·8	33·3	34·9	32·8	40·0	33·0	35·5	35·5	2·1	4·5	1·3	— 0·3	NNW	NW	1·0	0·0	0·2	80	0·00
12	..	29·654	40·0	32·2	36·2	31·8	40·3	32·0	35·5	35·5	4·4	8·0	1·3	+ 0·9	Calm	SE	0·0	0·0	0·0	30	0·00
13	Greatest Declination N.	29·551	43·1	34·4	38·4	32·2	48·3	30·5	36·0	35·8	6·2	7·9	0·5	+ 2·9	S	SE	1·8	0·0	0·2	145	0·03
14	Full	29·616	45·8	33·2	37·8	34·8	50·5	28·0	36·0	36·0	3·0	8·7	1·3	+ 2·1	SE ; S	Calm	0·0	0·0	0·0	10	0·03
15	..	29·595	40·7	32·3	36·4	35·9	41·0	25·3	36·0	36·0	0·5	6·5	0·5	+ 0·6	NE	Calm	0·0	0·0	0·0	10	0·00
16	..	29·757	47·6	37·0	42·2	40·8	48·0	33·8	37·2	36·8	1·4	3·5	0·3	+ 6·2	Calm	S	0·0	0·0	0·0	100	0·06
17	..	29·925	49·0	45·0	46·5	44·3	50·0	38·5	39·0	37·7	2·2	3·9	1·1	+10·3	SSW	S	0·0	0·0	0·0	125	0·01
18	..	30·039	49·3	41·0	45·0	42·2	51·0	44·2	40·6	38·6	2·8	6·2	1·0	+ 8·6	S	S	0·0	0·0	0·0	30	0·00
19	..	29·878	43·0	31·9	35·5	35·5	46·0	29·8	41·5	39·5	0·0	4·3	0·0	— 1·0	SE ; E	ESE	0·0	0·0	0 0	45	0·00
20	In Equator	29·864	52·3	33·2	44·4	40·3	55·0	24·8	43·5	40·8	4·1	10·6	0·6	+ 7·7	ESE	ESE	1·0	0·0	0·1	150	0·01
21	..	30·112	51·7	41·3	45·3	42·3	56·5	35·0	43·5	41·6	3·0	6·2	1·4	+ 8·5	S	SE	0·0	0·0	0·0	75	0·00
22	Last Qr.	29·917	51·5	34·7	43·1	41·2	57·0	28·4	43·5	42·0	1·9	3·7	0·5	+ 6·3	SE	SSE	0·0	0·0	0·0	75	0·01
23	..	29·970	51·4	35·5	42·0	38·9	55·0	30·0	43·5	42·1	3·1	9·2	0·8	+ 5·1	S	SSE	0·0	0 0	0·0	150	0·02
24	..	29·544	46·8	38·7	42·1	39·7	..	34·5	43·2	41·4	2·4	4·3	1·4	+ 5·1	SSE	S ; SW	4·0	0·0	0·7	125	0·10
25	..	29·992	46·8	31·9	39·5	34·2	..	25·2	43·5	42·1	5·3	9·7	1·6	+ 2·4	SW	S	5·0	0·0	1·5	215	0·00
26	Greatest Declination S.	30·291	52·1	37·9	43·4	35·4	56·5	29·8	43·2	41·9	8·0	14·2	2·8	+ 6·2	SW	SW	3·0	0·0	0·3	155	0·00
27	Perigee	30·252	48·5	35·4	42·3	40·1	50·0	26·5	43·2	41·9	2·2	4·8	0·2	+ 5·0	SSE	S	3·5	0·0	0·9	230	0·00
28	New	29·982	49·5	37·6	43·3	40·8	53·0	39·5	43·2	42·3	2·5	6·0	0·2	+ 6·1	S	SW	1·0	0·0	0·2	135	0·00
29	..	29·735	54·0	32·8	46·1	44·8	56·0	27·5	43·6	42·5	1·3	5·0	0·0	+ 5·8	S ; SW	SW	6·0	0·0	1·8	165	0·09
30	..	30·009	54·8	45·2	49·3	45·6	57·0	46·0	44·5	43·2	3·7	6·8	2·9	+11·8	SW	SW	2·0	0·6	1·9	210	0·00
31	..	30·044	53·2	44·9	48·9	45·4	56·5	38·9	45·8	43·7	3·5	4·4	0·9	+11·3	SW	SW	3·0	0·5	2·0	240	0·00
Feb. 1	..	29·818	50·5	41·0	45·6	42·5	53·0	43·5	46·5	44·2	3·1	5·7	0·7	+ 7·9	SSW	SSW ; N	4·1	0·0	0·3	85	0·38
2	In Equator	30·099	46·2	33·6	38·2	34·9	52·5	33·3	46·4	44·2	3·3	10·8	0·5	+ 0·4	N	N ; Calm	0·0	0·0	0·0	65	0·00
3	..	30·166	43·0	25·7	32·9	32·6	52·5	17·8	46·0	43·7	0·3	3·6	0·0	— 4·9	Calm	Calm	0·0	0·0	0·0	35	0·04
4	First Qr.	29·835	45·5	28·2	36·0	32·1	52·0	19·8	45·5	42·5	3·9	10·4	2·8	— 1·9	NE	SE	4 6	0·0	0·5	115	0·05
5	..	29·807	51·0	37·7	43·9	41·4	51·5	28·8	45·4	42·5	2·5	5·3	2·0	+ 5·9	SW	SW	4·3	0·0	1·5	200	0·13
6	..	29·928	57·0	46·3	51·1	46·7	62·0	41·5	45·0	42·5	4·4	7·6	3·0	+13·0	SW	SW	8·4	1·0	3·4	315	0·00
7	..	29·918	54·8	40·7	47·3	41·8	58·0	36·0	45·0	43·0	5·5	8·6	3·8	+ 9·1	SW	W	9·0	0·0	2·5	240	0·00
8	Apogee	30·036	45·5	37·0	40·8	31·7	52·2	30·5	45·0	42·2	9·1	13·4	5·5	+ 2·5	SW	W	5·8	0·0	2·5	200	0·00
9	Greatest Declination N.	29·944	46·0	34·4	38·4	34·9	49·0	31·8	44·0	42·5	3·5	6·5	1·8	+ 0·1	SW	NW	16·0	0·0	2·7	175	0·12
10	..	30·129	43·0	32·4	37·0	31·2	52·0	26·0	44·0	41·7	5·8	9·4	3·9	— 1·4	NW	NNW	4·8	0·0	1·4	105	0·00
11	..	30·105	40·0	32·2	35·4	27·3	48·5	30·0	43·8	40·8	8·1	11·8	4·8	— 3·1	NNW	NW ; Calm	1·9	0·0	0·2	35	0·00
12	..	30·101	43·9	29·4	33·8	31·7	47·0	20·7	42·8	39·8	2·1	5·8	1·7	— 4·8	Calm	NNE	0·0	0·0	0·0	35	0·00
13	Full	30·451	40·0	27·1	31·6	25·1	48·8	21·7	40·0	37·5	6·5	10·7	1·8	— 7·1	N	NE ; Calm	0·0	0·0	0·0	10	0·00
14	..	30·428	41·8	23·5	32·4	27·0	45·0	16·5	40·5	38·8	5·4	12·1	2·1	— 6·4	Calm	SW	1·0	0·0	0·1	175	0·00
15	..	29·849	44·0	31·1	35·9	30·7	47·0	22·2	40·4	38·9	5·2	8·1	4·0	— 2·9	SW ; NW	NW	3·0	0·0	0·8	125	0·13
16	In Equator	29·921	40·0	31·1	35·4	28·9	45·0	22·5	40·5	38·9	6·5	10·8	3·8	— 3·5	NW	NW ; S	0·0	0·0	0·0	150	0·00
17	..	29·460	49·8	36·2	41·9	35·2	52·0	30·0	40·4	38·9	6·7	10·1	5·5	+ 2·9	S	SW ; W	13·0	0·0	3·9	290	0·08
18	..	29·489	41·5	29·4	34·5	27·9	44·0	23·8	40·0	38·4	6·9	20·0	3·4	— 4·3	W ; NW	NW	17·0	1·7	4·7	295	0·00
19	..	29·840	40·7	30·0	34·5	24·1	48·0	26·5	39·0	37·7	10·4	13·5	..	— 4·7	NW	NW ; W	8·9	0·0	1·9	60	0·00
20	Last Qr.	29·786	53·0	33·6	42·6	40·7	57·0	20·7	39·5	38·4	1·9	5·7	0·7	+ 3·3	S	SW	3·0	0·0	0·5	80	0·00
21	..	30·144	52·0	33·5	41·1	35·1	64·0	25·0	39·5	38·9	6·0	14·0	1·3	+ 1·8	N	NE ; Calm	0·0	0·0	0·0	60	0·00
22	..	29·978	48·7	34·9	41·4	35·9	56·0	25·0	41·0	39·3	5·5	12·5	2·5	+ 2·0	S	S	6·0	0·0	1·6	195	0·00
23	Greatest Declination S.	30·314	49·6	35·8	41·1	32·5	56·0	28·2	41·4	39·7	8·6	13·6	5·0	+ 1·6	NW	NW ; S	5·2	0·0	1·5	85	0·10
24	Perigee	30·292	48·5	38·2	41·4	35·9	53·0	24·2	41·8	40·3	5·5	10·1	3·5	+ 1·8	S	SW	4·8	0·0	1·8	190	0·00
25	..	30·319	51·1	39·9	44·2	32·6	59·0	30·0	42·0	40·6	11·6	16·0	7·4	+ 4·5	SW ; W	NW	6·0	0·0	1·3	140	0·00
26	..	30·416	50·0	31·2	41·3	32·2	60·0	20·0	42·2	40·7	9·1	14·1	0·7	+ 1·5	SW	Calm	0·0	0·0	0·0	50	0·00
27	New	30·251	51·5	33·5	41·9	35·4	64·5	23·2	42·5	40·8	6·5	13·7	2·4	+ 2·0	N ; SW	SW ; S	4·0	0·0	0·5	180	0·00
28	..	30·313	53·5	36·5	43·9	33·3	63·2	29·2	43·2	41·2	10·6	18·1	3·4	+ 4·0	S	SW ; NW	3·0	0·0	0·4	50	0·00

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Jan. 1	w	w	10, s, ci.-s, sn	10, s, ci.-s : o
2	w	w	5, s, ci.-s : 10	5, s, ci.-s
3	w	w	10, s	10, s, sn
4	w	w	10, sl	10, sl
5	w	w	10, sn	10, sn
6	w	w	10, ci.-s	10, ci.-s, sn, r : lu.-co
7	w	w	10	10 : v
8	w	w	7, cu, ci.-cu, ci	7, cu, ci.-cu, ci : lu.-co
9	w	w	10, r	10
10	w	w	9 : 10	10 : m.-r
11	w	w	10 : 9	10 : m.-r
12	w	w	10	10 : m.-r
13	w	w	o	o : 10
14	w	w	o	o : 10, s, lu.-ha
15	o	o	10	10
16	o	o	10, s, sc	10, s, sc : m.-r
17	o	o	10, sqs, r	10 : m.-r
18	o	o	10	10
19	o	o	10, f	10, f : o
20	o	o	8, ci.-s	10, ci.-s
21	o	o	10, s, ci.-s, li.-cl	5, ci.-s, li.-cl : o
22	o	o	o	o : 10
23	o	o	10, ci.-s	o
24	o	o	10, m.-r	10, m.-r
25	o	o	o, h.-fr	7, ci.-s, ci : 10, ci.-s
26	o	o	o	2, li.-cl : o
27	o	o	o : 10, ci.-s	10 : th.-r
28	o	o	10, r	v, ci.-cu
29	o	o	10, fr.-m.-r	10, fr.-m.-r
30	o	o	10	v
31	o	o	10	10, : a
Feb. 1	o	o	10	10 : r
2	o	o	10, ci.-s : o	o
3	o	o	10, th.-f, h.-fr	o
4	o	o	o	9, ci.-cu, ci.-s
5	o	o	10, r	10 : sl.-r
6	o	o	10, ci.-s : 9	10, ci.-s, sc
7	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s : 7, lu.-co
8	o	o	10 : 10, cu.-s	10, cu.-s, ci.-s : v, lu.-co
9	o	o	10 : r	10, h.-sqs.-r : o
10	o	o	o	10, ci.-cu, ci.-s, sc
11	o	o	10	10
12	o	o	10, th.-f : 5	5 : o
13	o	o	10, cu, cu.-s, ci.-s	o
14	o	o	o	o : 10
15	o	o	10, h.-r	10
16	o	o	9, cu, cu.-s, ci.-s	9, cu, cu.-s, ci.-s
17	o	o	10, ci.-s, sc	10, ci.-s, sn, r : 8
18	o	o	9, cu, cu.-s ci.-s, sn	9, cu, sc, sn : v
19	o	o	o	o : 10
20	o	o	10, sl.-r	10, sl.-r
21	o	o	0, h.-fr	o : v
22	o	o	5, cu, ci.-cu	5 : 10
23	o	o	5	o : f
24	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, sc
25	o	o	5, li.-cl, h	5, li.-cl, h : o
26	o	o	o	o : a
27	o	o	5, ci.-cu, li.-cl	5, ci.-cu, li.-cl : o
28	o	o	10, cu, cu.-s, ci.-s	o : f

MONTH and DAY, 1854.	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.
Mar. 1	In Equator.	30·597	54·5	28·0	40·4	30·3	69·5	16·8	42·8	40·7	10·1	18·0	4·6	+ 0·4	Calm	Calm; SE	0·0	0·0	0·0	15	0·00
2	..	30·547	56·7	30·6	43·2	31·1	70·0	17·3	43·0	41·2	12·1	23·8	2·3	+ 3·2	Calm	Calm	0·0	0·0	0·0	20	0·00
3	..	30·511	57·0	24·6	38·8	27·0	72·0	14·8	43·2	41·7	11·8	24·4	6·7	— 1·2	SE; Calm	Calm	0·0	0·0	0·0	5	0·00
4	..	30·645	49·8	27·4	37·7	33·2	55·0	15·0	43·0	41·7	4·5	11·9	0·0	— 2·2	Calm; NE	NE	0·0	0·0	0·0	55	0·00
5	..	30·539	48·5	28·3	35·4	33·6	55·0	34·2	43·2	41·9	1·8	10·6	0·0	— 4·4	NE	NE; Calm	0·0	0·0	0·0	5	0·00
6	First Qr.	30·381	47·0	25·5	34·0	32·6	55·0	15·1	43·0	41·9	1·4	10·8	0·0	— 5·7	Calm	Calm	0·0	0·0	0·0	5	0·00
7	Apogee	30·306	50·0	27·4	36·7	35·2	51·8	20·7	43·0	41·7	1·5	7·4	0·0	— 3·0	Calm; SW	S	0·0	0·0	0·0	135	0·00
8	Greatest Declination N.	30·224	58·0	42·8	49·3	45·1	66·0	35·0	43·8	42·5	4·2	10·5	2·6	+ 9·4	S	SSW	3·8	0·0	1·8	210	0·00
9	..	30·148	63·0	48·0	54·5	48·2	78·0	43·0	46·0	43·4	6·3	14·5	2·9	+14·3	SW	SW	3·6	0·0	2·0	195	0·00
10	..	29·962	56·7	43·3	47·3	39·2	66·5	45·0	47·2	43·9	8·1	12·7	3·8	+ 6·9	SW	SW	4·8	0·0	2·4	195	0·03
11	..	30·044	62·8	42·2	49·2	43·3	75·5	32·0	48·8	45·0	5·9	15·8	1·2	+ 8·5	SW	SW	3·2	0·0	1·2	65	0·00
12	..	29·893	64·0	34·9	49·3	37·0	78·5	24·8	49·0	45·5	12·3	18·1	2·3	+ 8·4	Calm	S	0·0	0·0	0·0	60	0·00
13	..	29·850	64·2	39·7	52·1	38·1	79·2	27·0	49·4	46·1	14·0	21·1	4·2	+10·9	Calm	S	2·4	0·0	0·5	200	0·00
14	Full	29·867	54·4	45·3	49·0	43·5	59·0	32·2	49·2	45·9	5·5	9·2	2·4	+ 7·6	S	SW; Calm	0·0	0·0	0·0	55	0·00
15	In Equator	30·082	59·5	37·6	47·9	44·8	63·0	26·5	49·5	46·5	3·1	8·0	1·5	+ 6·4	SW	SW	1·2	0·0	0·3	100	0·00
16	..	30·035	58·6	43·8	48·6	42·0	60·0	39·2	49·6	46·7	6·6	13·7	4·2	+ 6·9	S	W; NW	2·4	0·0	0·2	65	0·00
17	..	30·288	54·8	33·2	42·4	34·0	72·8	20·2	49·6	46·9	8·4	16·8	0·8	+ 0·6	NW; N	N; Calm	0·0	0·0	0·0	95	0·00
18	..	29·964	53·2	31·3	41·0	37·2	58·0	17·5	49·0	46·9	3·8	13·3	0·0	— 0·8	Calm	SW; NW	1·0	0·0	0·0	45	0·13
19	..	29·955	53·5	36·1	40·5	36·2	55·0	30·2	48·8	46·1	4·3	11·0	1·0	— 1·4	NE	NE	3·6	0·0	0·9	100	0·14
20	..	30·227	43·8	32·5	36·7	31·7	49·0	24·2	48·5	45·7	5·0	12·9	2·1	— 5·3	NE	NE; N	3·0	0·0	0·8	70	0·00
21	Last Qr.	30·231	51·7	35·5	40·6	36·3	60·0	27·0	48·0	44·4	4·3	15·4	1·8	— 1·5	N; NW	N	3·4	0·0	0·6	85	0·02
22	Perigee Greatest Dec. S.	30·351	51·2	30·5	40·6	34·1	65·0	19·7	47·5	44·1	6·5	15·1	2·8	— 1·6	NW	NW	2·0	0·0	0·4	125	0·01
23	..	30·275	52·5	37·9	42·3	37·0	58·0	38·2	47·4	43·9	5·3	12·0	2·0	0·0	NW	NW	2·6	0·0	1·4	80	0·00
24	..	30·175	49·0	32·6	40·3	35·0	55·0	19·2	46·8	43·7	5·3	11·4	2·6	— 2·1	S; NW	N	1·0	0·0	0·0	65	0·00
25	..	29·909	47·8	31·3	39·7	34·9	49·5	21·2	46·5	43·7	4·8	9·5	2·7	— 2·8	SW	W	1·8	0·0	0·1	105	0·00
26	..	29·821	54·8	40·4	46·0	39·6	60·5	27·3	46·5	43·7	6·4	13·6	2·8	+ 2·0	WSW	NW; N	2·8	0·0	0·4	55	0·03
27	..	30·094	64·8	37·3	42·9	37·9	65·0	33·0	46·5	43·7	5·0	13·6	2·3	+ 0·1	Calm	WSW	0·0	0·0	0·0	5	0·00
28	New In Equator	30·216	58·7	38·6	48·2	40·9	65·5	27·2	46·0	44·1	7·3	12·8	5·3	+ 5·2	WSW	NNW	0·0	0·0	0·0	40	0·00
29	..	30·225	62·2	35·5	48·0	40·1	79·5	24·0	47·5	44·9	7·9	14·9	0·0	+ 4·8	SW	W	1·4	0·0	0·2	135	0·00
30	..	30·121	60·5	40·3	47·1	41·4	72·8	28·7	48·5	45·3	5·7	13·5	4·0	+ 3·8	SW	WSW	3·6	0·0	0·6	105	0·00
31	..	30·264	61·5	35·0	47·4	37·5	63·8	23·2	49·0	45·7	9·9	18·9	4·7	+ 4·0	W	SW	0·0	0·0	0·0	120	0·00
April 1	..	30·129	71·0	34·9	51·4	38·4	83·5	25·5	50·0	46·5	13·0	24·3	2·3	+ 7·8	SSW	SW	1·6	0·0	0·2	75	0·00
2	..	30·285	64·5	39·3	49·0	44·4	84·0	28·8	51·0	47·3	4·6	14·9	0·3	+ 5·3	N	NE; Calm	0·0	0·0	0·0	25	0·00
3	..	30·388	60·2	39·9	48·0	39·6	77·0	24·3	51·8	48·3	8·4	15·7	4·1	+ 4·1	NE	NW	0·0	0·0	0·0	55	0·00
4	Apogee Greatest Dec. N.	30·350	61·2	33·9	46·2	37·2	75·8	20·0	52·5	49·2	9·0	18·0	5·0	+ 2·2	NW; W	W	0·0	0·0	0·0	65	0·00
5	First Qr.	30·252	65·8	39·6	50·7	44·6	78·8	25·5	52·6	49·4	6·1	18·9	4·0	+ 6·5	W	Calm	0·0	0·0	0·0	30	0·00
6	..	30·225	66·5	36·5	50·5	42·5	84·5	24·0	53·4	49·6	8·0	18·2	3·0	+ 6·1	Calm	W	0·0	0·0	0·0	80	0·00
7	..	30·232	66·0	37·2	51·0	44·1	78·0	26·0	54·0	50·0	6·9	16·0	1·8	+ 6·6	SW	NE	0·0	0·0	0·0	10	0·00
8	..	30·040	68·2	40·9	53·9	44·1	89·5	29·5	55·0	50·4	9·8	18·0	1·7	+ 9·2	Calm	SW; Calm	0·0	0·0	0·0	40	0·00
9	..	30·047	66·0	40·1	50·8	43·7	86·5	26·5	55·0	50·4	7·1	15·2	1·0	+ 6·0	Calm	NNE; ESE	0·0	0·0	0·0	5	0·00
10	..	30·059	56·5	35·1	43·3	40·9	75·0	22·5	55·2	50·9	2·4	12·7	1·7	— 1·7	Calm; E	E	0·0	0·0	0·0	60	0·00
11	..	30·033	65·0	34·1	47·2	41·0	84·8	24·0	55·0	50·9	6·2	16·0	2·1	+ 2·1	Calm	ENE	3·0	0·0	0·3	75	0·00
12	In Equator	30·219	62·0	38·3	48·0	39·4	81·0	26·5	55·0	51·3	8·6	20·4	2·5	+ 2·7	NE	NE	2·4	0·0	0·6	40	0·00
13	Full	30·191	60·0	43·5	49·8	41·0	77·0	41·0	54·6	51·3	8·8	16·6	6·9	+ 4·3	NE	E	3·6	0·0	0·5	40	0·03
14	..	29·987	66·5	33·1	47·1	37·6	87·5	23·2	54·4	51·5	9·5	23·2	0·8	+ 1·4	Calm	E; Calm	0·0	0·0	0·0	5	0·00
15	..	29·885	68·8	35·4	49·9	38·8	88·8	28·0	54·2	50·7	11·1	18·2	6·7	+ 4·0	Calm	NE	1·0	0·0	0·0	45	0·00
16	Perigee	30·023	65·5	34·2	50·2	39·1	85·0	22·7	54·5	50·9	11·1	22·2	5·3	+ 4·2	NE	ENE	1·8	0·0	0·5	60	0·00
17	..	30·119	55·0	40·3	45·5	42·7	77·0	39·2	54·8	51·4	2·8	6·7	1·2	— 0·8	ENE	E	2·0	0·0	0·4	25	0·00
18	Greatest Declination S.	29·988	64·7	35·8	50·6	44·3	86·0	25·0	55·0	51·7	6·3	13·4	2·1	+ 4·1	Calm	ESE	3·0	0·0	0·5	30	0·00
19	..	29·807	76·0	44·1	58·2	43·9	102·0	33·8	56·0	52·7	14·3	28·2	3·7	+11·4	Calm	ESE	1·6	0·0	0·3	60	0·00
20	Last Qr.	29·544	77·5	44·5	59·9	45·5	100·2	32·0	57·0	53·7	14·4	28·8	4·1	+12·9	E	ESE	3·6	0·0	0·3	60	0·03
21	..	29·304	74·2	50·5	58·2	51·2	105·0	47·0	57·6	53·9	7·0	19·4	1·1	+10·9	E	E	0·0	0·0	0·0	75	0·00
22	..	29·349	53·0	42·5	45·4	44·7	54·5	34·5	57·2	53·7	0·7	4·4	0·0	— 2·1	NNE	NE	7·0	0·0	1·3	195	0·27
23	..	29·825	48·2	37·0	40·0	32·6	61·0	28·0	56·4	52·2	7·4	13·6	5·0	— 7·8	NE	NNE	6·5	1·2	3·3	200	0·00
24	..	30·204	51·8	31·4	39·5	31·6	72·0	22·0	55·0	50·9	7·9	16·0	3·1	— 8·7	NNE	NE	4·0	0·0	0·8	75	0·00
25	In Equator	30·287	52·2	28·3	40·5	33·8	68·5	14·8	53·5	50·4	6·7	15·4	2·3	— 8·0	N	N	0·0	0·0	0·0	70	0·00
26	..	30·255	57·8	38·2	46·8	40·2	74·5	25·4	53·0	49·2	6·6	14·8	1·0	— 2·0	N	NNE	4·0	0·0	0·7	215	0·00
27	New	29·740	55·0	42·4	46·4	44·8	58·0	33·5	51·8	48·7	1·6	6·0	1·0	— 2·8	W	NNW	5·0	0·0	1·0	185	0·13
28	..	29·765	53·0	41·5	44·7	37·1	65·0	33·1	51·0	48·7	7·6	13·8	6·5	— 4·8	NW	N	7·0	0·0	2·1	120	0·01
29	..	29·535	53·3	38·7	43·3	40·4	66·0	29·8	50·5	48·3	2·9	9·9	0·9	— 6·6	W	N; Calm	0·0	0·0	0·0	115	0·05

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Mar. 1	o	o	o, f, h.-fr	o
2	o	o	o, f, h.-fr	o
3	o	o	o	o : f
4	o	o	o : 10	10
5	o	o	10 : o	o : 10, th.-f
6	o	o	10, th.-f, h.-fr : o	o : 10, f
7	m	m	10, th.-f	10
8	o	o	10, ci.-s	10 ci.-s
9	o	o	v, cu, ci.-s, sc	v, cu, ci.-s, sc
10	o	o	10, ci.-s, li.-cl	10, r : v
11	o	o	v, ci.-s, li.-cl	v : lu.-ha, lu.-co
12	o	o	o	o
13	o	o	o	o
14	o	o	10, ci.-s	10, ci.-s : lu.-ha
15	o	o	o : 10	10, cu, cu.-s, sc
16	o	o	7, ci.-s, r	7, ci.-s
17	o	o	o	o
18	o	o	10, cu.-s, ci.-s, sc	10, cu.-s, ci.-s : v, r
19			10, r	10
20			10, cu.-s, ci.-s	8, cu.-s, ci.-s : 10
21			10, cu, cu.-s, ci.-s, r	7, cu, cu.-s, c.i-s : o
22			v, cu, cu.-s, ci.-s	v : 10
23			10, cu, sc	10, cu, sc : o
24			10	10 : v
25			10	10
26			10, cu.-s, ci.-s, r	10, cu.-s, ci.-s, r
27			10, ci.-s	10, ci.-s : o
28			10	10, cu.-s, ci.-s, h
29			2, ci.-s : o	o
30			10, ci.-cu, ci.-s	v
31			o, f	o
April 1			o	o
2			5, ci.-cu, li.-cl : o	o : 5, ci.-s
3			o	7, cu, cu.-s, ci.-s : o
4			o	o
5			o	o
6			o	o
7			o	5, cu, cu.-s : o
8			o	3, cu, cu.-s, li.-cl : o
9			o	o
10			10, ci.-s	o
11			5, ci.-s : o	o
12			5, cu.-s, ci.-s	o : 10
13			10, ci.-s, r : o	o
14			o	o : a
15			7, cu.-s, ci.-s, li.-cl	7, cu.-s, ci.-s, li.-cl
16			o	o : 10
17			10, cu, cu.-s, ci.-s	10, cu, cu.-s : o
18			o	o
19			o	o
20			o : 5	10, ci.-s, li.-cl, r
21			10, cu, cu.-s, r : 7	7, cu, cu.-s, r
22			10, sl.-r	10, sl.-r
23			10	o
24			7, cu, cu.-s, ci.-s	5, cu, cu.-s : o
25			10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s
26			10, ci.-s	10, ci.-s
27			10, ci.-s, r	5 : 10, h.-r
28			10	10
29			10, r	10

The Electrical Apparatus was not in use from March 19 to May 9.

MONTH and DAY, 1854.	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.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Apr. 30	..	29·275	51·6	35·6	45·4	43·6	52·2	28·1	50·0	48·3	1·8	4·8	1·0	— 4·9	SSW	SW	4·8	0·0	1·3	205	0·04
May 1	..	29·047	56·0	46·3	49·2	48·5	50·0	31·0	50·6	48·5	0·7	4·2	0·0	— 1·6	SW	SW	4·2	0·0	0·9	110	0·21
2	Greatest Dec. N Apoge	29·137	60·0	44·0	49·3	44·9	71·3	42·0	51·0	48·7	4·4	13·1	1·8	— 1·8	S	SW	6·0	0·0	1·3	175	0·09
3	..	29·350	61·0	46·0	50·9	46·1	73·3	40·2	51·8	49·0	4·8	14·4	1·3	— 0·6	SW	SW	1·5	0·0	0·2	85	0·04
4	..	29·492	64·6	40·3	51·4	42·6	88·3	32·0	53·0	49·7	8·8	17·0	2·6	— 0·4	SW; W	W	0·0	0·0	0·0	..	0·00
5	First Qr.	29·545	65·5	37·2	48·2	44·0	91·3	28·2	53·5	50·4	4·2	15·2	0·5	— 3·8	W	W; SW	3·7	0·0	0·1	..	0·01
6	..	29·453	56·9	40·6	47·9	43·9	65·2	31·3	54·0	50·5	4·0	10·3	2·2	— 4·3	SSW	SW	2·0	0·0	0·1	..	0·01
7	..	29·440	63·6	43·3	52·4	43·8	83·2	37·5	54·6	50·9	8·6	16·2	6·3	+ 0·2	SSW	SW	8·5	0·0	3·9	..	0·03
8	..	29·384	59·3	44·3	47·8	43·8	76·0	43·0	54·6	51·2	4·0	13·1	1·2	— 4·3	SW	SW; Calm	8·0	0·0	1·7	..	0·76
9	In Equator	29·624	56·6	39·9	45·0	44·5	74·0	32·0	54·0	50·9	0·5	7·8	0·0	— 7·0	Calm	Calm; NE	0·0	0·0	0·0	..	0·52
10	..	29·910	62·5	37·1	47·6	44·7	87·0	30·0	54·2	51·3	2·9	14·1	1·5	— 4·3	NNE	SW	0·0	0·0	0·0	..	0·00
11	..	29·871	58·5	42·9	49·0	43·1	68·2	36·2	54·5	51·6	5·9	12·4	2·3	— 2·8	S; SW	W	0·0	0·0	0·0	30	0·00
12	Full	30·042	67·8	38·9	52·0	46·2	91·5	32·0	55·0	52·1	5·8	14·1	2·0	+ 0·3	Calm	W	0·0	0·0	0·0	70	0·00
13	..	29·964	65·3	47·3	54·2	50·6	78·0	37·5	55·5	52·2	3·6	12·0	2·7	+ 2·5	SW	Calm	0·0	0·0	0·0	35	0·00
14	Perigee	29·959	67·8	42·2	54·7	46·3	93·8	32·8	56·8	52·7	8·4	18·6	2·6	+ 2·8	NE	NE; SE	0·0	0·0	0·0	45	0·00
15	Greatest Declination S.	29·914	67·5	46·3	55·5	45·3	94·8	34·0	57·4	53·2	10·2	15·5	1·2	+ 3·2	Calm	NNE; ESE	1·5	0·0	0·2	135	0·00
16	..	30·021	61·8	43·4	50·7	44·8	82·3	40·2	57·5	53·7	5·9	11·9	3·6	— 1·8	NE	NE	3·6	0·0	1·4	105	0·00
17	..	29·991	70·5	35·4	52·0	45·0	94·5	25·5	58·2	54·3	7·0	16·5	1·8	— 0·8	NE	N; Calm	0·0	0·0	0·0	50	0·00
18	..	29·964	56·1	43·2	47·3	45·3	64·2	36·5	58·5	54·7	2·0	7·6	1·0	— 5·9	Calm; N	NE	0·0	0·0	0·0	100	0·00
19	Last Qr.	30·100	64·0	34·8	49·0	40·4	91·0	23·5	58·2	54·7	8·6	17·9	3·4	— 4·4	Calm	NE; SE	0·0	0·0	0·0	5	0·00
20	..	29·975	69·7	38·0	54·1	45·1	97·5	28·2	58·8	55·2	9·0	17·6	2·5	+ 0·3	Calm; SW	W	0·0	0·0	0·0	30	0·00
21	..	29·679	66·0	46·0	54·2	49·8	88·0	42·0	59·0	55·7	4·4	7·7	2·9	+ 0·2	SW	SW	2·0	0·0	0·2	205	0·03
22	In Equator	29·429	62·5	47·8	53·6	50·0	73·2	44·0	59·2	55·9	3·6	9·4	1·1	— 0·7	SW	SW	6·0	0·0	1·3	155	0·14
23	..	29·464	64·0	45·7	51·3	47·1	86·2	41·0	59·5	55·9	4·2	10·4	1·1	— 3·2	SSW	WSW; SSW	3·6	0·0	0·4	135	0·28
24	..	29·597	64·8	42·6	51·0	44·7	75·0	35·5	59·5	56·2	6·3	13·1	1·4	— 3·8	SSW; SW	SW	3·4	0·0	0·5	130	0·00
25	..	29·666	61·3	40·7	50·2	43·1	84·5	32·0	59·8	56·2	7·1	13·7	3·3	— 4·8	S; SW	SW	1·2	0·0	0·3	125	0·00
26	New	29·500	66·0	42·9	51·3	45·8	89·0	37·4	59·5	56·2	5·5	10·4	2·1	— 4·0	S; SW	SW	2·4	0·0	0·3	110	0·05
27	..	29·551	59·0	44·1	49·0	47·7	74·2	38·3	59·0	55·7	1·3	5·8	0·0	— 6·5	SW; S	SW	4·0	0·0	0·8	240	0·37
28	..	29·590	63·5	44·0	52·5	46·9	83·5	38·7	59·0	56·2	5·6	12·8	1·3	— 3·3	SW	W; SW	3·0	0·0	0·4	45	0·19
29	Apogee Greatest Dec. N.	29·506	60·0	40·8	48·6	46·8	71·5	37·5	59·0	55·9	1·8	9·0	0·7	— 7·3	W	SW	4·8	0·0	0·8	130	0·50
30	..	29·685	63·8	44·8	52·8	49·0	79·5	39·0	58·8	56·1	3·8	11·6	2·1	— 3·4	W	WSW	0·0	0·0	0·0	100	0·04
31	..	29·833	68·3	44·2	54·6	52·4	91·5	36·8	59·4	56·5	2·2	16·0	1·6	— 1·8	SW	S; E	0·0	0·0	0·0	55	0·00
June 1	..	29·735	70·3	41·4	55·1	48·5	98·2	33·2	59·5	56·2	6·6	14·6	2·2	— 1·4	ENE	NE	2·0	0·0	0·6	150	0·00
2	..	29·577	57·3	49·0	51·5	50·3	64·0	45·2	60·0	56·2	1·2	4·0	1·0	— 5·3	NE	NNE	4·8	0·0	1·0	195	0·18
3	..	29·683	63·0	45·2	51·0	45·1	70·0	43·0	59·4	55·9	5·9	14·8	3·9	— 6·0	NNE	NE	4·5	0·0	1·8	200	0·00
4	First Qr.	29·959	65·0	43·2	51·5	44·5	85·5	38·2	59·2	55·9	7·0	15·2	2·9	— 5·6	NE	NE	1·0	0·0	0·0	65	0·00
5	..	29·973	64·8	43·2	51·3	46·7	85·0	36·2	58·6	55·7	4·6	12·0	2·4	— 6·0	NE	NNE	0·0	0·0	0·0	145	0·00
6	In Equator	29·919	57·5	46·6	50·2	45·4	67·5	43·0	57·8	54·7	4·8	8·5	2·3	— 7·3	NE	NNE	2·0	0·0	0·8	180	0·00
7	..	29·968	58·0	47·0	50·7	45·2	68·5	43·0	57·6	54·7	5·5	11·4	3·8	— 7·1	NNE	N	1·2	0·0	0·0	125	0·00
8	..	29·914	63·0	47·4	52·7	46·3	72·4	46·0	57·2	54·5	6·4	12·1	3·8	— 5·2	N	N; Calm	0·0	0·0	0·0	65	0·00
9	..	29·928	64·0	47·4	53·6	47·2	74·0	42·8	57·0	54·5	6·4	12·8	1·5	— 4·5	S; N	NW; SW	0·0	0·0	0·0	95	0·00
10	Full	29·790	68·4	49·4	55·8	45·5	91·5	41·8	57·5	54·7	10·3	19·8	3·7	— 2·5	SW	NW; Calm	0·0	0·0	0·0	150	0·00
11	Perigee	29·695	66·0	42·9	54·3	45·3	84·0	36·5	58·0	55·1	9·0	13·6	5·6	— 4·2	SW	SW	4·1	0·0	0·9	245	0·00
12	Greatest Declination S.	29·461	68·0	52·4	56·5	51·9	85·0	53·0	58·6	55·7	4·6	10·9	3·2	— 2·3	SW	SW	6·0	0·0	1·5	175	0·00
13	..	29·506	62·9	47·7	52·6	50·4	72·3	42·5	59·0	55·7	2·2	9·4	2·0	— 6·3	SSW	SW	4·8	0·0	0·5	150	0·17
14	..	29·595	69·2	48·8	56·7	48·7	95·5	41·2	59·4	55·7	8·0	15·3	2·0	— 2·3	SW; WSW	SW	0·0	0·0	0·0	40	0·00
15	..	29·583	62·5	48·7	54·0	52·8	65·0	43·0	59·5	56·3	1·2	3·6	0·0	— 5·2	ESE	E	0·0	0·0	0·0	10	0·12
16	..	29·591	62·0	51·5	55·2	54·0	65·0	50·0	59·6	56·5	1·2	3·4	0·4	— 4·2	ENE	E	0·0	0·0	0·0	110	0·08
17	Last Qr.	29·477	68·5	49·5	56·5	50·5	87·5	52·0	60·0	56·7	6·0	12·8	2·4	— 3·0	SW	SW	1·0	0·0	0·0	100	0·01
18	In Equator.	29·675	71·0	45·7	56·1	49·1	95·5	39·8	61·0	57·3	7·0	16·5	2·1	— 3·6	SSW	SW	0·0	0·0	0·0	70	0·00
19	..	29·809	66·7	47·1	56·1	49·4	86·5	41·2	61·5	57·9	6·7	12·6	2·0	— 3·8	SW	SSW	2·0	0·0	0·3	80	0·00
20	..	29·771	68·8	43·9	53·7	48·9	87·0	40·0	61·5	58·2	4·8	17·7	1·6	— 6·4	S	W; SW	0·0	0·0	0·0	70	0·00
21	..	29·904	68·2	46·0	55·3	49·7	88·9	39·2	61·5	58·3	5·6	14·1	1·4	— 5·0	WSW	SW; SSW	0·0	0·0	0·0	70	0·04
22	..	29·981	73·5	54·8	61·5	56·7	95·3	53·0	62·2	58·7	4·8	14·3	2·2	+ 1·1	SW	W	0·0	0·0	0·0	45	0·01
23	..	30·017	78·5	57·0	65·5	58·0	106·5	51·8	63·5	59·7	7·5	14·9	0·6	+ 4·9	W	WSW	0·0	0·0	0·0	55	0·00
24	..	30·011	78·4	53·9	62·7	57·4	104·0	48·5	64·0	59·7	5·3	15·6	1·2	+ 2·0	WSW	SW; S	0·0	0·0	0·0	25	0·00
25	New Greatest Dec. N.	29·785	80·0	54·6	67·3	60·1	104·5	48·1	65·0	61·2	7·2	16·4	2·6	+ 6·4	Calm	S; SE	0·0	0·0	0·0	60	0·00
26	Apogee	29·546	73·0	53·7	59·4	53·1	88·0	50·0	65·5	61·3	6·3	10·7	4·4	— 1·6	SE; SW	SW	4·0	0·0	1·4	220	0·01
27	..	29·643	65·8	49·5	5~~4·6~~	4~~5·4~~ 57·4	82·8	49·2	65·8	61·3	7·8	14·8	1·8	— ~~6·6~~ 5·0	SW	SW	3·6	0·0	0·6	95	0·03

May 4 to May 10. Whewell's Anemometer was under repair.

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Apr. 30			10, r	10, r
May 1			10, r	10, r
2			10 cu.-s, ci.-s, li.-cl	7, cu.-s, ci.-s : 0
3			9, cu.-s, ci.-s, sc	10, cu.-s, ci.-s, r
4			7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : 0
5			v, cu, ci.-cu, ci.-s,	v, r : 0
6			10, th.-r	10, ci.-s : v, ci.-s, sc
7			v, cu, cu.-s, li.-cl, shs.-r	v, : 10, cu.-s, ci.-s
8			10, cu.-s, ci.-s, r	10, cu, cu.-s, ci.-s, hl, r
9	s, sps	s, sps	10, cu, cu.-s, ci.-s, h.-r, t.-s	7, cu, cu.-s, h.-r, t.-s : 10
10	0	0	7, cu, cu.-s, ci.-s	7, cu, cu.-s, ci.-s : 0
11	0	0	10, cu.-s, ci.-s, r	10, cu.-s, ci.-s : v
12	0	0	10, cu.-s, ci.-s : v, li.-cl	v, li.-cl
13	0	0	10	10 : 0
14	v	v	0	0 : 10
15	v	v	0	7, cu.-s, ci.-s : 0
16	v	v	7, cu, cu.-s, sc	7, cu, cu.-s : 0
17	v	v	0	0 : 2, ci.-s
18	v	v	10, r	10, r : 0
19	v	v	0	5, cu, cu.-s, li.-cl : 0
20	v	v	0	7, cu, cu.-s, ci.-s : 10
21	P, N, sps	m	10, cu, cu.-s, ci.-s, r	10, cu, cu.-s, ci.-s
22	P, N, sps	P, N, sps	9, cu, cu.-s, : 10, shs.-r	10, shs.-r
23	P, N, sps	m	10, cu, cu.-s, sc, r	5, cu, cu.-s, sc : 0
24	m	m	7, cu, cu.-s, shs.-r	7, cu, cu.-s, ci.-s
25	m	m	7, cu, cu.-s	7, cu, cu.-s : 0
26	m	P, N, sps	v, cu.-s, ci.-s	v, n, shs.-r
27	P, N, sps	P, N, sps	7, cu, cu.-s, n, hl, r	7, cu, cu.-s, n, hl, r : 0
28	P, N, sps, g cur	s	10, cu.-s, ci.-s, h.-r, t.-s	10, cu.-s, ci.-s
29	P, N, sps. g cur	P, N, sps, g cur	9, cu, cu.-s, n	9, cu.-s, ci.-s, shs.-r
30	P, N, sps, g cur	P, N, sps, g cur	v, cu, cu.-s, n, hl, r	v, cu, cu.-s, n, hl, r
31	s	s	7, cu, cu.-s	7, cu, cu.-s : 0
June 1	m	P, N, sps, g cur	5, cu, ci.-cu, ci.-s	5, cu, ci.-cu, s : 10
2	P, N, sps	m	10, r	10, r
3	m	m	10, cu, ci.-cu, ci.-s, r	10, cu, ci.-cu : 0
4	w	w	7, cu, ci.-cu, ci.-s	7, cu, ci.-cu, ci.-s
5	w	w	10, ci.-cu, ci.-s : 9	10, ci.-cu, ci.-s, th.-r
6	w	w	10 ci.-s	10, ci.-s
7	w	w	10, ci.-s	10, ci.-s
8	w	w	10, ci.-s	10, ci.-s : 9
9	w	w	10, ci.-s	10, ci.-s
10	w	w	10, cu.-s, ci.-s, li.-cl	v, cu.-s, ci.-s, li.-cl
11	0	0	10	10
12	0	v	10, cu, ci.-cu, th.-r	7, cu, ci.-cu : 0
13	P, N, sps	P, N, sps	10, ci.-s, n, shs.-r	10, ci.-s shs.-r : 0
14	s	s	10, ci.-s, sc : 9	10, cu, ci.-cu, ci.-s
15	v	v	10, ci.-s, c.-r	10, ci.-s, c.-r
16	m	m	10, ci.-s, c.-r	10, ci.-s, c.-r
17	m	m	7, ci.-cu, ci.-s, li.-cl	v, ci.-cu, ci.-s, li.-cl
18	s	s	7, cu, ci.-s, li.-cl	0
19	m	m	7, cu, cu.-s, ci.-s, li.-cl	7, cu, cu.-s, ci.-s : 0
20	s	0	10, ci-cu, s, h	10, ci.-cu, s
21	0	0	10	10 : 8, m.-r
22	v	v	10, ci.-cu, ci.-s, s	10, ci.-cu, ci.-s, s : 0
23	v	v	3, ci.-cu, ci : 0	0
24	s	s	10, ci. cu, s	v
25	m	m	7, s, ci	7, cu.-s, ci.-s
26	w	w	7, ci.-cu, ci.-s, shs.- r	7, cu, cu.-s, ci.-s : 7, cu.-s, ci.-s, sc
27	N, sps, g cur	w	10, cu, cu.-s, ci.-s, shs.-r	7, cu, cu.-s, ci.-s : 3

The Electrical Apparatus was not in use from March 19 to May 9.

MONTH and DAY, 1854.	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.	Whewell's Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles	in.
June 28	..	29·500	68·5	49·5	56·7	50·6	87·5	46·5	65·6	61·3	6·1	14·3	5·0	— 4·6	S	S; Calm	0·0	0·0	0·0	10	0·20
29	..	29·473	71·0	48·6	56·2	50·7	91·6	43·0	64·8	61·2	5·5	16·5	0·9	— 5·3	Calm	W; SW	0·0	0·0	0·0	10	0·10
30	..	29·600	72·3	45·5	57·0	52·4	93·2	41·0	64·6	61·2	4·6	16·1	0·0	— 4·7	Calm	NW; W	0·0	0·0	0·0	35	0·02
July 1	..	29·778	61·6	51·3	53·8	52·6	65·6	51·0	64·2	61·5	1·2	7·3	0·6	— 8·0	Calm	S	0·0	0·0	0·0	15	0·16
2	..	29·815	69·8	50·2	57·8	53·0	85·0	45·2	64·0	61·2	4·8	13·2	1·7	— 4·2	S	Calm	0·0	0·0	0·0	40	0·00
3	First Quarter In Equator	29·611	70·5	54·2	60·0	54·6	92·7	53·0	64·2	61·7	5·4	10·1	2·2	— 2·1	Calm; SW	SW	1·0	0·0	0·1	95	0·02
4	..	29·458	72·5	55·4	59·5	54·6	97·2	50·5	65·0	62·2	4·9	11·7	1·4	— 2·7	SW	W	0·0	0·0	0·0	85	0·01
5	..	29·570	66·5	48·5	54·4	48·8	88·2	43·0	64·5	61·9	5·6	11·6	4·4	— 6·5	W	S	0·0	0·0	0·0	145	0·05
6	..	29·594	67·3	49·5	55·1	47·7	91·8	43·5	64·0	61·7	7·4	15·0	3·0	— 7·1	SSW	SW	1·0	0·0	0·0	45	0·12
7	..	29·630	65·0	46·6	54·5	51·0	75·0	42·0	64·0	61·3	3·5	10·4	2·6	— 7·6	SE	SE	0·0	0·0	0·0	..	0·10
8	..	29·638	68·0	51·5	56·3	51·2	91·6	48·2	63·8	61·3	5·1	13·6	1·4	— 5·7	Calm	Calm	0·0	0·0	0·0	..	0·23
9	Greatest Declination S.	29·634	72·3	47·3	58·2	50·6	98·5	42·9	64·0	61·5	7·6	15·0	1·0	— 3·7	Calm	Calm	0·0	0·0	0·0	..	0·04
10	Perigee Full	29·767	66·4	49·7	56·5	53·1	80·0	46·2	63·6	61·2	3·4	8·6	2·3	— 5·3	Calm	Calm; NE	0·0	0·0	0·0	45	0·07
11	..	29·761	66·2	50·3	55·5	48·8	88·2	48·0	63·6	60·9	6·7	13·6	3·8	— 6·3	NE	N; Calm	0·0	0·0	0·0	60	0·34
12	..	29·701	57·0	50·5	52·0	51·0	58·3	48·0	63·8	60·7	1·0	3·8	0·0	— 9·9	W	NNW	0·0	0·0	0·0	70	0·41
13	..	29·702	70·0	48 6	56·9	51·0	85·0	44·2	63·5	60·7	5·9	13·2	1·8	— 5·1	Calm; W	W	0·0	0·0	0·0	80	0·00
14	..	29·620	67·5	48·8	56·1	54·1	87·0	45·0	63·6	60·7	2·0	8·0	1·3	— 6·0	SW	SW	0·0	0·0	0·0	135	0·00
15	In Equator	29·728	71·2	53·8	59·7	53·9	89·0	49·4	63·4	60·7	5·8	14·9	1·5	— 2·4	SW	NW; SW	0·0	0·0	0·0	90	0·01
16	..	29·965	76·0	51·4	62 3	56·7	98·8	44·2	64·0	60·9	5·6	16·5	1·6	+ 0·2	Calm	W	0·0	0·0	0·0	90	0·00
17	Last Qr.	29·907	71·5	53·6	60·8	51·8	82·7	50·0	64·2	61·2	9·0	15·4	2·6	— 1·3	Calm; S	SW	0·0	0·0	0·0	60	0·00
18	..	29·852	75·6	51·6	61·8	50·2	105·5	48·0	66·0	62·1	11·6	18·9	2·4	— 0·2	Calm; W	SW	0·0	0·0	0·0	105	0·00
19	..	29·864	73·1	50·7	61·0	51·6	94·7	43·0	66·0	61·9	9·4	15·9	2·1	— 0·9	S	SW	1·2	0·0	0·3	140	0·00
20	..	29·959	77·0	52·0	63·3	54·1	97·5	44·8	66·2	62·9	9·2	16·5	4·0	+ 1·4	Calm	NNE; Calm	0·0	0·0	0·0	95	0·00
21	..	30·066	81·0	51·6	65·0	52·8	105·0	48·8	66·4	63·9	12·2	22·7	0·0	+ 3·2	Calm	WSW	0·0	0·0	0·0	35	0·00
22	..	30·065	84·0	53·1	68·5	56·5	114·5	45·2	68·5	64·7	12·0	23·9	0·6	+ 6·7	SW	SW	0·0	0·0	0·0	65	0·00
23	Greatest Dec. N. Apogee	30·014	87·9	50·8	68·3	52·8	115·0	44·2	69·5	65·7	15·5	28·2	1·2	+ 6·5	Calm	Calm; SW	0·0	0·0	0·0	35	0·00
24	..	29·968	84·8	54·6	69·2	58·5	107·0	48·0	70·5	66·9	10·7	22·2	0·4	+ 7·3	E	Calm	0·0	0·0	0·0	80	0·00
25	New	29·931	88·7	58·3	73·0	59·2	117·6	53·0	71·5	67·7	13·8	22·1	2·7	+11·1	ENE	ENE; E	0·0	0·0	0·0	82	0·00
26	..	29·952	75·5	50 6	62·2	54·9	99·5	49·2	71·0	67·3	7·3	12·8	1·7	+ 0·2	NE	ENE	2·0	0·0	0·2	25	0·00
27	..	29·969	73·6	55·5	61·2	54·4	106·0	53·5	70·5	66·5	6·8	15·9	1·0	— 0·9	NE	ENE	0·0	0·0	0·0	95	0·03
28	..	30·079	73·5	50·6	60·4	50·0	91·7	43·0	69·5	66·2	10·4	17·0	4·4	— 1·8	NE	NE; E	0·0	0·0	0·0	85	0·01
29	..	30·019	76·5	44·0	60·1	51·8	103·5	34·5	69·0	66·2	8·3	19·5	3·9	— 2·1	E	SE	0·0	0·0	0·0	50	0·00
30	In Equator	29·799	80·5	55·2	63·4	60·3	98·8	48·8	68·8	66·2	3·1	16·5	1·4	+ 1·2	SSW	SSW	0·0	0·0	0·0	120	0·00
31	..	29·607	75·8	57·0	63·7	60·6	95·0	48·0	68·5	65·9	3·1	12·8	0·2	+ 1·7	SW	SW; SSW	0·0	0·0	0·0	150	0·06
Aug. 1	First Qr.	29·550	71·0	56·5	61·2	54·0	93·0	55·0	69·0	65·7	7·2	13·3	1·0	— 1·0	S; WSW	SW	0·0	0·0	0·0	60	0·66
2	..	29·582	72·8	48·7	60·8	53·8	82·0	40·2	68·2	65·5	7·0	12·9	0·0	— 1·4	SW	WNW; N	0·0	0·0	0·0	110	0·10
3	..	29·716	63·0	54·7	55·5	53·8	63·0	50·0	67·6	63·9	1·7	4·4	0·4	— 6·6	Calm; NE	NNE	0·0	0·0	0·0	80	1·40
4	..	29·792	57·5	49·4	51·3	51·3	57·6	43·0	67·4	63·3	0·0	3·2	0·0	—10·8	N	NW	0·0	0·0	0·0	165	0·33
5	..	29·864	58·0	51·4	53·4	51·6	60·0	50·0	65·2	61·7	1·8	4·8	1·5	— 8·7	N	NNW	0·0	0·0	0·0	100	0·17
6	Greatest Declination S.	29·948	71·0	52·4	56·7	55·2	90·7	51·0	64·2	61·2	1·5	10·2	0·0	— 5·3	NNW	N; Calm	0·0	0·0	0·0	75	0·00
7	Perigee	29·937	66·8	50·5	56·1	51·9	78·0	44·8	64·2	60·7	4·2	10·5	1·4	— 5·9	Calm	N; Calm	0·0	0·0	0·0	10	0·00
8	Full	29·893	72·5	49·7	59·9	52·1	95·5	40·3	64·2	61·2	7·8	15·1	3·2	— 2·0	Calm; NE	SSW	0·0	0·0	0·0	50	0·00
9	..	29·800	73·3	52·9	61·9	55·1	88·3	42·2	64·2	61·5	6·8	12·0	1·0	+ 0·1	Calm; SW	SW; Calm	0·0	0·0	0·0	40	0·00
10	..	29·689	75·7	55·2	61·5	55·4	83·0	47·2	64·8	62·2	6·1	14·9	2·5	— 0·3	Calm	Calm; NW	0·0	0·0	0·0	75	0·01
11	..	29·840	76·5	52·3	62·3	51·4	103·2	41·3	65·0	62·3	10·9	20·5	5·6	+ 0·6	WSW	SW	0·0	0·0	0·0	130	0·00
12	In Equator	29·812	71·6	57·5	62·4	56·6	81·5	49·8	65·0	62·5	5·8	11·7	1·0	+ 0·8	S; SW	SW	3·6	0·0	0·5	114	0·00
13	..	29·679	79·8	54·0	66·7	59·3	101·2	45·8	66·0	62·7	7·4	18·5	0·6	+ 5·3	S; SSE	SSE; Calm	0·0	0·0	0·0	35	0·00
14	..	29·643	76·5	56·6	64·2	54·7	100·9	48·8	66·5	63·5	9·5	15·3	3·0	+ 2·9	Calm	SW	1·2	0·0	0·1	90	0·00
15	Last Qr.	29·729	71·3	50·6	58·6	48·2	97·5	37·8	66·5	63·2	10·4	15·8	3·2	— 2·7	SW	SW	2·4	0·0	0·1	50	0·10
16	..	29·751	69·5	49·8	56·3	48·5	92·0	40·7	66·0	62·7	7·8	16·1	2·6	— 4·8	Calm	WSW	0·0	0·0	0·0	60	0·00
17	..	29·885	65·5	45·0	54·6	48·4	84·2	33·7	66·0	62·2	6·2	11·7	2·6	— 6·4	WSW	W	0·0	0·0	0·0	30	0·04
18	..	30·022	68·1	43·0	55·6	47·6	87·5	30·2	65·0	62·2	8·0	14·3	2·4	— 5·2	WSW	W; SW	0·0	0·0	0·0	60	0·00
19	Apogee Greatest Dec. N.	29·980	75·6	50·4	63·3	51·9	103·0	35·2	65·5	62·7	11·4	18·3	5·0	+ 2·6	SW	WSW	0·0	0·0	0·0	125	0·01
20	..	29·853	78·8	57·5	64·8	58·2	102·5	45·0	65·6	62·7	6·6	15·5	2·9	+ 4·2	SW	W; S	0·0	0·0	0·0	85	0·08
21	..	29·663	72·4	54·2	62·6	57·0	81·8	44·0	65·5	63·1	5·6	10·1	1·6	+ 2·2	SSW	SW	0·0	0·0	0·0	115	0·00
22	..	29·798	73·6	50·9	60·4	48·0	96·3	39·5	65·8	62·9	12·4	21·2	2·5	+ 0·1	SW	W	0·0	0·0	0·0	140	0·00
23	New	29·968	72·0	48·3	58·2	48·7	98·0	34·0	65·2	62·7	9·5	17·3	2·2	— 2·0	WSW	SW	2·0	0·0	0·2	190	0·03
24	..	29·709	75·8	55·0	63·5	53·3	98·0	54·1	64·5	62·2	10·2	18·6	3·0	+ 3·5	WSW	WSW	5·0	0·0	0·7	205	0·02
25	..	30·104	71·8	51·0	59·2	46·4	98·2	41·0	64·4	61·9	12·8	18·9	4·4	— 0·7	W; N	N	0·0	0·0	0·0	40	0·00

July 7 to 9. Whewell's Anemometer was under repair.

MONTH and DAY, 1854.	ELECTRICITY. A.M.	ELECTRICITY. P.M.	CLOUDS AND WEATHER. A.M.	CLOUDS AND WEATHER. P.M.
June 28	N, s : P, m	P, m : N, s	10, cu, cu.-s, r	10, cu, cu.-s, ci.-s, s, r
29	m	m	10, cu, cu.-s, s, ci, r	8, s, ci : 0
30	v	v	10, cu, cu.-s, ci.-s	10, cu, cu.-s, ci.-s, t, h.-r
July 1	w	w	10, r	10, r
2	m	m	10, cu.-s, ci.-s, s	10, cu.-s, ci.-s, s
3	v	v	10, s, ci.-s, r	10, cu, ci.-cu, li.-cl
4	P, N, sps, g cur	P, N, sps, g cur	10, m.-r	10, cu, cu.-s, li.-cl, shs.-r
5	P, N, sps, g cur	P, N, sps, g cur	10, cu.-s, ci.-s	7, cu, cu.-s, ci.-s, shs.-r : 10, shs.-r
6	P, N, sps, g cur	P, N, sps, g cur	9, cu.-s, ci.-s	9, cu, cu.-s, ci.-s, s, h.-r : cu, ci.-cu, ci, shs.-r
7	P, N, sps, g cur	P, N, sps, g cur	10 : h.-r	9, cu, ci.-s, h. r : 10, s, ci.-s
8	v, sps	v, sps	10, h.-shs.-r	7, cu, ci.-cu, ci.-s
9	m	m	10, cu, ci.-cu, li.-cl	10, ci.-cu, ci.-s, l, t, shs.-r
10	P, N, s	P, N, s	10, r	10, r
11	m	m	10, r : 9, ci.-cu, ci.-s, li.-cl	10, shs.-r
12	P, N, s	P, N, s	10, h.-r	10, h.-r : v
13	m	m	10, s, ci.-s	7, cu.-s, ci.-s, li.-cl : 10
14	s	s	10	10, m.-r
15	P, N, sps	P, N, sps	10, cu, cu.-s, ci.-s, s	10, cu, ci.-cu, ci.-s, s : r
16	m	m	5, ci.-cu, ci.-s, li.-cl	7, cu, cu.-s, ci.-s
17	m	m	10, s, ci.-s, l-shs.-r	5, cu.-s, ci.-s, s
18	m	m	0 : v, cu, cu.-s	v, cu, ci.-cu, ci.-s
19	m	m	7, cu, ci.-cu, ci.-s, li.-cl	7, cu, cu.-s, ci.-s, li.-cl : 0
20	m	m	10, ci.-cu, ci.-s, li.-cl	10, cu, cu.-s : v
21	m	m	0, h	0, h
22	m	m	0	0
23	m	m	0	0
24	m	m	0	2, cu, cu.-s, s : 0
25	0	0	0	0
26	0	0	0	10, cu, cu.-s, s, ci.-s
27	0	0	10, cu, ci.-s, r	10
28	0	0	7, cu, cu.-s	7, cu, cu.-s li.-cl : 0
29	0	0	7, cu, cu.-s, ci.-s	7, ci.-cu, ci.-s, li.-cl : v
30	0	P, N, s	10, cu, cu.-s, ci.-s	10, cu, cu.-s, t : 3, ci.-s, li.-cl
31	P, N, s	P, N, s	10, sl.-r : h.-sh.-r	7, cu, cu.-s ci.-s : 10, ci.-s
Aug. 1	P, N, s	P, N, s	10, cu, cu.-s, ci.-s, r	7, ci.-cu, ci.-s, h.-r : 0
2	0	0 : P, N, s	5, cu, cu.-s, ci.-s : 10, ci.-cu, ci.-s	10, ci.-cu, ci.-s : h.-r : t.-s, h.-r
3	P, N, s, sps	P, N, s	10, h.-r	10, r
4	P, N, s	P, N, s	10, r	10, r
5	P, N, s	P, N, s	10, r	10
6			10	10, cu, cu.-s, ci.-s : 7, ci.-cu, s, ci.-s
7			10	10 : 10, ci.-cu, ci.-s
8			3, ci.-cu, ci.-s, li.-cl	3, cu, cu.-s, ci.-s : 7, s, ci.-s lu.-ha
9			10, ci.-cu, ci.-s : v	v : 10, cu, ci.-s
10			10, sl.-r	9, ci.-cu, ci
11			0	10, ci.-cu, ci, sc : v
12			10 : 10	10 : 0
13			8, cu, ci.-cu, ci	8, cu, ci.-cu, ci : 10
14			10, cu, ci.-cu, ci	10, ci.-cu, ci, li.-cl : 0
15			7, cu, ci.-cu, sc : sl.-r	10, ci.-cu, ci.-s, r
16			10, ci.-cu, ci.-s	10
17			0, h	v, ci.-s, sl.-r : 0
18			10, cu, ci.-cu, ci	10, h.-sh.-r : 7, t, fr.-shs.-r : 0
19			8, ci.-cu, ci	8, cu, cu.-s : sl.-r
20			v, cu, ci.-cu, sl.-r	v, cu, ci.-cu, ci : 0
21			10 : sl.-r	10, r : 9
22			5, cu, ci.-cu, sc	5, cu, ci.-cu, sc : 0
23			0 : 10	10, r
24			5, cu, ci.-cu, sc	10 : 0
25			7, cu, cu.-s, li.-cl	7, cu.-s, ci.-s, ci : 0

August 6 to August 30. The electrical apparatus was under repair.

MONTH and DAY, 1854.	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.	Osler's. General Direction. P.M.	Osler's. Pressure in lbs. on the square foot. Greatest.	Osler's. Pressure in lbs. on the square foot. Least.	Osler's. Pressure in lbs. on the square foot. Mean of 24 Obs.	Whewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs.	lbs.	lbs.	miles.	in.
Aug. 26	In Equator	30·223	75·0	44·7	59·9	50·7	94·7	36·3	64·0	60·3	9·2	17·3	2·8	+ 0·1	SW	N ; NW	0·0	0·0	0·0	60	0·00
27	..	30·285	80·2	54·8	67·2	59·0	108·0	45·8	63·7	60·6	8·2	17·7	5·0	+ 7·6	Calm	Calm ; N	0·0	0·0	0·0	25	0·00
28	..	30·323	85·2	62·1	70·7	60·6	110·5	57·8	64·7	61·5	10·1	21·3	1·9	+11·2	Calm	N ; Calm	0·0	0·0	0·0	40	0·00
29	..	30·287	82·7	55·1	67·4	58·3	100·7	47·0	66·2	62·2	9·1	19·5	3·0	+ 8·1	Calm	Calm ; N	0·0	0·0	0·0	10	0·00
30	..	30·080	84·8	54·9	69·3	56·8	111·0	46·5	67·3	64·2	12·5	23·6	1·2	+10·1	Calm ; WSW	WSW	0·0	0·0	0·0	50	0·00
31	First Qr.	30·075	77·2	55·1	62·1	56·0	98·5	48·2	66·7	62·0	6·1	15·0	0·6	+ 3·1	SW	NE	0·0	0·0	0·0	35	0·00
Sept. 1	..	30·183	72·5	44·6	58·3	48·4	94·5	37·0	67·7	62·0	9·9	17·3	0·7	— 0·6	N ; Calm	Calm	0·0	0·0	0·0	40	0·00
2	Greatest Declination S.	30·252	75·8	44·5	60·4	48·9	98·3	35·5	65·7	61·0	11·5	19·2	1·8	+ 1·6	Calm ; SE	E	0·0	0·0	0·0	45	0·00
3	..	30·146	80·0	45·9	60·8	52·7	102·0	38·2	68·0	64·7	8·1	21·9	0·9	+ 2·3	NE	ESE	0·0	0·0	0·0	45	0·00
4	Perigee	30·216	81·2	43·1	62·2	51·1	105·3	36·5	68·0	62·2	11·1	26·7	0·2	+ 3·8	Calm	NE ; Calm	0·0	0·0	0·0	60	0·00
5	..	30·316	73·0	45·0	58·8	52·0	92·5	37·2	68·0	62·7	6·8	11·3	2·8	+ 0·5	NE	NE	0·0	0·0	0·0	35	0·00
6	Full	30·209	77·0	43·6	58·8	49·6	97·5	34·0	67·5	63·2	9·2	21·0	0·0	+ 0·8	NE	NE ; S	0·0	0·0	0·0	15	0·00
7	..	30·112	78·2	45·2	59·0	54·9	99·5	40·5	66·5	63·2	4·1	19·5	3·0	+ 1·1	Calm	NE	0·0	0·0	0·0	10	0·00
8	In Equator	30·095	72·0	45·9	57·2	45·0	97·0	37·0	68·0	62·7	12·2	19·8	6·7	— 0·6	NE	NE	0·0	0·0	0·0	25	0·00
9	..	30·067	71·5	47·6	57·3	45·7	95·7	38·4	65·5	62·4	11·6	18·8	4·4	— 0·2	NE	NE ; Calm	0·0	0·0	0·0	5	0·00
10	..	30·092	69·2	41·9	55·0	46·8	93·5	35·2	65·0	61·7	8·2	15·6	0·0	— 2·4	Calm	Calm	0·0	0·0	0·0	5	0·00
11	..	30·056	72·5	39·4	55·6	46·9	95·3	34·2	65·0	61·7	8·7	16·2	0·5	— 1·7	NE ; Calm	Calm	0·0	0·0	0·0	15	0·00
12	..	29·866	80·5	40·4	62·3	49·2	99·0	33·0	65·0	61·7	13·1	25·1	2·2	+ 5·3	SE	SSW	2·0	0·0	0·2	140	0·09
13	..	29·767	74·7	58·4	64·1	60·7	80·0	51·3	65·3	61·7	3·4	10·1	0·0	+ 7·3	SW	SW	1·5	0·0	0·2	150	0·03
14	Last Qr.	29·655	72·0	55·6	69·8	57·0	85·0	56·2	65·0	62·2	3·8	11·8	0·2	+ 4·1	SW	W ; SW	5·0	0·0	0·3	130	0·30
15	Greatest Declination N.	29·832	73·8	51·8	61·0	54·9	93·5	45·0	65·0	62·2	6·1	14·3	0·3	+ 4·5	SW	SW	2·5	0·0	0·4	155	0·02
16	Apogee	29·772	73·6	59·6	65·8	60·8	83·0	58·4	65·0	62·2	5·0	8·5	3·7	+ 9·5	W	SW	2·5	0·0	0·1	160	0·01
17	..	29·728	75·0	55·8	63·0	56·2	95·8	53·5	65·3	62·2	6·8	15·0	2·3	+ 6·9	WSW	SW	2·0	0·0	0·0	170	0·00
18	..	29·980	69·7	49·7	58·9	49·9	88·5	43·0	65·0	62·2	9·0	13·9	3·2	+ 3·0	SW	SW	4·6	0·0	0·2	235	0·00
19	..	29·917	69·8	56·8	61·8	60·4	74·5	49·0	65·5	62·5	1·4	5·7	0·5	+ 6·0	SW	SW	4·0	0·0	0·8	180	0·07
20	..	29·840	73·5	52·2	57·6	55·7	79·0	51·4	65·5	62·7	1·9	11·9	0·0	+ 2·1	SW	N ; WSW	3·3	0·0	0·3	120	0·11
21	..	30·023	64·5	44·8	53·2	44·2	83·4	30·0	65·2	..	9·0	13·9	0·7	— 2·2	W	W ; NW	0·0	0·0	0·0	125	0·04
22	New	30·193	63·4	39·7	50·5	40·4	84·0	30·0	64·0	..	10·1	17·6	0·5	— 4·8	NW ; W	NW ; WSW	1·3	0·0	0·0	120	0·00
23	In Equator.	30·123	63·0	48·4	54·9	49·5	69·0	44·5	63·0	..	5·4	10·3	3·6	— 0·1	WSW ; NW	NW ; WSW	0·0	0·0	0·0	95	0·03
24	..	29·869	71·0	53·3	59·5	51·6	84·8	49·8	62·2	..	7·9	15·0	2·0	+ 4·7	WSW	W	7·2	0·0	2·5	150	0·00
25	..	30·196	65·0	42·8	52·6	43·4	84·3	34·0	61·0	55·7	9·2	15·6	3·3	— 2·1	NW ; W	NNW	0·0	0·0	0·0	35	0·00
26	..	30·241	68·8	39·5	53·0	45·4	88·0	35·0	60·5	57·9	7·6	16·0	0·0	— 1·4	Calm	Calm	0·0	0·0	0·0	10	0·00
27	..	30·196	70·0	40·3	55·3	47·5	90·0	33·5	60·6	57·2	7·8	17·3	2·2	+ 1·0	Calm	SE ; E	0·0	0·0	0·0	35	0·00
28	..	30·012	71·0	43·3	56·4	44·8	92·5	33·0	60·5	58·1	11·6	19·5	1·9	+ 2·4	Calm	Calm	0·0	0·0	0·0	10	0·00
29	First Quarter. Greatest Dec. S.	29·988	74·0	37·9	55·0	48·0	92·5	31·0	60·4	58·5	7·0	17·3	1·8	+ 1·2	Calm	Calm	0·0	0·0	0·0	..	0·00
30	..	30·033	72·0	38·7	54·9	49·5	88·0	32·0	60·0	59·2	5·4	15·0	0·0	+ 1·4	Calm	Calm	0·0	0·0	0·0	..	0·00
Oct. 1	..	30·063	65·2	42·7	51·7	51·1	72·6	35·0	60·0	..	0·6	6·1	0·0	— 1·6	Calm	Calm	0·0	0·0	0·0	15	0·00
2	Perigee	29·854	72·8	38·8	54·3	47·1	87·3	34·0	59·5	..	7·2	14·4	0·3	+ 1·2	Calm	Calm	0·0	0·0	0·0	50	0·01
3	..	29·692	66·0	47·3	54·9	46·3	77·0	36·0	59·0	..	8·6	14·8	2·2	+ 2·1	Calm ; WSW	NW	0·0	0·0	0·0	90	0·00
4	..	29·652	64·0	39·5	50·7	45·4	79·5	29·4	59·2	..	5·3	17·9	3·4	— 1·9	Calm	SW	0·0	0·0	0·0	175	0·00
5	..	29·435	72·8	53·8	60·6	51·2	93·0	46·5	58·6	56·7	9·4	13·0	2·2	+ 8·2	SW	SW	4·8	0·0	1·5	165	0·00
6	In Equator. Full.	29·430	58·5	47·6	51·5	50·9	60·0	49·0	58·8	56·5	0·6	4·4	0·0	— 0·8	SSW ; Calm	NE	0·0	0·0	0·0	100	0·60
7	..	29·843	59·5	46·8	51·6	45·0	63·0	45·0	58·6	56·2	6·6	12·6	0·9	— 0·4	NE	NE	4·0	0·0	0·5	180	0·12
8	..	29·823	62·0	47·8	54·4	51·0	77·2	43·0	58·4	55·7	3·4	11·6	0·4	+ 2·6	E	E	3·8	0·0	0·7	60	0·01
9	..	29·614	72·2	51·9	58·7	56·5	82·2	48·0	58·4	55·3	2·2	7·7	0·8	+ 7·2	E	W	0·0	0·0	0·0	80	0·01
10	..	29·896	66·0	48·5	55·8	52·2	73·0	39·8	58·0	55·3	3·6	14·4	0·6	+ 4·5	NW ; W	SW	0·0	0·0	0·0	140	0·00
11	..	30·061	60·2	47·7	51·4	46·4	72·5	49·8	58·0	55·7	5·0	8·8	3·2	— 0·4	SW	N	2·6	0·0	0·3	125	0·06
12	..	30·367	60·0	36·1	46·5	40·1	78·3	27·0	57·8	55·3	6·4	14·4	1·0	— 4·3	N	NNE	0·0	0·0	0·0	45	0·00
13	Greatest Declination N.	30·339	54·3	32·1	41·3	39·6	66·8	26·5	57·4	55·1	1·7	6·3	0·0	— 9·3	Calm	Calm	0·0	0·0	0·0	40	0·00
14	Last Quarter Apogee	30·149	54·0	40·5	48·3	47·2	58·0	34·0	57·0	54·5	1·1	4·0	0·8	— 2·1	Calm	Calm	0·0	0·0	0·0	10	0·00
15	..	30·001	53·8	48·8	50·0	49·2	53·8	40·0	56·5	54·1	0·8	2·2	0·0	— 0·2	Calm	Calm	0·0	0·0	0·0	40	0·14
16	..	29·731	56·0	43·0	47·2	40·6	71·0	43·0	56·2	53·3	6·6	12·0	1·5	— 2·7	NE	Calm	0·0	0·0	0·0	15	0·16
17	..	29·200	55·0	35·3	44·0	41·7	69·5	27·0	55·6	52·7	2·3	4·8	0·0	— 5·8	Calm	NE	1·8	0·0	1·0	150	0·00
18	..	29·214	52·0	42·3	45·3	43·5	64·0	39·5	55·4	50·7	1·8	3·3	1·0	— 4·2	NW	NW	9·5	0·0	4·0	160	0·01
19	..	29·627	50·8	35·5	42·0	37·4	68·0	29·5	55·0	50·3	4·6	14·5	0·0	— 7·3	NW ; SW	SW	2·0	0·0	0·1	155	0·02
20	In Equator	29·263	55·2	43·8	48·7	42·5	60·0	36·6	54·5	50·1	6·2	9·4	1·8	— 0·3	SW	W	3·5	0·0	0·5	110	0·47
21	New	29·491	56·5	43·0	48·6	40·9	68·0	34·0	54·0	50·0	7·7	11·8	3·0	— 0·2	WNW	NW ; SW	0·0	0·0	0·0	155	0·01
22	..	29·302	58·3	41·3	49·1	41·0	70·4	38·3	53·5	50·0	8·1	11·4	3·9	+ 0·4	SW	NW	8·0	0·0	1·6	105	0·00
23	..	29·225	57·7	39·1	46·0	39·4	78·0	31·8	53·0	49·6	6·6	14·0	0·8	— 2·4	NW	WSW	5·0	0·0	0·1	110	0·10

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Aug. 26			3, s, ci, h	3, cu, ci.-cu, li.-cl : 10
27			10, ci.-cu, s, h	10, cu, cu.-s, ci.-s
28			7, cu.-s, ci.-s, h	7, cu, ci.-cu, ci. s, li.-cl : o
29			o, h : 9, s, h	o : h
30			o	o
31	v	v	o : 10, s, ci.-s	10, s, ci.-s : o
Sept. 1	v	v	o : 2, ci	o
2	v	v	o : 5, s, ci	o
3	m	m	o, th.-f	o
4	m	m	o	o : f
5	m	m	5, cu, cu.-s, h : 10	10 : o
6	m	m	o	o
7	m	m	o, f	10, cu, cu.-s
8	m	m	4, cu, cu.-s, ci.-s	4, cu, cu.-s, ci : v
9	m	m	7, ci.-cu, ci.-s, s	o
10	m	m	v, cu.-s, ci.-s	v, cu, cu.-s : o, f
11	m	m	o, th.-f	3, ci.-cu, li.-cl
12	w	w	o	o
13	o	o	10, r	10 : r
14	o	o	10, r	10, ci.-s, m.-r
15	m	m	10, ci.-cu, ci.-s, li.-cl : 10	10, ci.-cu, ci.-s, sc : m.-r
16	m	m	10, s, ci.-s, li.-cl, m.-r	10 : o
17	v	v	7, cu, cu.-s, ci.-s, r	7, cu, cu.-s, ci.-s, sl.-r
18	m	o	o : 10, cu, cu.-s, ci.-s	10
19	o	o	10, r	10, m.-r
20	m	m	10, ci.-cu, ci.-s, li.-cl	10, h.-shs.-r : o, f
21	v	v	o	7, ci.-cu, ci.-s, li.-cl : o : l
22	m	o : m	o	v, ci.-cu : 10
23	o	o : w	10, r : 10	10 : m.-r
24	v	v	5, ci.-cu, ci.-s, sc	5, cu.-s, ci.-s, ci : 10, s, ci.-s : 5, r
25	m	o	o, h	3, cu, cu.-s, li.-cl : o, h
26	v	v	o, f	o
27	m	m	o, h	o
28	v	v	o	o : f
29	v	v	o, th.-f	o : th.-f
30	P, s, sps	P, s, sps	o, f	o, h
Oct. 1	v	v	10, th.-f	o, f : th.-f
2	s	s	o, f	o, f : 3, ci.-cu, ci.-s, lu.-co
3	v	v	o : v, ci.-cu, ci.-s, sc	4, s, ci.-s, li.-cl
4	m	m	v, s, ci.-s	v, s, ci
5	w	o	7, s, ci, li.-cl : 3, ci.-cu, ci	7, ci.-cu, ci
6	P, N, s	P, N, s	10, r	10, r
7	s	s	10, r	9, s, ci.-s, li.-cl : 10
8	m	m	5, s, ci.-s, li.-cl	o : 10
9	s	s	10, s, ci.-s, sc, r	8, cu, cu.-s, ci.-s : 10
10	s	s	v, f : 5, cu, cu.-s, ci.-s	v, cu, cu.-s, ci.-s
11	v, sps	v, sps	10, r : 7, ci.-cu, ci.-s	7, cu, cu.-s, ci.-s : o
12	s	s	o	o
13	s	s	10, th.-f	10
14	s	s	10, f	10, sl.-r : r
15	s	s	10, sl.-r	10 : r
16	s	s	10 : o	10
17	s : N, s	s	10, r	10, s, ci.-s
18	s	s	10, r	10, sqs.-r : sl.-r
19	s	s	7, s, ci.-s, h	7, ci.-cu, ci.-s, li.-cl
20	s	s	10, h.-r : 10, cu, cu.-s, ci.-s	10, h.-sh.-r : 10, ci.-s
21	s	s	8, ci.-cu, ci.-s, li.-cl	8, ci.-cu, ci.-s
22	o	o	10 : o	o
23	o	o : m	7, cu, ci.-cu, sc	10, ci.-cu, ci.-s, t, h.-r : v, l, sl.-r

MONTH and DAY, 1854.	Phases of the Moon.	Mean Daily Reading of the Barometer (corrected and reduced to 32° Fahrenheit).	Readings of Thermometers. Dry. Highest.	Dry. Lowest.	Dry. Mean Daily Value.	Dew Point. Mean Daily Value.	Highest in the Sun, as shewn by a Self-Registering Thermometer read at 9h P.M.	Lowest on the Grass, as shewn by a Self-Registering Thermometer read at 9h A.M. next morning.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Highest.	In the Water of the Thames, at Greenwich, by Self-Registering Thermometers, read at 9h A.M. next morning. Lowest.	Difference between the Dew Point Temperature and Air Temperature. Mean Daily Value.	Difference between the Dew Point Temperature and Air Temperature. Greatest.	Difference between the Dew Point Temperature and Air Temperature. Least.	Difference between the Mean Temperature of the Day and the Mean Temperature of the same Day on an Average of 38 Years.	Wind as deduced from Anemometers. Osler's. General Direction. A.M.	Wind as deduced from Anemometers. Osler's. General Direction. P.M.	Pressure in lbs. on the square foot. Greatest.	Pressure in lbs. on the square foot. Least.	Pressure in lbs. on the square foot. Mean of 24 Obs.	Wheewell's. Amount of Horizontal Movement of the Air on each Day.	Rain in Inches read at 9h P.M.
		in.	°	°	°	°	°	°	°	°	°	°	°	°			lbs	lbs.	lbs.	miles.	in.
Oct. 24	..	29·205	54·8	35·2	44·0	38·7	73·0	27·2	53·0	48·9	5·3	11·8	0·0	— 4·2	SW	SW; NE	0·0	0·0	0·0	40	0·18
25	..	28·955	48·0	38·5	42·4	42·4	57·0	32·5	52·2	48·8	0·0	0·0	0·0	— 5·5	NE	Calm	0·0	0·0	0·0	90	0·62
26	Perigee Greatest Dec. S.	29·578	55·0	35·3	42·6	35·4	74·0	26·8	52·0	48·3	7·2	11·6	0·3	— 5·1	Calm	Calm; SW	0·0	0·0	0·0	10	0·16
27	..	30·168	55·0	31·3	42·6	37·3	72·0	23·5	52·0	48·1	5·3	12·0	0·3	— 4·9	SW	SW; S	0·0	0·0	0·0	60	0·00
28	First Qr.	30·187	57·0	40·0	47·4	39·3	70·0	30·4	51·0	47·9	8·1	13·0	3·2	+ 0·1	SSE	SE	3·0	0·0	0·1	55	0·01
29	..	30·059	60·0	37·8	47·5	42·4	77·0	26·0	51·2	47·9	5·1	16·2	3·3	+ 0·5	SE	SW; S	0·0	0·0	0·0	50	0·00
30	..	30·038	65·0	43·5	54·2	46·0	79·8	35·0	50·5	48·2	8·2	16·2	0·5	+ 7·4	SE	SSE	0·0	0·0	0·0	70	0·00
31	..	29·976	68·6	49·3	57·0	51·9	83·5	39·0	50·0	47·9	5·1	11·7	0·7	+10·5	SSE	SW	0·0	0·0	0·0	50	0·00
Nov. 1	..	30·271	61·6	39·3	48·9	46·0	75·5	32·0	50·0	48·7	2·9	12·2	0·0	+ 2·6	SW	S	0·0	0·0	0·0	15	0·00
2	In Equator	30·183	60·0	46·2	51·4	49·7	75·4	40·0	50·5	49·0	1·7	5·0	0·8	+ 5·3	SSE	Calm; S	0·0	0·0	0·0	105	0·00
3	..	30·144	54·0	39·3	44·6	36·5	63·0	32·0	50·4	48·7	8·1	12·1	5·8	— 1·3	SW; NW	NW; W	2·5	0·0	0·1	115	0·00
4	Full	30·033	52·0	36·1	44·3	40·2	56·5	25·0	50·0	48·4	4·1	8·0	1·6	— 1·4	SW	WSW	0·0	0·0	0·0	140	0·00
5	..	29·954	56·5	43·0	48·3	45·7	59·0	41·2	49·6	49·1	2·6	5·1	1·9	+ 2·9	NNW	W; WSW	0·0	0·0	0·0	75	0·00
6	..	30·286	52·5	36·6	42·9	35·7	68·0	28·0	49·4	47·5	7·2	11·6	1·6	— 3·0	W	N	0·0	0·0	0·0	60	0·00
7	..	30·364	50·5	33·9	42·1	40·4	68·0	23·3	49·0	47·3	1·7	5·7	0·0	— 2·8	Calm; SW	SW	0·0	0·0	0·0	90	0·00
8	..	30·071	50·5	35·7	43·6	40·8	56·5	26·0	48·5	47·3	2·8	6·6	0·5	— 1·2	SW	WSW	0·0	0·0	0·0	125	0·00
9	Greatest Declination N.	30·129	48·6	33·4	37·3	33·5	56·0	25·5	48·0	46·1	3·8	8·6	1·9	— 7·2	NW	N	3·0	0·0	0·2	105	0·00
10	..	30·008	46·0	27·9	37·7	33·7	54·0	14·0	47·8	45·7	4·0	9·2	2·6	— 6·6	SW	SW	0·0	0·0	0·0	145	0·05
11	Apogee	29·986	49·2	40·8	44·2	40·1	54·0	30·0	47·5	46·0	4·1	6·6	0·7	+ 0·2	SW; NW	N	0·0	0·0	0·0	80	0·03
12	Last Qr.	30·129	46·2	36·1	39·3	34·7	57·8	28·0	47·4	45·3	4·6	9·2	2·1	— 3·7	N	N; Calm	0·0	0·0	0·0	25	0·00
13	..	29·871	48·0	30·0	39·6	35·8	51·0	20·0	47·0	45·1	3·8	8·6	0·3	— 3·8	Calm; SE	S	2·0	0·0	0·1	150	0·00
14	..	29·449	45·0	34·7	37·1	34·8	47·0	35·0	47·0	44·8	2·3	9·2	1·0	— 6·1	SE	SE	0·0	0·0	0·0	95	0·02
15	..	28·995	52·0	31·9	43·1	39·7	59·5	29·0	47·0	44·4	3·4	6·6	1·1	+ 0·2	SE	SW	2·0	0·0	0·1	65	0·20
16	In Equator	28·955	50·0	38·9	43·9	43·4	50·5	28·0	46·6	44·4	0·5	2·0	0·0	+ 1·1	SE	Calm	0·0	0·0	0·0	15	0·27
17	..	29·280	46·5	34·1	42·5	41·3	47·5	27·0	46·2	44·4	1·2	3·6	0·0	0·0	N	NE	0·0	0·0	0·0	125	0·13
18	..	29·591	45·0	38·8	40·4	33·2	48·5	37·0	45·6	43·9	7·2	10·6	5·3	— 2·0	NE	NE	3·5	0·0	1·8	165	0·00
19	..	29·947	43·2	37·2	39·6	34·1	45·8	35·0	46·0	43·5	5·5	7·7	2·8	— 2·6	NE	NNE	0·0	0·0	0·0	135	0·00
20	New	30·010	42·2	34·4	37·7	33·7	45·0	27·0	45·2	41·1	4·0	7·2	3·1	— 4·3	NE	NE	0·0	0·0	0·0	65	0·00
21	..	29·478	44·2	35·0	38·6	33·7	44·8	31·6	45·0	43·0	4·9	9·0	0·5	— 3·3	SW	SW	2·0	0·0	0·3	150	0·19
22	Perigee	28·846	44·0	31·9	35·7	34·7	46·0	28·0	44·5	42·5	1·0	4·0	0·0	— 6·1	SW	W	0·0	0·0	0·0	60	0·00
23	Greatest Declination S.	28·977	41·2	30·8	33·9	32·9	42·3	21·0	44·2	42·1	1·0	7·2	0·0	— 7·9	SW	NE	0·0	0·0	0·0	35	0·01
24	..	29·107	43·2	28·4	34·5	33·2	46·5	16·0	44·0	41·5	1·3	6·0	0·8	— 7·1	N	N	0·0	0·0	0·0	100	0·00
25	..	29·415	41·0	31·5	35·8	33·7	41·0	19·5	43·5	41·4	2·1	6·0	0·8	— 5·9	N	N	0·0	0·0	0·0	115	0·02
26	..	29·768	39·4	30·1	33·2	32·4	44·5	23·0	43·5	40·8	0·8	5·0	0·0	— 8·6	N	N	0·0	0·0	0·0	10	0·00
27	First Qr.	29·846	34·0	25·9	28·5	28·5	38·0	26·0	43·0	40·3	0·0	2·6	0·0	—13·4	Calm; SW	SW	0·0	0·0	0·0	85	0·00
28	..	29·509	44·5	31·5	39·1	37·3	44·8	25·0	43·0	40·3	1·8	3·8	1·5	— 2·8	SW	SW	3·0	0·0	0·5	255	0·15
29	In Equator	29·931	50·5	40·5	44·4	36·1	54·2	33·5	42·5	40·7	8·3	11·5	0·0	+ 2·5	SW	SW; W	12·0	0·0	1·5	135	0·17
30	..	29·307	49·0	34·6	40·8	37·5	55·0	26·5	42·5	40·8	3·3	8·1	1·3	— 1·0	SW	SW	3·0	0·0	0·2	155	0·17
Dec. 1	..	29·475	51·0	38·9	42·3	34·4	52·4	28·0	42·2	40·8	7·9	8·4	4·6	+ 0·6	W	W	0·0	0·0	0·0	185	0·00
2	..	29·798	45·0	34·2	40·3	31·7	48·0	28·2	42·0	40·8	8·6	11·2	3·1	— 1·3	WSW	W	2·0	0·0	0·3	160	0·00
3	..	29·723	49·8	37·4	45·9	43·1	54·0	28·0	42·0	40·8	2·8	6·2	1·1	+ 4·4	W	WSW	3·0	0·0	0·8	275	0·00
4	Full	29·916	50·2	42·3	45·2	36·2	56·6	28·5	42·0	40·8	9·0	11·7	3·8	+ 3·8	W	W; SW	3·3	0·0	0·3	290	0·00
5	..	29·356	50·0	40·1	45·3	41·2	51·5	32·5	42·0	41·2	4·1	7·0	0·0	+ 4·0	SW	SW	4·8	0·0	1·3	245	0·10
6	Greatest Declination N	29·413	45·5	34·9	39·5	34·9	50·3	27·0	42·0	41·4	4·6	8·7	2·9	— 1·6	SW	W	0·0	0·0	0·0	165	0·00
7	..	30·019	42·0	31·0	35·8	32·2	49·0	25·0	42·0	41·2	3·6	7·2	0·7	— 5·2	N	W	0·0	0·0	0·0	125	0·01
8	Apogee	29·631	49·5	30·7	43·4	42·4	48·2	21·0	42·0	41·0	1·0	4·6	0·0	+ 2·6	SSW	SW	0·0	0·0	0·0	165	0·07
9	..	29·363	45·0	35·9	40·0	34·2	49·0	31·0	42·0	41·2	5·8	11·5	1·0	— 0·7	W	NNW	3·6	0·0	0·8	225	0·03
10	..	29·822	40·7	31·4	34·7	30·3	47·3	25·1	41·5	40·8	4·4	8·9	3·0	— 5·9	NNW	N	2·2	0·0	0·5	95	0·00
11	..	29·871	43·4	26·5	35·9	32·3	49·5	20·2	41·5	40·8	3·6	6·5	3·3	— 4·6	SW	SSW	2·4	0·0	0·3	160	0·00
12	Last Qr.	29·994	44·9	34·1	38·7	34·9	52·0	26·8	41·5	40·7	3·8	6·9	1·6	— 1·6	WSW	SW	2·0	0·0	0·2	150	0·01
13	..	30·018	51·0	37·4	44·9	41·0	52·0	29·2	42·4	41·0	3·9	6·5	1·7	+ 4·7	WSW; SSW	SSW	3·6	0·0	0·8	265	0·03
14	In Equator	29·846	55·0	48·4	51·7	49·3	54·8	38·5	42·0	40·3	2·4	4·4	0·8	+11·7	S by W	WSW	4·0	0·0	1·3	290	0·01
15	..	29·822	54·0	45·6	50·3	43·6	61·9	42·5	43·4	41·2	6·7	10·0	5·5	+10·5	SW	W	10·0	0·0	2·5	325	0·00
16	..	29·705	53·0	38·1	43·3	38·3	53·0	40·0	43·5	42·1	5·0	8·1	2·8	+ 3·7	WSW	NW	4·8	0·0	1·0	165	0·02
17	..	29·699	44·0	32·5	38·4	35·4	44·8	26·4	..	..	3·0	8·5	2·0	— 1·0	W	SW	0·0	0·0	0·0	155	0·02
18	..	29·049	44·8	32·4	37·1	34·2	48·7	31·5	..	..	2·9	7·0	0·2	— 2·2	SW	SW; N	6·0	0·0	1·7	245	0·08
19	New	29·536	38·2	31·3	34·5	29·0	44·4	23·8	..	..	5·5	8·8	3·9	— 4·6	N	NW; SW	3·0	0·0	0·2	105	0·00
20	Greatest Declination S.	29·527	43·0	36·8	39·9	36·4	45·0	23·9	..	..	3·5	8·3	0·2	+ 1·0	NW	NW; N	4·0	0·0	0·5	140	0·42
21	Perigee	29·926	49·8	29·2	39·3	38·3	49·8	20·8	..	..	1·0	3·6	0·5	+ 0·6	SW	WSW	0·0	0·0	0·0	210	0·12

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Oct. 24	P, s	N, s	3, cu, ci.-cu : 10	10, ci.-s : r
25	N, s	N, s	10, sl.-r	10, r
26	o	N, s : m	o	10, r : o, f
27	v	v	o	o
28	o	s	4, ci.-cu, ci.-s	4, ci.-cu
29	s	s	o	o : 10, lu.-ha
30	m	m	o	o
31	s	s	o	3, s, ci : 7, r : o
Nov. 1	s	s	o, f	o : 10, th.-f
2	w	w	10, f	o : v, ci.-s, sc
3	v	v	o	3, ci, li.-cl
4	s	s	10, f	10, f
5	v	v	10, m.-r	o
6	m	m	o, f	o : lu.-co
7	s, sps	s, sps	10, f : 8	10, f
8	s, sps	s, sps	10	10 : m.-r
9	v	N, s : v	o : v, cu	v, cu, cu.-s, ci.-s, sl.-r : 2, li.-cl
10	w	w	7, s, ci.-s	7, s : 10, r
11	o	o	10, sl.-r	10, s, ci.-s, sc : f
12	o	o	10, ci.-cu, ci.-s	o : 10
13	m	m	10, ci.-s	10
14	w	N, s, sps : s	10, oc.-r	10
15	N, s : m	m	10, r	7, ci.-cu, ci.-s : o
16	s	N, s : s	10 : r	10, ci.-cu, ci.-s : v, f
17	N, s	m	10, r, f	10
18	m	m	10	8, ci.-cu, ci.-s : 10
19	m	m	10	10
20	v	v	10, sl, r	10, shs.-r
21	m	m	10	10, shs.-r
22	s	s	10, s, ci.-s	10 : o, f
23	s, sps	s, sps	10	10, s, ci.-s, f : o, f
24	s	s	10, ci.-cu, ci.-s	7, ci.-cu, ci.-s : o
25	v	v	10	10 : sl.-r
26	s	s	o : 10	10
27	s	s	10, th.-f	10, th.-f : v, sn
28	s	s	10, f	10, m.-r
29	m	N, s, sps : m	v, cu, cu.-s : 10	10, ci : lu.-ha
30	o	o	o, h	10, ci.-s, sc : r
Dec. 1			2, ci.-cu, ci.-s, s	10, ci.-cu, ci.-s, sl.-r : lu.-co
2			10, ci.-cu, ci.-s, li.-cl	10, ci.-cu, ci.-s : v, lu-ha
3	s	s	10, s, ci.-s	10, s, ci.-s : v, s, sc, lu.-co
4	s	s	o	o : v, ci.-cu, sc
5	s	s	10	10, r : v, lu.-ha
6	s	s	v	v : lu.-co
7	s	s	o	o, h
8	s	s	10 : m.-r	10 : m.-r
9	s	o	10	10 : v, r
10	s	s	o	o
11	s	s	2, ci	2, ci : 10
12	s	s	o, h	o
13	s	s : o	10, r	10 : m.-r
14	o	o	10, r	10, r : 5 : o
15	o	o	o	o
16	o	o	5	10 : o, h
17	m	m	o, h	10
18	m	m	10, r	v
19	m	m	o, f : so.-ha, so.-co	10, ci.-s : m.-r
20	m	m	10, r	10, r
21	m	m	10 : r	10, r

December 1 and 2. The electrical apparatus was out of order.

MONTH and DAY, 1854.	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.	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.
ec. 22	..	29·672	54·3	48·2	51·5	47·9	55·0	32·5	..	..	3·6	4·6	0·0	+13·0	W	WSW	8·0	0·0	1·5	250	0·05
23	..	29·752	53·6	39·0	42·9	40·0	53·7	28·4	..	..	2·9	6·0	0·7	+ 4·5	NW	WSW; NW	0·0	0·0	0·0	80	0·02
24	..	29·744	47·8	36·3	42·8	40·2	52·5	27·0	42·8	41·8	2·6	6·2	0·8	+ 4·6	W	W	0·0	0·0	0·0	230	0·00
25	..	29·560	55·0	41·6	47·4	44·1	57·7	37·5	43·0	41·6	3·3	5·3	2·2	+ 9·6	SW; W	SW	4·8	0·0	0·8	220	0·13
26	First Quarter In Equator	29·712	46·0	37·3	40·6	34·8	48·0	30·0	43·5	41·4	5·8	11·0	3·6	+ 2·8	SW	W	3·0	0·0	0·3	225	0·00
27	..	29·757	41·8	33·8	36·3	31·6	45·0	28·8	43·4	41·4	4·7	8·5	2·5	— 1·3	W	W	2·0	0·0	0·1	80	0·01
28	..	30·284	38·5	29·4	33·1	29·7	39·2	23·2	43·0	41·2	3·4	6·8	1·9	— 4·3	N	N; W	0·0	0·0	0·0	45	0·00
29	..	30·362	41·5	29·3	36·1	33·5	41·5	22·2	43·0	41·0	2·6	3·5	1·9	— 1·2	WSW	W	0·0	0·0	0·0	105	0·00
30	..	30·322	46·5	40·0	42·6	37·6	48·0	32·4	43·0	40·7	5·0	8·2	3·5	+ 5·6	W	WSW; W	0·0	0·0	0·0	85	0·00
31	..	30·143	45·6	36·5	41·9	35·4	47·8	30·3	42·8	41·2	6·5	9·4	3·3	+ 5·2	W	W	0·0	0·0	0·0	300	0·00

MONTH and DAY, 1854.	ELECTRICITY.		CLOUDS AND WEATHER.	
	A.M.	P.M.	A.M.	P.M.
Dec. 22	m	m	10, s, ci.-s	10
23	m	m	4, ci : 10, ci.-cu, s, ci.-s	10 s, ci.-s : m.-r
24	m	m	10	10
25	m	m	10, m.-r	10, s, ci.-s, oc.-r
26	m	m	0	3, s, ci : 0
27	m	m	4, ci.-cu, s, ci.-s	4, ci.-cu, ci.-s, sc : 10, sl.-r, sn
28	m	m	0	0, h
29	m	m	10	10
30	m	m	10	10 : v, lu-ha
31	m	m	10, s : sl.-r	10

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 be sometimes sensibly erroneous.

MAXIMA.			MINIMA.			MAXIMA.			MINIMA.		
Approximate Mean Solar Time, 1854.		Reading.	Approximate Mean Solar Time, 1854.		Reading.	Approximate Mean Solar Time, 1854.		Reading.	Approximate Mean Solar Time, 1854.		Reading.
	d h m	in.		d h m	in.		d h m	in.		d h m	in.
January	11. 9. 0	29·777	January	7. 9. 0	28·809	August	6. 10. 20	29·968	July	31. 9. 0	29·527
	18. 0. 0	30·047		13. 9. 0	29·506		18. 9. 0	30·040	August	13. 21. 0	29·617
	20. 2. 10	30·158		19. 9. 0	29·821		22. 21. 0	30·019		21. 9. 0	29·635
	26. 9. 0	30·450		24. 3. 0	29·451		28. 21. 0	30·340		24. 3. 0	29·781
	30. 21. 0	30·091		28. 22. 0	29·704	September	5. 0. 0	30·328		30. 9. 0	30·012
February	2. 21. 0	30·215	February	0. 21. 0	29·825		25. 21. 0	30·266	September	13. 21. 0	29·589
	10. 0. 0	30·147		4. 9. 0	29·730	October	7. 9. 0	29·963	October	5. 3. 0	29·394
	13. 21. 0	30·545		11. 22. 30	30·060		12. 21. 0	30·439		9. 3. 0	29·586
	23. 9. 0	30·466		17. 9. 0	29·302		19. 0. 0	29·667		17. 21. 0	29·107
March	4. 9. 0	30·669		24. 9. 0	30·183		27. 9. 0	30·231		25. 3. 0	28·872
	16. 21. 0	30·338	March	10. 0. 0	29·929	November	1. 9. 0	30·289		30. 21. 0	29·950
	21. 21. 0	30·406		18. 9. 0	29·864		7. 0. 0	30·415	November	4. 22. 30	29·888
April	3. 9. 0	30·428		25. 22. 30	29·783		12. 3. 30	30·135		10. 21. 0	29·904
	17. 0. 0	30·136	April	15. 3. 0	29·872		19. 21. 0	30·040		15. 21. 0	28·883
	24. 9. 0	30·317		21. 9. 0	29·266		27. 9. 0	29·935		22. 3. 0	28·813
May	11. 21. 0	30·069	May	1. 3. 0	29·037		29. 21. 0	29·409		29. 0. 0	28·869
June	4. 9. 0	30·000		22. 9. 0	29·394	December	4. 3. 0	29·940		30. 9. 0	29·075
	15. 21. 0	29·639	June	12. 0. 0	29·436		7. 9. 0	30·075	December	5. 9. 0	29·212
	23. 21. 0	30·044		16. 21. 0	29·458		12. 21. 0	30·097		8. 21. 0	29·325
July	1. 22. 40	29·839		29. 3. 0	29·472		20. 21. 0	30·014		17. 21. 0	28·864
	21. 21. 0	30·097	July	4. 3. 0	29·445		29. 9. 0	30·384		24. 23. 0	29·487

MONTHLY MEANS of RESULTS for METEOROLOGICAL ELEMENTS at the ROYAL OBSERVATORY, GREENWICH, in the Year 1854.

1854. 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.						in.
January....	29·618	54·8	13·5	41·3	44·7	33·9	10·8	39·0	36·1	·234	2·7	0·3	·917	546	NE ; SW	0·47	111	7·8	15	1·4
February...	30·041	57·0	23·5	33·5	47·2	33·6	13·6	39·2	33·6	·218	2·6	0·5	·8[illegible]	554	E ; NE	0·21	123	6·8	9	1·2
March	30·186	64·2	25·5	38·7	~~54·6~~	35·4	19·2	43·5	37·4	·236	2·8	0·7	[illegible]	551	NE ; SE	0·46	84	6·0	6	0·3
April	29·985	77·5	28·3	49·2	61·9	38·2	23·7	48·4	45·0	·274	3·1	0·9	[illegible]	542	NE	0·46	78	4·7	7	0·6
May	29·667	70·5	34·8	35·7	63·7	42·4	21·3	50·9	48·6	·327	3·7	0·7	·8[illegible]	534	SW	0·48	100	6·9	17	3·5
June.....	29·735	78·5	41·4	37·1	67·5	48·3	19·2	55·7	52·7	·371	4·2	0·9	·825	529	SW	0·31	104	8·2	12	0·9
July.....	29·807	88·7	44·0	44·7	73·1	51·5	21·6	60·3	53·6	·413	4·6	1·3	·783	525	Var.	0·02	76	7·4	15	1·8
August.....	29·889	85·2	43·0	42·2	73·1	52·4	20·7	60·9	53·3	·416	4·7	1·4	·771	526	SW	0·50	78	6·8	12	2·6
September..	30·031	81·2	37·0	43·3	72·2	46·5	25·7	58·1	50·4	·375	4·3	1·3	·770	532	SW; NE	0·20	75	4·2	9	1·0
October	29·724	72·8	31·3	41·5	59·6	42·1	17·5	49·4	44·5	·309	3·6	0·6	·846	536	Var.	0·30	87	6·4	11	2·4
November ..	29·~~728~~	61·6	25·9	35·7	47·7	35·0	12·7	40·5	37·9	·245	2·9	0·3	·916	547	SW	0·21	100	7·2	13	1·9
December ..	29·768	55·0	26·5	28·5	47·1	36·1	11·0	41·3	37·0	·239	2·8	0·4	·872	546	SW	0·50	186	5·9	16	1·4
Means	29·848	70·6	31·3	39·3	59·4	41·3	18·1	48·9	44·2	·305	3·5	0·8	·830	539	– –	–	–	6·5	Sum 142	Sum 19·0

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.

Days of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	50·66	49·87	49·00	48·46	48·40	48·63	49·18	49·98	*S*	51·49	51·66
2	51·43	50·62	49·74	*S*	48·46	48·40	*S*	49·20	50·03	50·41	51·50	51·66
3	51·38	50·58	49·70	48·95	48·47	48·40	48·65	49·20	*S*	50·84	51·46	*S*
4	51·38	50·54	49·68	48·94	48·45	*S*	48·67	49·24	50·08	50·85	51·44	51·65
5	51·36	*S*	*S*	48·82	48·45	48·36	48·[illegible]	49·25	50·10	50·91	*S*	51·60
6	51·34	50·[illegible]4	49·60	48·90	48·44	48·40	48·70	*S*	50·16	50·90	51·59	51·65
7	51·37	50·47	49·[illegible]7	48·88	*S*	48·40	48·62	49·30	50·10	50·93	51·60	51·64
8	*S*	50·38	49·58	48·86	48·44	48·43	48·74	49·35	50·19	*S*	51·61	51·65
9	51·30	50·38	49·62	*S*	48·42	48·43	*S*	49·38	50·25	51·02	51·63	51·70
10	51·26	50·37	49·53	48·80	48·43	48·44	48·76	49·42	*S*	51·03	Not	*S*
11	51·24	50·30	49·52	48·80	48·42	*S*	48·78	49·46	50·30	51·10	51·60	51·63
12	51·20	*S*	*S*	48·77	48·43	48·40	48·78	49·48	50·30	51·05	*S*	51·61
13	Not	50·24	49·51	48·75	48·43	48·45	48·80	*S*	50·35	51·09	51·66	51·61
14	51·17	50·20	49·42	Good Friday.	*S*	48·44	48·86	49·53	50·34	Not.	51·60	51·63
15	*S*	50·20	49·40	48·74	48·42	48·46	48·88	49·56	50·38	*S*	51·68	51·69
16	51·12	50·13	49·38	*S*	48·40	48·46	*S*	49·58	50·42	51·15	51·60	51·60
17	51·11	50·15	49·35	48·70	48·40	48·50	48·90	49·60	*S*	51·[illegible]0	51·65	*S*
18	51·08	50·05	49·32	48·73	48·40	*S*	48·92	49·62	50·48	51·30	51·65	51·55
19	51·04	*S*	*S*	48·68	48·40	48·50	48·93	49·67	50·46	51·20	*S*	51·53
20	51·03	50·03	49·25	48·65	48·40	48·48	48·95	*S*	50·52	51·25	51·60	51·59
21	51·00	50·00	49·23	48·64	*S*	48·54	48·96	49·72	50·55	51·25	51·63	51·52
22	*S*	50·00	49·22	48·60	48·40	48·54	49·00	49·74	50·57	*S*	51·65	51·63
23	50·88	49·93	49·19	*S*	48·38	48·60	*S*	49·77	50·56	51·30	51·63	51·47
24	50·90	49·90	49·15	48·56	48·40	48·57	49·05	49·81	*S*	51·39	51·64	*S*
25	50·86	49·88	49·13	48·56	48·40	*S*	49·12	49·78	50·63	51·34	51·65	Christ. Day.
26	50·80	*S*	*S*	Not	48·43	48·58	49·07	49·85	50·70	51·35	*S*	51·43
27	50·81	49·83	49·08	48·54	48·39	48·58	49·08	*S*	50·75	51·40	51·64	51·40
28	50·77	49·80	49·08	48·60	*S*	48·60	49·10	49·93	50·72	51·44	51·67	51·38
29	*S*		49·05	48·50	48·38	48·62	49·14	49·94	50·74	*S*	51·69	51·36
30	50·77		49·03	*S*	48·40	48·63	*S*	49·95	50·74	51·49	51·65	51·37
31	50·73		49·00		48·40		49·18	49·97		51·50		*S*

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

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

February 6, March 7, July 5, October 2, the readings seem to be too low.

October 17, the reading is too high by 0°·5.

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 of all the observations; in one instance the excess was 0°·02, and in another it amounted to 0°·03. In all the remaining cases, the means of the noon observations agreed precisely with the means of all the observations.

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

Days of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	46·48	45·80	45·65	46·90	48·44	50·24	52·60	54·50	*S*	54·40	51·95
2	48·94	46·40	45·78	*S*	47·03	48·48	*S*	52·70	54·65	55·45	54·30	51·84
3	48·35	46·50	45·74	45·67	47·06	48·56	50·46	52·73	*S*	55·45	54·15	*S*
4	48·70	46·38	45·72	45·68	47·12	*S*	50·56	52·80	54·65	55·40	54·06	51·60
5	48·64	*S*	*S*	45·68	47·15	48·67	50·63	52·90	54·68	55·48	*S*	51·60
6	48·48	46·34	45·64	45·68	47·17	48·70	50·72	*S*	54·77	55·38	54·00	51·43
7	48·55	46·38	45·63	45·68	*S*	48·78	50·80	53·15	54·68	55·35	53·91	51·32
8	*S*	46·30	45·63	45·70	47·27	48·86	50·88	53·25	54·85	*S*	53·85	51·25
9	48·22	46·30	45·72	*S*	47·27	48·90	*S*	53·38	54·91	55·40	53·75	51·15
10	48·14	46·42	45·57	45·76	47·30	48·95	51·04	53·45	*S*	55·35	Not.	*S*
11	47·97	46·28	45·54	45·78	47·33	*S*	51·14	53·57	55·02	55·31	53·65	50·96
12	47·88	*S*	*S*	45·80	47·38	49·08	51·16	53·62	55·06	55·24	*S*	50·85
13	Not.	46·28	45·62	45·87	47·44	49·14	51·25	*S*	55·01	55·25	53·40	50·79
14	47·65	46·23	45·47	GoodFriday.	*S*	49·20	51·38	53·77	55·08	Not.	53·40	50·75
15	*S*	46·37	45·46	45·95	47·48	49·26	51·47	53·78	55·15	*S*	53·35	50·68
16	47·47	46·20	45·47	*S*	47·54	49·26	*S*	53·81	55·20	55·15	53·21	50·55
17	47·38	46·33	45·47	46·08	47·56	49·40	51·55	53·85	*S*	55·12	53·20	*S*
18	47·30	46·18	45·40	46·22	47·58	*S*	51·64	53·92	55·28	55·06	53·10	50·32
19	47·18	*S*	*S*	46·18	47·66	49·53	51·70	54·02	55·25	55·03	*S*	50·25
20	46·98	46·18	45·47	46·25	47·70	49·54	51·75	*S*	55·32	55·05	52·85	50·17
21	47·03	46·15	45·47	46·30	*S*	49·64	51·83	54·07	55·33	54·94	52·81	50·10
22	*S*	46·25	45·48	46·35	47·76	49·67	51·90	54·10	55·35	*S*	52·75	50·10
23	46·87	46·06	45·55	*S*	47·80	49·86	*S*	54·15	55·34	54·92	52·60	49·90
24	46·78	46·03	45·54	46·42	47·82	49·84	52·03	54·22	*S*	54·85	52·55	*S*
25	46·70	45·97	45·57	46·54	47·92	*S*	52·18	54·20	55·40	54·75	52·46	Christ. Day.
26	46·68	*S*	*S*	Not.	48·12	49·92	52·12	54·28	55·48	54·71	*S*	49·66
27	46·66	45·90	45·50	46·66	48·10	49·97	52·15	*S*	55·54	54·67	52·28	49·56
28	46·60	45·87	45·57	46·83	*S*	50·07	52·25	54·43	55·47	54·65	52·25	49·50
29	*S*		45·66	46·78	48·15	50·15	52·35	54·42	55·45	*S*	52·19	49·44
30	46·64		45·77	*S*	48·27	50·20	*S*	54·47	55·44	54·59	52·05	49·42
31	46·52		45·60		48·36		52·50	54·50		54·55		*S*

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

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

January 3. The reading seems to be too low by 0°·5

January 6. The reading seems to be too low.

February 3, 10, and 22. The readings seem to be a little too high.

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

Days of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	43·90	43·33	45·00	48·77	51·60	54·98	58·80	59·20	*S*	53·40	48·50
2	44·36	44·00	43·40	*S*	48·70	51·58	*S*	59·00	59·25	58·10	53·30	48·35
3	44·10	44·22	43·46	45·20	48·70	51·68	55·28	59·10	*S*	58·00	53·12	*S*
4	43·84	44·00	43·45	45·35	48·58	*S*	55·30	59·20	59·00	57·80	53·04	48·08
5	43·78	*S*	*S*	45·50	48·65	51·90	55·30	59·10	58·95	57·70	*S*	48·10
6	43·60	44·38	43·30	45·67	48·58	51·92	55·44	*S*	59·30	57·60	53·00	47·98
7	43·57	44·32	43·40	45·82	*S*	52·00	55·30	59·60	58·95	57·30	52·87	47·91

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

Days of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
8	*S*	44·30	43·40	46·00	48·82	52·10	55·57	58·80	59·30	*S*	52·80	47·91
9	42·12	44·38	43·61	*S*	48·90	52·18	*S*	58·70	58·95	57·20	52·60	47·80
10	43·00	44·50	43·38	46·30	49·00	52·27	55·64	58·75	*S*	57·08	Not	*S*
11	42·80	44·48	43·58	46·50	49·08	*S*	55·70	58·80	58·00	56·95	52·30	47·60
12	42·80	*S*	*S*	46·68	49·12	52·37	55·68	58·65	58·10	56·82	*S*	47·50
13	Not	44·37	44·02	46·88	49·18	52·45	55·78	*S*	58·00	56·80	51·78	47·35
14	42·75	44·28	44·10	Good Friday.	*S*	52·58	55·84	58·80	57·90	Not	51·63	47·25
15	*S*	44·25	44·28	47·10	49·37	52·66	55·88	58·83	57·90	*S*	51·50	47·15
16	42·70	44·03	44·40	*S*	49·48	52·66	*S*	58·85	57·80	56·30	51·20	47·00
17	42·77	44·02	44·58	47·50	49·64	52·90	55·80	58·87	*S*	56·20	51·10	*S*
18	42·77	43·80	44·70	47·78	49·80	*S*	55·98	58·87	58·00	56·10	50·92	47·08
19	42·80	*S*	*S*	47·90	50·00	53·10	56·00	58·92	58·00	55·81	*S*	47·10
20	42·92	43·62	44·90	48·05	50·28	53·18	56·12	*S*	58·00	55·95	50·53	47·10
21	43·10	43·50	44·87	48·20	*S*	53·38	56·30	58·85	58·20	55·50	50·46	47·00
22	*S*	43·60	44·98	48·32	50·52	53·50	56·35	58·80	58·23	*S*	50·31	46·90
23	43·31	43·37	44·90	*S*	50·70	53·70	*S*	58·80	58·20	55·09	50·67	46·65
24	43·42	43·30	44·90	48·70	50·88	53·72	56·90	58·83	*S*	54·97	49·95	*S*
25	43·40	43·37	44·88	48·88	51·00	*S*	57·25	58·80	59·10	54·75	49·75	Christ. Day
26	43·58	*S*	*S*	Not	51·10	54·00	57·40	58·83	58·80	54·60	*S*	46·52
27	43·55	43·42	44·90	48·90	51·20	54·20	57·50	*S*	58·88	54·42	49·30	46·52
28	43·68	43·45	44·90	48·92	*S*	54·50	57·90	58·90	58·80	54·30	49·15	46·52
29	*S*		44·84	48·80	51·38	54·74	58·00	59·00	58·70	*S*	48·93	46·50
30	43·82		44·70	*S*	51·48	54·80	*S*	59·10	58·30	53·90	48·68	46·40
31	43·90		44·90		51·58		58·40	59·15		53·70		*S*

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

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

September 6, 12. The readings seem to be too high.

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 the observations, by 0°·03.

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

Day of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	42·60	40·70	44·38	48·28	53·22	58·45	63·40	63·20	*S*	50·91	43·85
2	38·00	42·97	40·60	*S*	48·30	53·40	*S*	63·40	63·10	57·53	51·10	43·91
3	37·88	42·97	40·60	45·30	48·48	53·70	58·30	62·80	*S*	57·28	51·10	*S*
4	37·67	42·32	40·56	45·70	48·70	*S*	58·40	62·40	62·90	57·00	51·00	43·80
5	37·45	*S*	*S*	45·80	49·00	53·70	58·50	61·70	62·80	56·88	*S*	44·15
6	37·38	41·68	40·45	46·00	49·27	53·80	58·60	*S*	62·65	56·82	50·60	44·25
7	37·52	42·18	40·48	46·40	*S*	53·90	58·48	60·60	62·10	56·88	50·20	44·12
8	*S*	42·70	40·60	46·78	49·60	53·80	58·30	60·50	62·20	*S*	49·70	43·80
9	37·40	42·65	41·32	*S*	49·60	53·80	*S*	60·50	62·20	56·55	49·40	43·55
10	37·55	42·45	42·00	47·50	49·50	53·95	58·40	60·59	*S*	56·53	Not	*S*
11	37·65	41·84	42·85	47·80	49·47	*S*	58·42	60·87	61·90	56·70	48·39	43·30
12	37·77	*S*	*S*	47·88	49·68	54·38	58·28	60·92	61·68	56·60	*S*	42·73
13	Not	41·08	43·63	48·10	49·90	54·70	58·32	*S*	61·01	56·18	47·88	42·60
14	38·12	40·70	43·76	Good Friday.	*S*	54·88	58·02	61·50	61·48	Not	47·65	42·60
15	*S*	40·43	44·05	48·67	50·80	54·90	58·10	61·80	61·53	*S*	47·48	43·30
16	38·50	40·10	44·20	*S*	51·40	54·90	*S*	61·61	61·45	54·70	47·11	44·00
17	38·78	40·02	44·50	49·00	51·90	55·38	58·44	61·45	*S*	54·50	47·20	*S*
18	39·35	39·95	44·40	49·40	52·10	*S*	58·90	61·12	61·80	54·12	47·10	44·12
19	40·10	*S*	*S*	49·48	52·44	55·70	59·20	60·90	61·60	53·75	*S*	43·80
20	40·30	39·40	43·84	49·80	52·40	56·10	59·70	*S*	61·60	53·30	46·35	43·35
21	40·48	39·40	43·40	50·48	*S*	56·10	60·17	61·20	61·30	53·00	46·32	42·90
22	*S*	39·95	43·18	50·90	52·98	56·10	60·60	61·40	60·80	*S*	46·10	42·72
23	40·88	40·00	42·97	*S*	53·17	56·50	*S*	61·40	60·00	52·80	45·70	43·00
24	40·90	40·38	43·08	50·38	53·20	57·10	61·85	61·35	*S*	52·50	45·30	*S*

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

Day of the Month, 1854.	January.	February.	March.	April.	May.	June	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
25	40 ·88	40 ·47	42 ·97	49 ·70	53 ·20	*S*	62 ·72	61 ·28	59 ·34	Not	44 ·80	Christ. Day.
26	40 ·88	*S*	*S*	Not	53 ·30	58 ·40	63 ·20	61 ·32	59 ·20	51 ·63	*S*	43 ·60
27	40 ·88	40 ·70	42 ·80	49 ·00	53 ·37	58 ·90	63 ·58	*S*	58 ·82	51 ·10	44 ·09	43 ·50
28	40 ·97	40 ·67	43 ·10	48 ·93	*S*	58 ·88	63 ·70	61 ·72	58 ·58	50 ·80	43 ·80	43 ·10
29	*S*		43 ·40	48 ·65	53 ·08	58 ·78	63 ·55	62 ·30	58 ·35	*S*	43 ·70	42 ·48
30	41 ·68		43 ·08	*S*	52 ·97	58 ·60	*S*	62 ·80	58 ·12	50 ·49	43 ·90	42 ·00
31	42 ·25		44 ·03		53 ·00		63 ·40	63 ·08		50 ·65		*S*

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

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

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

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

Day of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	47 ·8	40 ·8	49 ·8	51 ·0	59 ·8	58 ·0	66 ·0	65 ·2	*S*	52 ·0	42 ·0
2	33 ·5	43 ·5	41 ·8	*S*	51 ·0	56 ·0	*S*	65 ·0	64 ·8	56 ·0	53 ·0	42 ·5
3	29 ·0	37 ·5	39 ·8	51 ·0	54 ·0	55 ·5	63 ·0	62 ·2	*S*	58 ·5	50 ·0	*S*
4	35 ·0	38 ·8	40 ·0	48 ·8	53 ·0	*S*	63 ·0	58 ·2	65 ·5	55 ·0	47 ·0	46 ·0
5	35 ·5	*S*	*S*	51 ·0	53 ·0	56 ·0	61 ·5	58 ·5	66 ·0	61 ·0	*S*	47 ·0
6	34 ·5	48 ·0	38 ·0	51 ·5	51 ·0	53 ·8	62 ·5	*S*	63 ·5	58 ·0	47 ·5	45 ·0
7	37 ·4	48 ·8	38 ·3	51 ·5	*S*	55 ·0	60 ·7	61 ·0	66 ·0	54 ·8	45 ·0	42 ·0
8	*S*	43 ·3	48 ·0	54 ·8	53 ·0	56 ·0	59 ·8	63 ·5	63 ·2	*S*	46 ·0	42 ·0
9	39 ·0	43 ·5	51 ·8	*S*	49 ·5	56 ·5	*S*	64 ·8	63 ·0	57 ·0	43 ·0	44 ·0
10	38 ·0	39 ·6	49 ·8	50 ·5	50 ·5	58 ·0	63 ·0	64 ·2	*S*	58 ·0	Not	*S*
11	37 ·0	39 ·0	49 ·8	62 ·5	52 ·0	*S*	60 ·0	64 ·5	60 ·2	57 ·5	46 ·5	39 ·0
12	37 ·0	*S*	*S*	51 ·6	53 ·0	59 ·0	58 ·0	65 ·5	63 ·0	53 ·0	*S*	41 ·5
13	Not	38 ·0	50 ·0	53 ·8	53 ·0	58 ·5	59 ·0	*S*	65 ·0	48 ·0	42 ·4	43 ·0
14	39 ·7	36 ·0	50 ·0	Good Friday.	*S*	59 ·5	61 ·0	68 ·0	64 ·8	Not	43 ·5	48 ·5
15	*S*	40 ·3	48 ·8	53 ·0	59 ·0	59 ·0	61 ·5	64 ·8	63 ·0	*S*	45 ·0	49 ·0
16	41 ·0	38 ·0	49 ·8	*S*	57 ·0	59 ·0	*S*	61 ·4	66 ·5	51 ·0	48 ·0	47 ·0
17	44 ·5	42 ·5	46 ·0	53 ·8	53 ·0	61 ·0	63 ·8	62 ·5	*S*	50 ·0	45 ·0	*S*
18	46 ·5	38 ·0	45 ·8	53 ·0	55 ·0	*S*	65 ·8	60 ·5	62 ·5	50 ·0	44 ·0	42 ·5
19	40 ·8	*S*	*S*	58 ·0	53 ·0	60 ·0	65 ·5	70 ·8	63 ·0	47 ·0	*S*	38 ·0
20	43 ·0	39 ·8	40 ·5	60 ·0	58 ·0	58 ·0	65 ·5	*S*	64 ·8	52 ·0	43 ·0	41 ·5
21	43 ·0	41 ·0	43 ·0	61 ·0	*S*	60 ·7	66 ·5	66 ·0	58 ·0	50 ·0	41 ·0	38 ·0
22	*S*	41 ·8	43 ·0	54 ·0	57 ·0	63 ·5	68 ·8	63 ·8	56 ·0	*S*	42 ·0	48 ·0
23	43 ·5	41 ·8	44 ·5	*S*	55 ·0	68 ·0	*S*	63 ·0	58 ·0	50 ·0	39 ·0	43 ·0
24	43 ·6	41 ·5	45 ·0	48 ·0	57 ·0	65 ·4	73 ·0	65 ·5	*S*	49 ·0	38 ·5	*S*
25	49 ·7	44 ·0	43 ·4	48 ·0	57 ·5	*S*	75 ·0	63 ·0	57 ·0	Not	39 ·0	Christ. Day
26	43 ·0	*S*	*S*	Not	56 ·5	66 ·6	70 ·7	61 ·7	56 ·5	47 ·0	*S*	43 ·0
27	43 ·5	43 ·0	44 ·8	51 ·0	55 ·0	63 ·0	67 ·5	*S*	58 ·5	45 ·0	35 ·0	40 ·8
28	46 ·0	44 ·0	47 ·0	48 ·2	*S*	62 ·8	67 ·8	72 ·5	58 ·0	52 ·0	40 ·0	38 ·0
29	*S*		47 ·8	48 ·0	53 ·0	63 ·0	66 ·5	69 ·5	55 ·8	*S*	45 ·0	39 ·0
30	48 ·8		48 ·2	*S*	54 ·8	60 ·0	*S*	69 ·0	55 ·0	54 ·0	42 ·0	43 ·0
31	48 ·6		48 ·2		57 ·8		68 ·0	69 ·2		55 ·0		*S*

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

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

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

Day of the Month, 1854.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
d	°	°	°	°	°	°	°	°	°	°	°	°
1	*S*	49·8	50·0	62·5	54·0	68·5	56·0	67·8	71·3	*S*	55·0	44·2
2	33·0	43·0	50·8	*S*	54·5	55·0	*S*	70·5	73·0	63·5	53·0	42·0
3	27·5	33·5	48·5	57·5	58·0	58·0	66·5	59·4	*S*	63·0	51·5	*S*
4	32·0	41·7	47·5	56·0	60·5	*S*	67·5	54·8	76·8	58·5	46·8	48·0
5	34·0	*S*	*S*	60·5	58·0	61·5	60·0	56·0	73·5	69·5	*S*	50·0
6	32·0	54·5	40·5	61·0	54·4	57·0	65·2	*S*	72·7	59·5	49·5	42·5
7	37·8	53·0	38·0	63·0	*S*	56·8	63·0	63·8	73·5	56·0	46·0	40·5
8	*S*	44·8	53·5	65·0	57·8	59·8	63·0	69·0	70·5	*S*	46·0	47·2
9	38·5	44·0	58·5	*S*	51·0	59·0	*S*	71·6	69·0	61·5	42·5	42·0
10	39·2	42·2	53·0	53·0	56·8	63·0	65·5	65·8	*S*	63·8	Bad	*S*
11	36·5	39·5	56·5	63·0	56·0	*S*	65·0	72·5	69·0	58·0	47·0	37·5
12	36·0	*S*	*S*	59·0	60·8	61·0	56·5	68·5	77·2	56·5	*S*	41·0
13	Bad	35·5	61·5	59·0	60·0	62·0	62·0	*S*	69·0	53·0	43·5	44·0
14	43·0	39·5	51·8	Good Friday.	*S*	66·5	62·5	74·5	67·0	Bad	40·5	52·0
15	*S*	39·5	54·5	64·8	66·5	63·0	65·7	69·3	68·8	*S*	47·6	53·0
16	43·5	38·5	51·5	*S*	60·7	63·0	*S*	63·0	71·0	53·0	49·0	44·0
17	47·0	46·7	51·5	58·5	64·4	66·5	69·8	63·8	*S*	53·5	44·0	*S*
18	47·5	39·5	51·5	63·5	55·8	*S*	73·0	64·0	66·0	50·0	41·0	38·0
19	37·8	*S*	*S*	71·0	63·0	64·5	71·0	74·8	63·5	47·5	*S*	34·0
20	48·2	45·0	39·0	73·0	67·5	59·2	71·0	*S*	70·0	53·0	41·5	42·7
21	48·8	49·0	44·8	69·5	*S*	66·3	74·0	70·8	61·0	53·0	39·2	38·5
22	*S*	45·5	46·0	50·0	58·5	69·0	81·0	68·7	60·4	*S*	39·5	51·5
23	46·0	46·5	45·0	*S*	58·0	72·8	*S*	68·5	59·8	55·0	39·5	43·5
24	45·0	46·4	45·8	49·5	59·5	73·0	82·0	72·5	*S*	52·5	37·3	*S*
25	43·5	48·0	44·8	50·0	60·0	*S*	88·5	69·2	61·5	Bad	38·0	Christ. Day
26	48·5	*S*	*S*	Bad	60·0	67·0	74·5	68·8	65·0	50·5	*S*	43·8
27	45·8	50·8	47·0	54·8	54·2	64·5	68·5	*S*	67·0	51·5	30·0	39·0
28	47·5	49·2	55·5	49·8	*S*	64·8	71·5	79·8	68·2	50·5	41·0	36·8
29	*S*		57·0	51·5	52·0	65·5	73·0	78·5	63·0	*S*	46·5	37·5
30	51·7		51·5	*S*	66·6	65·0	*S*	81·2	60·7	62·0	43·0	44·5
31	51·3		56·0		63·0		73·0	79·0		66·0		*S*

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

January 13, April 14 and 26, October 14, and November 10, the instrument was not read.

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	
1853.	Dec.	31.	12.	The direction of the wind was W.S.W.
1854.	Jan.	31.	12.	,, ,, S.S.W., which implies apparent retrograde motion of 45°.
	Jan.	4.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Jan.	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	12.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Jan.	14.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	16.	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 upwards, which implies apparent retrograde motion of 360°.
	Jan.	19.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Jan.	21.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Jan.	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of January was 1035°.

		d	h	
1854.	Jan.	31.	12.	The direction of the wind was S.S.W.
	Feb.	28.	12.	,, ,, S.E., which implies apparent retrograde motion of $67\frac{1}{2}$°.
	Feb.	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Feb.	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Feb.	21.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of February was $292\frac{1}{2}$°.

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

		d	h	
1854.	Feb.	28.	12.	The direction of the wind was S.E.
	March	31.	12.	,, ,, S.S.W., which implies apparent direct motion of $67\frac{1}{2}°$.
	March	0.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	March	2.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	5.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	17.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	18.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	19.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	March	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	March	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of March was $2227\frac{1}{2}°$.

		d	h	
1854.	March	31.	12.	The direction of the wind was S.S.W.
	April	30.	12.	,, ,, S.W., which implies apparent direct motion of $22\frac{1}{2}°$.
	April	2.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	3.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	4.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	7.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	April	10.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	April	20.	22.	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	26.	22.	The trace was shifted to the next set of lines downwards which implies apparent direct motion of 360°.
	April	27.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	April	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of April was $382\frac{1}{2}°$.

		d	h	
1854.	April	30.	12.	The direction of the wind was S.W.
	May	31.	12.	,, ,, E.N.E., which implies apparent retrograde motion of $157\frac{1}{2}°$.
	May	9.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	May	10.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	13.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	15.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	16.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	18.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	May	19.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	May	20.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	May	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of May was $1597\frac{1}{2}°$.

		d	h	
1854.	May	31.	12.	The direction of the wind was E.N.E.
	June	30.	12.	,, ,, S.W., which implies apparent direct motion of $157\frac{1}{2}°$.
	June	0.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	June	4.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	June	8.	$9\frac{1}{2}$.	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	16.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	June	28.	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 June was $202\frac{1}{2}°$.

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

		d	h	
1854.	June	30.	12.	The direction of the wind was S.W.
	July	31.	12.	,, ,, S., which implies apparent retrograde motion of 45°.
	July	0.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	1.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	2.	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 second set of lines downwards, which implies apparent direct motion of 720°.
	July	9.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	10.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	July	20.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	23.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	July	24.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	July	29.	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 July was 2475°.

		d	h	
1854.	July	31.	12.	The direction of the wind was S.
	August	31.	12.	,, ,, E., which implies apparent direct motion of 270°.
	August	8.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	29.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	August	30.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of direct motion in the month of August was 1710°.

		d	h	
1854.	August	31.	12.	The direction of the wind was E.
	Sept.	30.	12.	,, ,, N., which implies apparent retrograde motion of 90°.
	Sept.	1.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	3.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	7.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	9.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	10.	22.	The trace was shifted to the second set of lines upwards, which implies apparent retrograde motion of 720°.
	Sept.	11.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.
	Sept.	28.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of September was 2970°.

		d	h	
1854.	Sept.	30.	12.	The direction of the wind was N.
	Oct.	31.	12.	,, ,, S.W., which implies apparent retrograde motion of 225°.
	Oct.	6.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	7.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	8.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Oct.	11.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	17.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Oct.	22.	22.	The trace was shifted to the second set of lines downwards, which implies apparent direct motion of 720°.
	Oct.	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 October was 585°.

1854.	Oct.	31.	12.	The direction of the wind was S.W.
	Nov.	30.	12.	,, ,, W., which implies apparent direct motion of 45°.
	Nov.	13.	22.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	16.	23.	The trace was shifted to the next set of lines upwards, which implies apparent retrograde motion of 360°.
	Nov.	26.	22.	The trace was shifted to the next set of lines downwards, which implies apparent direct motion of 360°.

Therefore the whole excess of retrograde motion in the month of November was 315°.

		d	h	
1854.	Nov.	30.	12.	The direction of the wind was W.
	Dec.	31.	12.	,, ,, W., which implies no change.

Therefore the whole excess of direct motion to the end of the year was 2452½°.

AMOUNT OF RAIN COLLECTED IN EACH MONTH OF THE YEAR 1854.

1854. 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	0·9	1·7	1·3	1·4
February	0·3	1·1	0·9	1·2
March	0·3	0·4	0·4	0·3
April	0·3	0·5	0·6	0·6
May	2·5	3·2	3·0	3·5
June	0·3	0·9	0·7	0·9
July	0·9	1·5	1·3	1·8
August	1·9	2·9	2·7	2·6
September	0·3	0·7	...	1·0
October	1·4	1·7	...	2·4
November	0·8	1·3	...	1·9
December	0·6	1·0	1·2	1·4
Sums	10·6	16·9	...	19·0

Crosley's rain-gauge was out of order in the months of September, October, and November.